B 9318 E

TELE satellite

#214 GLOBAL DIGITAL TV MAGAZINE 12-01/2010

DXer Report

TURKEY

Satellite Enthusiast with Four Dishes Four TV

Company Report

AZBOX

Satellite Receiver Manufacturer from Portugal

Test Report

PROMAX

Smart Solution: DVB-T to Cable Converter

Test Report

Global Invacom

Satellite Meter of the Future with Coax and Optical Inputs



TELE satellite AWARD 12-01/2010

Test Report

NANOXX 9800HD

HDTV Satellite Receiver Loaded with Features

TOPFIELD®
LEADER OF MULTIMEDIA HOME

www.i-topfield.com

Multimedia HDTV Twin Tuner PVR with DivX playback



SRP-2100 TMS

DIGITAL fernsehen 08.2009 sehr gut TOPFIELD SRP-2100 www.digitalfernsehen.de

HiFi Test TV-VIDEO HEFT 5/2009 Topfield SRP-2100 Referenzklasse Preis/Leistung: gut - sehr gut 1,3

TESTSIEGER SATVISION Topfield SRP-2100 (TMS) SEHR GUT 92,0 % 2 Twin HDTV-Receiver im Vergleich Heft 04/2009

INFOSAT Ausstattung: sehr gut

INNOVATION SATELLITE AWARD TOPFIELD TMS SRP-2100 Future-proof receiver combining satellite television and internet in a single device

PVR

x64

Playing recorded programmes at up to 64 times speed at maximum.

YouTube



Playing media contents of YouTube.

MULTIMEDIA



Playing video files of DivX, MPG, MP4, VOB, MKV and FLV.

SHOUTcast



Playing SHOUTcast Internet radio

Twitter



Blogging with Twitter

Game



Featuring on-line game BATTLE TANK

- Able to transfer media files among network users.
- Providing Yahoo Flickr and Google Weather.

HD High Definition DivX DOLBY DIGITAL DVB Digital Video Broadcasting

* Specifications, functions or design of this product shall be subject to chage for improvement without any futher notice.

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TELE-satellite was established in 1981 and today is the oldest, largest and most-read digital tv trade magazine in the world. TELE-satellite is seen by more than 250,000 digital tv professionals around the world and is available both in printed form and online. TELE-satellite is published worldwide in 22 language editions.

www.TELE-satellite.com

Dear Readers,

A satellite receiver is a satellite receiver. This statement really isn't true anymore and this issue of TELE-satellite will clearly show this: we are introducing a receiver that can do much more than just receive satellites. In another article we have a report on an extensive software update for a multimedia box where satellite reception is only one of many different functions. In other words, a satellite receiver today is not a satellite receiver anymore, it's much more than that; today a satellite receiver is a box that can do almost anything including receiving satellite channels.



It's for this reason that we've decided to re-do the title of TELE-satellite: the word "TELE", that up until now appeared rather on the edge in title, is now at the center of it all. Every receiver that we highlight in TELE-satellite has two things in common: they are connected to a TV or monitor and they are digital. So our new subtitle is "Digital TV".

The separation between satellite reception and other distribution forms is losing its meaning. The common thread of all receiver boxes being sold today is digital technology and for this reason there is yet another improvement in TELE-satellite: we are expanding our coverage to include terrestrial TV (see page 99). That's actually a contradiction: with a satellite antenna you can receive thousands of channels but with a terrestrial antenna it's only a few channels. Depending on the location it can be less than ten channels or as many as 100 channels in areas that are better provided for.

But terrestrial reception is interesting nevertheless. Here channels are transmitted that are favored most by the general public. One consequence to the enormous number of channels transmitted via satellite is that it's impossible to keep track of everything. Before you can enjoy watching these satellite channels you must first go through the large number of channels and perform an extensive clean-up job. This chore is not necessary with terrestrial reception because of the limited number of available channels. For many viewers that's exactly what they want: some higher authority has already decided what channels are there to be watched. Deciding what channels to delete from a satellite receiver channel list is not necessary: with terrestrial tv there are so few channels that nothing needs to be sorted.

It's an interesting concept: "less is more". But we here at TELE-satellite don't necessarily pay homage to this concept. We prefer to leave the choice of what box to buy to our readers. And because of that we will continue to report on everything related to digital TV and this now also includes terrestrial TV. In the end, we prefer to leave the selection and choice of what is received and what box will be used to you, our readers.



Alexander Wiese

P.S.: My favorite radio station of the month: "L Radio" (SIRIUS 4.8 east 11.766H) from the Ukraine. The latest Ukrainian pop songs day and night. The NIT displays the station's name as "Love Radio".

Technomate

High-Definition

- ✓ Record 2 Channels at the same time (on same tp) & playback a recorded file at the same time
- ✓ Record 1 Satellite & 1 Terrestrial Channel & Playback a Recorded File at the same time
- ✓ 2x USB 2.0 Ports (Front + Rear)
- ✓ RF Modulator
- ✓ eSATA & Blind Search
- ✓ Ethernet Communication Port



TM-5000 Super Series



Introducing the Award-Winning TM-5000 USB Super+ Series...

- ✓ 10,000 Channel Memory
- ✓ Component Output (YPbPr)
- ✓ Super Sensitive Tuner & Very Fast Blind Search

Rear Mounted USB 2.0 PVR Features:

- ✓ Record/Playback Scrambled & Free-To-Air (FTA) Channels
- ✓ Pause Live TV by Timeshift; Download/Upload Software; MP3 & JPEG Playback

Based on the HIGHEST Rated Satellite Receiver...ever! (92% by WhatSatellite Magazine)

Available Models:

- TM-5200 D USB Super+ — Free-To-Air Satellite Receiver
- TM-5300 D+ USB Super+ — with Built-in Smart Card Reader
- TM-5400 CI+ USB Super+ — with Card Reader + Common Interface
- TM-5600 CI USB Super+ — with Common Interface

New Range of Sensitive LNBs

'The best LNB we have ever tested'* (Super High Gain Range)

'TM-1's are very high performance LNBs'*

Models:



Gold Plated Connector
Resistant to environmental conditions

The Best a Dish can get!

Tele-Satellite Magazine said:

The Super High Gain Range 'is an absolute top performer and probably the best LNB we have ever tested'*

The Blue Super Range 'defeated our reference device in almost every point of the Ku-band!..our reference LNB was no match for it!'*

All LNB Types/Outputs Available. Contact your Local Dealer for further information.

*Quoted from Tele-Satellite Magazine Test Report 10-11 2009

Technomate Europe
Zi De Vunt 4, 3220 Holsbeek, Belgium
Tel: +32(0)16/40.80.47
www.technomate.com

FROM A DIFFERENT PERSPECTIVE

OPENSAT



OPENSAT 9700/9900 HDPVR

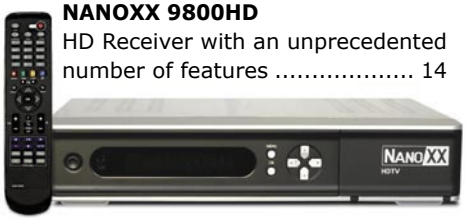
- 1xSmartcard reader • 2xCI slot • Fully compliant with MPEG-4 HD/H.264 (DVB-S/SVB-S2)
- Video resolution 576i,p/720p/1080i • Various video output (HDMI/YPbPr/Scart/CVBS)
- Multimedia functions (MP3/JPG/DivX play support) • VFD display
- PVR ready through USB 2.0 interface • RJ-45 Ethernet interface (9900HDPVR model)
- Blind Scan/Fast Scan/Unicable support • Background recording&playback while recording function

ABC BIZNIS

ABC BIZNIS s.r.o. Krušovská 4646, 955 01 Topoľčany, Slovakia, Tel.: +421 38 5313508
Fax: +421 38 5313508, E-mail: info@abcbiznis.sk, Web: www.abcbiznis.sk

more info: www.opensat.sk

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HD Receiver with an unprecedented number of features 14



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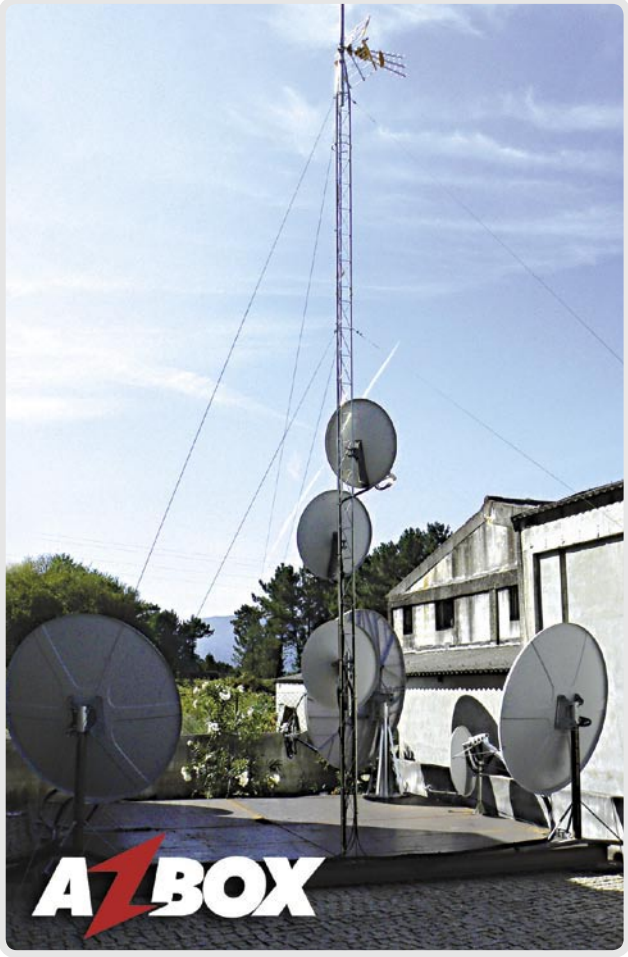
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Skyworth

OUTSTANDING **STB HARDWARE** MANUFACTURER FROM CHINA



HS11



DVB-S2 HD with ALI chipset (HOT-SELLING)

- Based on ALi single chip processor
- SD/HD 1080i(HDCP) MPEG-2/4(H.264 AVC), AAC & fully DVB-S/S2 compliant
- Conax 7 CA embedded / Common Interface
- 8 Timer Reservations for turning on/off and channel switching
- Picture browering from USB disk
- 8 Digit/Char 14 Segment VFD Display

T18



DVB-T SD MPEG4

- Based on ALi single chip processor
- SD MPEG-2/4 H.264, AAC & fully
- DVB-T compliant
- FTA / Conax 7 CAS Embedded
- PVR and Timeshift supported
- Picture Browser embedded
- Software upgrades through RS232 port and USB

S1K



DVB-S SD with USB PVR and LAN

- Built in Ali 3329E Single Chip processor
- Mpeg-2 digital@fully DVB-S compliant
- Dual scart+RCA+SPDIF+USB+LAN
- Single Turner PVR with time shifting function
- Real standby<1w(OPTIONAL)

S1B



DVB-S Low-cost

- Built in Ali3329C single chip processor
- MPEG-2 digital &fully DVB-S compliant
- Single scart +RCA+SPDIF
- Real standby<1 w(optional)
- 4000 channels TV and Radio Programmable

T26



DVB-T SD with USB PVR

- Based on Cheertek single chip processor
- MPEG-2 digital & fully DVB-T compliant
- Double scart+USB+SPDIF
- 256 colors on screen display
- Fully support to 7 days electronic program
- Software upgrades through RS232 port and USB,receiver to reveiver

T28



SCART STICKER with USB PVR

- Based on Cheertek single chip processor
- MPEG-2 digital & fully DVB-T compliant
- 256 colors on screen display
- Single cart +USB+PVR
- Fully support to 7 days electronic program
- Software upgrades through RS232 port and USB,receiver to reveiver

SHENZHEN SKYWORTH DIGITAL TECHNOLOGY CO., LTD.
www.skyworthdigital.com

ADD: UNIT A13-16/F, SKYWORTH BLDG., GAOXIN AVE.1.S., NANSHAN DISTRICT, SHENZHEN, CHINA
TEL: +86-755-26743854
FAX: +86-755-26010028
EMAIL: SALES@SKYWORTH.COM

DOEBIS

Kompetenz in Satellitentechnik



WE ARE DISTRIBUTOR OF TOPFIELD STRONG DIGITAL TV VANTAGE

JAEGER HUMAX emme esse ANTENNA SYSTEM SMW SWEDISH MICROWAVE AB emitor MICROELECTRONICS TECHNOLOGY INC.

ALPS GIBERTINI ALLVISION Inverto digital-labs SPAUN Stab

TOPFIELD

Topfield Media Solution



Features available at launch

- Fully compliant with DVB-S2.
  * High profile level 4.1 H.264/AVC streams @ 30fps
  * High or main profile level 3.1 H.264/AVC streams @ 60fps
  * HD MPEG2 4:2:0 streams @ 30fps
  * SD MPEG2 4:2:0 streams @ 60fps
- Supports DiSEqC 1.0, 1.1, 1.2 and USALS protocols for dish control.

Experience the future of digital receiver

- Stores up to 7,000 TV services and 3,000 radio services.
- Displays picture-in-picture with two HD services.
- Supports time-shift up to 5 hours at maximum.
- Records two services simultaneously while displaying another service.
- Able to record directly to both an external hard drive and a built-in hard drive (USB/eSATA).
- Playing recorded programmes at up to 64 times speed at maximum.
- Enables you to sort out any undesirable parts such as commercials during the programme.
- Supporting video files of DivX 3.11, 4.1 and 5.x.
- Displays JPEG image files.
- Featuring a double-player game 'BATTLE TANK'.
- Plays media contents of YouTube.
- Firmware updates available : over-the-air, with a USB memory stick, and from the Topfield's firmware server via Internet.

Features will be available by firmware updates

- Enables you to record the video from an external device such as a digital camera.
- Enables you to chat with other users via Internet.
- Enables you to enjoy the double-player game with other users via Internet.
- Enables you to transfer media files between the PVR and your computer with embeded web & FTP servers.
- Supports MediaHighway EPG
- Supports Sony tvtv EPG





PVR
Playing recorded programesat up to 64 times speed at maximum



GAME
Featuring a double-player game „Battle Tank"



UCC
Playing media contents of YouTube



DivX
Supporting video files of DivX 3.11, 4.1 and 5.x

TOPFIELD

TF 5050CI HDMI



- Fully DVB-S compliant
- 2 Common Interface
- 5000 TV & radio services programmable
- 256 colors On-Screen Display (OSD)
- Service & Favorite service list editable
- Electronic Program Guide (EPG) supported
- Exciting games embedded
- Firmware upgrade by Over-The-Air
- HDMI output



Measuring Instruments

emitor MEGALOOK

MEGALOOK helps professional users to do exact adjustments and maintenance of satellite dishes and of cable TV and terrestrial networks.



- Input frequency: 2-900 MHz and 920-2150 MHz
- 4.5" B/W Monitor for PAL/NTSC
- Lots of memory positions for spectrum pictures
- RS232 for PC-connection
- Built in, rechargeable battery.
- Only 7.5kg complete with carrying case

ALSO AVAILABLE:
Combolook, Digital Satlook NIT
Satlook Micro +, Satlook Mark IV

DIGIAIR pro

The meter to use for easy Digital terrestrial installations. Very sensitive, easy to maximize weak and strong signals.

- Handy spectrum-analyzer for frequency 45-862MHz
- Presents full range and expanded spectrum
- Ready for Mpeg2 and Mpeg4 signals
- Signal level readout in dBuV, BER
- Digital-signals present BER and S/N-ratio
- High resolution back-lighted LCD display
- Very high accuracy, ±1dB at 20°C



DIGISAT PRO ACCU

Measuring instrument for dish-properties. Check two LNBs at the same time. With DiSEqC tester.



AISO AVAILABLE:
- Digisat
- Digisat+
- Digisat Pro
- Digisat Multi

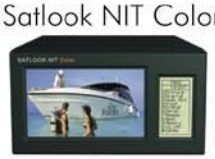
Satlook Micro HD

Now with DVB-S2 support!



- Measure DVB-S and DVB-S2 signals
- Spectrum-analyzer with zoom function
- EasyFind satellite identification for faster installations
- Super bright 3" LCD display
- Very sensitive, easy to maximize weak and strong signals
- Digital BER, QPSK (DVB-S), 8PSK (DVB-S2) and S/N-ratio
- Readout NIT -gives Satellite ID and TV/Radio-channel info
- X-pol. function for optimize LNB skew
- DiSEqC according to level 1.0, 1.1 and 1.2
- LNB voltage 13/18V, 22KHz tone switch
- Stores up to 99 memory positions
- RS232 for PC-connection (up/download)
- Built in, rechargeable battery

Satlook NIT Color



- DVB satellite-receiver 920-2150MHz
- Spectrum-analyzer with expanded spectrum
- 5" 16:9 LCD color display
- DVB-S (Free to Air) and Analog TV-picture
- Digital BER, QPSK and S/N-ratio
- DiSEqC according to level 1.0, 1.1 and 1.2
- KU- and C-band (normal/inverted video)

TOPFIELD

TF 6500T HDMI



DVB-T Receiver

- HDMI outputport, 576p, 720p, 1080i
- Fully DVB-T compliant
- 2000 service TV & Radio programmable

TF 6000 FE
Digital satellite Receiver

- MPEG-2 Digital and fully DVB compliant
- DiSEqC 1.0, 1.1, 1.2 and USALS (DiSEqC 1.3)
- 5000 services (TV and Radio) programmable

PCMCIA-Modules



- CONAX
- IRDETO
- VIACCESS
- ASTON / SECA
- CRYPTOWORKS
- CRYPTOWORKS (Arena)

- ALPHACRYPT Light
- ALPHACRYPT Classic
- ALPHACRYPT TC
- VIACCESS MPEG 2+4
- CONAX MPEG 2+4

STRONG DIGITAL TV

NEW

SRT 6205 - PVR Ready



USB recording capability

- Digital Satellite Receiver
- UHF Modulator to connect the receiver to TV
- Display showing channel number
- 2 Common Interface slots
- USB port: for playing music files and viewing photos, play back of TV programmes recorded by the receiver

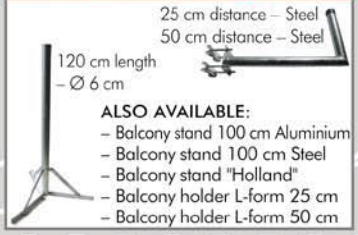
SRT 5246 Hybrid



Satellite + Terrestrial FTA

- For all digital Free-To-Air TV and Radio programmes via terrestrial antenna and satellite
- Audio- and Video in DVD quality
- Mosaic function: 4 or 9 TV channels in overview

Balcony mounting parts



ALSO AVAILABLE:
- Balcony stand 100 cm Aluminium
- Balcony stand 100 cm Steel
- Balcony stand "Holland"
- Balcony holder L-form 25 cm
- Balcony holder L-form 50 cm

DOEBIS GmbH & Co. KG

Dr.-Günter-Henle-Str.4
D-56271 Mündersbach

Fon: +49-(0)26 80 98 79-0
Fax: +49-(0)26 80 98 79-19

Email: info@doebis.de
Web: www.doebis.de

DOEBIS

expertise in satellite technology

Your competent partner for over 22 years



HDTV Receiver Selection

VANTAGE HD 8000 S — NEW



DVB-S HDTV Twin PVR

- Equipped with two DVB-S2 tuner
- Ethernet Port(Just HD7100 Series)
- Fully DVB-S / DVB-S2 (H.264) HD compliant
- USB 2.0 supported
- HDMI
- 2 CI and 2 Smart card Reader

TOPFIELD TF-7700 HD PVR



HDTV digital satellite Receiver with personal video recorder

- Fully DVB-S / DVB-S2 (H.264) HD compliant
- With 2 tuners
- Time shift supported
- USB memory supported

TOPFIELD TF-7700 HSCI / TF-7700 HCCI



HDTV for satellite and cable reception

- Supports MPEG-2, MPEG-4, H.264 and fully DVB compliant
- 2 Common Interfaces
- USB 2.0 supported for fast PC interface
- VFD Display for service information

Multiswitches/ DiSEqC-Switches

- SPAUN
- DTRON
- JAEGER
- JOHANSSON
- MAXIMUM
- BEST



From 2 in/1 out
up to 17 in/36 out

S2 SPAUN™ Full range

Multifocus Dish

emme esse ANTENNA SYSTEM — Clarkalign

Professional multisattelite system



- Suitable for M-ML dishes ø 85/100/115cm
- Mount with Skew adjustment of the dish for a perfect alignment of the received satellites
- Multi-feed-holder designed for an easy pointing

An innovate system to reiceive the signal from various satellites at the same time, using one fixed mount, high gain, offset dish. When there is a big difference between longitude of the receiving dish and that of the transmitting satellite, the pointing of the dish leads to another "disalignment" between the antenna axis and the Clarke belt. This system, by the rotation of the parallel dish, allows axis realignment, assuring a stronger signal.



Optical fibre LNB

INVACOM — Innovation in Communications

Fibre LNB



with optical fiber connection

The Fibre Optic LNB can feed the whole Ku-band to up to 32 end-points.

AVAILABLE ACCESSORIES:



Optical 2, 4 or 8 way MDU can imitate a twin, quad or quattro LNB, and you can have up to 32 MDUs from one Fibre Optic LNB



1x2, 1x4 or 1x8 optical fibre coupler



Optical cable from 1,0 meter up to 200 meters

Full LNB range INVACOM available as:
SNH-031, TWH-031, QTH-031, QDH-031, SNF-031, TWF-031, QTF-031 and QDF-031

LNBs

- MTI
- BEST
- INVACOM
- ALPS
- INVERTO
- MAXIMUM
- TITANIUM, etc.



- **Single Universal**
- **Twin Universal**
- **Quattro Universal**
- **Quad Universal**
- **Octo LNB**
- **Monoblock Single Universal**
- **Monoblock Twin Universal**
- **Monoblock Quad**
- **C Band**
- **Circular**

and many more

Inverto



- **Red Extended - 40mm, 0,3dB**
- **Black Premium - 40mm, 0,2dB**
- **Black Ultra - 40mm, 0,2dB**
- **Black Multiconnect - 23mm, 0,2dB**

All available as:

- Single Universal
- Twin Universal
- Quattro Universal
- Quad Universal



Full LNB range INVERTO available from stock

Parts

Multifeedholder for 2, 3, or 4 LNB



Wallmounts

15 cm distance – Aluminium
25 cm distance – Aluminium
35 cm distance – Aluminium
45 cm distance – Aluminium
55 cm distance – Aluminium
35 cm distance – Steel
45 cm distance – Steel
50 cm distance – Steel
70 cm distance – Steel





F-Connector – 7 mm
F-Connector – 7 mm waterresistant
F-Connector – 4 mm and more

Remotesystems

AV-Linker – Videosender for remote control
Remote Blaster
Zapline 2 and more

BIGLink





Koaxialcable

High Qualitiy coax cable
Minicable Coax
Mini-Twincable Coax
> 100 dB / > 110 dB

Motors

Aktuatoren/ Actuators

Mini Actuators – 6", 8", 10", 12"
Regular Actuators – 12", 18", 24"
Heavy Actuators – 24", 36"





H-H Mounts

SG 99 / SG 99 II – up to 1,00 m
SG 107 – up to 1,10 m
SG 2100 A DiSEqC 1.2 – up to 1,00 m
Stab HH100 DiSEqC 1.2 – up to 1,00 m
Stab HH120 DiSEqC 1.2 – up to 1,20 m

Dishes

GIBERTINI — TRIAX — emme esse MULTIMEDIA SYSTEM



40 cm – White
70 cm – White, Black, Red
90 cm – White, Black, Red
100 cm – White, Black, Red
120 cm – White
130 cm – White, Black
160 cm – White

Big Dishes directly from our warehouse!

IRTE	SDI	1,50 m
	SDI	1,80 m
	Irte	2,00 m
	Irte	2,40 m

Flat-Dishes

SELFSAT H10D / H10D2



- Works on all Ku-band Satellites
- Cross polarization improved
- Ideal for High Definition (HD) reception

MAXIMUM Flat-1



- Receives alle programs broadcasted by european satellites
- 2 LNB (twin) output for 2 set-top-boxes plugged
- 60/70 cm equivalency

Unicable solution

Inverto digital-labs

IDLP UST110-CUO10-8PP

Unicable-Standard one cable solution.
Cascadable multiswitch for up to 16 users.

UNICABLE TECHNOLOGY



Türkçe konusan personele sahibiz ! Мы говорим и даём консультации на русском языке!

More products and informations you`ll find on our website www.doebis.de



What Causes Juddering of H-H Dish Motors?

Heinz Koppitz

A motorised dish can quickly turn from blessing to nuisance if the antenna rotates too slowly or starts to judder when large angles are covered. When worse comes to worst the motor might even get stuck, causing the receiver to freeze as a consequence. What's the reason for this and is it a defect of the motor?

Actually, the motor is not to blame. Dish motors of major brands are generally state-of-the-art and sport the DiSEqC 1.2 protocol, meaning they can be controlled with all corresponding DiSEqC commands sent by receivers. They also accept all Goto X commands (DiSEqC 1.3 or USALS) which are used to precisely move the dish to any available satellite position.

This means we need to look elsewhere to identify the problem, which mostly lies in the supply voltage provided by the receiver to the LNB. The same power supply is also used by the dish motor and two devices drawing power from the same supply may cause insufficiencies. We have to bear in mind that this power supply was implemented in receivers long before there was even any talk of DiSEqC-based dish motors and it was never designed for any additional current consumers.

Case 1 – The dish motor only moves slowly at times.

If your dish motor sometimes moves too slowly conventional switching technology is the culprit. For reasons of compatibility switching the LNB from horizontal to vertical reception still takes place with changing the supply voltage from 18 V to 14 V. Reduced voltage automatically results in reduced motor movement.

Workaround: There's not much you can do to achieve consistent movement speeds. Some receivers increase voltage to 18 V while the motor runs and switch back to 14 V (if vertical signals need to be received) when the final position is reached. Usually there is no indication of this on the receiver itself and in most cases it is not even mentioned in the technical specifications. What would be an ideal solution is LNBs which accept DiSEqC commands and can be switched with simple DiSEqC requests generated by the receiver. Unfortunately, such LNBs do not – yet – exist.

Case 2 – The dish motor does not move continuously and stops in between.

If your dish motor judders this is a clear indication of receiver overload. Many receivers have a maximum current output of 500 mA, which is on the low side for a motorised dish system. A single LNB alone requires some 150 mA and if you add a motor's starting current of approximately 320 mA you can see that there isn't much leeway left. If the starting current is even higher due to a large and heavy dish or some obstacle in the antenna's way the receiver's current limiter activates and stops the flow of current, resulting in a juddering dish movement.

Workaround: A smaller and therefore lighter antenna often does the trick. In some cases, however, only a new receiver with a current output of more than 500 mA will help alleviate this problem. On most receivers the maximum output is indicated on the back panel next to the coax socket.

Case 3 – The receiver freezes when it is switched on and the dish motor never starts moving.

Having installed a motorised dish only to find out that the receiver freezes and switches off while booting is everybody's nightmare. This happens with receivers which not only have a current output of less than 500 mA, but which also react too sensitively whenever current peaks occur. During the booting process the dish motor also activates right away and consumes a short but powerful current pulse which causes these receivers to abort booting.

Workaround: The only thing that really makes sense is exchanging your receiver for another model.

If you want to avoid having to buy a new receiver you may also hook up the DiSEqC control device of your motor's manufacturer to the antenna line. While this gadget is originally designed for DiSEqC 1.0 receivers unable to create commands for the motor, it does come with a line amplifier that makes sure sufficient current is available at all times.

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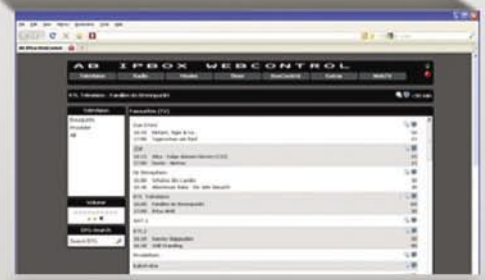
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Nanoxx 9800HD

Sharp, Sharper, Nanoxx

Sharp, Sharper, Nanoxx! This advertising slogan pops up on German manufacturer Nanoxx's website and with good reason as our tests will show. But one thing at a time. When Nanoxx asked us a few weeks ago to take a closer look at their new 9800HD, naturally we said yes. We've already tested a variety of Nanoxx receivers and were impressed each time.

We were quite excited when the delivery truck dropped off the package with the receiver at our test center. The 9800HD managed to earn its first plus points while we were unpacking it; as has been typical with Nanoxx, they stuck with an elegant and above all slim design.

At just 30x6.3x22cm in size, it easily fits on any TV stand or in any living room cabinet. Its discreet silver/black color combination is inconspicuously elegant and it has an easy to read blue colored alphanumeric display.

The front panel comes with six buttons used to operate the receiver in lieu of the remote control plus a seventh Standby button that is illuminated in blue while the receiver is in use. Two CI slots capable of working with all the popular modules, such as Irdeto, Nagravision, Cryptoworks or Viaccess along with a card reader for Conax, X-Crypt, DG-Crypt, Firecrypt and Crypton can all be found behind a flap on the right side of the front panel.

When you take a look at the rear panel and all of the connectors on the new Nanoxx receiver, you would have to ask yourself, "did they forget anything?" If you look closely, you'll see that every possible interface is available and usable.

Of course the most important of these would be the two satellite IF inputs for DVB-S and DVB-S2 that also sport looped-through outputs. The 9800HD can be connected to a TV or projection system using the HDMI interface, the three RCA jacks for YUV, an S-Video jack, a CVBS jack as well as two Scart connectors. Exceptional audio is supplied by optical and coaxial S/PDIF outputs.

Communicating with other devices can be handled via





Channel list with numerous sorting capabilities |

HDTV USB Universal Serial Bus Personal Video Recorder PVR





the two USB jacks (Type A and Type B for linking to an external hard drive or a PC), an e-SATA interface as well as an Ethernet interface.

There's even a good old RS-232 interface available that can be used to upload/download channel lists. It's all topped off with a main power switch, something that you unfortunately don't always find on other receiver brands.

The included remote control is just as elegant and sits nicely in your hands. The buttons are ideally labeled and after only a short time getting to know the remote you'd be able to operate every function blindfolded. All of the buttons are easy to reach and easy to depress.

The detailed, fully-illustrated user manual printed in English and German will answer any questions you might have regarding the operation of this new Nanoxx receiver. The manufacturer gets a nice pat on the back for this effort.

Everyday Use

After the receiver has been connected to the satellite antenna system and the TV and it has been turned on for the first time, the Installation Assistant immediately appears.

It is a very helpful tool when setting up the receiver for the first time. For the OSD (on-screen display) language, 25 choices are available including English, German, Turkish, Russian, French, Arabic, Italian, Portuguese, Spanish, Danish, Dutch, Polish, Czech, Swedish, Norwegian, Finnish, Greek, Serbian, Hungarian, Croatian, Albanian and Farsi. All in all, a very international receiver.

The next step involves setting up the local time zone and whether daylight savings time should be turned on or off. Once this is taken care of, the receiver is then matched up with the existing antenna system. 153 European, Asian and American C and Ku-band satellites have been preprogrammed into the Nanoxx all with relatively up-to-date transponder data.

The Nanoxx concept sees to it that the satellites are set up and activated during the initial settings phase so that later on during a scan only those satellites that can actually be received will be available. The user simply checks off all of the satellites that his system is set up for.

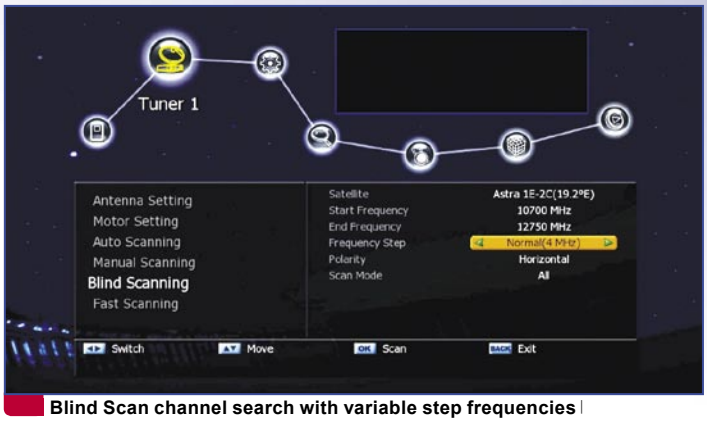
Each satellite has its own configuration menu in which numerous parameters can be set up. In addition to a variety of useable local oscillator frequency (LOF) values, there are also LNB settings



Nanoxx 9800HD's main menu



EPG multiple channel view



Blind Scan channel search with variable step frequencies



EPG single channel view

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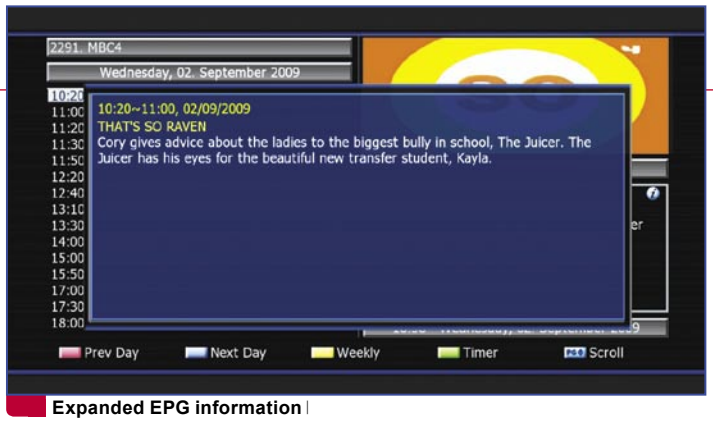
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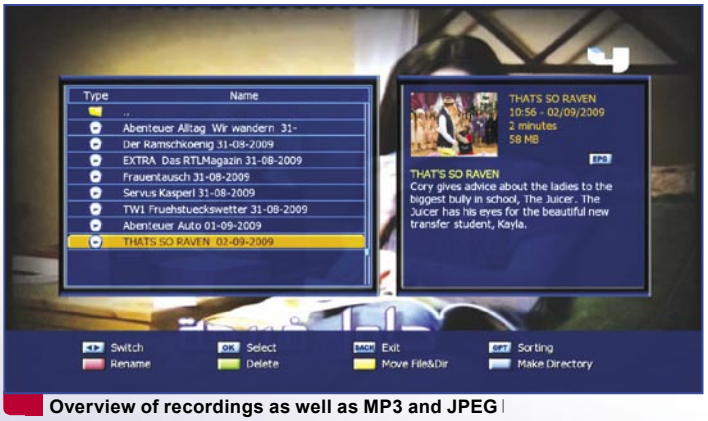




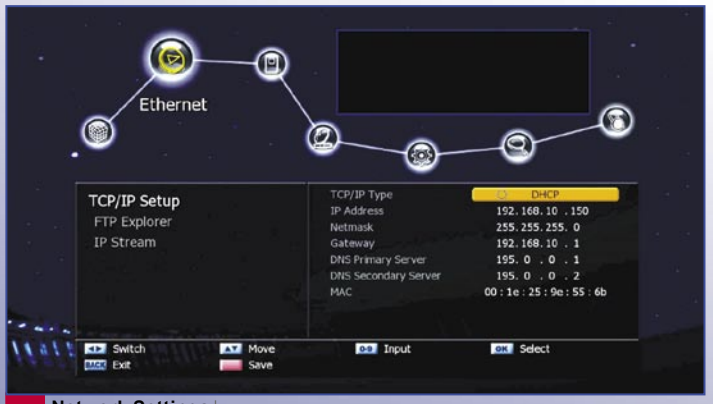
Expanded EPG information



Channel Info Bar



Overview of recordings as well as MP3 and JPEG



Network Settings



Playback of a recording

available based on the SCR standard.

Manual LOF entry lets you set up other LNB's such as those for the S-band. Naturally the Nanoxx 9800HD also supports all of the DiSEqC protocols: 1.0 for multifeed antennas up to four satellites, 1.1 for the expanded version for use with up to 16 LNBs, as well as 1.2 and 1.3 (USALS) for motor control and naturally also the SCR standard (Unicable).

Before the installation assistant permits a channel scan to be started, the final set up step involves deciding how incoming signals should be routed to the two tuners. This could be separate cables with identical switches, separate cables with different types of switches or a loop through connection between Tuner 1 and Tuner 2.

Don't worry, at first it seems complicated but the proper choice almost happens by itself; Nanoxx blends in connection diagrams that makes it much easier for the user to make the right choice. For those who don't have much patience, Nanoxx offers instead of a channel scan a preloaded channel list for Germany, Austria and Switzerland.

It not only carries the advantage that all unwanted channels have already been done away with and that all of the remaining channels have been sorted, it also saves viewers in these countries a lot of time since in the end all they want to do is get to watching TV as quickly as possible.

The receiver stores the selected options thus completing the initial installation. Before the owner of his newly purchased receiver actually gets down to using it, there are a few recommended additional settings that can be handled via the main menu.

By pushing the menu button on the remote control, the Main Menu appears with the current TV image minimized to a small window in the upper right corner of the screen.

It was designed especially for high resolution TVs and is thus sharp and easy to read. It is divided into seven submenus (Installation, System Settings, Channel Settings, Child Protection, Games, Multimedia and Conditional Access.

The installation menu will only be needed again when looking for new channels or when new satellites need to be added; everything else was already taken care of in the initial installation.

Here you will also find a variety of other options that, for example, would allow you to reset the receiver to factory settings plus among other things load one of the preprogrammed channel lists.

In addition to a variety of language choices (subtitle, teletext, audio language, etc.), it is also possible to change the video output signal. The 9800HD supports PAL and NTSC in 1080i, 720p and 576p resolutions. There's also an automatic mode that matches the resolution to each transmission resulting in optimal picture quality.

Naturally, the receiver can also automatically recognize and take 4:3 signals and either display them with black bars on either side of the image on modern 16:9 TVs or zoom in on the image.

Also worth mentioning is the Video switching option. This option essentially keeps the current channel image on the screen until the new channel is ready to be displayed. This has the advantage of making it appear that the already short channel

switching time of about one second is even shorter. It's nothing more than an optical magic trick, but it looks really good!

Even the on-screen display can be adjusted a variety of ways; for example, level of transparency and display time. Another useful feature is the Lip-sync option. In cases where the video and audio of a signal are not quite 100% synchronized, this feature lets you match them together.

As practical as the prepared channel list is, we here at TELE-satellite are especially interested in the Channel Scan menu – that was the next step for us.

The Nanoxx 9800HD comes with four different modes. The first is the automatic scan. In this mode the user only needs to select a desired satellite and choose between ALL, NIT, Fast, Free, TV or Radio. These choices can be set up individually for as many satellites as needed.

Owners of DiSEqC motorized systems can thus select all receivable satellites for an automatic scan and sit and enjoy a DVD while the receiver takes care of the work.

Through all of the different search modes it's also possible to scan a satellite like ASTRA 28.2 east with all of its encrypted channels only for those channels freely receivable, while scanning ASTRA 19.2 east for all channels and HOTBIRD 13 east only for radio channels. It doesn't get any more user-friendly than that!

Manual scan mode lets you search on one transponder. The well thought out and logical operational concept of the Nanoxx receiver can only be appreciated when you see it for yourself.

For all you DXers out there we want to point out that of course a manual scan with PID entry is also possible.

And while we're on the DXer subject, they would be very happy with the third scanning mode, namely Blind Scan.

We've all seen this problem before: new channels are always being added, old ones removed and symbolrates are constantly changing. If you want to keep your channel list as current as possible, you either have to refer to the up-to-date channel lists from www.SatcoDX.com or you simply use the Blind Scan feature of the 9800HD.

This feature lets you scan a user-defined frequency range for all active transponders, identifies the symbolrate and FEC and reads all the available TV and radio channels into the receiver. Since this type of scan can take much longer than a simple scan of a preprogrammed transponder list, the Blind Scan on the one hand can be limited to a single polarization while on the other the scanning steps can be adjusted between 1 and 4 MHz in an effort to speed up the overall scan.

If you want to use Blind Scan to search a DTH position such as HOTBIRD at 13 east, 4 MHz scanning steps would be sufficient. If you are searching for SCPC signals, then 1 or 2 MHz scanning steps are recommended.

In general, the larger the scanning steps, the faster the overall scan.

An automatic scan of HOTBIRD at 13 east needed 7 minutes and 33 seconds to be completed and managed to find 1232 TV and 421 radio channels. A Blind Scan required 17 minutes and 52 seconds during which 1344 TV and 455 radio channels were found.

We also wanted to test the capabilities of the Nanoxx 9800HD tuner and were pleasantly surprised with the results: SCPC reception was possible starting at 2.0 Ms/sec and very weak signals such as those on NILESAT at 7 west and ASTRA 2D at 28.2 east were also easily handled by the receiver; it was able to present an interference-free picture with C/N values starting at 4.5 dB.

Once all the basic settings have been taken care of, the 10,000 possible channels that can be stored need to be freed up of any unnecessary or unwanted entries.

This is handled by the Channel Settings menu. From here channels can be deleted, renamed, moved or transferred to one of the Favorites lists.

It is also possible to delete a group of channels with the push of one button plus you can transfer channel data, system settings and timer entries to an external medium so that this data can be worked on using an Editor program on a PC.

Afterwards, this modified data can be uploaded back to the receiver via its USB interface.

After the channel list has been edited to your liking, a push of the Exit button takes you out of the main menu and the 9800HD switches to the first receivable channel.

After each channel change an informative Info bar appears that provides information on the current channel including language selection, teletext, encryption, subtitles, etc. as well as programming information on the current and upcoming programs. Even signal strength and signal quality is displayed in the form of bar graphs.

A push of the Info button displays an expanded EPG view of the current program as long as this data is made available by the provider.

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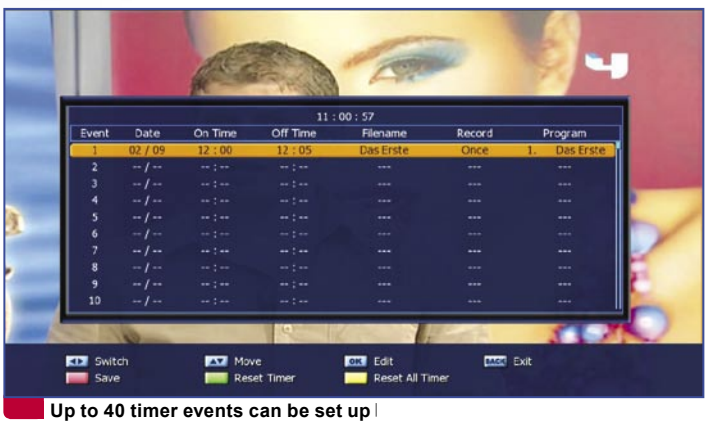
Record up to two channels at the same time



Storing channel list, timers and settings



Setting up a new timer event



Up to 40 timer events can be set up

A second push of the Info button displays detailed reception information on the current channel.

As is typical with almost every receiver on the market, and the Nanoxx box is no different, the channel list appears with a push of the OK button. It is very clearly laid out with HD and encrypted channels easily recognizable thanks to corresponding symbols.

There are also a number of sorting methods that in the end will make it very easy to find the channel that you want. You can sort alphabetically, by frequency, provider and HD or SD.

As we already mentioned, the channel switching times of the 9800HD are quite fast within the same transponder and also between HD and SD signals. During our tests we were impressed with the integrated upscaler. Its job is to convert SD signals in such a way that they can be shown on larger TVs with a sharp and high contrast picture in higher resolution.

If automatic resolution has not been activated, a dedicated button on the remote control switches between the various resolutions so that the best picture quality can be achieved.

The more channels that can be received, the more important it is to have a decent electronic programming guide (EPG) since in the end the user wants to maintain an overview and always be kept up to date on current programs.

To that end, the Nanoxx comes with two different EPG modes: a single channel view and a multi-channel view in table format. Which of these is more useful will depend on the user; both functioned perfectly in our tests. The data was correctly sorted and above all quickly displayed.

Timer entries can also be handled directly from the EPG as can recording settings. For example, you can dictate whether the recording should end up on an external USB or e-SATA hard drive and also in what subfolder it should be stored.

Up to 40 timer events can be set up and these can be one-time, daily or weekly recordings.

PVR

Nanoxx with its 9800HD has remained with their

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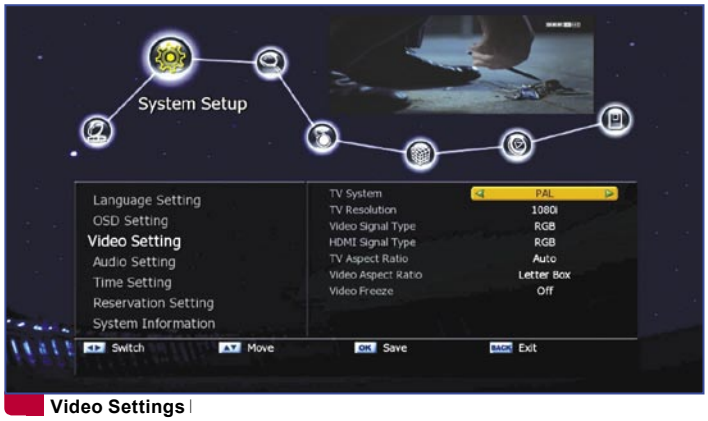
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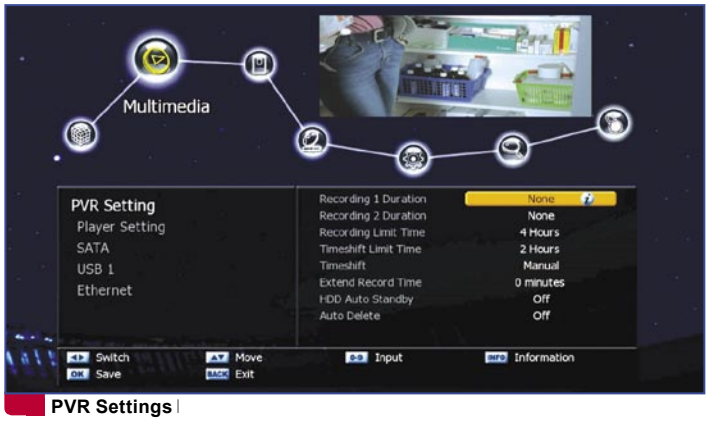
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Video Settings



SCPC reception via TURKSAT at 42 east



PVR Settings

external hard drive concept and for good reason.

Today's external hard drives are not nearly as expensive as they used to be, come with plenty of space and can be easily carried around from one place to another.

For our test we used a Freecom 2.5" hard drive. It comes with the advantage that it doesn't need an external power source; it receives its power through the USB interface.

The Nanoxx 9800HD can record up to two programs at the same time (SD and/or HD) on the hard drive while a third program is either watched live or played back from the same hard drive. Even hardcore couch potatoes will be satisfied with all the different possibilities.

Thanks to the integrated time shift function, a telephone call from your mother-in-law can no longer interfere with your evening TV watching mood: the program is simply paused and then restarted at the point where it was stopped at the end of the phone conversation without missing a thing.

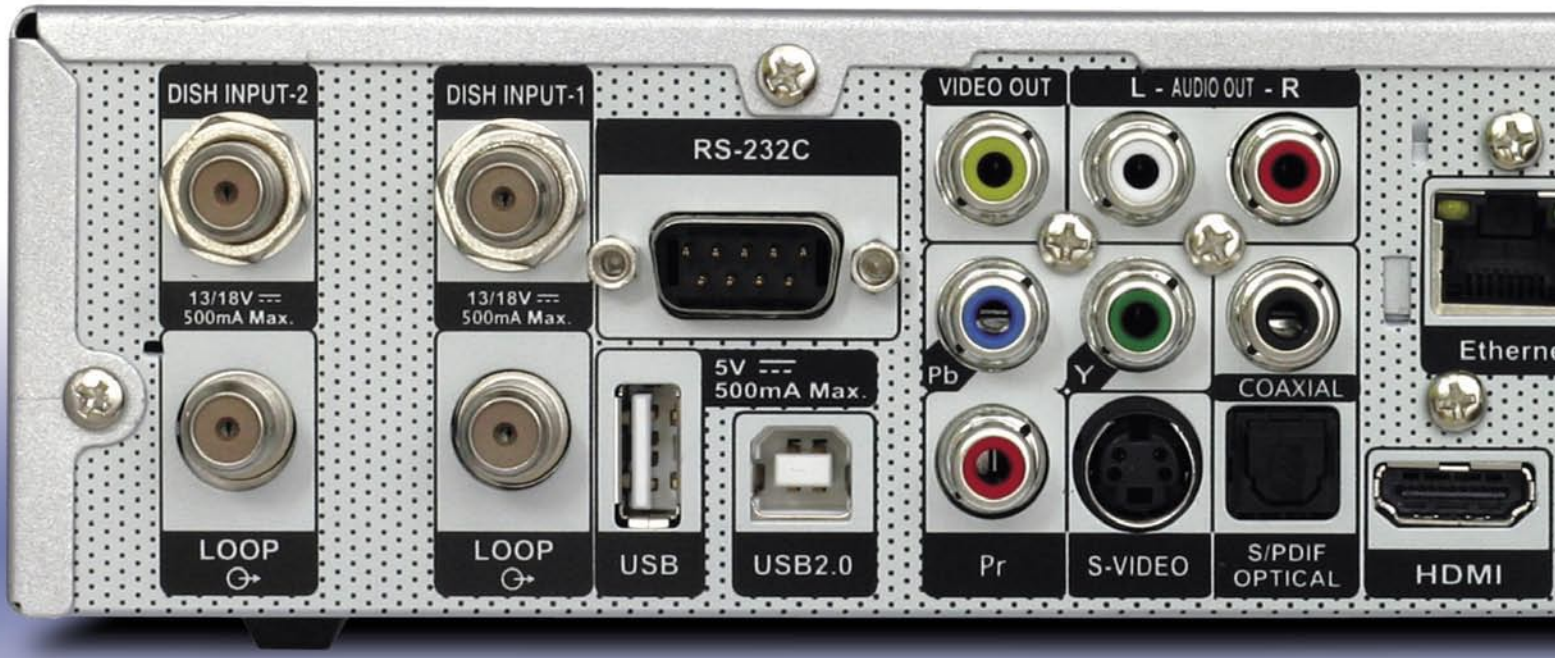
Numerous PVR functions performed correctly during our tests no matter how hard we tried to derail the receiver with multiple recordings, timers and time shifting. The receiver did whatever we asked it to and reliably recorded all of our selected programs.

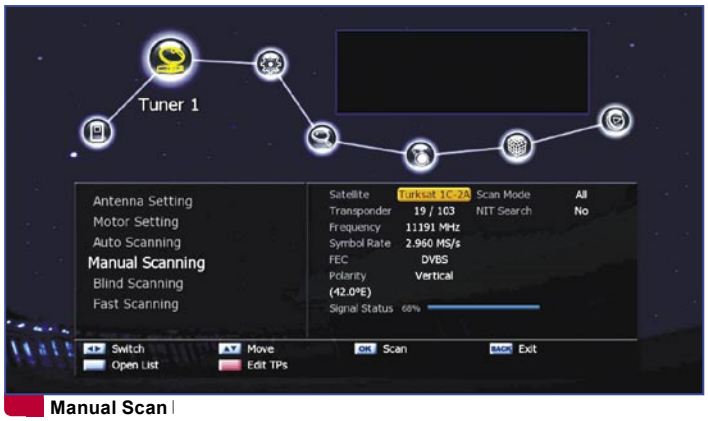
We all know that providers don't always follow their own broadcasting schedule so it's nice to know that the 9800HD can automatically extend the recording time of a program by a user-defined amount of time.

There's also a special version of Haenlein's video editing software from www.haenlein-software.com. This lets you edit both SD and HD recordings on your PC.

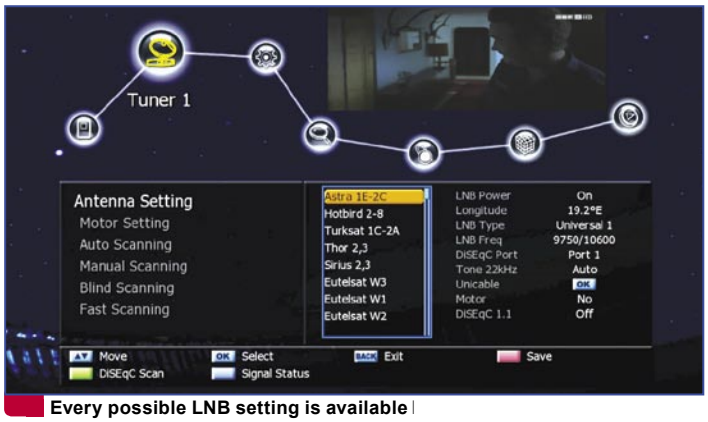
And let's not forget the media function. This is the control center for the playback of all the multimedia content on the hard drive; it too functioned perfectly during our tests. Similar to a data manager, it presents a clear overview of all the data.

To that end, the Nanoxx supports not only its own recordings, but AVI (XVID), JPEG photos and MP3 music. During playback there are a number of playback speeds available.

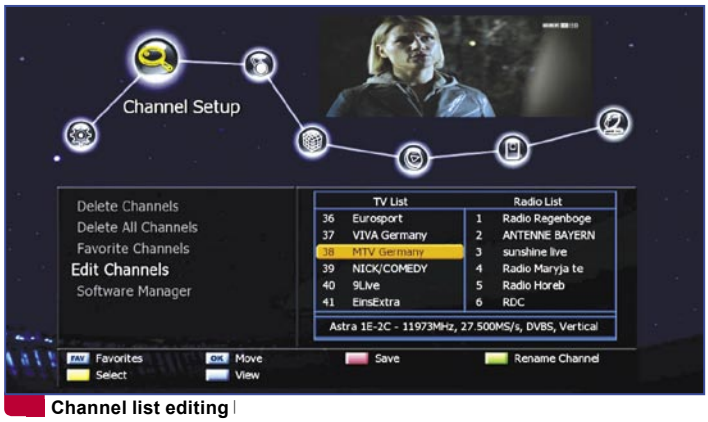




Manual Scan



Every possible LNB setting is available



Channel list editing

The receiver can also remember where a playback was stopped so that it can continue from the point it was stopped the next time playback is started. To utilize the PVR functions all you need is any external USB or e-SATA hard drive formatted in Microsoft FAT32.

Most hard drives are shipped from the factory in FAT32, otherwise the manufacturer offers a free formatting tool through their web site.

Network

Slowly but surely, more and more manufacturers are including Ethernet connections on their receivers, Nanoxx is no exception.

Thanks to the ability to link to a local network or the Internet, the possibilities are endless; receivers without a LAN connection can only dream of what it would be like.

The connection is set up very quickly; the 9800HD utilizes DHCP and can automatically detect all the necessary parameters directly from the router or DSL modem.

For more experienced users a manual configuration is also available. Once the receiver is connected to the home network, it becomes possible to access the hard drive connected to the 9800HD from the PC via FTP. This makes it easy to further process recordings on your PC.

The receiver itself profits from the Internet connection: a connection with the Nanoxx FTP server can be made directly from the receiver. There you will find current software as well as channel lists for Germany, Austria and Switzerland. And best of all: Nanoxx can expand this by offering more channel lists and other useful features that the user can upload to the receiver with the simple push of a button.

Software updates have never been this simple! The desired image data is marked and downloaded from the Internet directly to the receiver's menu with the push of the OK button.

The days of using USB sticks or null modem cables to link to a PC are over, even though the 9800HD still offers these methods.

Streaming

An especially interesting feature and typical Nanoxx is



the ability to stream recordings between two different devices on the same network. Who hasn't experienced this before: your laying comfortably in bed and want to finish watching the documentary you had recorded a few days ago in your living room.

With most receivers that meant you had to get up and go back to the living room to finish watching it. Not true with the Nanoxx!

It can create a link with the receiver in the living room, access then data directly from there and then playback the recording on the receiver in the bedroom. An absolutely excellent feature!

Additional Functions

To top it all off, the Nanoxx 9800HD comes with a variety of other practical features that we briefly want to touch on here: there's a PIP function (picture-in-picture) that lets you watch another channel during lengthy commercial breaks and also makes it easy to switch between these channels.

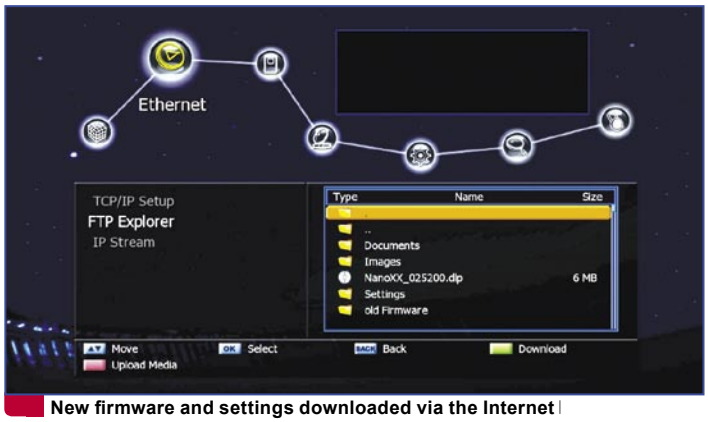
The Mosaic function displays the current program from 4 or 6 channels next to each other in a minimized format that gives you an overview of what's playing, for example, on your favorite channels.

And to guarantee that you'll never be bored, the manufacturer also included two video games that can help pass the time during commercials.

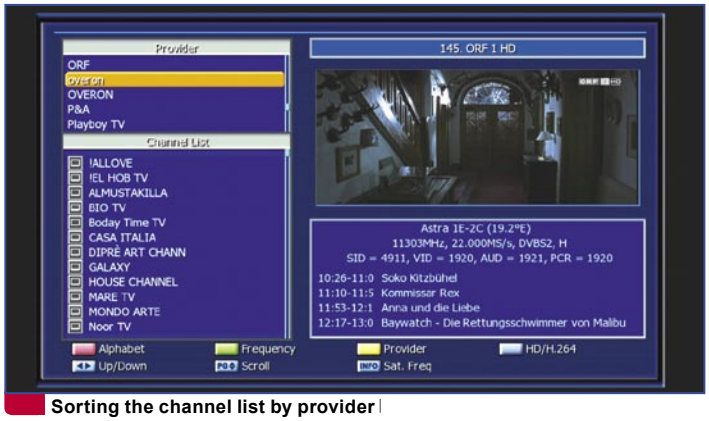
The Zoom function magnifies a highlighted portion of the video image and teletext pages can also be displayed.

PC Software

The user can download a variety of useful programs from the manufacturer's website www.nanoxx.info including a channel list editor and a media player that can present recordings directly from the receiver's hard drive on a PC.



New firmware and settings downloaded via the Internet



Sorting the channel list by provider

Expert Opinion



Thomas Haring
TELE-satellite
Test Center
Austria

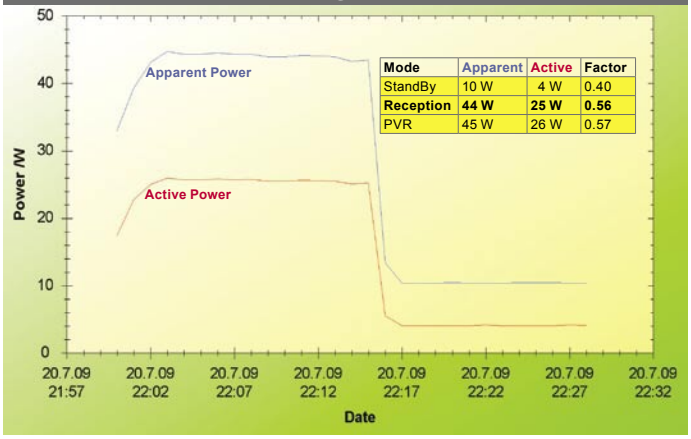
+

The Nanoxx 9800HD has reached new heights with its variety of functions, its simple operational concept and its many cute features. It is very easy to use and functioned perfectly in our tests. It's easy to see that Nanoxx took every detail into account during the design phase. Blind Scan, Network Streaming and other features such as Lip-Sync and a gentle transition when switching from one channel to another when channel surfing make the 9800HD an outstandingly equipped universal HD receiver.

-

None

ENERGY DIAGRAM



First 15 minutes: the first minute shows the start up of the receiver followed by 14 minutes of normal operation with channel switching, recording, playback, etc. The second 15 minutes: standby

TECHNICAL DATA

Manufacturer	Nanoxx Germany
Email	info@nanoxx.info
Internet	www.nanoxx.info
Model	9800HD
Function	Digital HDTV DVB-S2 receiver with various Multimedia Features
Channel Memory	10.000
SymbolRate	2-45 Ms/sec.
SCPC Compatible	yes (> 2000 Ms/s)
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
USALS	yes
Unicable	yes
HDMI Output	yes
Scart Connector	2
Audio/Video Outputs	6x RCA
Component Video Output	yes
S-Video Output	yes
UHF Modulator	no
0/12 Volt Connector	no
Digital Audio Output	yes
EPG	yes
C/Ku-Band compatible	yes
PVR-Function	yes
USB 2.0 Connector	yes
Ethernet	yes
E-SATA	yes
Dimensions	300x63x220mm
Weight	2.2kg

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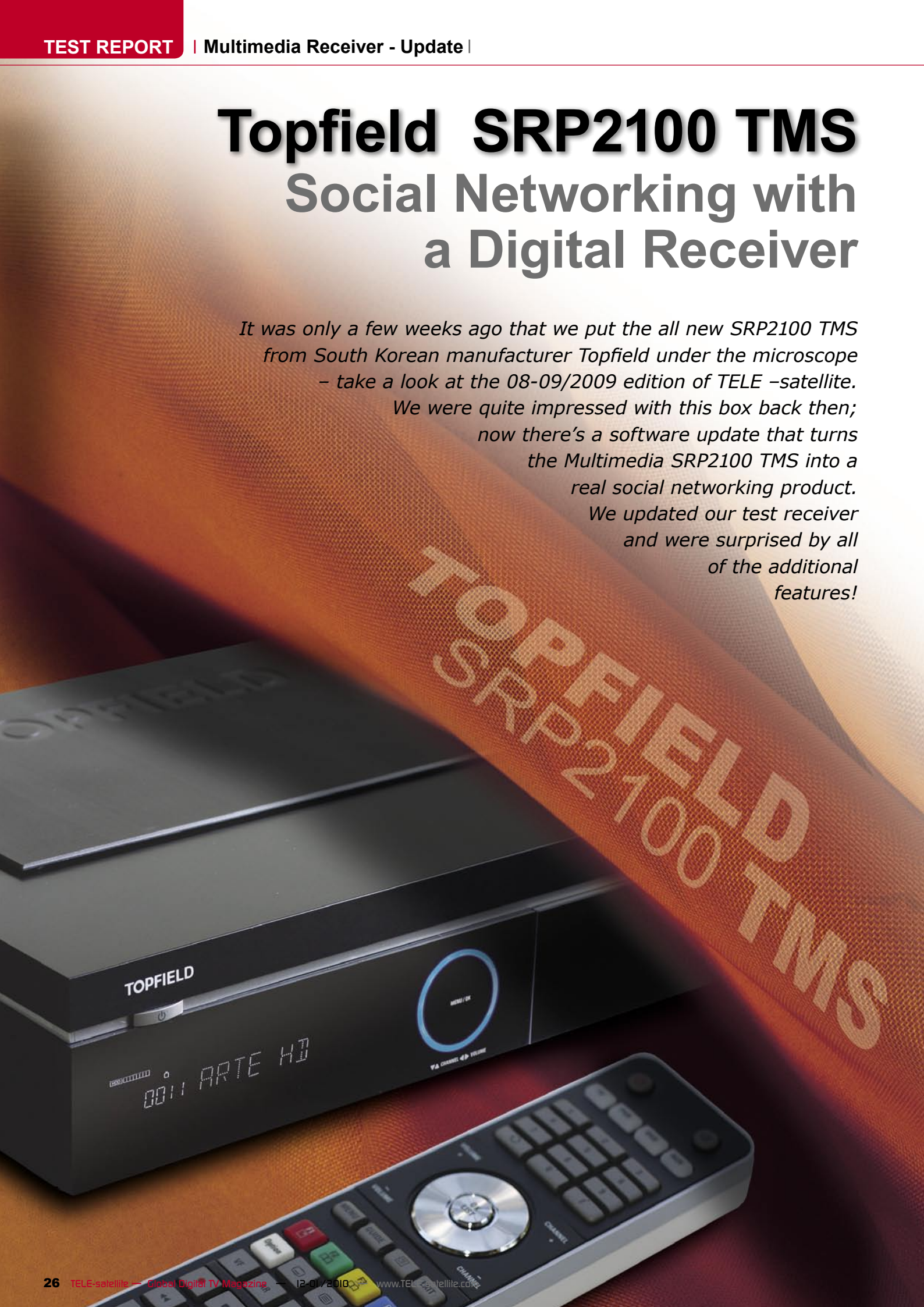
Phone: +44 (0) 1279 417005
Email: sales@horizonhge.com
Web: www.horizonhge.com

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Topfield SRP2100 TMS

Social Networking with a Digital Receiver

It was only a few weeks ago that we put the all new SRP2100 TMS from South Korean manufacturer Topfield under the microscope – take a look at the 08-09/2009 edition of TELE –satellite. We were quite impressed with this box back then; now there's a software update that turns the Multimedia SRP2100 TMS into a real social networking product. We updated our test receiver and were surprised by all of the additional features!



SPAUN Mini System

NEW

4 SAT-IF-Cascade in
cigarette pack format
· remote-fed
· flexibly applicable

SBK 4415 NF



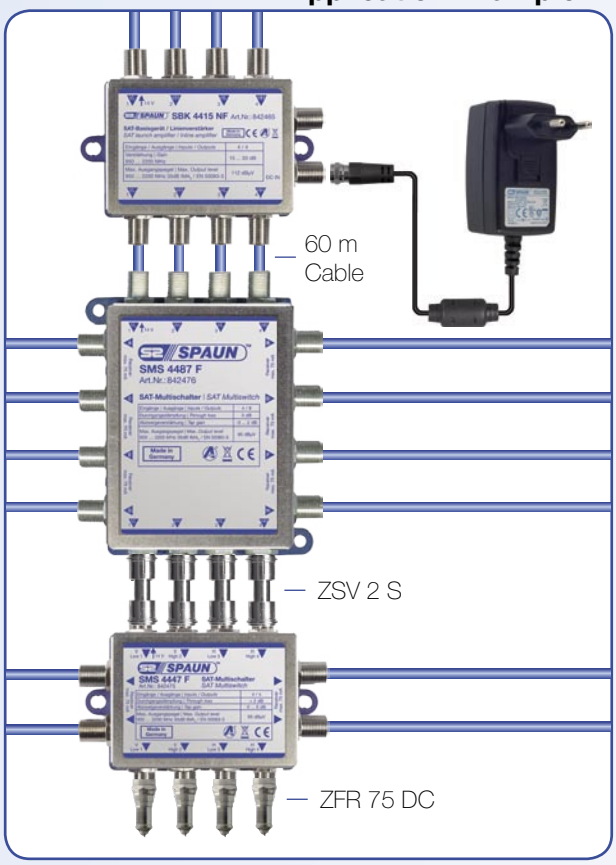
SMS 4447 F



SMS 4487 F



Application Example



SAT Launch Amplifier for 4 SAT-IF Signals

SBK 4415 NF

· to use with Quattro LNB
· to use if required as Inline Amplifier

Cascadable Multiswitches (also stand-alone) including wall fastening

SMS 4447 F

· for 4 subscribers

SMS 4447 / 8 F

· for 4 subscribers
· with 8 dB tap loss

SMS 4487 F

· for 8 subscribers

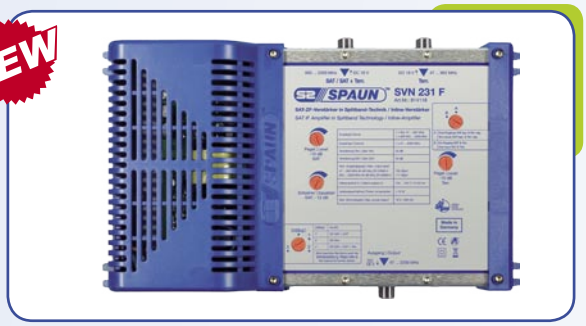
SMS 4487 / 8 F

· for 8 subscribers
· with 8 dB tap loss

SVN 231 F

SAT-IF Amplifier (mains-operated)

NEW



The SVN 231 F can be used either as SAT-IF Amplifier or as Inline Amplifier.

· for single cable systems
· Splitband technology
· Gain SAT = 30 dB
  Gain Terr. = 20 dB
· Level adjustment for SAT & Terr.
· Slope correction for SAT

SPAUN electronic GmbH & Co. KG
Byk-Gulden-Str. 22 · 78224 Singen · Tel.: +49 (0)7731 - 8673-0 · Fax: +49 (0)7731 - 8673-17
Email: contact@spaun.com · www.spaun.com

The Update Process

Software updates can be uploaded into the receiver in three different ways. The simplest and fastest way is to update via the Internet. The single push of a button is all that's needed for the receiver to check and see if new software happens to be available on the manufacturer's server, and if so, to download it and install it.

Since the receiver needs to be connected to the Internet for this to work, it is also possible to download an update manually and upload it via a USB stick. If you happen to live in Europe, there's also the ability to download an update via satellite. And along with this update, there's also an updated channel list with all of the important channels from ASTRA 19.2° east and HOTBIRD 13° east.

After a successful update, the receiver automatically restarts after which the manufacturer recommends performing a factory reset to make sure that all of the critical components are updated to the newest software version. In our case the update process was completed without any problems; our test receiver was now loaded with software version TF-BCPC 1.05.01.

Improvements

The first thing we noticed is that Topfield reworked all of the on-screen display (OSD) texts. While the English version of the OSD was always presented correctly, it was the localized languages in older software versions that had problems.

For example, some help texts or menu points were presented in English even though it was supposed to be a German OSD.

But these issues have been taken care of so that now the entire OSD menu is presented clearly, in a nicely organized manner and totally regionalized.

When it comes to network settings, Topfield integrated a profile system similar to what you'd find in a PC. The user can set up as many as five different network profiles that can then be accessed with the push of just one button. If, for example, you regularly take your receiver to your vacation house in the mountains, you don't have to change all the network settings manually every time you move the receiver between your home and the vacation house; instead you simply store two different profiles that are matched to each location and select the appropriate one.

Here we want to mention another improvement: namely the possibility to make the receiver compatible with the matching USB Dongle WLAN. Now it's easy to see why Topfield worked tirelessly to incorporate the profile function for the network connection.

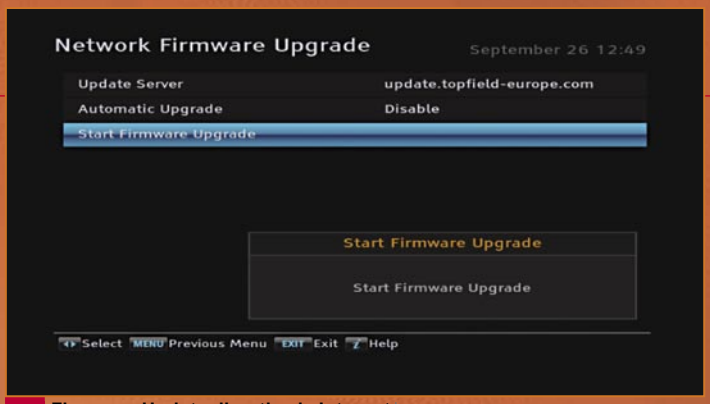
MP3 lovers will also approve of the facelift Topfield gave to its MP3 player that now comes with the ability to mark entire folders for play back; now you can enjoy your favorite music for hours at a time and without any interruptions.

A variety of small bugs were also fixed such as for example the lack of audio available from the digital audio output after a restart of the receiver and the lack of EPG information after surfing through a number of channels. In our tests, we no longer saw any of these problems in the new software version.

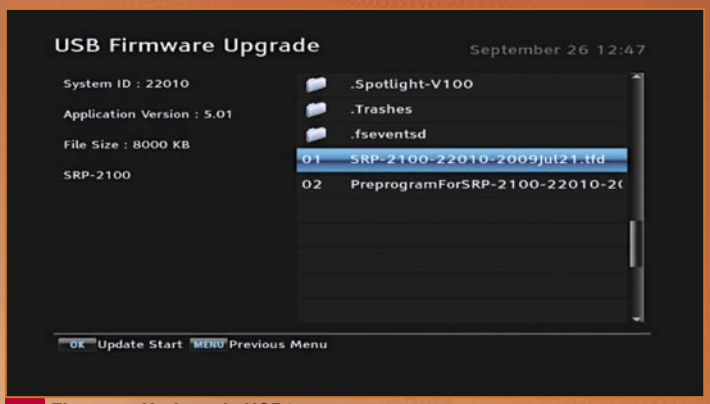
New Functions

In the course of examining these updates we were especially pleased that Topfield didn't spend the entire summer just working on fixing the software bugs in the SRP2100 TMS.

Instead, they added a



Firmware Update directly via Internet



Firmware Update via USB



The Update is complete - The Receiver restarts



The OSD is shown correctly and completely translated



The integrated media player supports among other things DiVX; subtitles can be viewed with the newest software

OptiScan

The *first* cost effective solution combining 'Optical Power' and Satellite 'IF' measurements



If you need to precisely align the new GIFibre**MDU** Optical LNB, recently launched by Global Invacom, you need the new Opti**Scan**. It supplies power to the LNB whilst providing a real-time visual spectrum for satellite identification.

Zoom in on a given transponder and all the information you require for positive alignment is clearly displayed 'Optical Power – BER – MER – Satellite Ident'.

Packed with functionality at an affordable price, the new Opti**Scan** not only out performs its rivals on every level in day to day dish alignment and signal measurement, it can also do it optically!

There are cheaper meters on the market, but when you drill right down into it, that's just what they are - ***cheap!***

- Can it Measure BER in either Pre or Post Viterbi on a fibre output?
- Can it give you a calibrated Optical Power measurement on a fibre output?
- Can it provide you with a detailed MER readout on a fibre output?
- Can it do this and much more, optically, as well as being the ultimate day to day satellite IF meter?

The Opti**Scan** can

global invacom
completing the picture

globalinvacom.com

number of one-of-a-kind features. The Topfield SRP2100 TMS is the first receiver to be provided with support for the micro blogging Twitter service.

Twitter

Many people are familiar with the little blue bird that all friends and relatives use from around the world and with just a few words manage to stay in touch with each other and take part in each other's lives.

Topfield is the first manufacturer that has taken this exciting new social networking service and incorporated it into a home multimedia device that now opens up new and thus far unheard of dimensions in a receiver.

You no longer have to get up from the couch and turn on the PC to see what your friends are doing at the moment; all you have to do, for example during a commercial break, is to use the remote control to start the Twitter service on the SRP2100 TMS.

The receiver displays all of the Tweets from your friends as well as numerous people that you are following or those that are following you. With the push of one button new Tweets can be started or other Tweets can be answered.

For the first time because of this application, it has really paid off that Topfield included a wireless keyboard with the SRP2100 TMS. In this way the user doesn't have to deal with the OSD keyboard and instead can update Twitter simply with the wireless keyboard.

We here at TELE-satellite find this to be an absolutely ideal feature and are certain that there will be many copycats out there.

It also shows how much of an advance roll Topfield plays when it comes to new ideas and technologies.

SHOUTcast Internet Radio

With the integration of the YouTube video platform, Topfield has given the SRP2100 TMS quite a boost to its potential starting sales. With the integration of the SHOUTcast Internet radio service, Topfield has added to this boost.

Thousands of radio stations from around the world are currently accessible through SHOUTcast and are only waiting for the opportunity to be heard through the new Topfield receiver. The integration of this streaming service into the receiver was handled so perfectly that no feature is missing that you would otherwise expect to see on a PC.

The radio stations are divided into 26 different categories; everyone should be able to find something that they like. There's also a very practical search function that lets you easily find specific content. Once you have found radio stations that you like from the unending selection available through SHOUTcast, they can be quickly moved into the Favorites lists so that they can be easily viewed and accessed with the push of a button. Listening to music via the Internet is fun again and free at the same time!!

Media Player

Last but not least, Topfield gave a slight improvement to their media player. Now a variety of subtitle formats can be displayed so that those who are hard-of-hearing may also enjoy exciting movies.

On top of that the transport stream format of older 5000 series Topfield models is now also supported so that recordings can simply be copied to the hard drive of the new receiver for playback. In this way, you won't lose any older recordings if you should upgrade to Topfield's latest model.

All in all, this update for the SRP2100 TMS has shown once again that Topfield definitely lives up to its slogan "Leader of Home Multimedia".

With the integration of the micro blogging service Twitter, Topfield has reached new heights and new possibilities that in the future will be part of all entertainment electronic devices.

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Available online starting from 27 November 2009



WLAN will soon be available



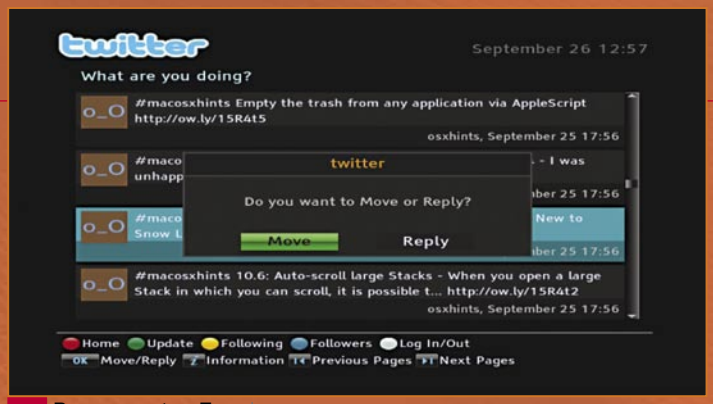
Playback of a SHOUTcast station



SHOUTcast search for country music



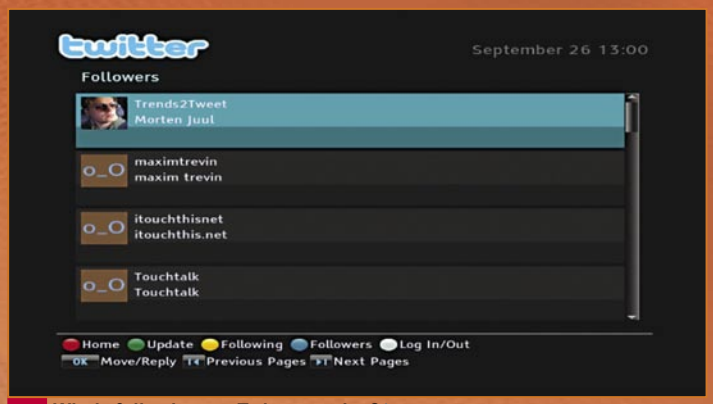
Results of a SHOUTcast search for country music



Responses to a Twee



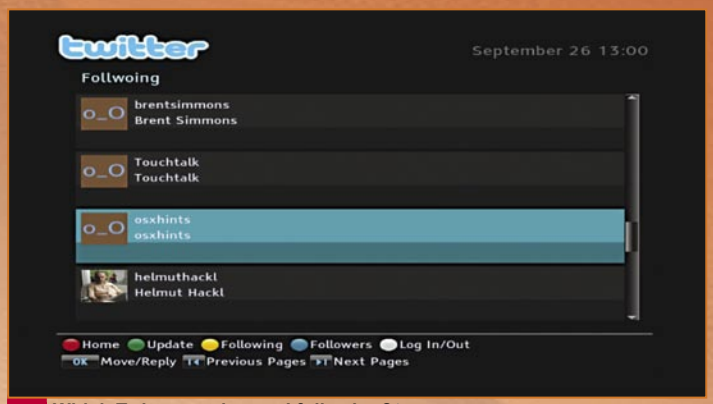
SHOUTcast Favorites



Who's following my Twitter entries?



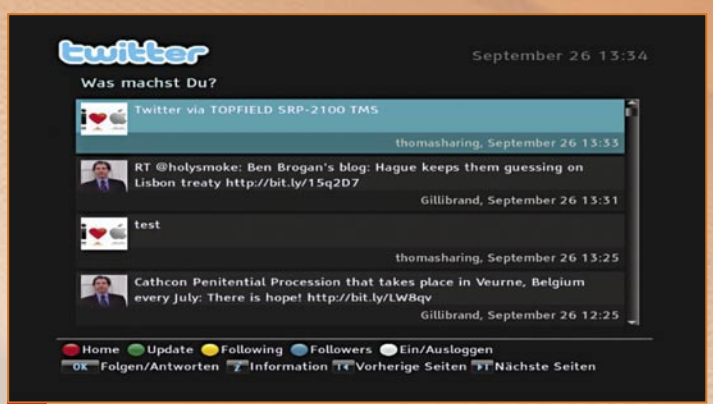
The Top SHOUTcast stations of the day



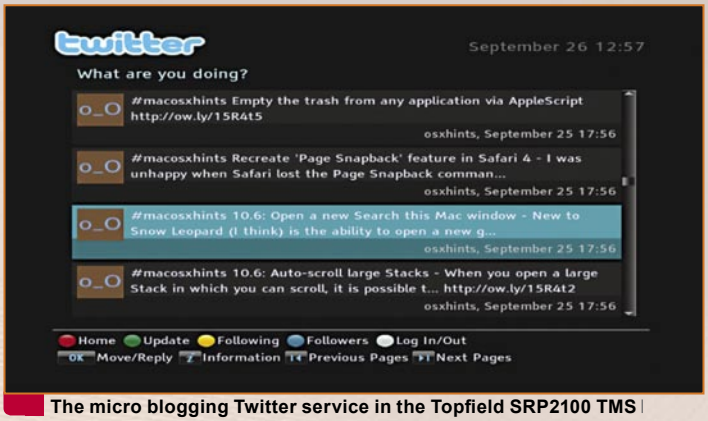
Which Twitter entries am I following?



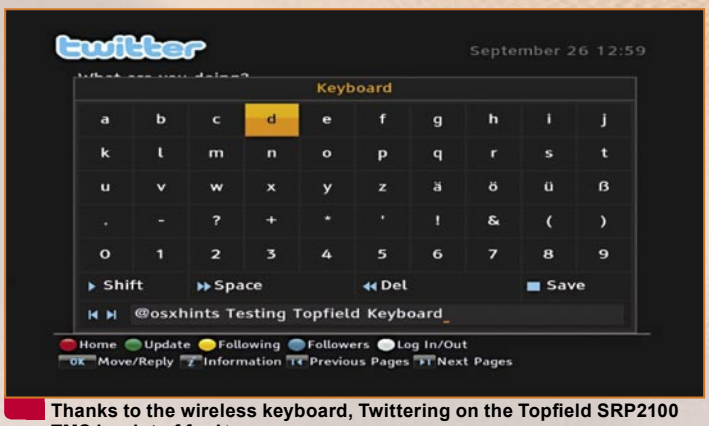
SHOUTcast Pop stations



Sending a Tweet with the help of the Topfield SRP2100 TMS



The micro blogging Twitter service in the Topfield SRP2100 TMS



Thanks to the wireless keyboard, Twittering on the Topfield SRP2100 TMS is a lot of fun!

Technomate TM-2300

Antenna Motor in Long-term Test

The TM-2300 from Technomate makes it easy to convert the monofeed satellite system of a single user into a system that can receive all receivable satellites at a particular location. Technomate's antenna motor model that has proven itself for many years has been reintroduced to us with improved precision; something that we have to look into in much greater detail. An antenna motor is the perfect solution to receive the ever-increasing number of satellites in the sky. Technomate's TM-2300 operates like all other H-H motors on a polar mount in which the motor's turning axis is aligned with the North Star and thus parallel to the Earth's axis. In this way switching from one satellite to another no longer involves an azimuth and elevation adjustment; a simple motor turn is all that's needed. But even this one-dimensional adjustment takes place automatically with the TM-2300.

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Available online starting from 27 November 2009



■ A normal fixed offset dish for reception of only one satellite

Today's modern receivers with integrated DiSEqC 1.2 make it all happen. Control signals are carried to the motor via the same coax cable that is used to connect to the LNB. DiSEqC 1.2 can also transmit satellite position data. Receivers that carry the DiSEqC 1.3 or USALS logo also come with a mathematical routine that takes the receivers location (longitude and latitude) and the geo-central satellite position and calculates the necessary motor angle needed for a particular satellite. With an antenna motor such as the TM-2300 that can understand the complete DiSEqC protocol, you can have a completely automatic system that can drive your antenna to any desired satellite.

Its Simple Operation Tells It All

With the TM-2300 from Technomate and a DiSEqC 1.3 receiver, the conversion of a monofeed system to a multifeed system is made very easy. The job can be completed in less than an hour and all existing components can still be used. It might not be a bad idea to get a larger dish so that weaker satellites or transponders can also be received. Also check to make sure that the mast to be used is perfectly vertical. Only then can the motor move the dish perfectly from one horizon to the other.

We put together a step-by-step outline to help simplify the conversion. A nearly identical previous model has been in operation here with us for the past ten years and has been running perfectly since its installation.

Receiver Preparation

1. Identify your local position (longitude and latitude) using a map, Google or GPS.
2. Turn on the receiver while it's still in monofeed operation.
3. Select a satellite and also select DiSEqC 1.3 (USALS) operational mode (Figure 1)
4. Enter the coordinates of the satellite in the receiver menu.
5. Confirm the entry and then turn off the receiver.

The Assembly

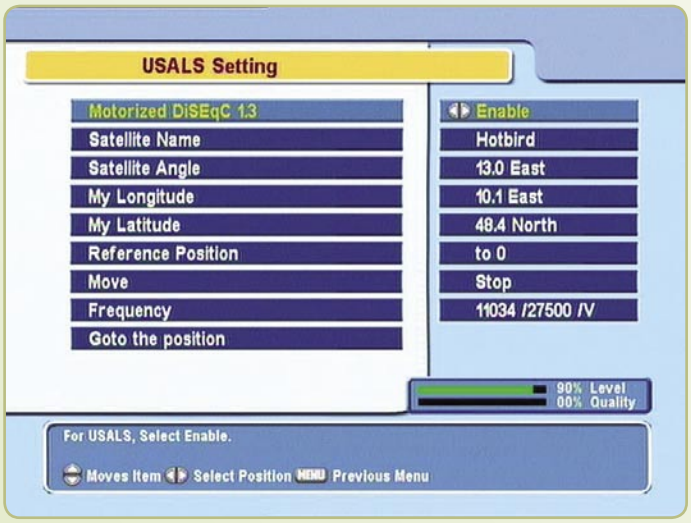
1. Screw together the TM-2300, adjust for your local latitude and tighten the screws (Figure 2).

2. Remove the dish.

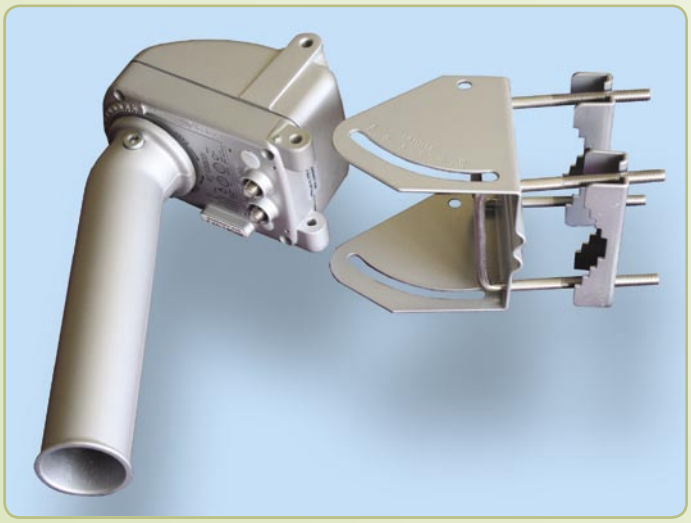
3. Adjust the antenna's declination angle based on the table in the manual (Figure 3).

TELE satellite AWARD 12-01/2010

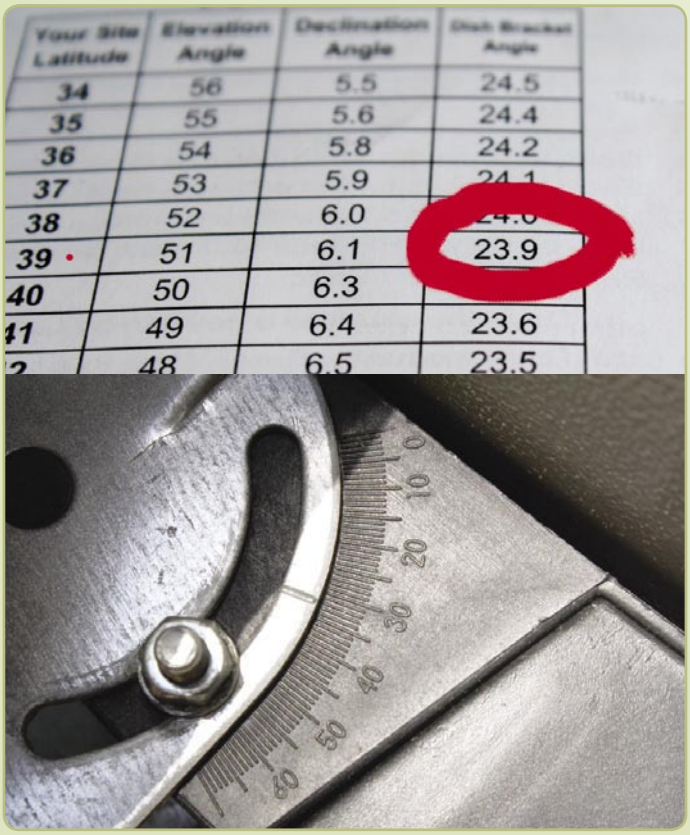
TECHNOMATE TM-2300
Reliable antenna motor designed for use with single antenna systems



■ (Figure 1) DiSEqC 1.3/USALS Menu of a Receiver



■ (Figure 2) TM-2300 Assembly



■ (Figure 3) Table Excerpt and Antenna Declination Scale

4. Adjust the mast using a level until it is perfectly vertical.

5. Mount the TM-2300 on the antenna mast.

6. Align the TM-2300 with north/south and tighten the screws.

7. Mount the dish on the TM-2300's rotor

8. Position the dish to the rotor's marker line and tighten the screws.

9. Connect the receiver to the TM-2300 and then connect the TM-2300 to the LNB.

Fine-tuning

1. Turn on the receiver and observe the receiver's signal bar graphs.

2. Try flexing the dish to the east/west and up/down.

3. Gently turn the dish on the mast for east/west adjustments.

4. For elevation corrections gently adjust the declination angle of the dish.

Fine-tuning Tips

1. When turning on the receiver, there should be reception. If not, check for a perfectly vertical mast and for proper southerly alignment.

2. Only minor turning adjustments on the mast are typically needed. Sometimes it's good enough to just loosen the two left and two right mounting screws together and retightening them.

3. It's possible that the declination scale on the dish could be off by as much as two degrees. In this case you'd have to try adjusting the declination angle by one or two degrees.

4. A "Satellite Finder" can be used if the receiver is too far away from the antenna. It is inserted at the antenna inline between the motor and the LNB.

Expert Opinion

The Technomate TM-2300 is a redesign of their very reliable and capable H-H motor. It is ideally suited for those who want to convert their monofeed satellite system into a multifeed reception system.



Heinz Koppitz
TELE-satellite
Test Center
Germany

+

Very quiet, highly precise movements, corrosion resistant

-

User manual only in English

Maximum 60 degree east/west motor movement



■ (Figure 4) Sideways Dish Adjustment

Sea Tel's market share... is currently around 75% globally." *- 2008 Comsys report*

Something new is happening at Sea Tel®



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Sea Tel's logo has changed with the addition of Cobham's name, but Sea Tel's superior products and service remain the same. Along with the new logo and the recently released 2406 60cm antenna, Sea Tel is pleased to announce a smaller, lighter 60 cm Tx/Rx antenna system, the USAT 24, an Ultra Small Aperture Terminal. Plus the new ST14 TV-at-Sea antenna features an advanced pedestal assembly, made of durable nylon polyamide injection molding used on aircraft antennas. Tests reveal 1.3 dB more signal than competitors.
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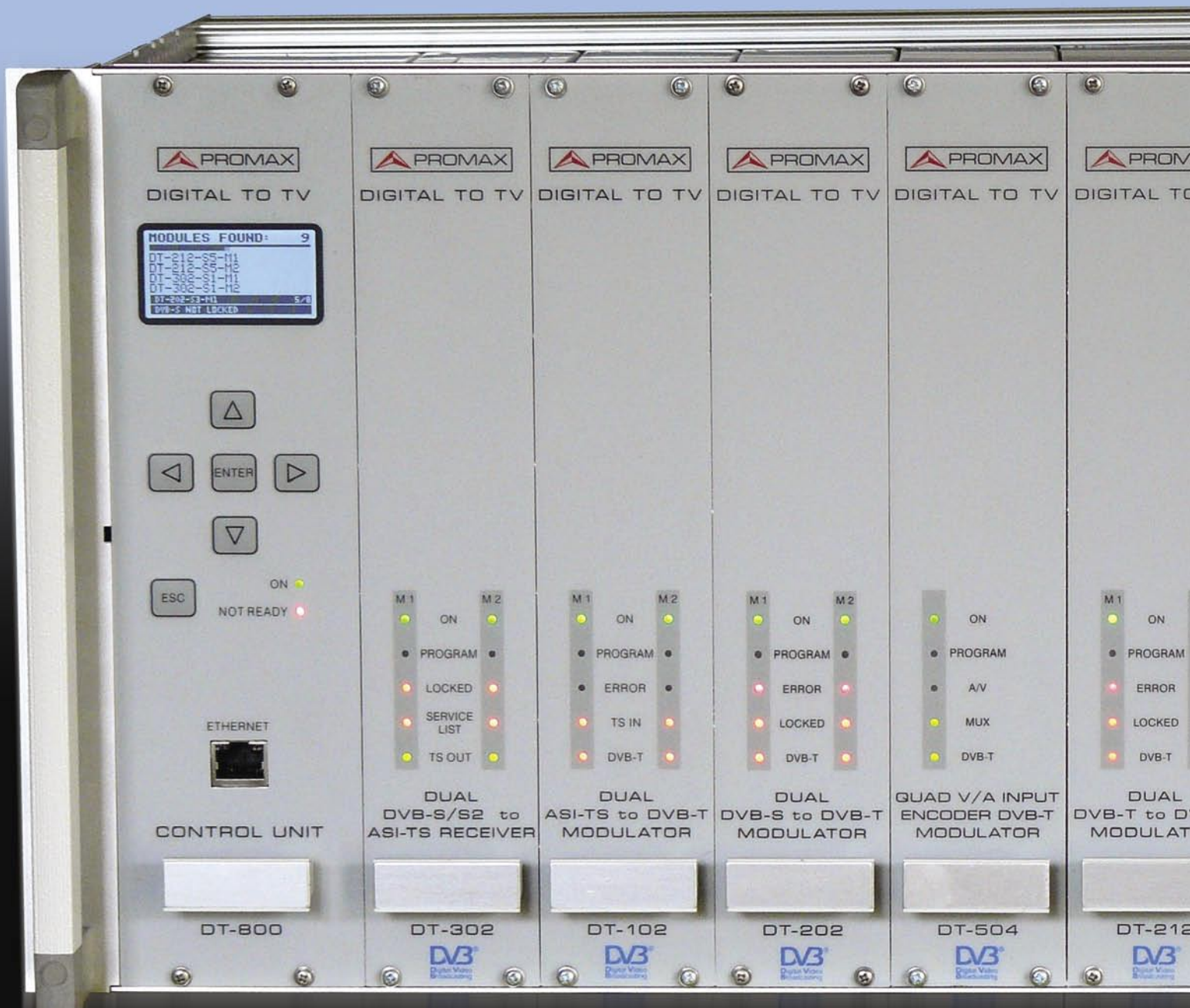
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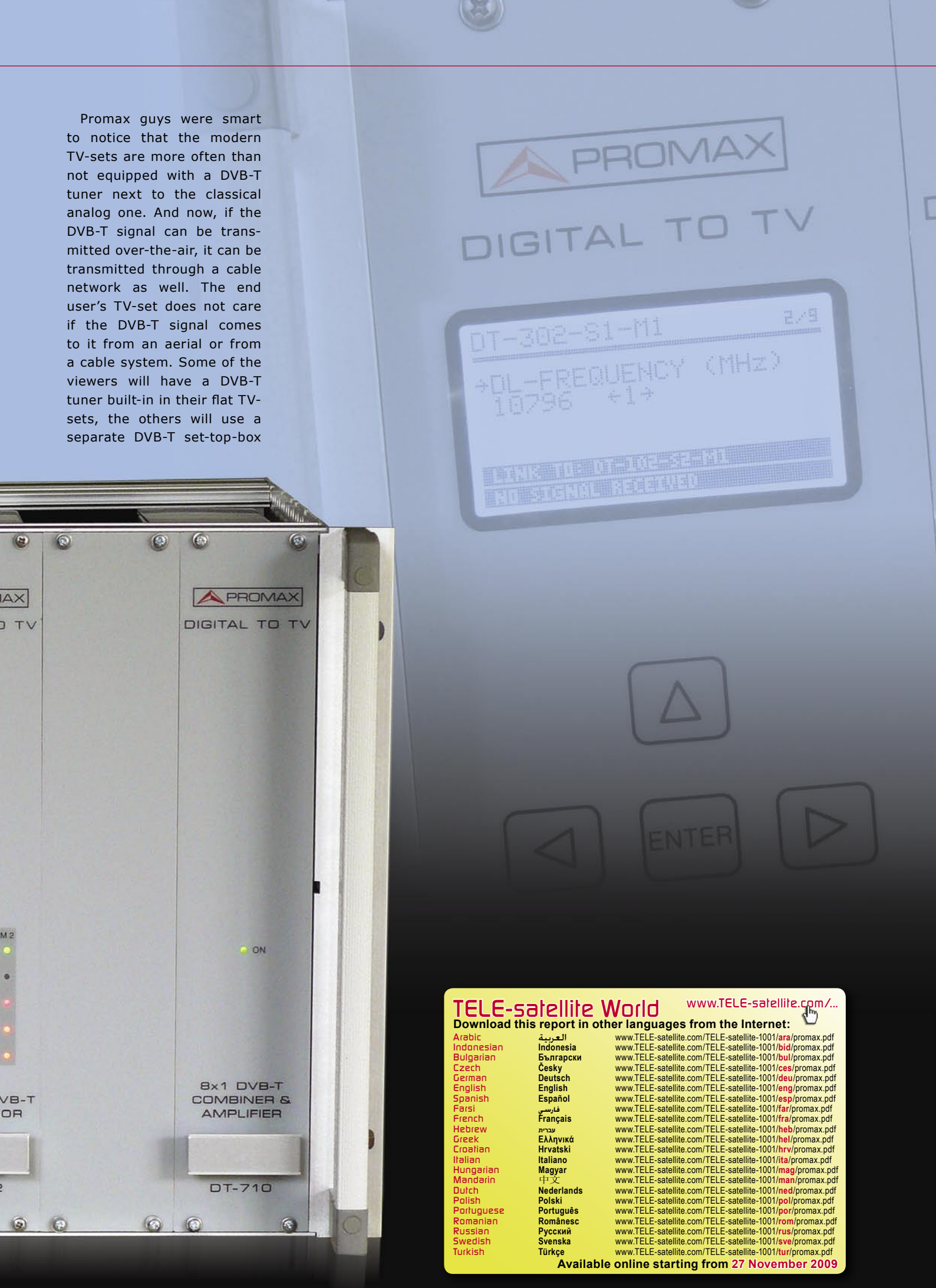
Promax Digital To TV headend

Digital cable TV? This is easy!

DVB-S is the standard for digital satellite TV. DVB-T - for digital terrestrial TV. And DVB-C – for digital cable TV. So if you want to create the cable network to provide digital TV to a number of end users you need to equip all of them with DVB-C set-top-boxes. You will also need the DVB-C headend. But is this the most cost effective way? The experts from Promax say: no, you can make it simpler and cheaper!



Promax guys were smart to notice that the modern TV-sets are more often than not equipped with a DVB-T tuner next to the classical analog one. And now, if the DVB-T signal can be transmitted over-the-air, it can be transmitted through a cable network as well. The end user's TV-set does not care if the DVB-T signal comes to it from an aerial or from a cable system. Some of the viewers will have a DVB-T tuner built-in their flat TV-sets, the others will use a separate DVB-T set-top-box



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for terrestrial reception. But one thing is certain: if they can receive a wireless DVB-T signal they will also be able to receive digital cable TV if only the cable headend outputs DVB-T compatible signal. And Promax Digital To TV (DTTV) headend just does it! The system works without any additional set-top-boxes installed at the end user side.

To make the cable network attractive, you not only need to retransmit all the terrestrial signals available over the air but you have to add content that is distributed via satellites. Quite often you would like to broadcast some content from A/V sources. For example, the hotels often play looped information for their guests. Finally, you can not forget about the Internet and the Internet TV (IPTV). Why not to make it available to the cable subscribers as well? All the above wishes are in fact the requirements that Promax engineers took into account when they were designing DTTV headend.

Modules description

The headend has a modular design so this is very easy to customize it accordingly to the specific needs. Everything is contained in a standard 19" rack. DT-800, the control unit and power supply, is located leftmost. It has a graphic LCD display and a few buttons you use to control all modules. Additionally, there is an Ethernet connector on the front panel. After connecting the module to the LAN, you are able to do all the settings more conveniently in a PC application. On the rear panel, we can see the power socket, power switch, mains voltage selector, sockets for the control cables and a cooling fan. In fact every module has a separate fan. This is typical in professional headends. The cooling fans create quite some noise but one usually does not install this stuff in the room where people are expected to work for hours. DT-800 is connected with every other module with a multi wire cable. It can control up to 7 modules.

Next module we had in the test rack was DT-302. DT-302 is the double DVBS/S2 receiver with transport stream outputs. If you connect 2 LNB's to its inputs, you can configure the unit to receive 2 different transponders. Each satellite receiver has two identical transport stream ASI outputs. ASI means Asynchronous Serial Interface and is the format of the transport stream transmission. DT-302 enables us to select the programs we want to pass. So we do not have to retransmit every channel from a given transponder but only the channels we want to show to our subscribers. Especially interesting in this module are the 2 CAM's accessible after a removal of the top cover. If you insert a valid smart card, you will be able to descramble satellite channels! That's how the premium channels are finding their way into cable networks.

DT-102 was the next module we put next to DT-302. DT-102 converts transport streams into DVB-T signal. It can be any transport stream but in our test we used the stream from its neighbor described above: DT-302. It has two ASI-TS inputs and one DVB-T output. There are 2 carriers (and thus 2 multiplexes) in the outputs if only we feed the unit with 2 separate transport streams. The next module is DT-202, a twin DVB-S to DVB-T transmodulator. This modules provides the simplest and most cost-effective solution to distribute FTA satellite channels, which of course do not require using any smartcard.

As you can see on the photo, DT-504 is the next



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NanoXX 9500HD (HDTV USB-PVR Sat.-Receiver)
NanoXX 9500HD-C (HDTV USB-PVR Cable-Rec.)
NanoXX 9800HD (Twin-HDTV USB-PVR Sat.-Rec.)

HDTV with CI+ (the new Common Interface standard)
Omega HD+ (Twin-Tuner-HDTV-PVR Satellite-Receiver)

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http://www.nanoxx.info/faq

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module. It has 4 A/V inputs which must look very familiar to all our readers. Yes, these are regular analog video and analog stereo audio inputs. The signals may come from DVD player, VCR, satellite receiver, security camera or other source. Every of those analog inputs is converted to the separate digital channel at the output of this module. In this way, you get one DVB-T carrier containing 4 channels.

The last but one module, DT-212, is a DVB-T transmodulator. After receiving a digital terrestrial signal we can shift it in the spectrum to different frequency. This can be done to avoid some undesired interaction between the signals in the network. Another important function of this module is improvement of signal quality. It demodulates the signal, corrects erroneous bits and remodulates the signal back to DVB-T. As a result, we get a signal with very good C/N ratio suitable even for large cable network.

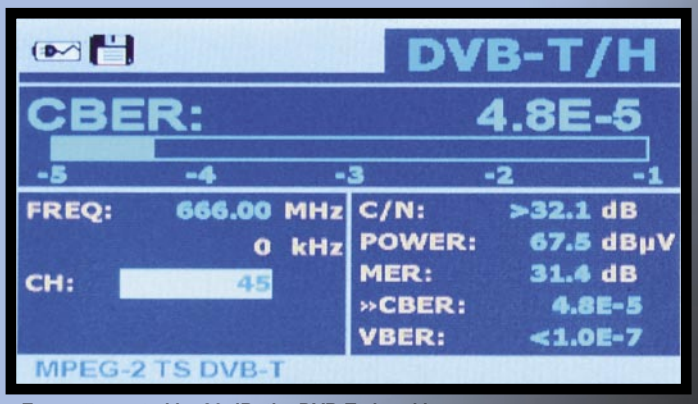
Finally, the rightmost module is DT-710. This is a combiner/amplifier that takes up to 8 DVB-T carriers and outputs all of them in one cable. This would normally be an output for the cable network.

Installation

Right after plugging in every module and connecting them on the rear panel with control and signal cables, DTTV is ready for setting up. Though the number of button is limited to six: four arrows, ENTER and ESC, setting up the instrument is surprisingly easy. Right after power up, the DT-800 control unit check what other units are connected to it. After a few seconds, we may press ENTER. Then you are asked for the password (PIN), and later you just select the module you want to configure (with right/left arrows). When the desired module is displayed, another ENTER allows you to start setting up the parameters. Up/down arrows change the value of the digit or letter of the alphabet while left/right arrows change the position in a number or name. Everything works very intuitively. When setting up the DT-302 you need to provide similar data to those in the receiver installation menu: LOF, frequency of the desired transponder, band (C/Ku), LNB supply (13/18 V, 22/0 kHz), standard (DVB-S/S2), symbol rate. There is also another option: service list. Once DT-302 locks to the transponder, this submenu will list all recognized services (TV, radio and data channels). You can mark only those services you want to be included in the output.



■ **DT-102 converts 2 transport streams to two regular DVB-T COFDM signals. You can see their spectrum on the photo. We set one of their levels 20 dB down. Otherwise, they would be equally strong.**



■ **Even attenuated by 20 dB, the DVB-T signal has excellent quality. See the CBER, VBER, C/N and MER readings.**

■ **4 FUN.tv channel from HOTBIRD satellite at 13°E re-modulated to DVB-T and seen on the signal analyzer screen.**



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The remaining services will be blocked. If the services are scrambled, you can use a valid smart card and insert it in the CAM installed in the module. To get physical access to CAM, all you need to do is to unscrew a small lid on the top panel of the module. Actually, DT-302 has 2 such modules – separate for every input.

Other modules are configured in the same manner. If the module has a DVB-T output, we need to select the DVB-T parameters: Frequency, Attenuation, FFT Mode, Guard Interval, Constellation, Code Rate, and Channel Bandwidth.

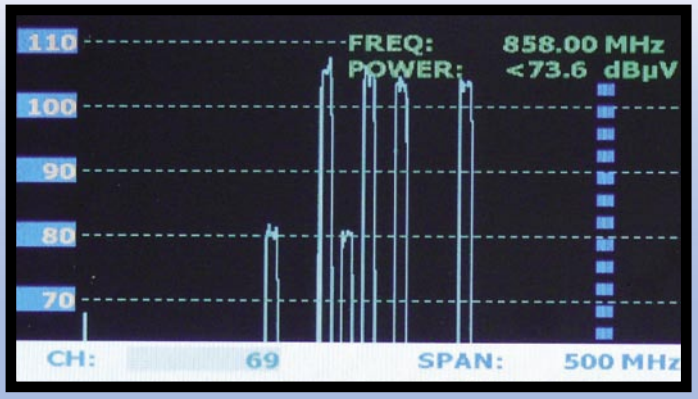
As you can see, the number of setting is rather high. If you just need to change DVB-S transponder data, it is not a problem. You can do it in no time. However if this is an initial setup, it may take a while. To make it more convenient, Promax developed PC software to control DTTV. Both PC and DTTV must first be connected to local area network. You set the IP address, submask and gateway in DT-800 module manually. DHCP is not supported. This is something natural in professional equipment. The application makes the whole configuration process much easier. This is a real help for the installer.

Performance

The quality of output signal is absolutely great. This is much, much better than you can get from the satellite LNB or terrestrial antenna. That's because the modules have very good front ends, they demodulate DVB-S/S2 or DVB-T, correct the bit errors and remodulate transport stream to DVB-T. Thanks to that, the output signal has practically no bit errors. All parameters related to signal quality: MER, C/N, CBER, VBER are absolutely excellent. Moreover, the signal level is very high. When you connect a modern TV-set even at the end of a very large cable network, the signal will still be very, very good. There is no single parameter we can complain about.

Conclusion

DTTV is a very high quality DVB-T headend of perfect output signal and very big configuration possibility. The modules we had in our test rack are but a few of the modules available from Promax. Visit their webpage www.promaxelectronics.com for more details. If you seriously think about the cable headend and want to make the whole enterprise economically sound, you have to consider DTTV!



■ DTTV unit in the test configuration we had was able to generate 6 DVB-T COFDM signals. Assuming that one can have 8-10 SDTV channels per every carrier, one DTTV unit can give us 48-60 digital channels!



■ Details of the satellite PATIO.TV channel converted to DVB-T.



■ Setting up DT 302 module. You can see setting the frequency of the transponder to be received and demodulated to the pure transport stream.

Expert Opinion



Jacek Pawlowski
TELE-satellite
Test Center
Poland

+

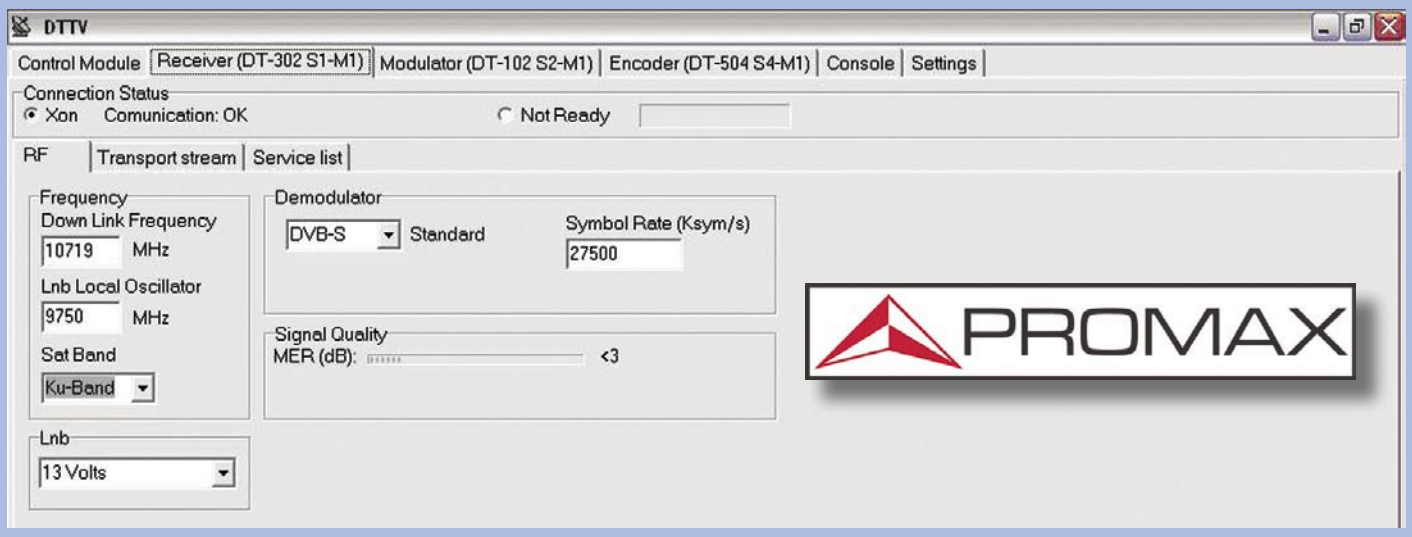
Very flexible configuration. Simple user interface. Extremely good and strong output signal. No DVB-C set-top-boxes needed at the customer side.

-

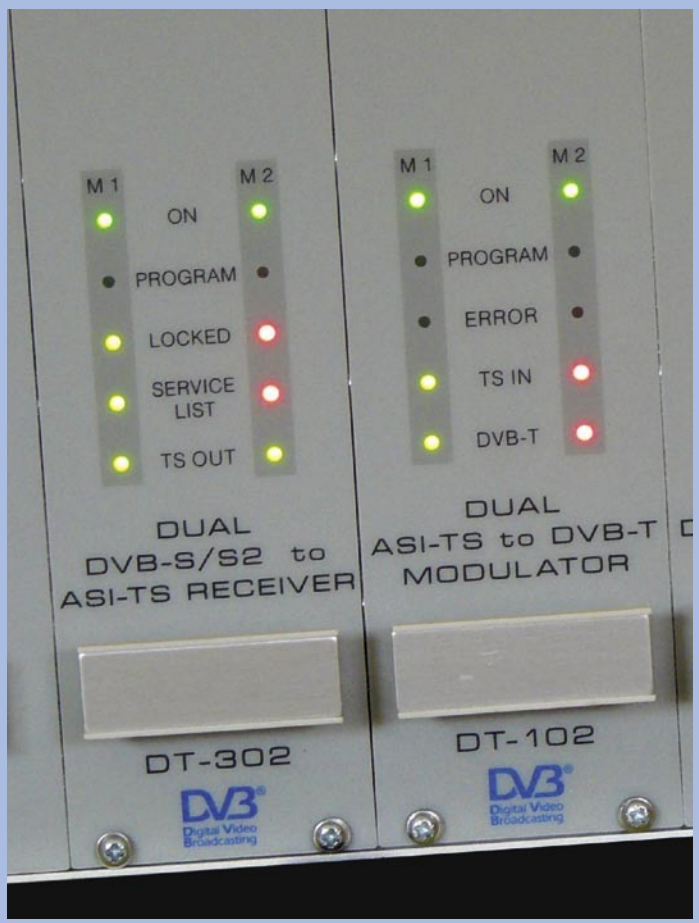
Some functionalities of the regular DVB-C (like the return channel) are impossible. Also the number of possible digital channels is lower than in DVB-C (but this is important only if you need to supply more than about 200 channels).

TECHNICAL DATA

Manufacturer	Promax Electronica, S.A., Barcelona, Spain
Internet	www.promaxelectronics.com info@promaxelectronics.com
Phone	+034 93 260 20 02
Fax	+034 93 338 11 26
Model	Digital To TV
Description	DVB-T headend for cable networks (SMATV)
Inputs	DVB-S/S2, DVB-T (e.g. from the aerial), A/V analog, IPTV, TS-ASI
Output	DVB-T COFDM
Power supply	120/240 V 50/60 Hz



■ **Screenshot of DTTV control application.**



■ **Green LED's indicate that DT-302 has locked to the satellite transponder and that DT-102 outputs correct DVB-T signal.**



■ **DT-302 module has 2 CAM's accessible from the top after removing a cover. They are capable to decipher scrambled channels. Of course, you need to put in valid smart cards.**

Global Invacom OptiScan

The First Signal Analyzer with an Optical Input

TELE-satellite has already reported many times on the British company Global Invacom. It started many years ago with a report on a 0.3 dB LNB and most recently with a report on their newest product - an optical LNB; see TELE-satellite issue 04-05/2008 and 08-09/2009. It's easy to see that Global Invacom takes a leading roll that others need to follow when it comes to innovative products. And to show that this is true, the engineers recently added one more thing: similar to the optical LNB, the first satellite signal analyzer with an optical signal input is making its appearance in the market.

TELE satellite AWARD 12-01/2010
GLOBAL INVACOM OPTISCAN
Future-proof satellite signal analyzer for optical and coaxial LNBs

As we unpacked the unit, everyone in the test laboratory was impressed with the overall appearance of the OptiScan; not too heavy, not too light. It sits perfectly in your hand and thus helps to prevent you from accidentally dropping it.

But even if that does happen, the manufacturer incorporated the OptiScan in a very sturdy plastic housing. On the upper side there are two signal inputs, one of them is the optical input while the other is in the form of a BNC connector for typical coax cable signals.

The eight-digit LCD display is easily readable even in direct sunlight. The display's background lighting is perfectly suited for use in an attic or other location with poor lighting.

The background lighting can be turned on or off depending on how the unit itself is powered up. A short push of the ON button starts the OptiScan without background lighting whereas as holding the ON button down longer will start it with background lighting.

The signal analyzer is operated using the nine clearly labeled buttons underneath the display; it's easy to feel when the button has been properly pushed plus they are large enough to make the analyzer easy to use.

On the side is the connection for the included 12V power supply which



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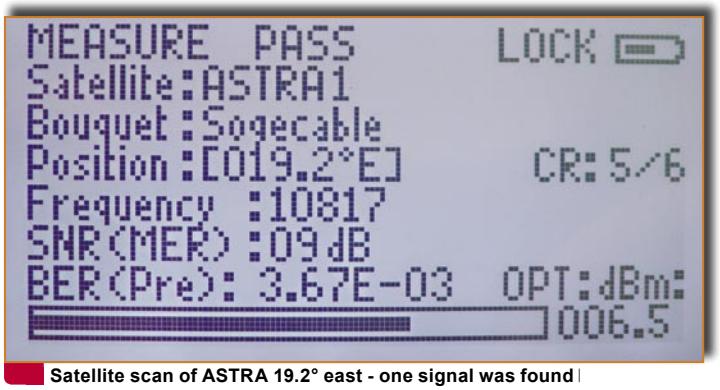
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Satellite scan of ASTRA 19.2° east - one signal was found

charges the internal rechargeable battery.

Accessories include a practical carrying case with carrying strap, the 12V power supply, a car charger, a detailed user manual and a BNC to F adapter.

Everyday Use

According to the manufacturer, the internal battery of the OptiScan needs roughly 12 hours to fully charge; protective circuitry prevents the battery from being overcharged. Once fully charged, the OptiScan can be used for up to five hours even when a standard LNB needs to be supplied with power. But since our test analyzer was already fully charged, we were able to get right to work.



The OptiScan operates with a real-time spectrum display that covers 950 - 2150 MHz (zoomable to 160 MHz) and works with signal levels between 40 and 90 dBµV (coaxial) as well as +10 to -25 dBm (optical).

The following values can be set up individually for each desired transponder: MER (Modulation Error Rate), BER (Bit Error Rate) as well as signal levels in dBµV for coaxial signals and dBm for optical signals.

The OptiScan operates via a very practical Favorites function which can be used to store one or more reference transponders for each desired satellite that ultimately makes it easy to access them at a later time.

As many as 99 of these so-called Favorites can be set up in the signal analyzer; 24 of these have already been set up by Global Invacom with transponders from the following European satellites:

ASTRA2 28.2° east, EXPRESS AM22 53° east, TURKSAT 42° east, HELLASSAT 39° east, EUROBIRD3 33° east, BADR 26° east, ASTRA3 23.5° east, ASTRA1 19.2° east, EUTELSAT W2 16° east, HOTBIRD 13° east, EUROBIRD9 9° east, EUTELSATW3A 7° east, SIRIUS 5° east, THOR 1° west, ATLANTIC BIRD3 5° west as well as NILESAT 7°, ATLANTIC BIRD2 8° west, ATLANTIC BIRD1 12.5° west, TELSTAR12 15° west and HISPASAT 30° west. Thanks to this large assortment of satellites, there should be no problems setting up any antenna in Europe.

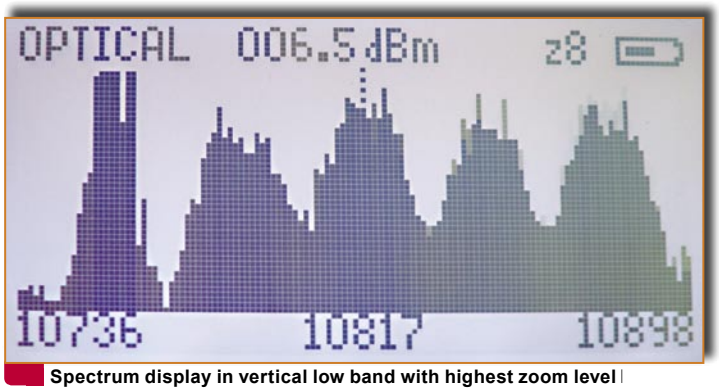
For other continents, the manufacturer/distributor can naturally set up the list based on local requirements and preprogram the analyzer accordingly.

Installation

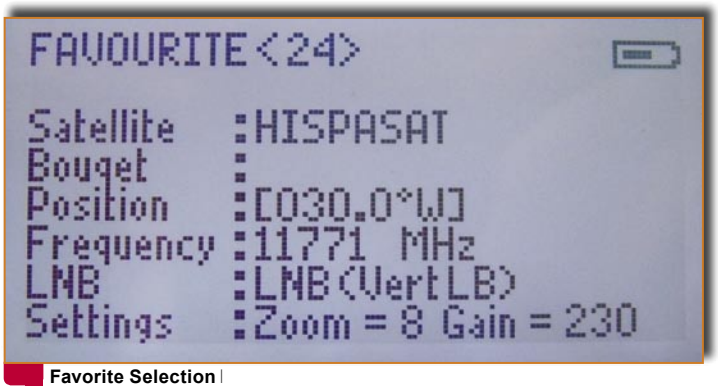
For our tests we loosened the mount on one of our antennas so that we could align it with HISPASAT 30° west. After holding down the ON button for a moment, the OptiScan came to life and immediately displayed the list of Favorites.

We first accessed the main menu so that we could take care of all the settings. The Main Menu is divided into six submenus. To start with you can select whether the OptiScan should work with coaxial or optical signals based on which input is in use.

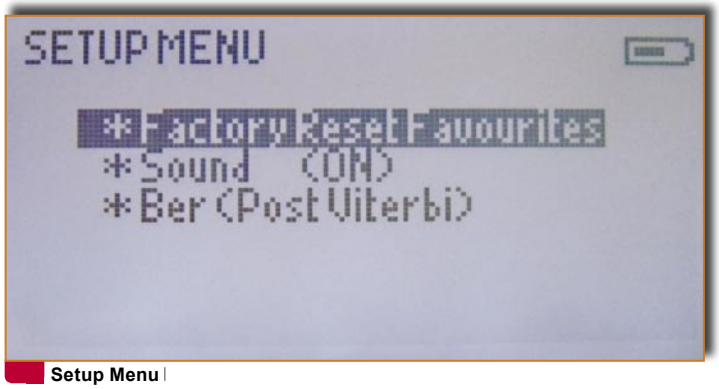
The second submenu contains the stored Favorites while the third submenu serves to store new transponders as Favorites entries.



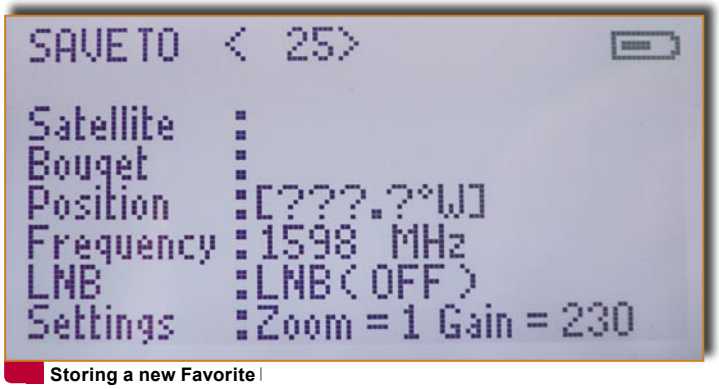
Spectrum display in vertical low band with highest zoom level



Favorite Selection



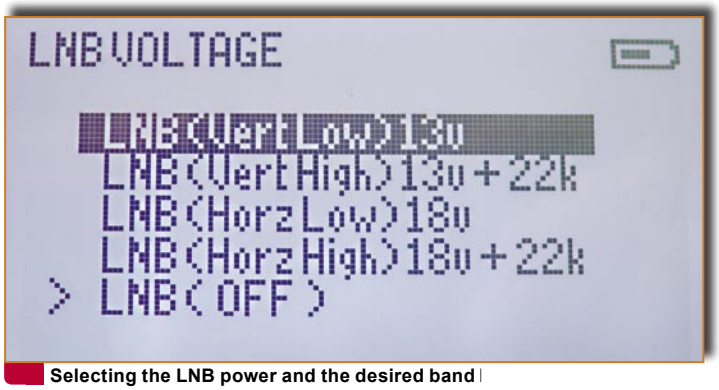
Setup Menu



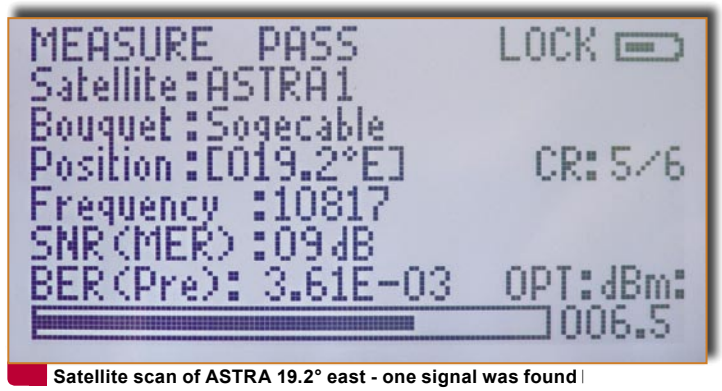
Storing a new Favorite



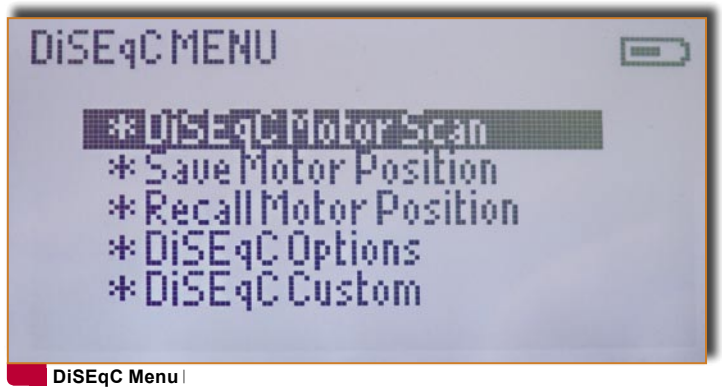
Spectrum display without zoom



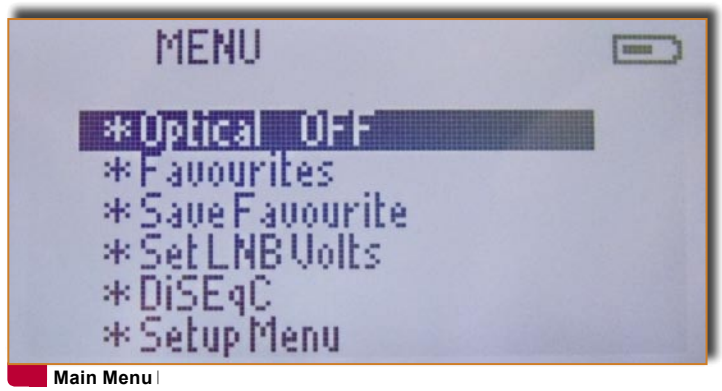
Selecting the LNB power and the desired band



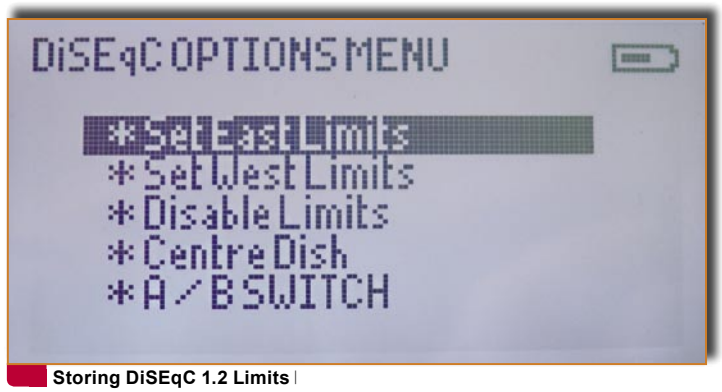
Satellite scan of ASTRA 19.2° east - one signal was found



DiSEqC Menu



Main Menu



Storing DiSEqC 1.2 Limits

Submenus 4 and 5 contain multiple LNB power settings, frequency band settings as well as DiSEqC settings.

The OptiScan can provide LNBs with 13V and 18V as well as a 22 kHz signal to switch between low band and high band.

DiSEqC is naturally also supported including version 1.0 and also 1.2 form control of a DiSEqC motor. In this mode the antenna can not only be moved around during a measurement, but it is also possible to store limits and positions directly in the motor.

For more experienced users, there's also the ability to manually enter DiSEqC commands but this requires some specialized knowledge and above all experience with DiSEqC's technical specifications. These can be found, for example, at www.eutelsat.com.

The sixth submenu "Setup Menu" allows you to reset all the Favorites back to factory settings and also lets you determine how the audio signal level tone can be activated or deactivated. he user can also select whether the BER (bit error rate) should be displayed by Viterbi before or after a correction.

If the Viterbi display is selected, the OptiScan measures the error rate as it is transmitted from the satellite. The measurement of the BER gives you a reliable indication of the quality and alignment of the antenna.

If you display the BER after the Viterbi correction, the signal has undergone a mathematical correction and does not contain as many errors as before.

For our tests we chose entry 13 in the Favorites menu in which transponder 11554 V is stored. After pressing the enter button, the OptiScan switches to its graphical signal display where the spectrum is shown in the range between 11473 and 11635 MHz.

Next we moved the antenna around until a signal peak became visible on the display at the preprogrammed frequency.

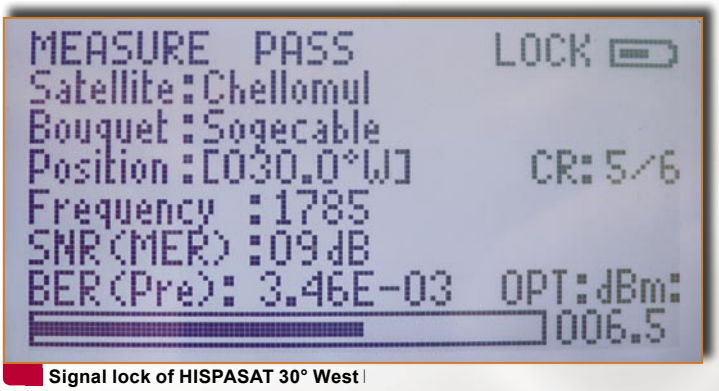
With the help of the two Gain buttons, the scale of the display could be changed. If the signal is very strong and the peak is no longer visible on the display, the scale can be raised so that the test transponder can be more easily seen. Ideally, the signal peak should take up roughly 2/3 of the display.

With the help of the Up and Down buttons, seven different Zoom levels can be utilized so that the entire spectrum can be viewed or only a small portion just around the transponder.

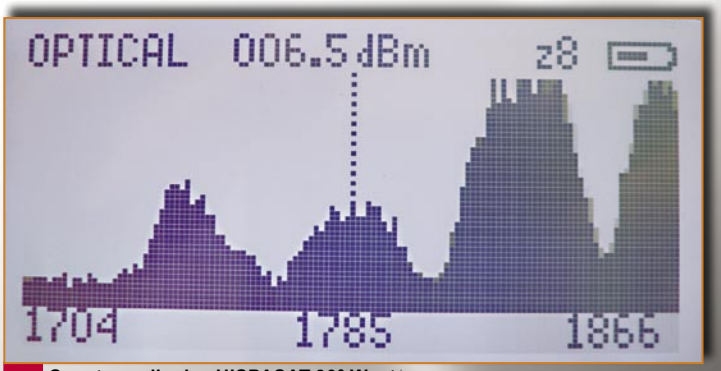
Last but not least the left/right buttons can be used to modify the entered frequency. This lets you adjust the preprogrammed frequency directly on its center or you can choose a completely different frequency.

If the analyzer shows a peak on the dotted line, a simple push of the Enter button puts the OptiScan in measurement mode in which it begins reading in the selected transponders.

With the help of the NIT data (if available), the actual satellite, its position and bouquet are confirmed. The user can thus immediately see which satellite is currently aligned to.



Signal lock of HISPASAT 30° West



Spectrum display HISPASAT 30° West



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At this point the measurement of MER and BER takes place; the graphical and numerical display of the signal level also begins here.

If the analyzer recognizes a transponder, „LOCK" is displayed in the upper edge of the display while „PASS" indicates that there are acceptable levels of MER and BER and that the transponder was recognized. If „MARGINAL" or „FAIL" is displayed, it indicates that the antenna is not correctly aligned and that reception is not possible.

This is where the installer begins the fine tuning of the antenna in order to obtain optimal levels. Once the maximum has been reached, the screws on the antenna should be tightened.

Thanks to the complete spectrum analyzer display it is easily possible to discover defective cable using the OptiScan since all transponders in several frequency ranges and levels are displayed.

If a satellite has been sighted that is not yet in the preprogrammed list, it is recommended that this entry be stored as a new Favorites entry so that it is available with the next scan.

We thoroughly tested the OptiScan using both optical and coaxial signal inputs. We were especially thrilled that in the future it is no longer necessary to bring along an optical-to-coaxial signal converter to the installation site.

This problem became evident during our tests of the optical LNBs from Global Invacom in the 08-09/2009 TELE-satellite issue. Invacom found the perfect solution in the OptiScan thanks to which even optical LNBs can be properly adjusted.

There's one small issue: In order to keep the price of OptiScan reasonable, Global Invacom decided to restrict the analyzer to show only the vertical low band in the spectrum. Adding the other bands would have made the OptiScan too expensive.

All in all, the OptiScan analyzer comes with all the necessary features and for the installer it is a future-proof alternative to his previous equipment.

It is extremely lightweight, sits perfectly in your hand and operates with a high-capacity rechargeable battery that can last up to five hours without any external power source.

Conclusion

Global Invacom, with its new OptiScan has shown once again that this company is always a step ahead of the competition in the development of new products.

It remains to be seen what the future holds but one thing is clear: optical signal transmission will sooner or later become more standard and Global Invacom with its optical LNBs and OptiScan analyzer are providing the necessary prerequisites.

Expert Opinion



Thomas Haring
TELE-satellite
Test Center
Austria

+

Unit sits perfectly in your hand, it is shock-resistant and operates with a long-life. It is future-proof for coaxial LNBs as well as for the new optical LNBs

-

only one satellite polarization is displayed with optical reception

TECHNICAL DATA

Manufacturer	Global Invacom, Winterdale Manor, Southminster Road, Althorne, Essex CM3 6BX, ENGLAND
Tel	+44 (0) 1621 743 440
Fax	+44 (0) 1621 743 676
Email	sales@globalinvacom.com
Model	OptiScan
Frequency range	950(160)~2150 MHz
Range	RF input level: 40 dBuV to 90 dBuV Optical range: +10 to -25 dBm
Accuracy	Typically +/- 1 dB
Measuring	MER and BER
DiSEqC	1.0 and 1.2 compatible plus any DiSEqC command can be generated
Uptime	Up to 5 hours
Charge time	Up to 12 hours
Items included	Carry case, BNC/F adaptor, mains charger, car charger, manual
Dimensions	210x110x70mm
Weight	0.70kg

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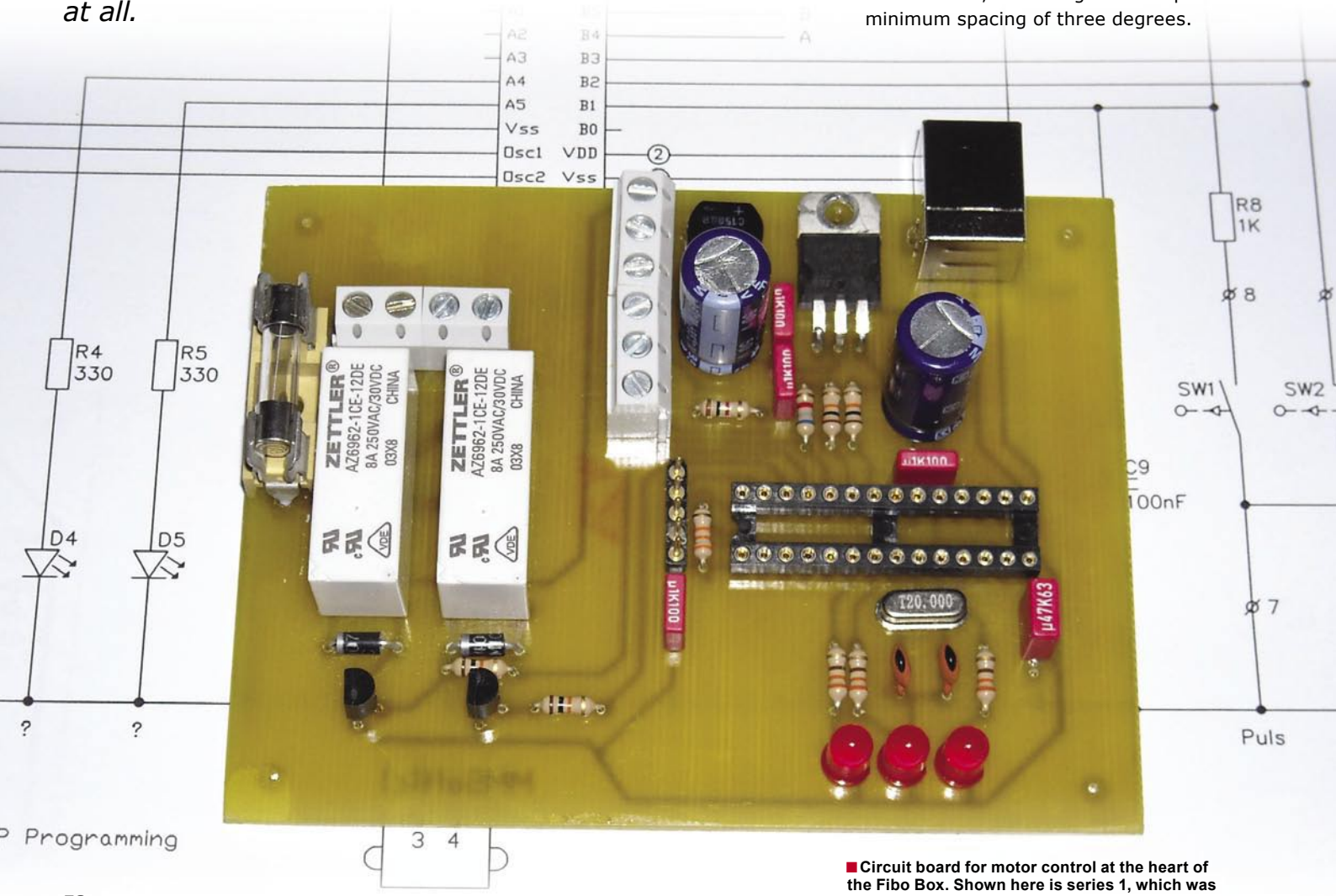
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Fibo-Box
How to control a satellite dish via PC

In the golden days, many analog receivers came with integrated motor control. Granted, the number of available satellites was rather limited back then, but on the other hand reception equipment usually carried a hefty price tag, so for many satellite enthusiasts it made perfect sense to have a single dish and LNB that could be rotated with the help of a motor. Technology progressed, as it always does, and when we arrived at the digital age the number of satellites sprinkling our skies had increased enormously, while at the same time satellite equipment had become much more affordable. In addition, many households have begun to use more than one satellite receiver, so multi-LNB antennas and multi-switches are now signs of the modern satellite era. By contrast, receivers with built-in motor control became rarer and rarer, and these days you'd be lucky to find one at all.

Nonetheless, a group of satellite enthusiasts still exists which wants to rotate their antenna with a motor – they are called feed hunters and as the name implies they are permanently on the lookout for transmission feeds on a whole range of satellites.

Interestingly enough, even for average Joe the situation gradually changes due to two or more satellites being positioned very closely to each other. In Europe it had long been possible to receive almost all satellites with a single multi-LNB antenna. However, many satellites with footprints across Europe are now spaced only one or two degrees apart and therefore cannot all be received with a multi-LNB antenna, which in general requires a minimum spacing of three degrees.



Circuit board for motor control at the heart of the Fibo Box. Shown here is series 1, which was designed for controlling the antenna rotation

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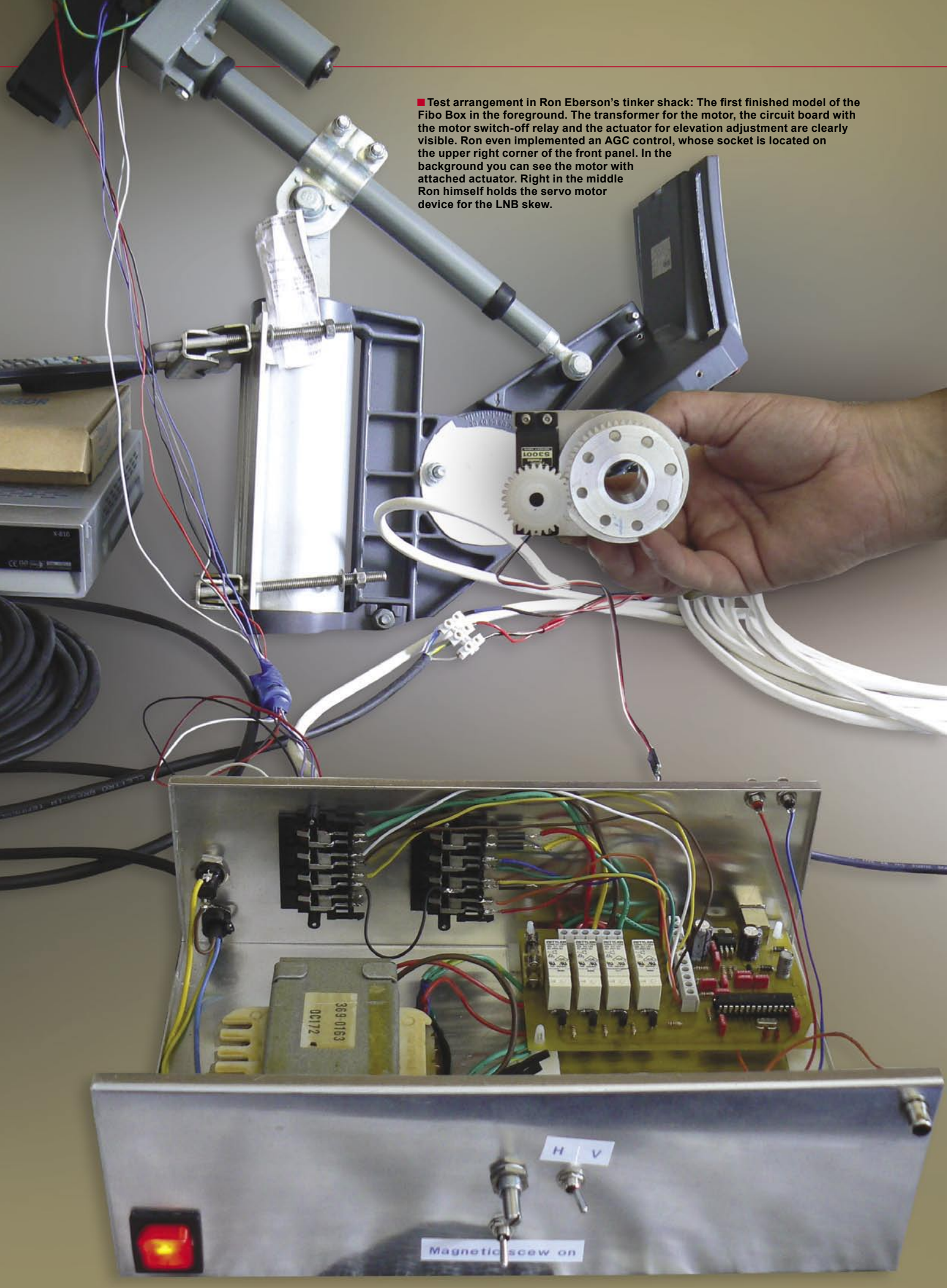
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E-mail: ccbn@ccbn.cn hewei@china.com



Test arrangement in Ron Eberson's tinker shack: The first finished model of the Fibo Box in the foreground. The transformer for the motor, the circuit board with the motor switch-off relay and the actuator for elevation adjustment are clearly visible. Ron even implemented an AGC control, whose socket is located on the upper right corner of the front panel. In the background you can see the motor with attached actuator. Right in the middle Ron himself holds the servo motor device for the LNB skew.

So what's to do? You can either decide to install a second multi-LNB dish on the roof or you may think back to a time when some receivers came fully equipped with a motor control feature that allowed to select each satellite individually and directly. These days such a receiver is almost impossible to come by, and that's why Dutch satellite tinkerer Ron Eberson of Amsterdam came up with something quite clever: the so-called Fibo Box, which is a PC-based motor control device.

Ron's Fibo Box is geared towards feed hunters – for a reason: "A true feed hunter uses a quad LNB with his antenna, because he needs four signal outputs." What for? "One output is required for connecting the motor, the second is led right to the PC for creating screen shots, the third output goes to a blind scan receiver and – finally – the fourth output sends signals to the receiver that is hooked up to the TV."

But even these four outputs are not paradise for die-hard feed hunters. For instance, they might like to connect a second blind scan receiver, which is why Ron devised a very special solution: Motor control that is independent of a manual control box, but rather works semi-automatically via PC.

Ron explains "DXers don't merely want to change the azimuth but also elevation, as some satellites are positioned in an inclined orbit." Yet even that's not all. "For really perfect reception the LNB's polarisation should be skewable as well," Ron adds. So with these features alone we arrive at three separate motor controls: azimuth (i.e. East to West movement of the dish), elevation (i.e. dish movement up or down) and LNB polarisation (i.e. skewing the LNB).

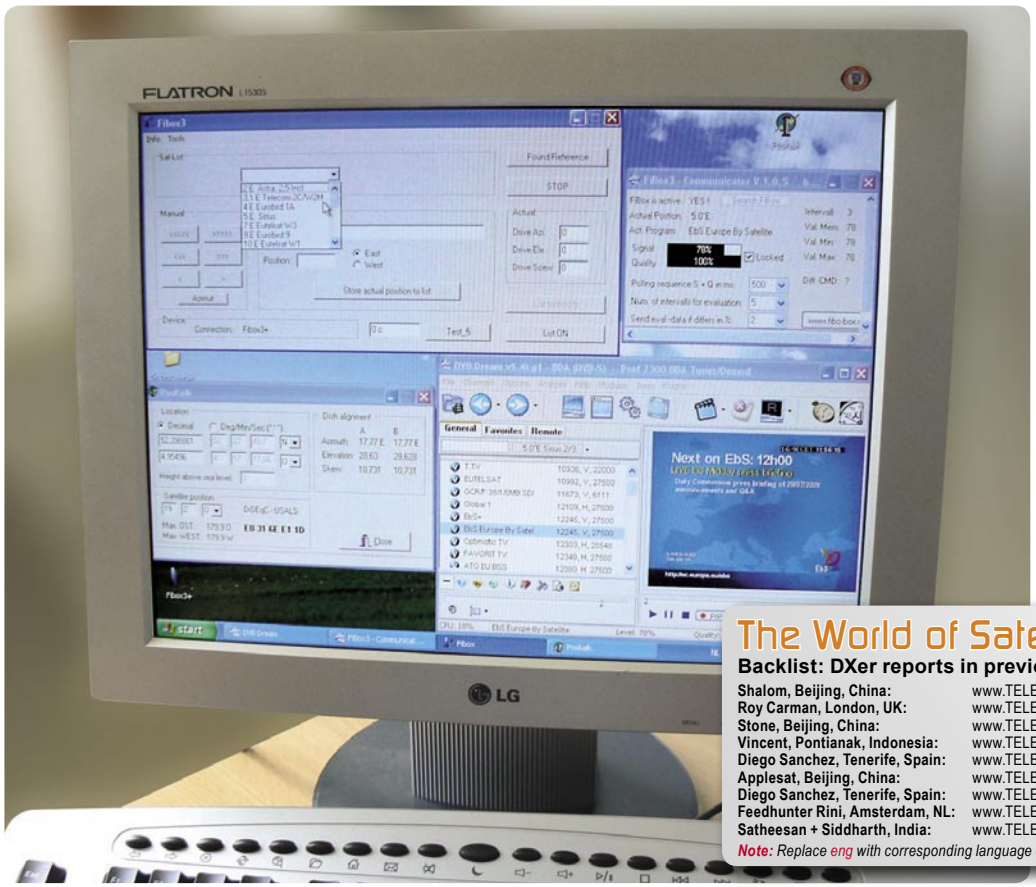
If that sounds a bit complicated, Ron explains how it all works: "The motors are controlled using plus/minus, so all you have to do is change polarity for the motor to change direction." A Reed relay is used to indicate the motor's current position: "Each degree is divided up into seven impulses." If, for example, the antenna needs to be rotated by three degrees Ron's software calculates 3 x 7 = 21 impulses. Based on this general concept, Ron has developed a circuit plus corresponding software that controls all three motors.

"The only reason I ever came up with this was my obsession with feed hunting," Ron tells us and adds "this is no commercial project at all." Ron even provides interested feed hunters with his circuit board at self cost.

"In case a manufacturer is interested, however, I will of course be happy to discuss any details," Ron hastens to add, "because that way the Fibo Box could be marketed on a professional level and more feed hunters and satellite DXers would be able to use it."

Ron even set up his own website presenting the Fibo Box (www.fibo-box.com) and can be contacted at info@fibo-box.com.

Right now Ron is contemplating adding a fourth motor control to his Fibo Box. "This way the distance between LNB and antenna could be freely adjusted as well," he says. While there really is only one optimum distance for LNB mounting, many feed hunters would still appreciate the additional room for manoevering. After all, flexibility may well lead to unexpected surprises and if Ron really implements this idea the Fibo Box will be capable of optimising reception in four dimensions!



Software for controlling the Fibo Box, also developed by Ron Eberson: Motor control visible in the image to the left. The desired satellite can be chosen from a list and the PosKalk application (see image) calculates azimuth, elevation and LNB skew based on the actual geographic location of the antenna. The application shown on the upper right then takes care of controlling the motor. This application can be set for the Fibo Box to re-adjust all positions in certain intervals, such as each second or every third second. Alternatively, you can set a specified deviation that triggers re-adjustment of the motor. Satellites located in inclined orbit require permanent tracking. In the lower right section you can see a TV viewer software which allows watching the currently received signal and creating screen shots. Of course, Ron is working on integrating all these applications into a single software solution so that all processes are performed fully automatically.

The World of Satellite DXers

Backlist: DXer reports in previous issues of TELE-satellite

Shalom, Beijing, China:	www.TELE-satellite.com/TELE-satellite-0911/eng/shalom.pdf
Roy Carman, London, UK:	www.TELE-satellite.com/TELE-satellite-0909/eng/londondxer.pdf
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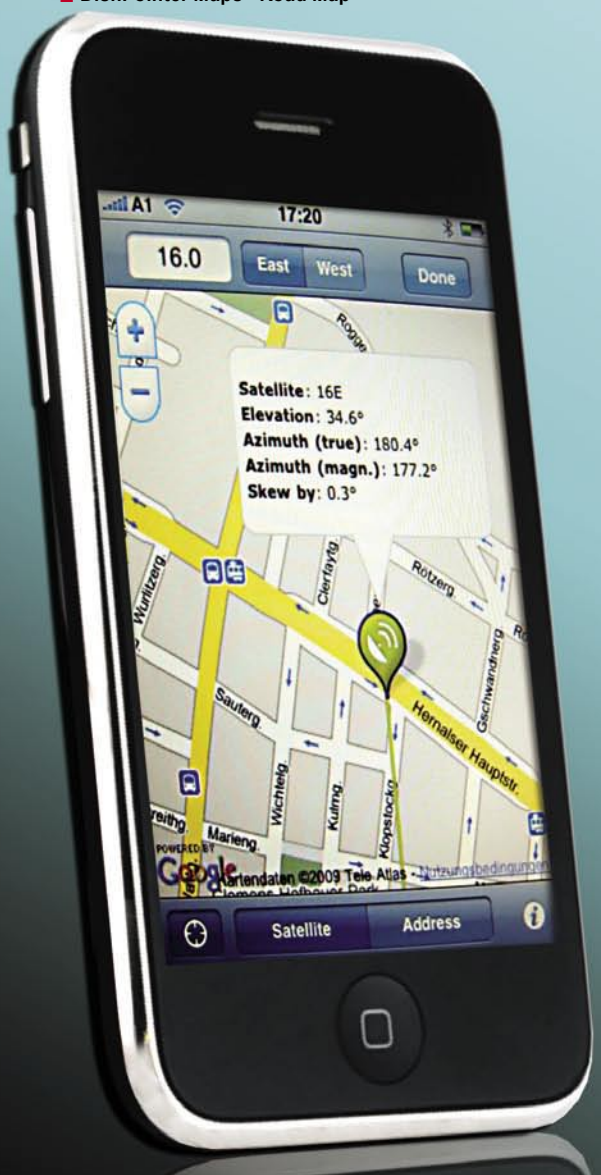
Note: Replace eng with corresponding language code - see page 178

DishPointer

The Apple iPhone Satellite Antenna Installation Aid

Mobile telephones have become part of our everyday lives and it is a tool that we can no longer do without. In addition to telephony, mobile phones have now become mini PCs and come with a multitude of other functions such as e-mail, Internet access, an alarm clock, an MP3 player, a camera, a memo pad, an address book, a calendar, etc.

■ DishPointer Maps - Road Map



These were actually ideal requirements, thought Alan, head of the www.dishpointer.com website, to make something more of it. DishPointer is an exceptionally practical Internet site that users can use to calculate the azimuth and elevation settings for any satellite around the world. The site also shows approximately what direction to point the antenna with the help of Google Maps. TELE-satellite reported in detail on DishPointer in the 02-03/2008 issue.

But there has always been one disadvantage that has existed from the beginning: it involves an Internet site and that means it's necessary to enter information in a PC in order to calculate the correct alignment angles for an antenna. All of the required values must be calculated, printed and brought to the installation site before work can even begin. If there should be any problems or if data is needed for another satellite, then another trip back to the PC would be necessary.

TELE satellite AWARD 12-01/2010
DISHPOINTER
IPHONE APPLICATION
It's never been this easy
to check satellite reception!

This is exactly the problem that Alan recognized. He decided to make his calculation features compatible with mobile telephones. But what mobile phone manufacturer should he focus on?

There was no need to even ask the question; Alan from the very beginning had opted for the Apple iPhone. It wasn't because it has a large display, a touch screen and the necessary programming interface, but it also has the advantage that any associated development costs can be held to a minimum in that the iTunes store would be used.

The iTunes store is an Apple operated website on which every programmer can offer their iPhone applications at a freely settable price. Thanks to the iTunes software and the synchronization interface between the iPhone and a PC or MAC, end users can search for their desired applications, buy them with one click and then load them directly into the device.

DishPointer currently has two iPhone applications available in the iTunes store. One of them is DishPointer Maps, a version of the popular website calculation tool, and the other (available in a Pro and Lite version) is a completely new application that can be used to determine what satellites can be received at a particular location before the antenna installation work is even started.

Before we devote some time to the DishPointer Maps application, we wanted to take a closer look at the DishPointer Augmented Reality Pro application.

DishPointer Augmented Reality Pro Application

Augmented Reality is a technology that Apple first introduced into their iPhone operating system with the version 3.0. It has to do with a


15.0W
24.5W
27.5W
34.5W
43.0W
Lon: 15.3° Lat: 48.8° Heading: 233.4° (true) -- (mag)
Sat: 30.0°W Elev: 19.4° Skew by: 31.9°
Done

process in which information is blended into the user's field of view. This could, for example, be altitude, speed and direction in the cockpit of an airplane. In the case of the iPhone the integrated camera is used to show an image on top of which additional information is blended in to the current camera image.

With the help of this technology and the new iPhone integrated 3GS compass, it is now possible through the DishPointer application to find out exactly which satellites can be received at a specific location. In this way, for example, it is easy to identify a tree that might be too high and block the field of view of the antenna or if the satellite is above the tree and find out that despite a suspected blockage the satellite can be received.

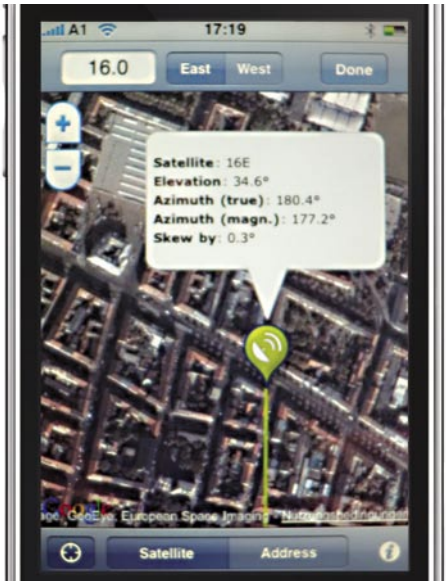
We put this application immediately to the test and were pleased with the results. As soon as the DishPointer Augmented Reality program was started in the iPhone, the user is taken directly to the Main Menu. The first step is to select each satellite that later is to be blended into the camera image. The included list covers nearly every satellite between 180° east and 177° west (including those that instead of satellite signals transmit weather data such as METEOSAT 8 at 9.4° east).

Because there are some orbital slots where a number of satellites are located very close to each other, it makes sense to reduce the size of this list to only those satellites that you are really interested in. If the satellite you want is not in the list, it can easily be added with one touch of the touch screen. The Update button downloads an up-to-date satellite list from the provider's server.

Once all of the necessary satellite entries have been marked, the camera can be started that immediately shows the targeted area in the display. With the help of the GPS receiver in the iPhone, the current location is confirmed while the integrated compass



■ DishPointer Augmented Reality - Display of Useable Satellites



■ DishPointer Maps - Calculation for EUTELSAT W2 at 16° east



■ DishPointer Augmented Reality - Manually Entering a Satellite

in the iPhone 3GS provides information on the direction the user is looking as well as the horizontal positioning of the iPhone.

At this point it is recommended to hold the iPhone in the direction of due south. Simply observe the Status bar in the application. If it shows "Heading 180°", the iPhone is pointing directly south. After only a few seconds needed



■ DishPointer Maps - Hybrid View

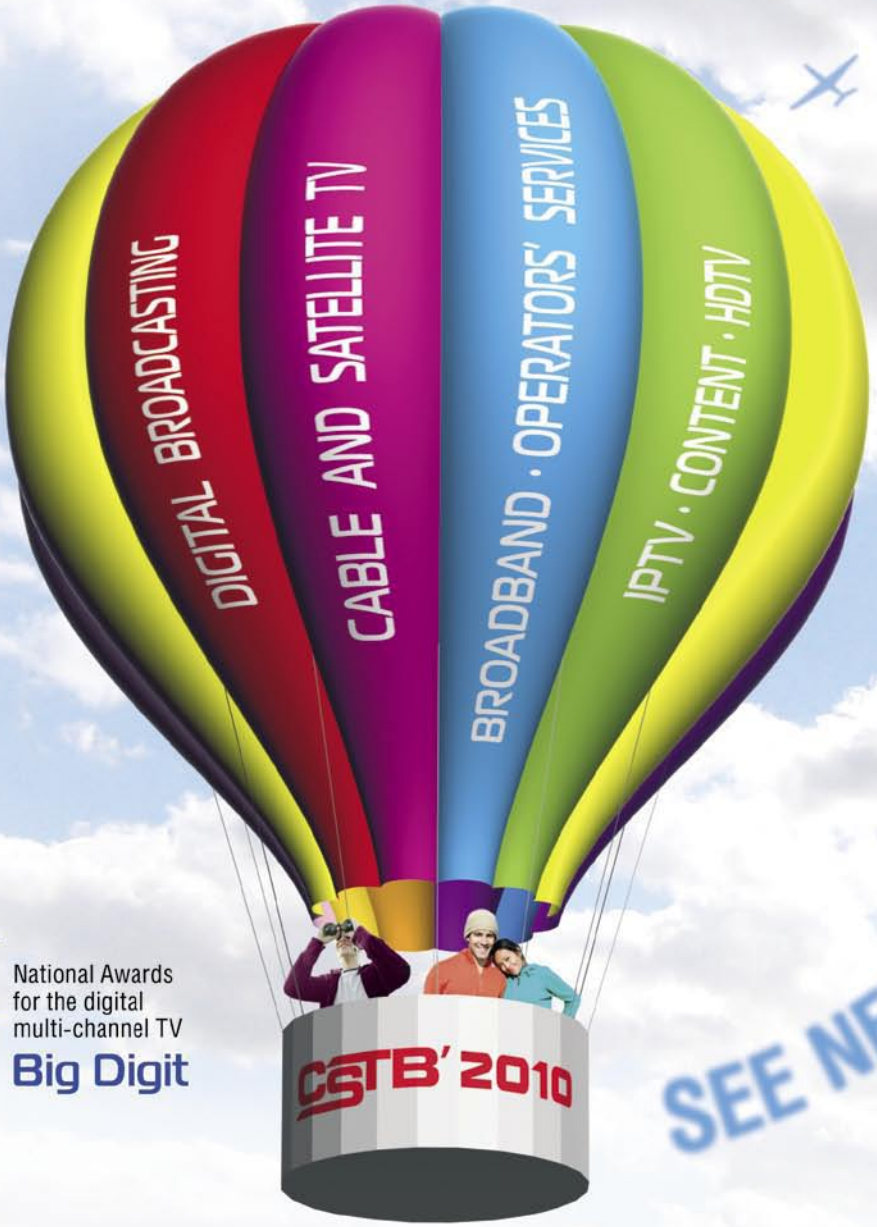
to confirm all the data, the application blends into the display on top of the camera image all of the satellites in this direction that can be received; even the Clarke Belt is graphically displayed.

In this way it can easily be seen if houses, trees or other obstacles would get in the way of reception or if a satellite is below the horizon and can't be received at all. With every vertical or horizontal movement the satellite data and Clarke Belt displayed through the DishPointer application is automatically updated. If a particular satellite has been found by vertically adjusting the position of the iPhone, the compass

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function can be turned off so that the display doesn't change due to any unintentional movement.

The above-mentioned operation only works with the iPhone 3GS since this is the only one with an integrated compass. But if you have an iPhone 3G without a compass, you can still use this application although you would need to manually control the direction of the iPhone using an external compass or a previously installed satellite antenna and enter these values manually into the DishPointer application.

In our tests, the DishPointer application functioned perfectly, displayed correct values and became a guide that we could not do without. And it's not even just the experienced end users that would miss it, but it's also an invaluable installation aid for professional installers. How often do you have only a few minutes to make a decision on whether a specific satellite can or cannot be received because of local conditions?

The DishPointer Augmented Reality application provides invaluable services. The DishPointer application is available in the iTunes store in a Pro version and a standard version. According to the manufacturer, the only difference between the two versions is that new satellites can be manually added in the new version whereas in the standard version you have to wait for the next manufacturer's update. The Pro version also gets the nod when new features are developed.

The second DishPointer application carries the name DishPointer Maps and has to do with the incorporation of the same calculation functions found on the www.dishpointer.com website into the iPhone.

DishPointer Maps

What thousands of professional installers and nearly every satellite uplink truck have been using to quickly align an antenna, can now also be used by a mass of satellite enthusiasts for very little money via an iPhone. Since a PC is no longer necessary to control the application and since all of the calculations as well as all of the familiar website features have been integrated, DishPointer Maps is extremely user friendly and flexible.

Immediately after starting the application, the current location is confirmed using a GPS signal, UMTS/GPRS Internet connection or WLAN and shown on Google Maps. Next you simply enter in the position of the desired satellite in the upper edge of the application and the correct values for azimuth, elevation and skew are automatically calculated. A thick green line is also displayed showing the approximate alignment direction of the antenna. As we have come to expect from Google Maps, it is possible to zoom in or out of the image for clarification if necessary. In the blink of an eye, the correct parameters can be set up for the antenna and with the help of the display, the correct position can be found in just a short time.

If for some reason the automatic location function doesn't work, the current address can be manually entered by the user. For a better overview, all of the map styles from Google Maps are available (satellite, street maps and hybrid view). If the position of the antenna should move slightly, the marker on the blended-in map can easily be moved to a different position with a finger on the touch screen.

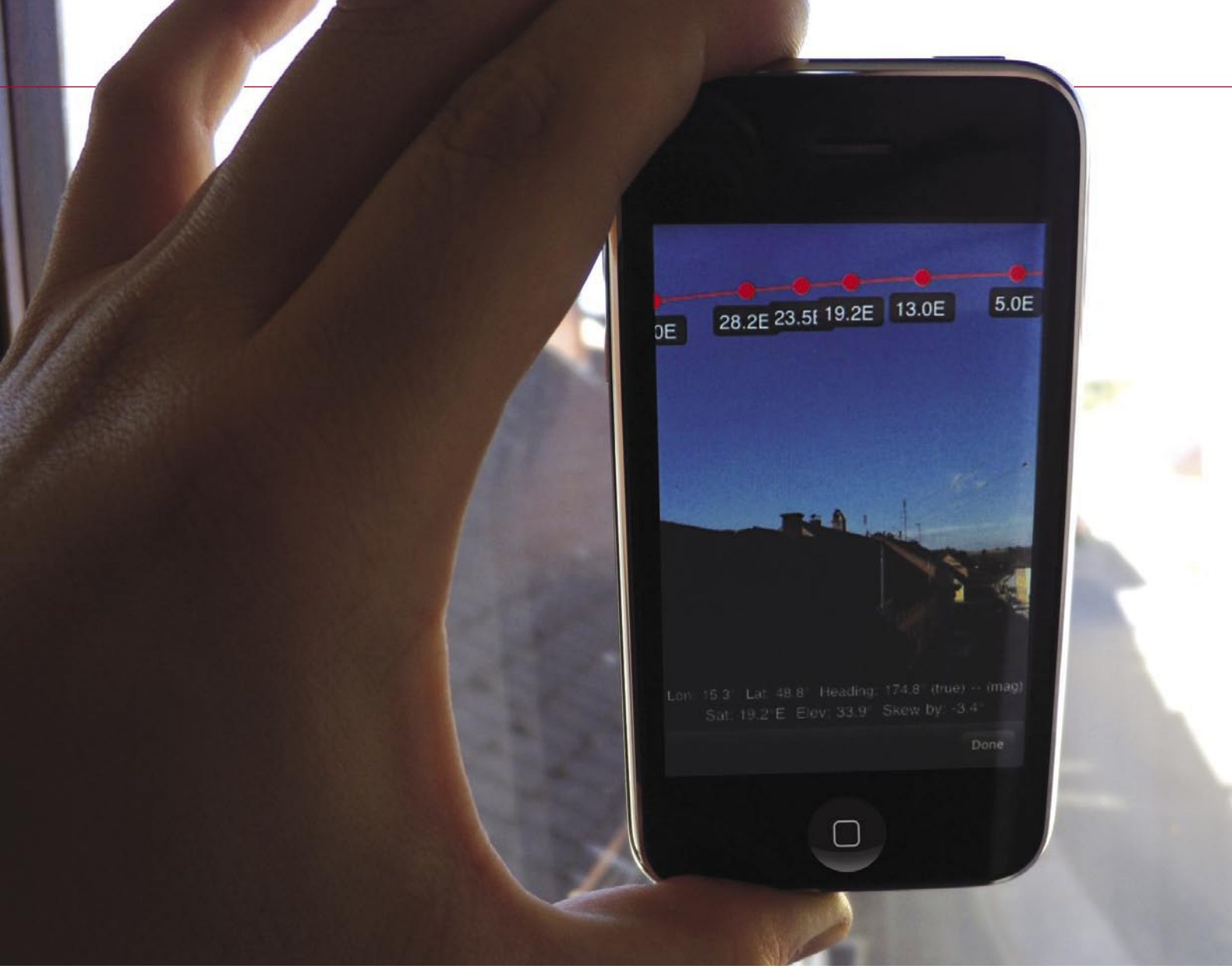
This application also functioned during our tests to our complete satisfaction. Especially surprising was the fact that the application managed to calculate all of the necessary values faster than the website in a browser. Just keep in mind that for these calculations the iPhone needs to have an active Internet connection via UMTS/GPRS or WLAN.

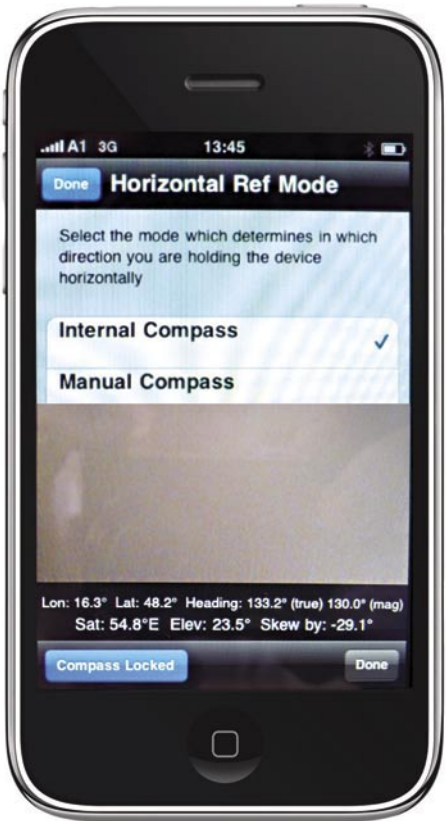
Putting it All Together

With both the DishPointer Maps and DishPointer Augmented Reality applications Alan managed to bridge the gap between professional test equipment costing thousands of dollars and all the unbelievable possibilities that the Internet and the Google Maps services have to offer. Both applications are not only an invaluable installation aid for installers but should also be added to the iPhone of every hobby DXer. We had a lot of fun testing both of these applications and Alan told us that quite a few satellite friends invested in an iPhone based solely on these two applications.

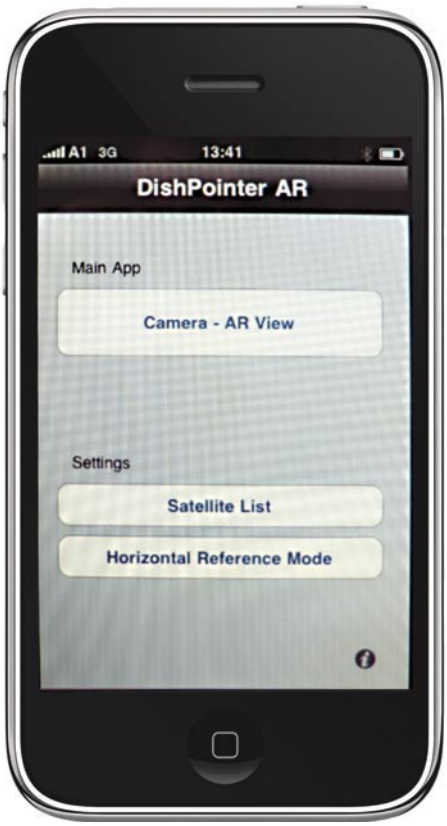


DishPointer Augmented Reality - Satellite List

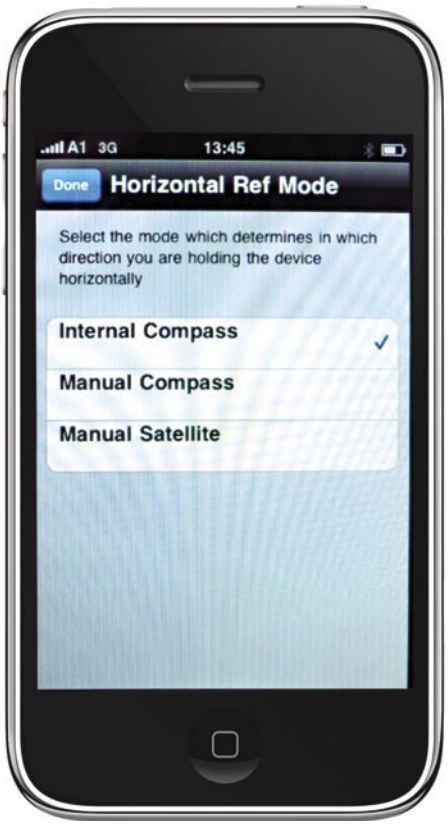




■ DishPointer Augmented Reality - Status Bar



■ DishPointer Augmented Reality - Main Menu

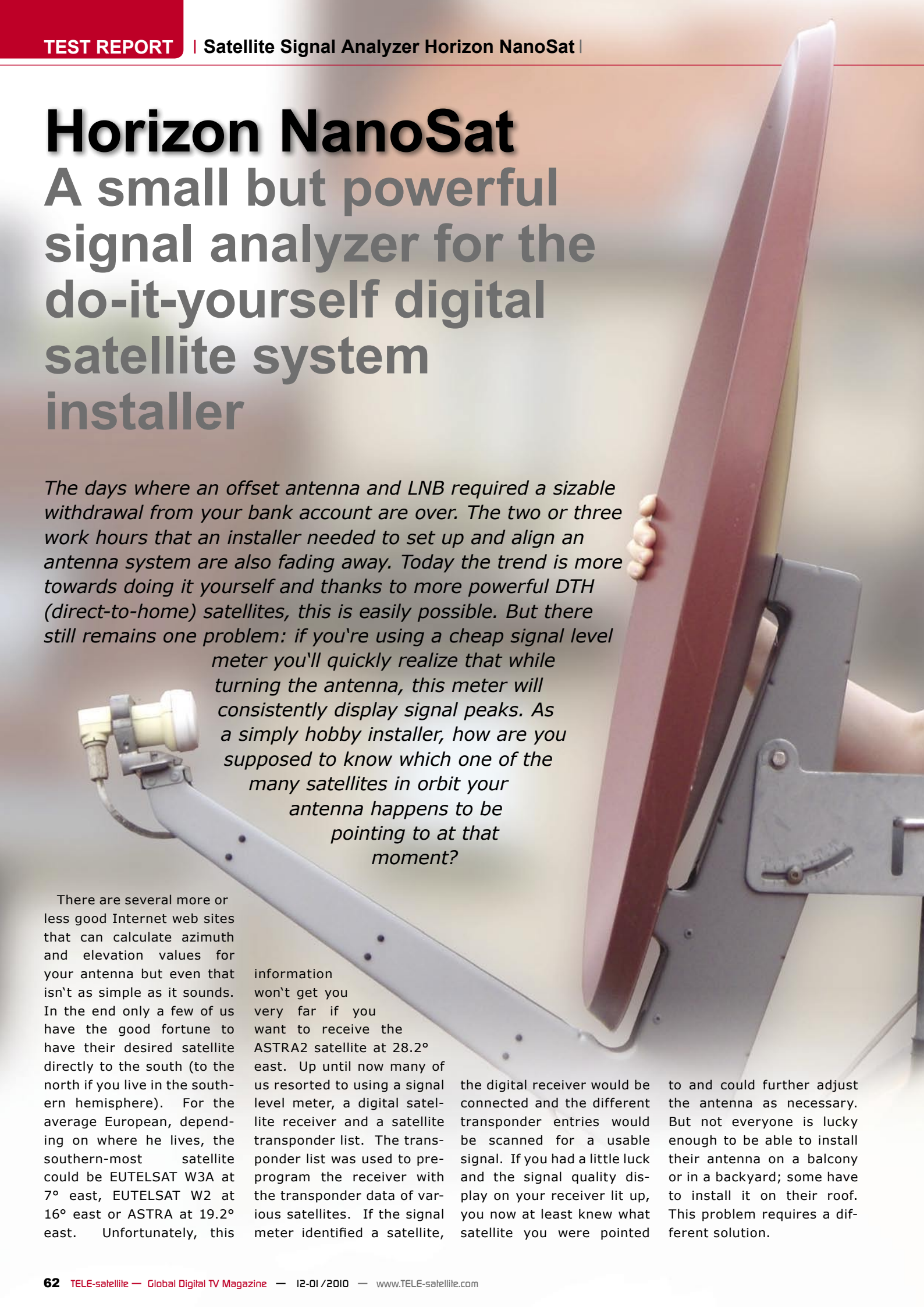


■ DishPointer Augmented Reality - Compass Mode Selection

Horizon NanoSat

A small but powerful signal analyzer for the do-it-yourself digital satellite system installer

The days where an offset antenna and LNB required a sizable withdrawal from your bank account are over. The two or three work hours that an installer needed to set up and align an antenna system are also fading away. Today the trend is more towards doing it yourself and thanks to more powerful DTH (direct-to-home) satellites, this is easily possible. But there still remains one problem: if you're using a cheap signal level meter you'll quickly realize that while turning the antenna, this meter will consistently display signal peaks. As a simply hobby installer, how are you supposed to know which one of the many satellites in orbit your antenna happens to be pointing to at that moment?



There are several more or less good Internet web sites that can calculate azimuth and elevation values for your antenna but even that isn't as simple as it sounds. In the end only a few of us have the good fortune to have their desired satellite directly to the south (to the north if you live in the southern hemisphere). For the average European, depending on where he lives, the southern-most satellite could be EUTELSAT W3A at 7° east, EUTELSAT W2 at 16° east or ASTRA at 19.2° east. Unfortunately, this information won't get you very far if you want to receive the ASTRA2 satellite at 28.2° east. Up until now many of us resorted to using a signal level meter, a digital satellite receiver and a satellite transponder list. The transponder list was used to pre-program the receiver with the transponder data of various satellites. If the signal meter identified a satellite, the digital receiver would be connected and the different transponder entries would be scanned for a usable signal. If you had a little luck and the signal quality display on your receiver lit up, you now at least knew what satellite you were pointed to and could further adjust the antenna as necessary. But not everyone is lucky enough to be able to install their antenna on a balcony or in a backyard; some have to install it on their roof. This problem requires a different solution.

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TELE-satellite Test Editor Thomas Haring adjusting a 90cm offset dish using the NanoSat

Naturally, there are an assortment of professional signal analyzers on the market such as those we have here in our test facility, but would a normal end-user who needs to do a one-time antenna alignment spend the money on such an analyzer that could cost as much as a small used car? That's doubtful, and if he did, then he could also afford to have a professional installer do the work for him. Even an enthusiastic RV'er would balk at such a large investment; he would find other means to

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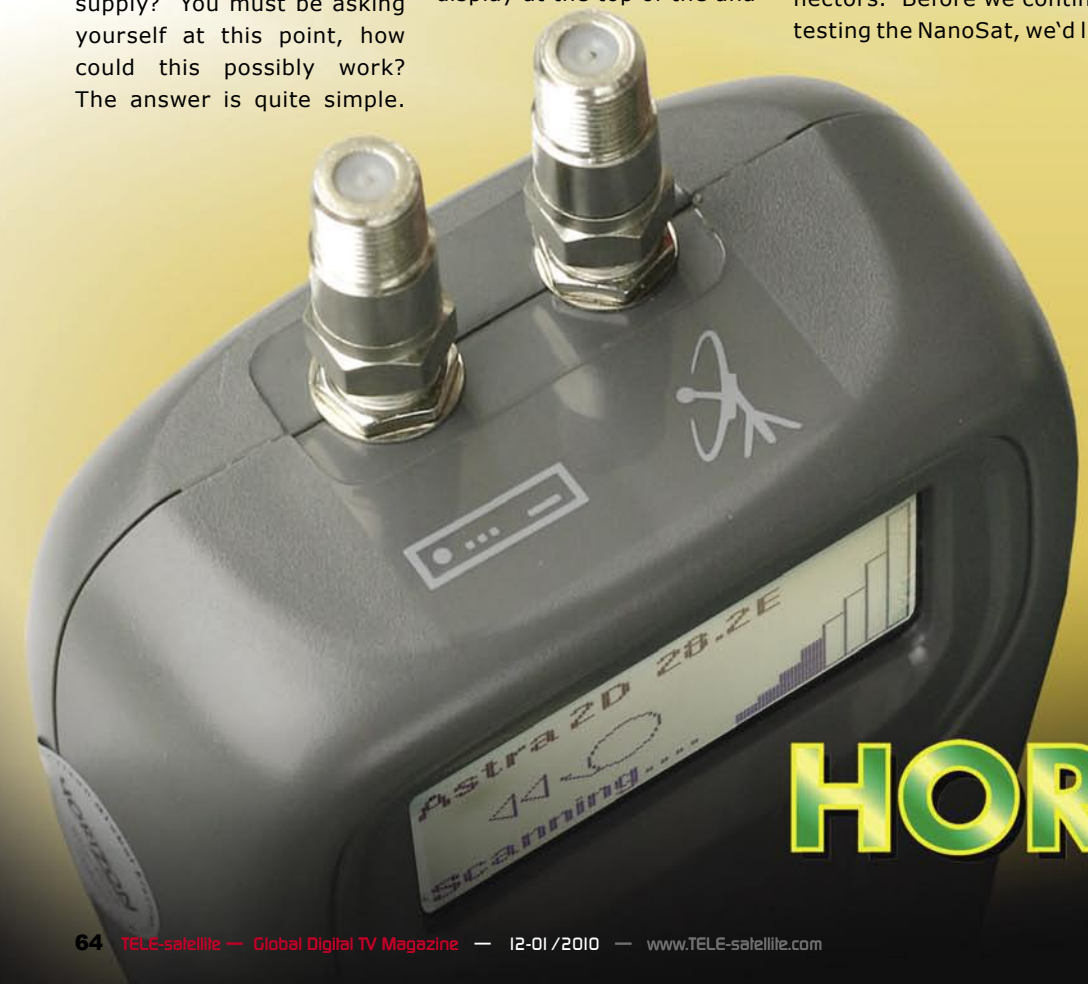
align his RV satellite antenna to his desired satellite. If you look at a professional signal analyzer a little closer, you'd quickly notice that it operates through dozens of functions that are more geared for the professional user but are otherwise not really needed when aligning to a DTH satellite. The British company Horizon, familiar to our readers for its innovative line of signal analyzer products, recognized this problem and designed a completely new signal analyzer. Its basic requirements were simple: it must be extremely easy to use, it must support the end-user as best as possible while installing an antenna and it has to be affordable. The end result was the NanoSat.

Everyday Use

The NanoSat is a lightweight device and at 14x9x4cm is not all that big. It's a featherweight at 230g thanks in large part to the absence of an integrated power supply. No power supply? You must be asking yourself at this point, how could this possibly work? The answer is quite simple. If you're installing a satellite antenna, you would also be running a cable from the receiver to the LNB.

Horizon was very clever here: the NanoSat is installed between the LNB and receiver inline with the coax cable. The cable from the receiver is connected to one of the F-connectors on the NanoSat while the coax cable included in the NanoSat package is connected to the second F-connector on the NanoSat and routed to the LNB. The receiver is then turned on, thus supplying power to the NanoSat via the coax cable. The selected channel doesn't matter; the NanoSat can work with either 13V or 18V.

You won't find an assortment of buttons providing access to a multitude of features or operational modes, and wouldn't you know it, you really don't need them! What you will find is an easy-to-read 128x64 pixel LCD display at the top of the analyzer and one single large button to select the desired satellite. The entire unit is protected in a very practical pouch that can be kept on the analyzer since there are cutouts for the display, the button and the connections. A detailed user manual is also included that clearly and precisely describes the functions of this new Horizon signal analyzer. And to make sure that the end-user wastes no time in getting to work, Horizon also included a satellite IF cable as well as a USB cable in the package. Also very practical are the two protection plugs to help prevent damage to the connectors. Before we continue testing the NanoSat, we'd like to first highlight some of its functional capabilities. The NanoSat comes with internal memory with the capacity to store transponder data from up to four satellites. The NanoSat came delivered to us with the data from ASTRA 19.2° east, HOTBIRD 13° east, ASTRA2A 28.2° east and ASTRA2D 28.2° east already pre-installed. The NanoSat consistently scans for active signals from one of these four satellites. If it recognizes one of these satellites, it first displays arrows to indicate the direction to the desired satellite, that is, whether the antenna needs to be turned to the east or to the west. The number of arrows shown indicates how far the antenna is from the desired satellite; four arrows represents the furthest distance, three arrows is closer, two arrows is very close and one arrow suggests the antenna is nearly on top of the desired satellite. Once the antenna is aligned with the proper satellite, an audio tone can be heard allowing the fine-tuning of the antenna. On the right side of the screen are signal bar graphs; the higher the bar graph, the better the received signal. If the signal strength is as high as it will go, that is, the

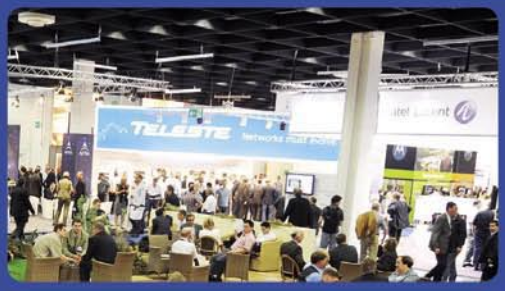


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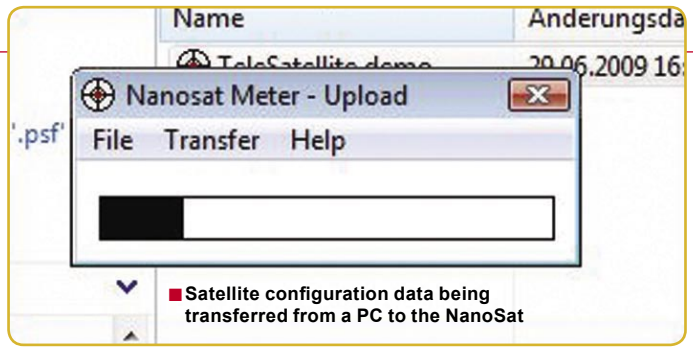




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Satellite configuration data being transferred from a PC to the NanoSat

bar graph display can't go any higher, simply tighten the screws and your antenna is perfectly aligned.

For our tests we used a Kathrein CAS90 90cm offset antenna. Not much effort was needed to connect the signal analyzer to the LNB and receiver. We loosened several mounting screws and started adjusting the antenna. It was quite clear that for us here in Vienna the southernmost satellite was Eutelsat W2 at 16° east and that we could very easily find the very popular ASTRA 19.2° east. But we wanted to approach this task as would a beginner and began to adjust the antenna arbitrarily.

We set up ASTRA 19.2° east on the signal analyzer as the desired satellite and then started to move the antenna. The user manual recommended adjusting the elevation setting to roughly 5-10° below what the actual antenna elevation angle should be. We then began moving the antenna from east to west or vice versa. After each movement from one side to the other, the elevation was slightly raised and the antenna movement repeated. To our surprise, the NanoSat meter using this method showed quite clearly that we had passed HOTBIRD 13° east and that we had to move the antenna to the east to find ASTRA 19.2°.

The displayed arrows were quite helpful and over just a short period of time fewer and fewer arrows were shown until the audio tone came on indicating we had found ASTRA 19.2° east. We quickly fine-tuned the antenna and discovered something very interesting: Even though ASTRA is a very strong satellite and we used an antenna with sufficient gain, we were not able to achieve a full-scale reading on the signal quality bar graph. There's a very good reason for this: Horizon has no idea what size antenna will be used with their NanoSat meter so if it gave a full-scale display above a certain MER, then with a larger antenna it would be nearly impossible to find the optimal antenna position. Instead, the NanoSat adjusts itself based on the measured MER and the signal level and reduces the signal quality display correspondingly. So the goal when tuning the antenna is not to get a full-scale reading on the meter but to get the highest possible reading and adjust the antenna accordingly.

The user manual also describes the fine adjustment of the antenna very clearly. As soon as the correct satellite is identified, the user is instructed to move the antenna just far enough to the east and west until the signal is lost. The point in between these east and west limits is the optimal azimuth setting. The same procedure is used for elevation and LNB skew.

After this first triumph, we wanted to make sure and try it again. This time we switched the NanoSat to the ASTRA2A 28.2° east position and managed to also find this satellite in no time at all. It became clear that even a professional signal analyzer used in this special application would not do much better for us. We adjusted the antenna in both cases with a professional signal meter and could not noticeably improve the signal.

Naturally, the next question that comes to mind is this: what if a user outside of Europe wants to use the NanoSat or what if someone wants to align their antenna to some other satellite? Horizon included a USB interface in the Nanosat exactly for this reason. With the help of the included USB cable, the NanoSat can be linked with a PC. Software containing configuration data from various regions can be downloaded from the manufacturer's website. By the time the NanoSat is introduced to the market, preprogrammed settings for the Americas, Asia, Australia, Africa, etc. will be available. Also being worked on is configuration data for other popular European satellites such as TURKSAT 42° east, THOR 1° west, SIRIUS 5° east or EUTELSAT W3A 7° east. Thanks to the USB interface, the NanoSat can be used anywhere in the world and can be reprogrammed by the user as often as needed.

We here at TELE-satellite were quite impressed with Horizon's NanoSat. It is small, handy and simplifies the alignment of a satellite antenna for beginners as well as for professionals. It is also perfect for use in aligning RV antennas. It was never this easy to quickly and precisely align a satellite antenna!

Expert Opinion



\+

Small, handy, completely reliable and easily expandable thanks to the USB interface. Measurements were correct and even with a professional signal meter there was no noticeable improvement in the signal. Its lightweight 230g made it especially easy to handle.

Thomas Haring
TELE-satellite
Test Center
Austria

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None

TECHNICAL DATA

Manufacturer	Horizon Global Electronics Ltd., Unit 3, West Side Flex Meadow Harlow, Essex, CM19 5SR, United Kingdom
Tel	+44 (0) 1279 417005
Fax	+44 (0) 1279 417025
Web	www.horizonhge.com
Email	sales@horizonhge.com
Model	NanoSat
Function	Handheld Satellite Meter for fast and easy Dish Alignment
Frequency range	950~2150 MHz
Reception Mode	DVB-S
Items included	Carry case, USB cable, Sat-IF cable, 2 protective barrels, Satellite region packs download via Internet
Dimensions	140x90x40mm
Weight	0.23kg
Display	128x64 Pixel LCD

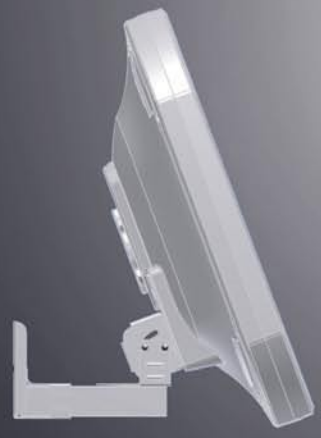


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Gain	34 dBi(at 12.4 Ghz)	37 dBi(at 12.2 Ghz)
Cross Polarization	<-30dB	<-30dB
Beam width at -3dB	4.5 degree	2.7 degree
LNB LO Frequency	All LO	Same as left
LNB Noise Figure	0.5 dB(Max)	Same as left
LNB Conversion Gain	60~65 dB	Same as left
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Optional Remote Control
Software Limit Protection
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www.TELE-satellite.com/TELE-satellite-0811/eng/spaun.pdf

MFC

Satellite Filter Manufacturer, USA



www.TELE-satellite.com/TELE-satellite-0903/eng/mfc.pdf

PROMAX

Digital Powerhouse, Spain



www.TELE-satellite.com/TELE-satellite-0909/eng/promax.pdf

SUBUR SEMESTA

Satellite Dish Manufacturer, Indonesia



www.TELE-satellite.com/TELE-satellite-0805/eng/venus.pdf

MOTECK

Antenna Motor Manufacturer, Taiwan



www.TELE-satellite.com/TELE-satellite-0707/eng/moteck.pdf

SEA TEL

Maritime 3-Axis Dish Manufacturer, USA



www.TELE-satellite.com/TELE-satellite-0911/eng/seatel.pdf

TOPFIELD

High-End Receiver Manufacturer, Korea



www.TELE-satellite.com/TELE-satellite-0905/eng/topfield.pdf

MTI

LNB Manufacturer, Taiwan



www.TELE-satellite.com/TELE-satellite-0707/eng/mti.pdf

SMARTWI

Wireless Card Reader Producer, Denmark



www.TELE-satellite.com/TELE-satellite-0707/eng/smartwi.pdf

VIEWSAT

Satellite Receiver Manufacturer, USA



www.TELE-satellite.com/TELE-satellite-0911/eng/viewsat.pdf

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AZBOX's Quick Ascent

AZBOX, founded in 2005, really came out running right from the gate. The truth is, it's actually faster than that since AZBOX has only been a manufacturer of satellite receivers since 2007; for 2010 they expect sales of 100,000 HD receivers. We wanted to get a better understanding of this success story so we decided to make our way to northern Portugal in Mazedo's industrial zone in the Monção district. One kilometer further north and we would be in Spain.

Hugo Condessa is the company's CEO. We met up with him in one of the street cafes in Mazedo's old city where he explained how it all began over a cup of coffee. Hugo is a satellite enthusiast. "I started as a satellite DXer when digital TV appeared", remembers Hugo as he thinks back to when it all started 10 years ago. Back then he only spent money on receivers. "I bought a new receiver roughly every three



OPENSAT, manufacturer of the AZBOX line of receivers, only moved into this building two years ago. It can be found in Mazedo in northern Portugal and is 1100 Sq-m in size.

AZBOX



Hugo Condessa, OPENSAT Limitada's CEO, in his office. He is manager and technical chief.



Jose-Luis Condesa, OPENSAT Limitada's CFO, with his wife Teresa. They are responsible for the business side of things. He explains how the number of employees expanded: "In 2005 it was just the two of us. In 2006 our first employee joined us and in 2007 we had five employees. In 2008 there were eight and in 2009 we had 22 employees."



■ Marlen Condesa is Manager of logistics. AZBOX uses the shipping company Schenker for product shipments and as their warehouse. She explains to us a little about the sales office in Miami: "We only sell SD boxes in America. In 2009 it was roughly 250,000 boxes of which 35% went to Paraguay, 25% to Uruguay, 20% to Brazil and 20% to the rest of South America." For HD receivers, the situation looks completely different: "HD sales first started in 2009 with 30,000 boxes but for 2010 we are expecting to reach sales of 100,000 receivers. 45% of those HD receiver sales will be in the USA, 20% will go to Brazil with the remaining 35% going to the rest of South America."



■ In AZBOX's office: in the foreground is Alejandra Ortiz, in charge of marketing, and in the background is Rita Reis, responsible for design.



■ Leandro Gonçalves is in charge of nine software engineers. He keeps an eye on their work and progress with the improvement of AZBOX's software. "We are always open to new applications from experienced software engineers with good DVB knowledge." Readers interested in a position with AZBOX can contact him or Hugo directly.



■ Are there any AZBOX software questions? AZBOX's customer service can be reached via the forum at www.azbox.com/forum where questions or problems are answered by Luis Filipe (foreground) and Francis Martin (background). They also look for AZBOX contributions through other Internet forums and thereby gain valuable tips on improving the software.

months; eventually I had about 40 receivers at home."

Someone who is so intensively involved with a hobby at some point will make a business out of it. That was 2005. Together with Jose-Luis Condesa ("only one 's'" comments Hugo Condessa) they used €uro 5000.00 in capital to start the company OPENSAT Limitada. At first it was a satellite dealer: they bought and sold various receiver brands along with all the necessary accessories such as LNBs and dishes. The first two years were actually quite successful for the newly formed company. "We had sales of a half a million Euros in 2005 and this increased to 800,000 Euros in our second year", remembers Hugo.

Soon Hugo began to realize that receiverwise he could do it better all by himself. Thanks to his experience with many different receiver models, he had already identified all the advantages and disadvantages of these models and was also quite familiar with all the different receiver menus. He also thought about it from a commercial point of view: instead of being dependant on manufacturers and their software revisions - or lack thereof, he decided to manufacture receivers himself.

He found the right manufacturer in South Korea - no, not a receiver manufacturer - but rather a fabricator of PCs. "A receiver is nothing more than a PC", explains Hugo. The secret was to find the right components and above all the right software.

Hugo chose a chipset from Sigma to make up the heart of his AZBOX receivers. "The documentation for this chipset is not exactly overwhelming", explains Hugo, "but this chip does everything I need it to do." Regarding chipsets from other manufacturers, Hugo says that although they might be easier to use because of fully developed software, they don't have all the features that he feels are necessary.

Proof that he was right can be seen in the sales figures: in the first year 2007 in which he began selling his own receiver brand, sales climbed to 1.3 million Euros.

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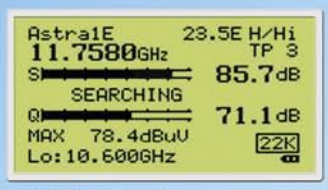
Signal measuring for DVB-S2, DVB-S, DSS

Digital Satellite Analyzer

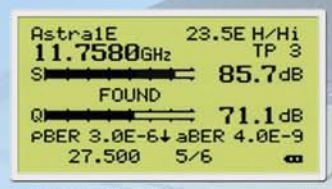
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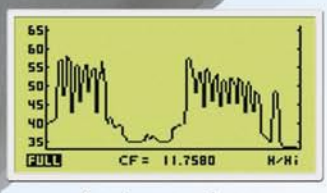
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MER(SNR), BER measurement
(Analog / Digital)



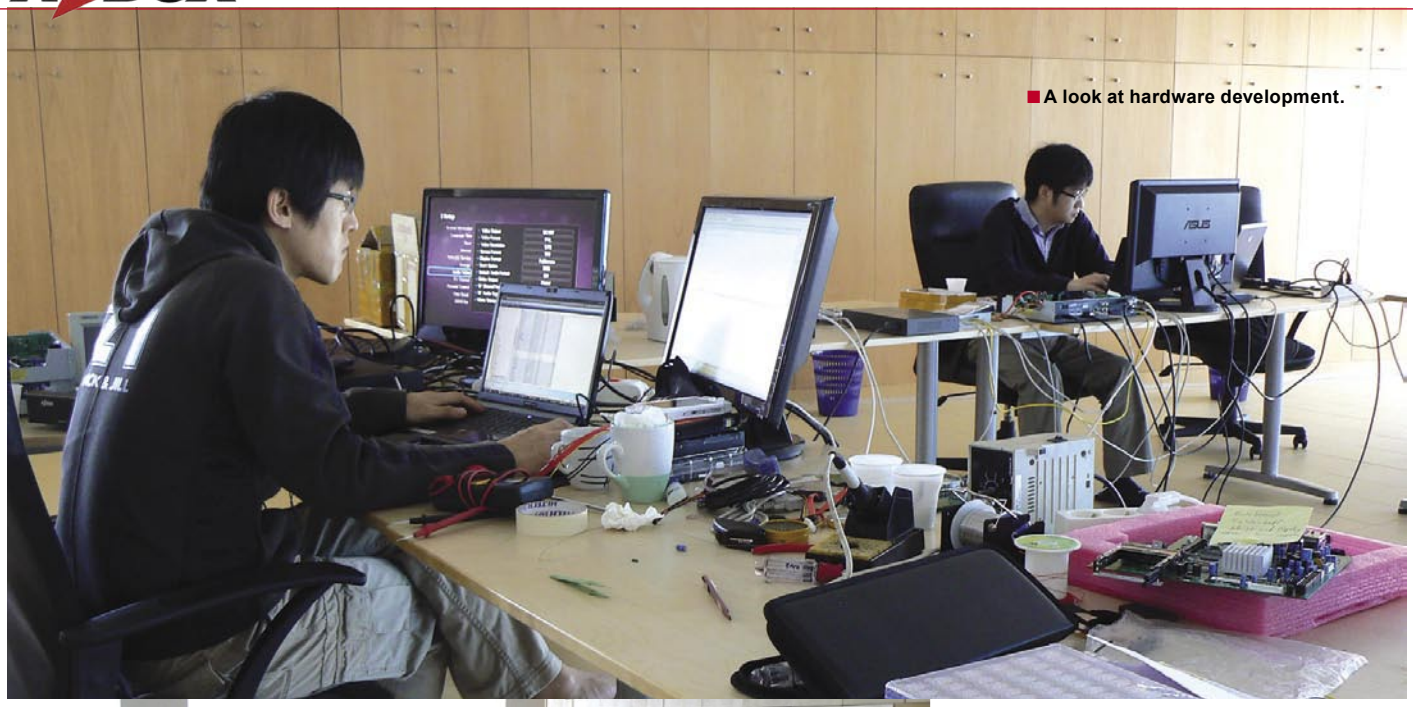
I/Q Constellation Diagram
(QPSK / 8PSK)



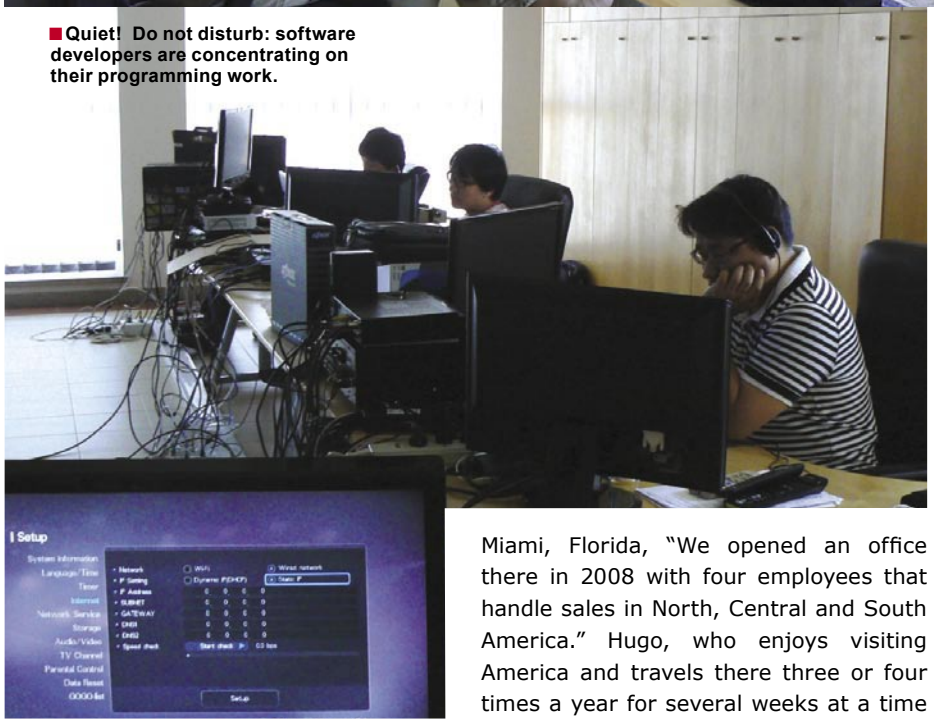
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■ A look at hardware development.



■ Quiet! Do not disturb: software developers are concentrating on their programming work.

In 2008, a year in which he reorganized production, sales slipped only slightly to 1.2 million Euros. But in 2009 sales skyrocketed to 8.0 million Euros thanks to the sale of roughly 55,000 receivers. Hugo is even more optimistic for 2010: "We expect sales to be between 12 and 15 million Euros with a total sale of about 100,000 receivers."

Those are some high-flying numbers but Hugo has come prepared with a simple explanation: "We are dealing here with HD receiver models that are naturally more expensive than SD models." Sure enough, AZBOX only ships HD boxes to Europe. Is it even possible to get SD boxes from AZBOX? "Absolutely", says Hugo referring to the branch office in Miami, Florida, "We opened an office there in 2008 with four employees that handle sales in North, Central and South America." Hugo, who enjoys visiting America and travels there three or four times a year for several weeks at a time to visit customers, points out that "there is still a market for SD receivers in Latin America." Together with his partner Jose-Luis, they are mulling over whether to continue with business as usual there or to concentrate completely on HD models. This is one of those business decisions that doesn't have an easy answer.

So what does the future look like? Are there any plans for future receiver models in the works? Hugo is quite convinced: "Internet TV is on the way!" AZBOX's software development team is extremely focused on integrating Web-TV in the AZBOX receivers. The customer can then enjoy content from everywhere since the tuners for DVB-C, DVB-T (including the American ATSC version) and of course DVB-S as well as DVB-S2 are already available. "We are also working on improving our own AZBOX GoGo programming system", comments Hugo about his future plans, " this will make it even easier to update the internal channel list."

Another AZBOX box highlight would be the DVB-S2 blind scan feature although Hugo concedes that this would be more of a brute-force blind scan method. "A real blind-scan feature for DVB-S2 will probably never exist", says Hugo who has spoken to many tuner manufacturers on this subject, "the market is simply too small." A blind scan compatible receiver must not only handle Auto FEC and Auto SR, it must also be able to deal with Auto-Pilot signal and Auto-modulation. The relatively few satellite DXers that are out there make it too expensive to develop this full blind scan feature. TELE-satellite plans to test the new AZBOX receiver with IP-TV, Arabic menu and soft blind scan in the next issue.

While the technicians are constantly at work improving the software, AZBOX is expanding into new markets. "Currently we are well established in Europe and America", explains Hugo, "but now we want to get our feet wet in the Middle East and in Africa." An important building block for this endeavor will be the completion of the Arabic menu control; it should be completed by the time this issue hits the newsstands. "We are happy when any distributor from these regions gets in touch with us", says Hugo, "Right now we are working together with 20 distributors in Europe, 10 in North America and another 20 in Central and South America."

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AZBOX has more than enough satellite antennas. Hugo Condessa explains to us where each LNB is pointed to. His hand is gesturing to the LNB for 7° east, alongside are the LNBs for 10° east, 13° east and 19.2° east. The dishes are 1.8 meters in diameter. The mast that carries a DVB-T antenna at the top has a 90cm dish pointed to 30° west, below that another 90cm antenna for 9° east and under that a 100cm dish with motor for USALS testing. To the right are two 1.8-meter antennas for 12.5° west and 15° west, as well as 7° west and 5° west plus a 1.5-meter antenna for 1° west. The large 2.4-meter dish to the left is pointing to 28.2° east, 23.5° east and 26° east. In the storeroom Hugo shows us antenna stands for two more 3.0-meter dishes: "One for the Ku-band and the other for the C-band, both will have motors." These dishes will be installed in place by the time this issue is published.



■ **All LNBs are quatro LNBs with high-quality cable used to route the satellite signals to multiswitch distributors inside the building. Every technician's work station is fed with two lines that allows every satellite antenna to be independently accessed at any time. The employees can be seen here marking the individual cable lines with a sticker.**

Hugo reveals to us a very critical point: "Since the start of our company, we haven't lost one single distributor." This sentence translates into this: when there are problems, they are solved and in such a way that both sides are satisfied. That is not only a good, but rather the best pre-requisite for truly long-term cooperation!

The vigor that is displayed by Hugo Condessa, his partner Jose-Luis Condesa and the entire AZBOX team has shown in just a few years how fast it is possible to grow. Continued growth at AZBOX is guaranteed!

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When one, two or three just isn't enough…

With a total of four satellite antennas, four receivers and four TV screens Hakan Kasli from Turkey can truly boast perfect technical equipment. He lives in Antalya, one of the big tourist resorts on Turkey's southern coast.

Hakan goes back to when it all began: "It was in 1997 when I bought my first satellite receiver." The starting point of his DX journey was a Pace MSS200 analog receiver, and "as antenna I used a locally made 120 cm dish with a Sharp single LNB," Hakan continues. It was not too difficult to align this antenna, because "just a year before, in 1996, I had finished my BA degree in physics," explains Hakan, who had attended Middle East Technical University.

Hakan has been a loyal reader of TELE-satellite for ten years now and along his journey he kept expanding his antenna farm so that today he is able to receive all satellites at the same time without having to move a single antenna. "My favourite position is ASTRA at 19.2° East," Hakan reveals, "because it's the satellite with the widest range of entertainment programs." Hakan's plans for the future include an in-depth look at satellite software and the various broadcasting systems for satellites.



Hakan frequently relies on an ABCOM set-top box for satellite reception, while his collection of receivers also features the Topfield TF5200. "Currently I'm looking at adding the Topfield TF7700HDPVR as well," Hakan tells with anticipation about his receiver plans.

Hakan Kasli on the roof of his 4-antenna home in Antalya, southern Turkey.

The World of Satellite DXers

Backlist: DXer reports in previous issues of TELE-satellite

Shalom, Beijing, China:	www.TELE-satellite.com/TELE-satellite-0911/eng/shalom.pdf
Roy Carman, London, UK:	www.TELE-satellite.com/TELE-satellite-0909/eng/londondxer.pdf
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■ Hakan's dishes: The 120 cm antenna in the background is aligned towards ASTRA 19.2° East, the 80 cm dish on the left takes care of HOTBIRD at 13.0° East, the 120 cm antenna on the right looks at TURKSAT at 42.0° East and the 90 cm antenna in front receives signals from NILESAT at 7.0° West.

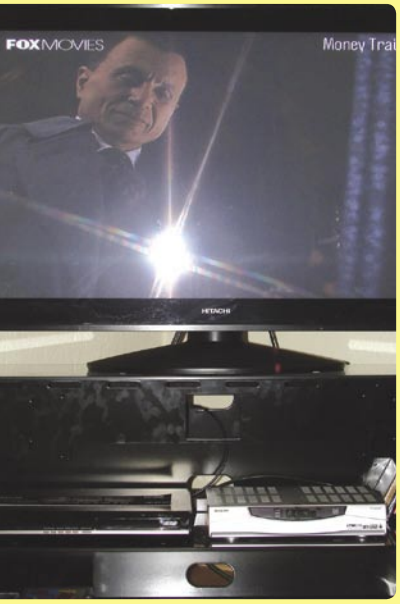
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■ Two SAR 411F switches from SPAUN are used to distribute incoming satellite signals to several TV screens, which include a HITACHI 42PD9700 plasma as well as CRTs such as the PHILIPS 36PW9618, SONY 32NS100B and SONY 29C3D.

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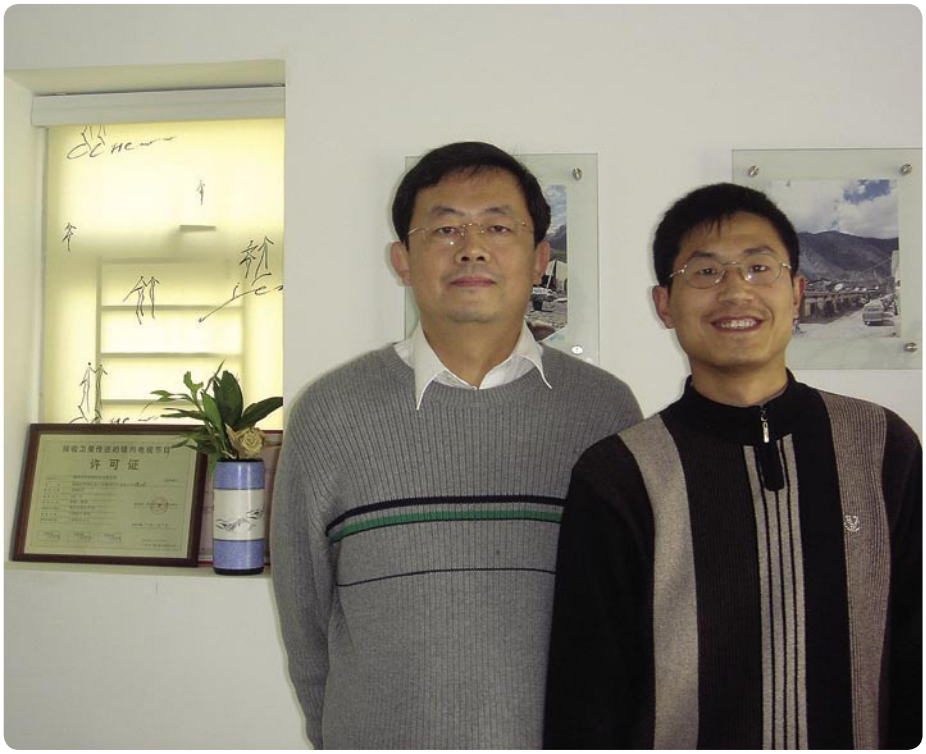
Edited by
Luo Shigang

TRAGIC DEATH OF A SATELLITE DXER AND TELE-SATELLITE TRANSLATOR

In China, August 8 is a memorable date because of the double 8 (a number signifying prosperity) and – above all – because it is the anniversary of the Beijing Olympic games which opened on that day in 2008. Tragically, however, not all is bright on this day and for one man August 8 was the day he drowned while trying to rescue a child that had fallen into the Yellow River. Wang Fend died helping another person. On the Internet Wang Fend was known as “Rock Ke” because he had a strong passion for rock music. Yet, what he loved even more was satellite DXing and translating numerous stories and reports from TELE-satellite. When this piece of tragic news came to our attention we and some other TVRO fans immediately set on a journey to the Shandong province in China to visit Wang Fend’s hometown Juan. Juan is a small and poor place without a railway line or large buildings. Rock Ke’s parents live in a small house at the end of a basic and simple hutong. Rock Ke himself had lived in another, quieter and more secluded hutong, not far from his parents’ place. After we had passed a row of impoverished and dilapidated dwellings and had jumped over a dysfunctional fence Rock Ke’s house came into sight. A door showed the way into the courtyard where three satellite antennas caught our attention right away.
We stood there amazed and shocked at the same time. A man as intelligent as Wang Fend had been living in a place as scarce and run down as that, with an ancient TV set and a primitive stereo system. We realised that Rock Ke had only focused on his hobbies, namely rock music and satellite TV reception. On his table we found a number of satellite magazines which he virtually



Another antenna is set up on the roof
屋顶上的另一个天线



Happier days: Rock Ke (right) visiting Luo Shigang (left) in Shenzhen
曾经快乐的日子 : 摇滚壳 (右) 在深圳拜访罗世刚 (左)



Rock Ke used this ancient dish to hunt for signals
摇滚壳就是用这个天线来捕捉卫星信号



This is where Rock Ke worked on translating TELE-satellite articles before the Chinese edition was published

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罗世刚



卫视发烧友、《国际卫星电视》的 译者不幸去世

8月8日，在中国人的眼中是一个吉祥的日子，因为“双八”的谐音“发”象征着富裕。此外，这一天也恰好是2008北京奥运会一周年的纪念日。但是8月8日，并不意味着都是欢乐，一个悲剧就在这一天发生了。为了营救一名落入黄河的小孩儿，有一个人英勇地牺牲了。他的名字叫王峰，通常我们在网上叫他“摇滚壳”，取这个名字仅仅源于他对摇滚音乐的迷恋和热爱。其实，他更酷爱卫视，他曾经将《国际卫星电视杂志》上很多的故事及报道翻译成了中文。获悉这个令人悲恸的消息，一些发烧友立刻启程来到了王峰的家乡---山东鄄城。鄄城是一个贫困落后的小城镇，没有铁路，也没有大厦。摇滚壳的父母住在一条普通胡同尽头的一所小房子里，他自己则住在离父母不远的另一条幽深僻静的胡同。经过一排矮小破旧的民房以及简陋的篱笆，摇滚壳的家出现在了我们的眼前。穿门进入庭院，三个天线立刻吸引了大家的注意力。同时，我们也十分震惊。一个如此有才华的人竟住在如此简朴的地方，老式的电视机，简单的音响设备。我们明白了，他只全神贯注于他的爱好-----摇滚乐和卫视接收。桌子上仍然放着大量他曾经如饥似渴阅读的杂志，其中当然也包括《国际卫星电视》。书架里塞满了文学名著、字典、音乐磁带和CD。就是用这台过时的



Rock Ke experimented with this cone antenna

摇滚壳曾经用这个喇叭口天线做实验

devoured, among them of course TELE-satellite. Wang Fend's bookshelf was filled to the brim with fine literature, dictionaries, music tapes and CDs. Using a rather out-of-date PC Rock Ke had struggled to translate TELE-satellite reports – even before the Chinese edition had been published. Still today, his existing collection of older TELE-satellite translations makes for rather fascinating reading and you too can access them by going to *http://www.aluo-sat.com/chinese/kekeyiwen.htm*.
Rock Ke has a son who attends primary school in town. A small boy who all of a sudden lost his Dad. Satellite enthusiasts from all over China are mourning this tragic loss. To them, Rock Ke is nothing less than a hero and a role model. Being faced with all this we too decided to offer some help and gave 10.000 RMB (1.000 €uro) to Rock Ke's family. At the same time we initiated a charity campaign, which so far has received some 300 messages of condolence and support via Internet forums and SMS. We have been able to collect numerous additional donations so that a total of 20.000 Yuan has so far been transferred to the bank account of Rock Ke's father. Reader's of TELE-satellite may also support the family of this satellite DXer by making a donation to the following account at the:
Bank of China (HongKong)
A/C#: 03135010285961
Beneficiary: Mr Luo Shigang
Bank Address: Hongkong, 409-415 Hennessy Road, Wan Chai, HongKong
We can assure you that all monies received will be forwarded to Rock Ke's father without any deductions whatsoever. Please, remember to notify us about your donation at: *webmaster@aluo-sat.com*
We have lost a true hero and a real satellite wizard, but we have gained a new star in the sky.
PS: Some pictures from our visit to the family of the late Rock Ke can be seen at:
http://www.asiatvro.com/html/200908/Msg20970.htm

电脑 , 他致力于翻译《国际卫星电视》上的文章。至今 , 你仍然可以通过

http://www.aluo-sat.com/chinese/kekeyiwen.htm

来阅读他精彩的译文。
摇滚壳的儿子在镇上的一所小学读书。这个小男孩突然就失去了父亲。中国各地的卫视发烧友沉痛地哀悼这位朋友的逝世。对于他们来说 , 摇滚壳就是一位英雄和楷模。目睹这一切 , 我们捐了1万元来给这个家庭一点帮助。同时 , 也展开了一场慈善募捐活动。迄今为止 , 通过网络及手机短信 , 我们收到的哀悼信息达到了300多条。此外 , 我们也收到了从各地发来超过了2万元的募捐款 , 并都转寄给了摇滚壳的父亲。
各地的卫视发烧友可以通过以下方式进行募捐 :

Bank of China(Hongkong)
A/C#: 03135010285961
Acount Name: Mr Luo ShiGang
Bank Address: Hongkong

银行地址: 409-415 Hennessy Road Wan Chai, Hong Kong

我们保证所有募捐来的款项将全部转交给摇滚壳的父亲。
我们失去了一个真正的英雄和卫视天才 , 但是 , 天空又多了一颗新星。
附笔 : 这次鄄城之行的图片可以参看 http://www.asiatvro.com/html/200908/Msg20970.htm



Satellite magazines Rock Ke had read recently still piled up on his desk
摇滚壳刚刚读过的《国际卫星电视杂志》仍然摆放在桌子上

中国开播新的高清频道

9月28日 , 中国将开通7个高清频道的传输 : CCTV1、北京卫视、湖南卫视、东方卫视、江苏卫视、黑龙江卫视和深圳卫视。这些高清频道已经通过了中国广电总局的审批 , 高清和标清节目将同步播出。加上先前已播出的四套高清节目 (CCTV HD 4100V, 中星6B ; CHC HD 3740V, 中星6B ; SiTV HD 4129V, 中星6B , BTV HD 地面高清) , 中国的高清电视节目已经达到了11套。这标志着中国的高清电视迈上了新的台阶。

NEW HD CHANNELS IN CHINA

As of 28 September seven new channels have started HDTV transmission: CCTV1, Beijing TV, Hunan TV, Shanghai TV, Jiangsu TV, HeiLongjiang TV and Shenzhen TV. All seven channels are authorised by SARFT (State Administration of Radio, Film and Television) to simulcast in SD and HD. Together with the four already existing HD channels the new entrants bring the Chinese total to eleven HDTV offerings, which opens a new chapter of HDTV in China. The four existing channels are CCTV HD (4.100V on CHINASAT 6B), CHC HD (3.740V on CHINASAT 6B), SiTV HD (4.129V on CHINASAT 6B) and BTV HD (terrestrial).



Rock Ke's reception cabinet
摇滚壳的接收机架

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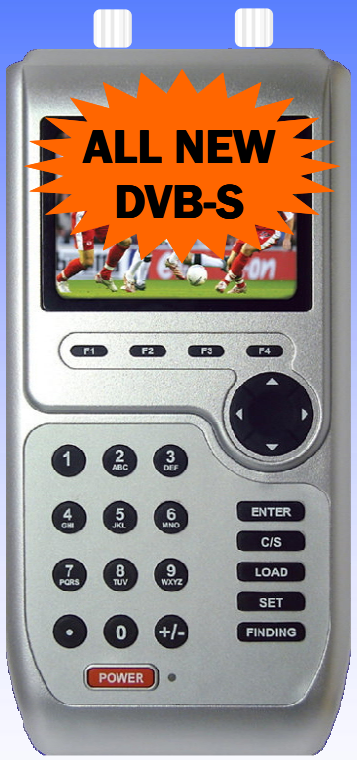
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New Satellites to be launched soon



Edited by
Aleksandar Medic

EUTELSAT W3B

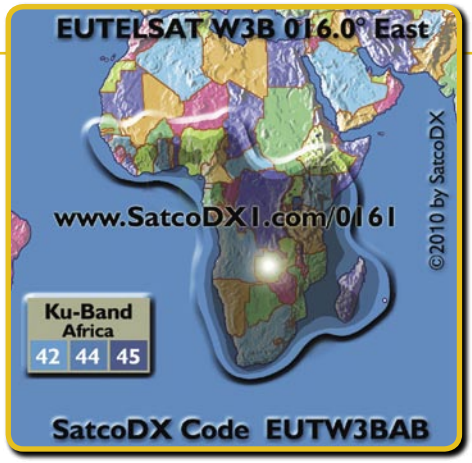
EUTELSAT W3B will replace the EUTELSAT W2 satellite at 16° East, one of the oldest EUTELSAT's orbital positions with satellites continuously in service since 1998. W3B will be dedicated almost exclusively to the thriving Central and Eastern European market while doubling available capacity, from 27 to 56 transponders, 53 in Ku-band and 3 in Ka-band. EUTELSAT ordered this €127 million worth satellite from Thales Alenia Space. It will be based on Spacebus 4000C3 platform and have an operational lifetime of 15 years. EUTELSAT W3 is ITAR-free, which means it contains no U.S.-built components that are subject to the U.S. International Traffic in Arms Regulations. This fact makes it suitable for launch on Chinese Long March 3B vehicle from the Xichang Satellite Launch Center in mainland China. The satellite will give EUTELSAT significant flexibility to satisfy the growing capacity demand and operate a wide range of services, from TV broadcasting to professional data network and broadband access. EUTELSAT W3B will have three key coverage zones, high powered Ku-band coverage of Central and Eastern Europe optimized for DTH reception, wide Ku-beam optimized for professional video links and data transfer and Ku-band coverage of Sub-Saharan Africa and Indian Ocean islands. It will also provide interconnection with Europe through a combination of European Ka-band and African Ku-band frequencies. Launch mass of EUTELSAT W3B will be 5400 kg and it will have end-of-life power of 12 kW. Its width with deployed solar panels will be 34 m.

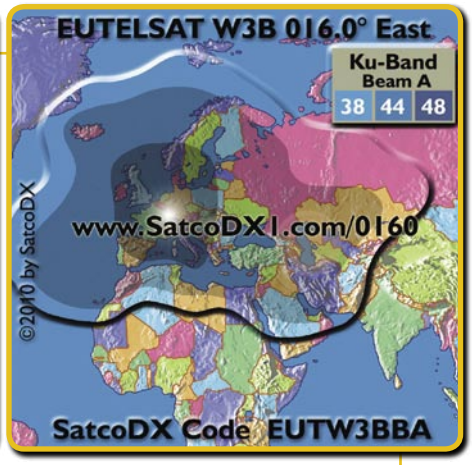
KAZSAT 2

This satellite with 16 active and 4 spare 54 MHz Ku-band transponders has been ordered from Khrunichev State Research and Production Space Center by Kazakhstan's State Agency for Informatization and Communications in 2006. 12 of its active Ku-band transponders will be used for fixed communications, while the remaining 4 will serve for TV-transmissions. This K10K-engine satellite with SPT-70 stationary plasma thrusters will have a launch mass of 1330 kg, payload weight of 215 kg and nominal power of 1.8 kW. Its lifetime is expected to be 12 years and it will primarily be used for telecast, fixed satellite communication and data transmission for Kazakhstan and Central Asia. KAZSAT 2 will be launched into orbit by Proton-M Briz-M vehicle from Russia's Baikonur Cosmodrome in Kazakhstan. Although it will operate on different orbital position than its predecessor, KAZSAT 1, 86.5° East instead of 103.0° East, it will fully replace this satellite that unexpectedly stopped responding to control signals on November 26th, 2008, less than 2 and a half years after its launch. The cost of building and launching KAZSAT 2 is roughly $115 million. The next Kazakhstan's satellite, KAZSAT 3 has already been ordered and its launch is expected by 2013.

AMC-1R

This SES AMERICOM satellite will be a hybrid Ku-band, C-band spacecraft which will carry 24 active C-band and 24 Ku-band transponders of 36 MHz capacity. Six transponders will be cross-strapped, giving customers added flexibility while enabling new service developments and enhancements. This satellite will be positioned at 257° East (103° West), replacing the old AMC-1 satellite. AMC-1R is part of a series of five satellites ordered by SES AMERICOM from Orbital Sciences Corporation. AMERICOM Government Services has been awarded a contract to host an experimental infra-red sensing payload (CHIRP) for the U.S. Air Force on this satellite. This next-generation infrared sensor system is of crucial importance for reducing technology risk for the Third Generation Infrared Surveillance system known as 3GIRS. Star-2.4 Bus based AMC-1R will be launched into orbit on the Zenit-3SLB vehicle called Land Launch. It will have a launch mass of 3170 kg and a lifetime of 15 years.

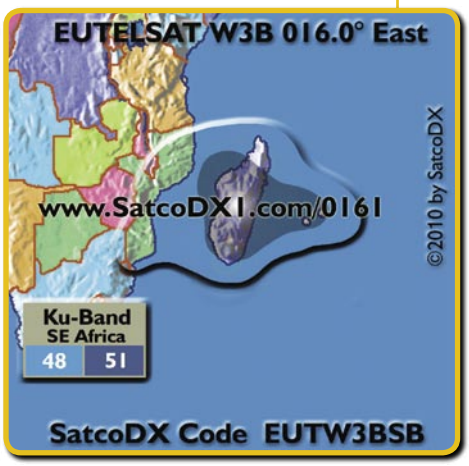
















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Edited by
Branislav Pekic

EUROPE

EUROPE

ILS TO LAUNCH EUTELSAT W7 SATELLITE

Eutelsat has signed a contract with International Launch Services (ILS) for the launch in mid-November 2009 of the W7 satellite on an ILS Proton. Although originally scheduled for launch by Sea Launch, the decision to launch with ILS and Khrunichev was taken on the basis of their commitment to meeting Eutelsat's critical timeframe to launch W7 in mid-November. W7 will be collocated with W4 at 36 degrees East and through a configuration of 70 transponders, the new satellite will provide coverage of Russia, sub-Saharan Africa and central Asia. W7 will also assume all traffic on the SESAT 1 satellite that is currently positioned at 36 degrees East.

EUTELSAT TOPS 100 HDTV CHANNEL MARK

In October, Eutelsat announced that it has broken through the barrier of 100 High-Definition TV channels broadcasting through its video satellites. The 100th channel to take to the skies was Sky Sport 1HD from the Sky Italia pay-TV platform. A total of 42% of the 243 HD satellite channel streams in Europe and the Middle East are broadcast through a Eutelsat satellite. Eutelsat's Hot Bird position accounts for 40% of HD channels broadcast by the Group's satellites. According to Eutelsat's analysis, over 10 million households intend to move into an HD environment over the next year.

ITALY

EUTELSAT, OPENSKY AND DBW LAUNCH 3D GROUP

Italy's OpenSky and DBW Communications have teamed up with Eutelsat to launch the 3D Stereoscopic Group. As part of the project, Eutelsat has been airing experimental content for the past six months on its first tri-dimensional satellite channel, the 3D Sat TV, simoultaneously with the first satellite transmission of live 2D and 3D events in cinemas. The partners have now introduced 3D events in 40 cinemas throughout Italy, which has now the biggest European network of this type.

THE NETHERLANDS

CANAL DIGITAAL TO LAUNCH NEW HD CHANNELS ON ASTRA

SES Astra has signed a long-term contract extension for one transponder with Canal Digitaal for its digital services and the launch of new HD channels at Astra's orbital position 23.5 degrees East. Canal Digitaal thus increases its already large HDTV offering for the Dutch and Flemish DTH market. Canal Digitaal has a total of six transponders on Astra providing services to over 900,000 DTH subscribers.

POLAND

ADB DELIVERS HYBRID HD BOX TO ITI NEOVISION

Advanced Digital Broadcast (ADB) will deliver one of its next-generation hybrid set-top boxes to ITI Neovision to help strengthen its satellite pay-TV service "n". Using the ADB-5720SX, "n" will create a new enhanced consumer TV experience to more than 500,000 subscribers. This will include access to a broader range of channels in high definition, VOD and gaming.

UKRAINE

UKRAINE TO LAUNCH SATELLITE IN 2011

Ukraine will launch the first domestic communications satellite on September 1, 2011 within the framework of implementation of the program for the creation of a national satellite system, says Director General of the National Space Agency Oleksandr Zinchenko. The satellite will have 20 transponders to be leased out to foreign clients. A backup satellite will be launched in 2018. Currently Ukraine uses telecommunication services of foreign satellites Sirius, Astra, Amos, and Hotbird.

NORTH AMERICA

CANADA

ILS PROTON LAUNCHES NIMIQ 5 SATELLITE

International Launch Services (ILS) on September 18 successfully launched the Nimiq 5 satellite into orbit for Telesat. Nimiq 5 is equipped with 32 Ku-band transponders to beam DTH programming and HDTV across North America. Echostar is taking all of the capacity on Nimiq 5.

UNITED STATES

SIRIUS FM-5 SATELLITE PLACED INTO SERVICE

Sirius FM-5, the newest addition to the Sirius XM satellite fleet, was recently placed into service on the Sirius network. The new satellite, which was manufactured by Space Systems/Loral, provides improved signal penetration and reception to millions of Sirius subscribers in North America. The satellite, launched on 30 June, was guided to its final orbit position and has successfully completed all post-launch testing. Its location in a geostationary orbit position at 96 degrees west.

OVATION TV TO LAUNCH HD CHANNEL IN 2010

Arts channel Ovation TV plans to launch a simulcast High-Definition channel in July 2010. The channel offers a mix of programming, including concerts, documentaries and classic foreign films. Ovation executives have expressed hope that the HD edition will be picked by the nation's TV providers.

MORE THAN 70% OF HOUSEHOLDS TO OWN HDTV SETS IN 2009

Renewed consumer spending on HDTVs should push the percentage of HD households to 71% this year, or about 82.3 million U.S. homes, according to a new forecast from SNL Kagan. In comparison, only 16% of U.S. homes owned HDTVs in 2005. The latest projection forecasts the HDTV set market will pick up in the second half of the year and continue advancing into 2010 with total sales this year reaching 29 million units, up 2.8 million from the last year's level. By 2010-2011, mass adoption will take hold and 80-90% of U.S. homes will have HDTVs, said SNL Kagan.

LATIN AMERICA

AMAZONAS 2 LAUNCHED

On October 2, an Ariane 5 ECA launcher launched the Amazonas 2 satellite into geostationary transfer orbits. Amazonas 2 is the fourth satellite to be built by Astrium for Hispasat. This powerful satellite, based on the Eurostar E3000 satellite platform, will increase the Spanish operator's capacity to meet the growing market demand for telecommunication services in Brazil, as well as other parts of the Americas from a geostationary orbit position of 61° West. Amazonas 2 will operate 54 in the Ku band and 10 in the C band.

LATIN AMERICA COULD FACE LACK OF SATELLITE CAPACITY

Although 17 launches of new satellites that will cover by Latin America are planned by 2012, Latin American consultancy Convergência Research believes that this increased offer will not be enough to halt the upward trend in price caused by insufficient capacity. HDTV services, whether on free or pay-TV, are the main factors for the increase in demand for satellite capacity that, according to Convegência Research, will be responsible for raising the price per MHz. The consultancy estimates that HD on broadcast TV accounts for about 5% of capacity used by the TV. For 2014 the expectation is that such participation exceeds 10%.

BOLIVIA

BOLIVIA TO BUY CHINESE SATELLITE

China plans to sell Bolivia a US$ 300 million telecommunications satellite it will build and send into orbit, President Evo Morales announced in October, adding that China might also finance the project. The United Nations pledged to provide Bolivia with technical help on orbital positions and frequency bands. State news agency ABI has reported the government could spend up to US$ 300 million for the satellite.

ASIA & PACIFIC

BBC HD TO LAUNCH IN MIDDLE EAST REGION

BBC Worldwide is to expand its offering to the Middle East with more channels and additional localised content. According to Dean Possenniskie, General Manager and Senior Vice-President Emea BBC Worldwide Channels, BBC HD, the high-definition channel, will be launched in the region, adding that they are just waiting for regional service providers to enhance the technical support. "We already have more than 350 thousand hours of good-quality television programmes in high definition and soon we will add another 50 to 100 thousand hours of high-definition programming," said Possenniskie.

AUSTRALIA

FOXTEL TO INTRODUCE 15 HDTV CHANNELS

Foxtel has rolled out new channels and services under the moniker Foxtel Next Generation. The key new technology is the Foxtel Download service, the operator's version of the BBC's iPlayer, which allows subscribers PC access to 38 channels and over 400 hours of TV and movie programming to download also free of charge. In addition, 12 new standard definition and 15 new high definition channels will be introduced, and movie tiers will be expanded from 12 to 18. Foxtel's HD service will include the following channels: UKTV, Fox8 and W, all three Fox Sports channels, Showtime Premiere, Showcase, Showtime Action, Movie One and Starpics.

AZERBAIJAN

AZERBAIJAN STARTS WORK ON FIRST SATELLITE

Construction of Azerbaijan's first communications satellite, Azerspace, began in September, in order to be launched in orbit by late 2010/early 2011. The satellite will likely be launched from Baikonur Cosmodrome in Kazakhstan. Orbital Sciences Corp took the first place in the tender and the plans call for the launching of two satellites (in 2011 and 2012) at a cost of up to US$ 170 million. Azerbaijan intends to use about

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25% of resources of the satellite, and the rest will be offered to operators in other countries.

CHINA

CHINA LAUNCHES NINE HD CHANNELS

Nine state-owned television channels in China in September started broadcasting free-to-air in both HD and standard-definition. They include CCTV-1, Beijing TV, Shanghai Dragon TV, Hunan TV, Heilongjiang TV, Jiangsu TV, Zhejiang TV, Guangdong TV and Shenzhen TV. There were previously three HDTV channels in operation, CCTV-HD, New Vision HD and CHC HD. Both New Vision HD and CHC HD Film charge subscription fees and are exempt from the requirement for free-to-air transmission. The nine new channels will bring the total number of HD TVs in China to 12.

CHINA TO GET FOURTH SATELLITE LAUNCHING COMPLEX

The Hainan satellite launching complex project was initiated in Wenchang, Hainan province, indicating China is entering a new stage in building environmentally-friendly space-launching sites. The launching complex was approved by the State Council and the CPC central military committee in 2007 to launch large non-toxic and pollution-free rockets. It should be completed and put into operation in 2013. This is the fourth launching site in China, along with three sites in Jiuquan, Taiyuan and Xichang.

THALES ALENIA SPACE TO BUILD APSTAR 7

Thales Alenia Space signed a contract with China's APT Satellite to design, manufacture and deliver Apstar 7, a high-capacity telecommunication satellite. Apstar 7, based on Thales Alenia Space's Spacebus 4000 C2 platform, will provide broadcasting and telecommunications services over the Asia-Pacific region, Africa, the Middle East and a part of Europe. The spacecraft will be equipped with 28 C-band and 28 Ku-band transponders. Launch is scheduled for the 2012 first quarter, and Apstar 7 will replace Apstar 2R at 76.5 degrees East.

INDONESIA

PALAPA D REACHES ORBIT

The Palapa D satellite entered geostationary orbit in September, despite an ignition failure on the rocket that carried the satellite. The satellite had conducted a number of orbit manoeuvres in order to get into the right orbit, and was in normal state, according to ThalesAlenia Space. The Palapa D satellite, owned by Indonesian satellite communications company Indosat, was supposed to provide satellite links and broadcasting services for Indonesia and other south-eastern Asian nations.

LAOS

CHINA TO BUILD AND LAUNCH SATELLITE FOR LAOS

China will build and launch a communications satellite for Laos, following similar ventures for Nigeria and Venezuela. China will also build a satellite control centre. The Dongfang Hong (The East is Red) model satellite would be launched by a Long March rocket. No date was given for the launch.

MALAYSIA

ASTRO TO INVEST IN HDTV

Astro All Asia Networks chief executive officer Rohana Rozhan announced that the group would invest an additional RM 200 million, including RM 100 million in capital in the current financial year to deliver the broadcast of HDTV to retain its market leadership in Malaysia. For the quarter ended July 31, Astro gained 53,000 net subscribers and 154,000 gross additions, bringing its penetration of TV households in Malaysia to 47%.

PAKISTAN

CHINA TO PROVIDE REPLACEMENT SATELLITE

Pakistan and China in October signed a US$ 220 million financial agreement to launch a communication satellite, as the existing satellite, Paksat-1, will complete its operational life in November 2011. The Space and Upper Atmosphere Research Organisation (SUPARCO) and the China Great Wall Industry Corporation had agreed to develop the new satellite Paksat-1R. China has agreed to fund the project through a soft loan with low mark up for a period of 20 years. It will have 30 transponders, 18 in the Ku-band and 12 in C-band.

SINGAPORE

INTEGRAL SYSTEMS TO PROVIDE GROUND SYSTEMS FOR ST-2

Integral Systems will provide satellite ground systems for the ST-2 telecommunications satellite. Financial details of the contract were not disclosed. Singapore Telecommunications (SingTel) and Taiwan's Chunghwa Telecom Company (Chunghwa Telecom) formed a joint venture to build the ST-2 satellite.

THAILAND

THAICOM PROPOSES USING US SATELLITE AS REPLACEMENT

Thaicom wants to bid for an in-orbit American satellite to replace Thaicom 2, which will be retired in 2010. The Information and Communications Technology (ICT) Ministry is studying the request from the country's sole satellite operator, said Nimit Damrongrat, an adviser to the ICT minister. He said officials would have to review the company's concession agreement to determine whether it allows the purchase of an existing satellite to replace one

that is going to expire. The unnamed owner of the satellite Thaicom wants to buy is reportedly facing financial problems. An industry source added the unit was not functioning well in its current orbital slot because of interference from other satellites.

UNITED ARAB EMIRATES

YAHSAT AWARDS CONTRACT TO VIASAT

Abu Dhabi-based satellite operator Yahsat has agreed a US$ 46 million deal with digital communications equipment manufacturer ViaSat. The contract will see ViaSat supply operations and maintenance for the YahClick satellite broadband service as well as the installation of four broadband gateways and a network control centre. YahClick will provide broadband services in parts of the MENA region where fixed line access is not possible. The service is scheduled for launch in the second half of 2011.

VIETNAM

VIETNAM TO LAUNCH SECOND SATELLITE BY 2012

Vietnam's second satellite, Vinasat 2, will be sent into orbit by 2012 with an estimated cost of US$ 290-350 million, according to the Ministry of Information and Communications. The country's first satellite, Vinasat 1, was launched in April last year. Only one year after the satellite was put into operation, up to 70% of Vinasat 1's capacity has been registered for use and it is expected that by 2010, its entire capacity will be leased out, according to the Vietnam Posts and Telecoms Group.

AFRICA

EGYPT

EGYPT PLANS NILESAT 201 SATELLITE

Egypt is planning to launch its third satellite, the NileSat 201, in 2010, with the goal of expanding the already existing channel capacity on the NileSat 101 and 102 satellites. The existing two satellites currently broadcast nearly 300 TV channels. The NileSat 201 will be launched with an Ariane rocket in June 2010, with France's Thales responsible for the construction.

NIGERIA

TIERNAN SELECTED FOR MPEG-4 DELIVERY

International Datacasting Corporation has received orders for its newly acquired Tiernan video and audio lines of products. In Nigeria, Tiernan's AVC4000-HD Professional High Definition AVC Encoders and HMR Multi-format Professional Decoders will be used for the distribution of MPEG-4 HD video from multiple locations across the country. Each site will be able to broadcast digital MPEG-2/MPEG-4 video to any of the other sites in the network and re-distribute that video signal to surrounding locations.

WORLD

SES AMERICOM-NEW SKIES BECOMES SES WORLD SKIES

SES Americom-New Skies has been rebranded as SES World Skies. SES World Skies has an expanding fleet of 25 satellites within the 40-satellite global SES fleet, six additional spacecraft slated for launch over the next two years, 350 employees and more than 550 full-time customers worldwide.

NSS-12 TO LAUNCH ON OCTOBER 29

SES World Skies' NSS-12 spacecraft, manufactured by Space Systems/Loral, will be launched onboard an Ariane 5 booster, scheduled for lift off on October 29. The spacecraft will replace NSS-703 at 57 degrees East and cover virtually the entire Eastern Hemisphere, bringing increased capacity and transmission power to a key orbital location at the crossroads of Europe, the Middle East, Africa, Asia and Australia. The spacecraft features 40 C-band transponders and 48 Ku-band transponders with DTH power levels, as well as elaborate beam interconnectivity and C-/Ku-band cross-strapping. NSS-12 is based on SS/L's space-proven 1300 platform and has been designed to have a minimum expected lifetime of 15 years.

INTELSAT 14 READY FOR LAUNCH

The Intelsat 14 (IS-14) that Space Systems/Loral build for Intelsat has been shipped to the Cape Canaveral Air Force Station base in Florida where it will be launched to orbit aboard the Atlas V rocket. The satellite has 40 C-band and 22 Ku-band transponders across four different beams, covering the Americas, Europe and Africa. Intelsat 14 has an expected life span of 15 years and is intended to replace Intelsat 1R which is nearing the end of its design life and the satellite to be located at 315 degrees East longitude.



NetUP Dual DVB-S2-CI

Professional high-density satellite reception card



Overview

The NetUP Dual DVB-S2-CI is a professional PCI-e satellite reception card designed for high-density appliances such as DVB-IP gateways, home theaters, satellite Internet systems, etc. In contrast to standard DVB-S cards NetUP's Dual DVB-S2-CI provides fourfold density – two DVB-S/S2 receivers and two Common Interfaces (CI) occupy only one PCI-e slot. The high density allows saving space on installation and using the card for satellite signal reception in confined environments. For example, a standard 1U rack-mount server with two PCI-e slots can receive and fully decode 4 satellite transponders, such as NetUP's IPTV Combine 4x.

Components Used

- Conexant CX23885;
- dual demodulator STM STV0900;
- tuner STM STV6110A;
- dual LNB STM LNBH24;
- SMARDTV CIMaX Sp2.

Features

- two DVB-S/S2 inputs - simultaneous reception of two DVB-S/S2 transponders;
- two CI slots - independent descrambling of two transponders;
- support of any professional CA modules (e.g., PowerCAM Pro, Aston Pro Solutions, etc.);
- PCE-e x1;
- DiSEqC 2.x;
- drivers for Linux OS.

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NetUP

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THB-SAT TWIN LNB



WALLMOUNT SPD 21 cm



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DOUBLE LNB HOLDER



DISEQC 2/1 SWITCH



TELEMANN 1600
DIGITAL SATELLITE METER



THB-SAT RG-6U COAX CABLE
ROLL 100m or 300m



F-CONNECTOR (100 Pc)

The products can be branded. In case of larger order the products will be delivered free of charge.



Edited by
Branislav Pekic

EUROPE

EUROPE

T-VIPS INTRODUCES DVB-T2 GATEWAY

T-VIPS has introduced the DVB-T2 Gateway that integrates with existing DVB-T head-ends and DVB-T2 modulators. It enables broadcasters to migrate to DVB-T2 and take advantage of a 30-50% increase in bandwidth efficiency of DVB-T2 to launch new services, such as HD and VOD. It also allows an operator to have DVB-T and DVB-T2 services coexist side by side in a network.

NET INSIGHT PLATFORM SELECTED FOR DTT ROLLOUT

Net Insight has received an order from a media operator in Eastern Europe for the first phase of the national Digital Terrestrial TV distribution network. The DTT network will be based on Net Insight's Nimbra platform to distribute uncompressed and compressed video (HD-SDI, SD-SDI and ASI) across the country. The network will also provide scalable multicast capabilities and incorporate Net Insight's unique Time Transfer feature for GPS-free time synchronization.

ENESYS AND ARQIVA BRING DVB-T2 SIGNAL TO IBC

At the IBC Enesys unveiled its complete end-to-end solution for DVB-T2 broadcasting with the release of the world's first DVB-T2 Gateway, NN6-T2Gateway and the first DVB-T2 analyzer and professional receiver. The new DVB-T2 offering completes the Enensys digital TV offer that ranges from SFN Adaption to IP distribution that secure SFN delivery over IP networks, up to transmission sites with various products. At the IBC, the DVB-T2 signal was broadcast together with Arqiva from the Amsterdam Tower, enabling 4 HD services to be received from one DVB-T2 multiplex.

ITALY

DTT IN 30% OF ITALIAN HOUSEHOLDS BY END-2009

By mid-December, some 30% of Italian households (nearly 7 million families) will complete the switchover from analogue to digital terrestrial. The move regards residents in Aosta, Turin, Cuneo, Trento, Bolzano as well as the Lazio and Campania Regions. The first data from Rome and Turin (where the switch-off has already taken place) is encouraging, as nearly 70% of households have equipped themselves with a DTT receiver.

MACEDONIA

ON.NET SELECTS TANDBERG SOLUTION

On.net has rolled out a 60 channel DTT service using Tandberg Television's MPEG-4 AVC head-end solutions for maximisation of bandwidth efficiency. The service will also include two HDTV channels. The number of channels represents one of the largest DVB-T deployments, fulfilling a pay-TV business model.

ROMANIA

GOVERNMENT PASSES DTT SWITCHOVER STRATEGY

The blueprint for the switchover from analogue to digital terrestrial broadcasting was passed by the Government in October and the process should be completed by 1 January 2012. In the first stage, two of the six multiplexes will be allocated by 31 December 2009. By the end of 2010, at least 60% of the population and 50% territory will be covered by the two multiplexes, increasing to 80% and 70% by 31 June 2011. On 31 December 2011 DVB-T will have coverage of 90% of the population and 80% of the territory.

SERBIA

RTS LAUNCHES HD TRIALS

Serbian state broadcaster RTS in September initiated test HD broadcasts on DTT. The RTS HD channel is aired via the Avala transmitter on UHF channel 27 covering Belgrade and surrounding areas. The digital MPEG-4 multiplex includes the RTS 1, RTS 2 and RTS Digital TV channels in standard resolution plus one channel in high resolution.

SLOVAKIA

COMMERCIAL DVB-T TO INITIATE BY END-2009

Commercial DVB-T broadcasting in Slovakia will begin at the end of this year. A DTT transmission license has been issued to the company Towercom, while the holder of the licenses is obliged to launch commercial services of the first multiplex network on 31 December 2009 and at that time signal must cover 79.7% of the population. Subsequently, by the end of March 2010 the DVB-T signal will cover 89.4%. The second multiplex and the public-service multiplex will be in commercial operation as of 30 June 2010.

SPAIN

DTT ARRIVES TO 11 MILLION HOUSEHOLDS

According to the data published by Impulsa TDT in August, DTT penetration arrived to 67.3% or some 11 million households. The next switchover stage will take place in December and the last one on 3 April 2010 although some sources from the Ministry say that the national analogue switch over could be brought forward one or two months.

TDT PREMIUM OPTS FOR NAGRAVISION ENCRYPTION

The Nagra Media Access conditional access system has been selected to secure the TDT Premium pay-TV DTT platform operated by Abertis Telecom. The Nagra CA system is being integrated into TDT Premium set-top boxes and conditional access modules (CAMs) to support the new platform. The first pay DTT channel to go on-air for the TDT Premium platform was Mediapro's Gol Television, a 24-hour sports channel.

UNITED KINGDOM

BBC TO ENCRYPT HD CHANNELS ON DTT

The BBC has said that it wants to be able to protect its TV listings and other service information for the HD channels it is due to start broadcasting on terrestrial Freeview later this year. Under the terms of its licence as a public service broadcaster, the BBC is not allowed to encrypt any transmissions, but providers of HD content normally insist on digital rights management before allowing broadcasting. The compromise would not prevent reception of HD content but would only allow scheduling information to be used by set-top boxes which implemented the copy restrictions that the HD content providers wanted.

NEARLY 30 MILLION DTT TV SETS IN USE

Ofcom has revealed that there are now 29.7 million DTT converted TV sets in the UK - 9.9 million main sets and 19.8 million secondary sets. Overall DTT equipment sales reached nearly 2.7 million over Q2 2009, up by almost 15% on the same time last year. Sales of Freeview set top boxes stood at 680,000 during the quarter, down by 25% on 2008 figures. This fall was due to the growth in popularity of integrated digital TVs (IDTV), which accounted for almost three quarters of all DTT sales at just over 2m.

NORTH AMERICA

UNITED STATES

KAXT LAUNCHES DIGITAL TV SERVICE

San Jose-based TV station KAXT-CA has deployed a digital ATSC television service--capable of broadcasting up to 20 MPEG-2 video and audio services within the 19.39 Mbps ATSC spectrum. Using video processing solutions from Harmonic, transmission equipment from Linear Industries and PSIP generation from Triveni Digital, KAXT said it is currently broadcasting 12 video channels and four audio channels and planning to add more audio services later.

OMVC DOCUMENT SHOWS MOBILE TV POTENTIAL

The Open Mobile Video Coalition (OMVC) has released version 1 of the OMVC Mobile Use Cases document [PDF]. This document describes the services possible using the ATSC M/H standard. By the end of September there will be 33 full power mobile TV stations across the country broadcasting ATSC M/H, according to the OMVC, an organization of more than 800 TV stations and related industries. That number is expected to continue to grow, with approximately 70 OMVC member stations pledged to transmit mobile TV by this year's end.

LATIN AMERICA

CHILE

CHILE TO ADOPT JAPANESE DIGITAL TV STANDARD

Chile will adopt the Japanese digital television standard ISDB-T, which is high-definition capable, joining neighbouring Peru and Argentina, according to President Michelle Bachelet. Santiago's decision came after it had also considered US and European standards. The Japanese standard "suits Chile the best, allows for better quality digital television reception, given the characteristics of our country," Chile's telecommunications regulator Subtel said in a statement. The Japanese standard will be applied in Chile in 2010.

PERU

MORE THAN HALF OF HOUSEHOLDS WITH DTT BY 2015

By the year 2015, 52% of Peruvian households will be already connected to the DTT TV system, which will allow them to have additional services, along with better quality of video and sound, according to Peru's Transportation and Communications Minister, Enrique Cornejo. The pilot project will begin in March 2010, when the State channel starts digital transmission tests to 4 areas of the country, starting with Lima and Callao. Next regions will be Arequipa, Trujillo (La Libertad),



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Chiclayo (Lambayeque), Piura and Huancayo (Junín), and the next ones would be Ayacucho, Chimbote (Ancash), Ica, Iquitos (Loreto), Juliaca (Puno), Pucallpa (Ucayali), Puno and Tacna. The process should be finished by the year 2030.

VENEZUELA

VENEZUELA TO ADOPT ISDB STANDARD

Venezuela plans to adopt the Japanese digital television standard as it prepares to abandon analogue television. Science Minister Jesse Chacon says Venezuela opted for Japan's ISDB system after considering other systems used in Europe and China. Chacon says the new system will allow Venezuela's state-run telecommunications regulator to broaden the airwaves because digital channels take up less bandwidth. Venezuela's conversion to digital television is expected to be completed within 10 years.

ASIA & PACIFIC

ISRAEL

50.000 DTT CONVERTORS SOLD SINCE AUGUST

The NIS 400 Digital Terrestrial Television converters offer high-definition quality viewing of channels 1, 2, 10, 33 and 99 - with no monthly fee involved. According to the Second Broadcast Authority, 50,000 such converters have been sold since the reform was launched in August of this year. Meanwhile, DTH operator HOT is offering its customers that are seeking to unsubscribe and opt for DTT a 20% discount on HOT's usual subscription fee.

AFRICA

KENYA

MAJORITY OF KENYANS TO RECEIVE DTT BY APRIL 2010

The government hopes to have migrated about 85% of the country's population from the current analogue transmission to the digital one by April next year. A pilot program has initiated that will see households in Nairobi and its environs switch to the new technology. DTT will be initially rolled out in Nairobi, Kiambu, Kajiado and Muranga. The MPEG-4 compatible set-top boxes cost between Sh1,500 and Sh5,000. The Kenya Broadcasting Corporation has been licensed to relay digital transmission as from October 31 for Nairobi in its first phase, while the target for full a switchover is June 2012, three years earlier than the worldwide deadline of 2015.

WORLD

RODHE & SCHWARZ PRESENTS NEW VHF TRANSMITERS

Rohde & Schwarz is adding a new family of VHF high-power transmitters to its product line. Besides analogue TV, the R&S Nx8500 transmitter family supports the DVB-T, ATSC, ISDB-T/ISDB-TB and DTMB digital TV standards and is already prepared for DVB-T2. In addition, the transmitters cover the T-DMB, DVB-H, MediaFLOTM and ATSC Mobile DTV mobile TV standards. Digital audio broadcasting (DAB+) is also part of the portfolio.

SIANO RECEIVER CHIP SUPPORTS MOBILE TV STANDARDS

Siano Mobile Silicon has launched a multi-standard mobile TV receiver chip, the SMS1230, that supports the major global broadcast mobile-TV standards of DVB-T, T-DMB, and ISDB-T, as well as digital (DAB/+) and FM radio. The SMS1230 is a highly-integrated, all-CMOS, single-chip receiver designed for high-end reception of mobile digital TV and radio, at low-power consumption. It enables reception of DVB-T at speeds of 200Km/hour and in ISDB-T (deployed in Japan and Brazil) it exhibits high immunity to analogue and digital interfering signal.

IMAGO AND BREEZE TO LAUNCH DVB-T STB

Imago Group is working together with Breeze Technologies to launch the TVium TR-100, a compact set-top box which captures digital TV and radio from a DVB-T feed for TV-over-IP distribution across the network. TVium is the new range of second-generation TV gateways and has been developed to meet a growing IPTV requirement in a variety of installations from hotels and hospitals through to schools, universities and stadiums. The new product has the ability to handle up to 100 streams of TV and radio and can also host CAM modules to enable distribution of encrypted channels.

DTT SET-TOP BOX SHIPMENTS DOWN IN SECOND QUARTER

Market research firm, In-Stat, reported that worldwide DTT STB shipments fell by nearly 35% in Q2 compared to Q1. The shift was driven primarily by falling shipments in the North American market following the analogue broadcast TV shut-off. Plummeting unit shipments in North America were partially offset by growth in the Asian DTT market, which actually grew 50% to over 1.2 million units.



Edited by
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EUROPE

EUROPE

AUSTRIA

TELEKOM AUSTRIA LAUNCHES TV MEDIABOX

Telekom Austria has started offering a new service called aonTV MediaBox. It is capable of interconnecting the TV set with PCs and mobile phones within the home, allowing customers to retrieve and access video, images or music files directly on the TV. The new service also enables access to an online hard disk offering up to 1 GB of data storage and will be available to all IPTV customers with no additional costs.

CROATIA

OPTIMA TELEKOM LAUNCHES IPTV

Optima Telekom has launched a new IPTV service called OptiTV that is available with five different triple-play packages, which include Opti Telefon fixed-line telephony and OptiDSL or OptiCarnet broadband Internet services. OptiTV is available with 70 linear channels, a DVR service called 'Snimalica' which allows users to record up to 10 or 30 hours of TV, parental controls and content from major US providers such as HBO.

DENMARK

SIGMA GETS YOUSEE TRIPLE-PLAY CONTRACT

TDC subsidiary YouSee has reportedly selected Sigma's Service Management Portfolio for the fulfilment and management of its triple-play services in Denmark. YouSee provides cable TV, IPTV, broadband and telephony for approximately 45 per cent of all Danish households.

ESTONIA

VIASAT SIGNS FOUR-YEAR IPTV DISTRIBUTION DEAL

Viasat Broadcasting has signed a four-year agreement with Elion, which is the only broadband and IPTV services provider in Estonia. The agreement will enable Viasat to market and sell its pay-TV channel packages to Elion's 175,000 broadband customers, 88,000 of which have IPTV, from the end of October 2009. Viasat's Estonian free-TV channels (TV3, TV6 and 3+) will also be immediately available to Elion subscribers through the platform's existing IPTV packages.

FRANCE

IPTV SERVICES OFFER LOWER HD QUALITY

The picture quality of HD programmes delivered via IPTV services in France is lower than that of rival cable and satellite services, according to a new study by Mediatvcom for French consultancy NPA Conseil. The overall ranking places cable operator Numericable and satellite operator CanalSat at the top with four stars, followed by DTT with three stars, then Orange's LiveBox with two, and fellow IPTV operators Free, SFR and Neuf Cegetel with one star. The study forecasts that 45% of French homes will have high-definition televisions by the end of 2009 and 78% by the end of 2012, versus 30% at the end of last year.

GREECE

OTE EXPANDS IPTV COVERAGE TO 33 CITIES

OTE has expanded its IPTV service, Conn-x TV, to four additional cities, Grevena, Ioannina, Corfu and Preveza, taking total coverage to 33 cities. OTE aims to offer Conn-x TV to all major cities and prefecture capitals in Greece by the end of 2009. The Conn-x TV is now available to customers with ADSL connections at speeds of 2Mbps; previously only subscribers with 8Mbps and 24Mbps access could receive IPTV.

HUNGARY

HUNGARY TO GET FOURTH IPTV PROVIDER

A fourth company is venturing into the Hungarian IPTV market in the shape of Interware Internet Szolgaltato. The newcomer promises to deliver in excess of 80 channels, including five HD channels, which will be provided over Magyar Telekom's network. It will also offer an online movie rental service costing less than HUF500 (USD2.72) per film to rent. Interware Internet will offer the content either through a double- or triple-play package with prices starting at HUF 5.000 or HUF 5.700 for the respective services.

ITALY

ADB AND MEDIASET LAUNCH HDTV BOX

Advanced Digital Broadcast has launched its first HD interactive DTT set-top box for the Italian retail market that will allow Italian football fans to watch Serie A in high-definition as well as high-definition programs broadcast in the switch-off areas. The i-CAN3810T-HD will support the Mediaset Premium pay-TV service that is accessed by a prepaid card or through Easypay, a flexible subscription solution.

THE NETHERLANDS

CAIWAY SELECTS EDGEWARE SERVERS FOR IPTV

Caiway has selected Edgeware's Orbit-2X video server platform to drive its IPTV service, facilitated by Dutch integration partner Divitel, launching in The Netherlands, October 2009. Edgeware's Orbit video delivery platform features built-in capability to record live TV channels, enabling cable and telecom operators to deploy on-demand TV services within their existing networks. Each Orbit-2X server streams 20 Gbps of video to 16,000 concurrent users from just one half depth rack unit.

SLOVAKIA

T-COM SLOVAKIA EXPANDS IPTV COVERAGE

T-Com Slovakia is expanding the footprint of its IPTV service Magio TV to remoter parts of the country. An extra 75,000 households in 400 small villages across the country will have access to Magio TV and Magio Internet by the end of the year, enabled by the deployment of special miniDSLAM equipment, according to the company. The operator recently passed 50,000 subscribers for Magio TV.

SWEDEN

CISCO DELIVERS NGN TECHNOLOGY TO TELIASONERA

TeliaSonera is deploying a point-to-point fiber network based on Cisco IP Next-Generation Network (IP NGN). The Cisco point-to-point FTTX system enables delivery of services such as multiroom IPTV and VoD, HD video conferencing, and low-latency connectivity for data centers. The new network can scale to deliver symmetrical bandwidths up to 1 Gbps, providing a pathway for future service innovation.

UNITED KINGDOM

VERISMO TO LAUNCH IPTV PLATFORM

Global Digital Broadcast (GDB) has partnered with Verismo Networks to launch web-to-TV service VuNow into the UK. Currently available only in the US, the VuNow service gives consumers the ability to access web video directly on their TV, without a computer.

VIRGIN MEDIA SIGNS HD DEAL WITH DISNEY

Virgin Media has signed a deal with Disney, which will see HD content available on the service for the first time. The new channel will be called Disney XD (formerly Toon Disney) and there will also be an on-demand spin-off available. Virgin Media users will be also able to watch certain shows on three separate platforms: TV, mobile and the web.

NORTH AMERICA

CANADA

MTS ALLSTREAM LAUNCHES NEW HDTV SERVICE

MTS Allstream has partnered with Alcatel-Lucent and Microsoft to launch a new HDTV service to its subscribers in Brandon, Winnipeg. The service, which is called MTS Ultimate TV Service, combines gear from Alcatel-Lucent with Microsoft's Mediaroom IPTV software platform to deliver more than 250 digital TV and music channels, as well as 30 HD channels. MTS Ultimate also include a whole-home DVR platform that lets subscribers record and watch shows on up to three connected TVs at the same time.

UNITED STATES

TIME WARNER REACHES 100 HD CHANNELS

Time Warner Cable has hit 100 high definition channels and among the long list of new HD channels recently added by TWC are MSNBC HD, Headline News HD, E! HD, TCM HD, MSG Plus HD and several HBO and Showtime channels in HD. The cable operator was able to more than triple its offering of HD channels in the last year by investing in new infrastructure and improved technology at a time when there is increased HD programming available.

LATIN AMERICA

ARGENTINA

TELEFONICA TO OFFER VOD, PPV IN BUENOS AIRES

Telefónica will launch VOD and PPV services in Buenos Aires by March 2010, according to daily "La Nación". The service will be offered as an added value to Speedy subscribers. The service will not include linear channels, as they are currently not permitted by legislation, but rather movies, series, childrens' and music programmes.

BRAZIL

VIVENDI SEEKS PURCHASE OF IPTV OPERATOR

Vivendi will next week submit an application to Brazil's national telecoms regulator Anatel, requesting permission to acquire control of Global Village Telecom (GVT). In addition, the new owner is looking to introduce IPTV services in Brazil upon completion of the deal. Vivendi launched an amicable tender offer for 100% of GVT's share capital – valuing the deal at BRL5.4 billion (USD2.9 billion).

SATELLITE *via* FIBER OPTICS Rule #1: CLEAN BEFORE YOU CONNECT



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ASIA & PACIFIC

CHINA

NOW SUBSCRIBERS CLOSE TO ONE MILLION

Now TV, the IPTV-based pay-TV platform operated by PCCW, saw subscriber numbers grow by 7% compared with a year ago, hitting 992,000 by June 30. NOW's direct rival, i-Cable earlier this month reported subscriptions growth of 3%, taking its total to 947,000.

INDIA

AKSH OPTIFIBRE TO RAISE MONEY FOR IPTV

Aksh Optifibre plans to raise up to $20 million through a private placement to grow its IPTV and VoIP business. The amount will be used to part finance Aksh's capex requirement as it plans to ramp up its subscriber base from 35,000 to 650,000 by March 2013. Aksh is currently present across 22 cities in North India and Mumbai.

MTNL INTRODUCES PRE-PAID IPTV

MTNL has launched a pre-paid IPTV service with Time Shift digital TV features in association with Aksh Optifibre Limited for all fixed telephony subscribers of Delhi and Mumbai under the Brand name iConrrol. The existing IPTV post-paid customers will continue to exist in parallel and eventually be converted to pre-paid option. Customers can watch their favourite shows missed up to the last 7 days.

SAUDI ARABIA

ALCATEL-LUCENT TO UPGRADE STC NETWORK FOR IPTV

Alcatel-Lucent has signed a contract with Saudi Telecom to expand, extend and upgrade its existing network with the aim of enabling the operator to serve an additional two million customers by the end of 2010. Under the agreement, Alcatel-Lucent will provide its packet optical transport solution for DSLAM traffic aggregation and Ethernet business services, along with its DSL and GPON /MSAN technology. Once the upgrade is complete, Saudi Telecom will be able to offer all customers triple play services such as IPTV and converged communications.

SOUTH KOREA

IPTV SUBSCRIBERS TOP ONE MILLION

The number of IPTV subscribers in the country has topped the 1 million mark, helped by the expansion of infrastructure and improved service quality, according to the Korea Digital Media Industry Association. The three IPTV service providers - KT Corp., SK Broadband Co. and LG Dacom Corp. - achieved the landmark in early October, nine months after the commercial service of IPTV started. Including VOD subscribers, the number of IPTV viewers totalled 2.01 million, the association said. However, the combined actual investment by the top three IPTV players in the first half of the year was just 283 billion won or US$ 242 million. They had originally promised to invest a total of 853 billion won.

TAIWAN

BSN AND MAX MEDIA TO DEPLOY IPTV SERVICES

BNS has signed a five-year exclusive contract with Max Media to build and deploy community-based IPTV services. The contract will see BNS supply complete IPTV turnkey solutions including network, equipment, software, content, and system integration, maintenance and support services in residential complexes including high-end estates, commercial buildings, service apartments and hotels in Taiwan. The service, which will be operated by Max Media, consists of 45 TV channels, including exclusive Chinese channels not seen on cable TV, true HDTV channels and VOD content, TV shopping and TV advertising services to homes, offices and hotel rooms. It will be the country's first true HD community IPTV service to residential complexes, commercial buildings and hotels.

VIETNAM

VNPT LAUNCHES IPTV IN HANOI

Vietnam Post and Telecommunications Group (VNPT) has officially launched its new IPTV service MyTV in Hanoi. The new service is initially available in Hanoi, Da Nang and Ho Chi Minh City, but will be expanded nationwide from October, according to VNPT. The first phase includes live TV, VOD, music-on-demand (MOD) and TV-on-demand (TVoD), while the second planned phase will add media sharing services, usage data access and e-education to the service. The new service is believed to be based on an integrated solution from ZTE and Verimatrix.

WORLD

AKAMAI PLANS ONLINE HDTV

Akamai Technologies has announced an HD video platform that will provide HDTV online. Akamai's network will deliver HD content via Adobe Flash and Microsoft Silverlight and Apple's iPhone. It will support live and on-demand HD streaming with uninterrupted playback, and viewers will be able to personalise the service. Akamai's servers are located close to customers in cities around the world, rather than in large central data centers. This means that it can feed high definition content directly to the last-mile infrastructure that goes to homes and businesses.

Exhibition Preview

7 - 10 January 2010: 2010 International CES
The International CES is produced by the Consumer Electronics Association (CEA)
Las Vegas Convention Center, Las Vegas, Nevada, USA
www.cesweb.org

2 - 4 February 2010: CSTB 2010
12th International Exhibition and Conference
Crocus Expo Center, Moscow, Russia
www.cstb.ru

2 - 4 March 2010: CABSAT 2010
The Leading International Digital Media Event for the Middle East, Africa and South Asia
Dubai International Convention and Exhibition Center, UAE
www.cabsat.com

23 - 25 March 2010: CCBN 2010
18th China Content Broadcasting Network Expo
China International Exhibition Center (CIEC), Beijing, China
www.ccbn.tv

12 - 15 April 2010: NABSHOW
The Must-Attend Global Event for Content ProfessionalsLas
Las Vegas Convention Center, Las Vegas, Nevada, USA
www.nabshow.com

13 - 14 April 2010: SatCom 2010 Africa
Investment and Development for Operators, Government and Investors
Sandton Convention Center, Johannesburg, South Africa
www.satcomafrica.com

4 - 6 May 2010: ANGA Cable 2010
Trade Fair for Cable, Broadband and Satellite
Koeln Messe, Cologne, Germany
www.angacable.com

22 - 24 June 2010: SatCom 2010 Russia & CIS
Investsment and development for operators, developers, government and investors
Kiev, Ukraine
www.terrapinn.com/2010/satcomrus/

TELE-satellite Deadlines

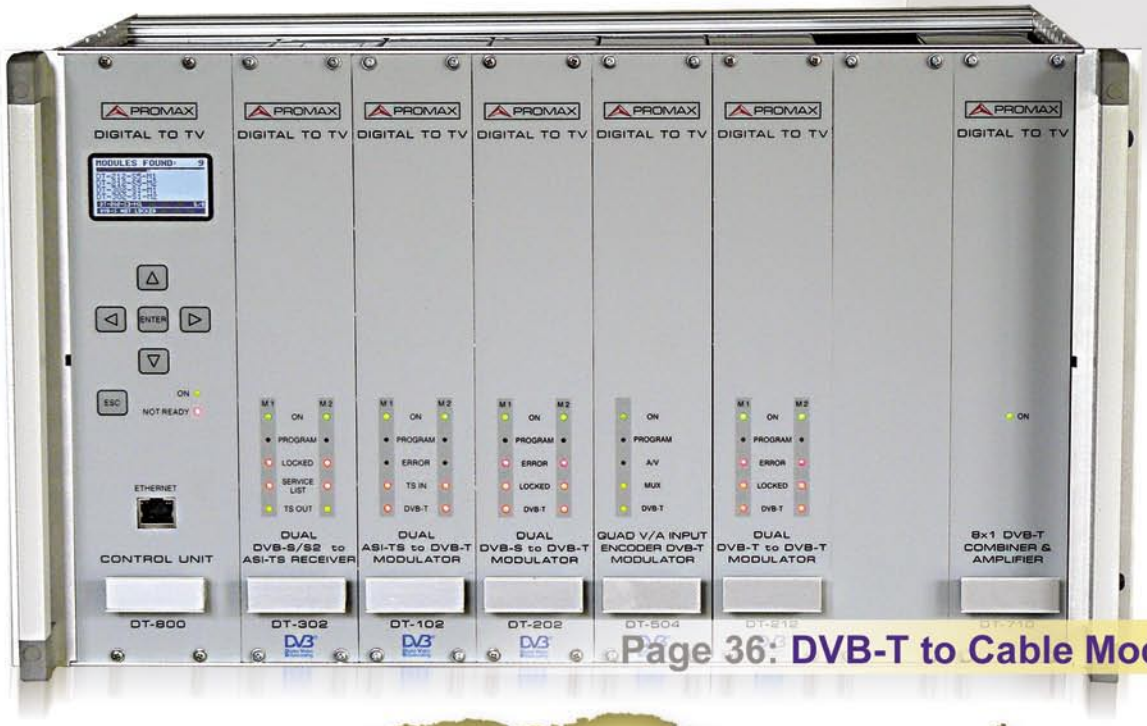
Editorial Deadlines, Magazine Publishing Dates

Number	Issue	Deadline	Hardcopies	Available Online
#215	02-03/2010	4 December 2009	15 January 2010	29 January 2010
#216	04-05/2010	5 February 2010	19 March 2010	2 April 2010
#217	06-07/2010	2 April 2010	14 May 2010	28 May 2010
#218	08-09/2010	4 June 2010	16 July 2010	30 July 2010
#219	10-11/2010	6 August 2010	17 September 2010	1 October 2010

DIGITAL

Terrestrial TV Handbook

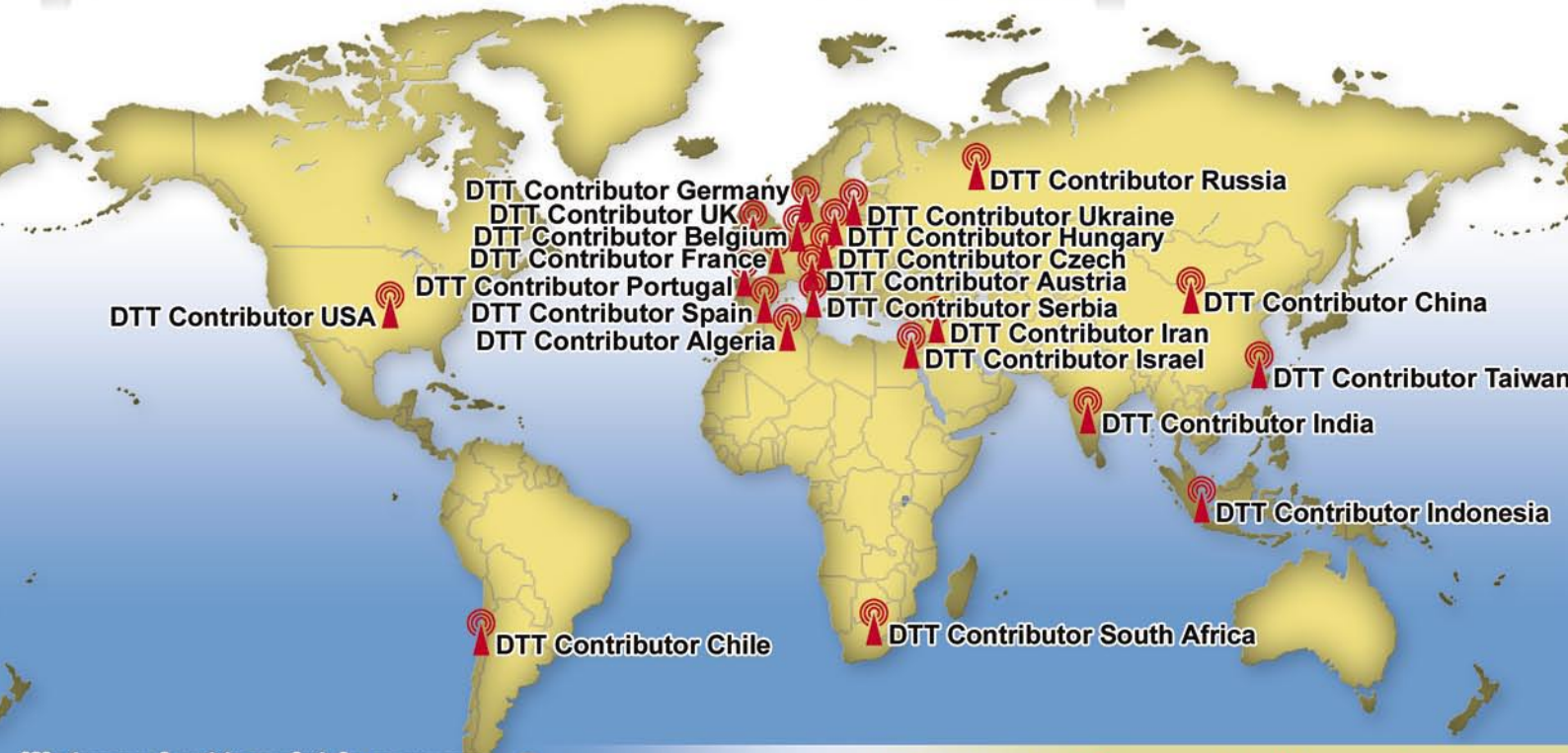
Continuously Monitored and Updated by DTT Contributors around the world **12-01/2010**



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DVB-T MPEG-2

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Ireland
Italy**
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Morocco
Namibia
Netherlands
Switzerland
Tunisia
UK

* some DVB-T MPEG-4 transmissions

** some DVB-T2 transmissions

DVB-T MPEG-4

Azerbaijan
Belarus*
Bulgaria
Colombia
Czech**
Estonia**
Hungary
Iceland
India
Iran
Israel
Kenya
Latvia
Lithuania
Macedonia
Malaysia
New Zealand
Norway
Poland
Portugal
Romania
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Serbia**
Slovakia
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South Africa
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* some DVB-T MPEG-2 transmissions

** some DVB-T2 transmissions

Digital Terrestrial Television of the World

Dominant System per Country

by TELE-satellite Magazine

The World's Largest Digital TV Magazine


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MACEDONIA
ALBANIA
GREECE
TURKEY
GEORGIA
ARMENIA
AZERBAIJAN
KAZAKHSTAN
KYRGYZSTAN
UZBEKISTAN
TURKMENISTAN
TAJIKISTAN
MONGOLIA
CHINA
NORTH KOREA
SOUTH KOREA
JAPAN
CYPRUS
SYRIA
LEBANON
ISRAEL
IRAQ
IRAN
AFGHANISTAN
JORDAN
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CAMBODIA
PHILIPPINES
BRUNEI
MALAYSIA
INDONESIA
PAPUA NEW GUINEA
SOLOMON ISLANDS
VANUATU
FIJI
NEW CALEDONIA
AUSTRALIA
NEW ZEALAND
SRI LANKA
TUNISIA
LIBYA
EGYPT
NIGER
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YEMEN
SUDAN
NIGERIA
CENTRAL AFRICAN REPUBLIC
ETHIOPIA
SOMALIA
CAMEROON
EQUATORIAL GUINEA
GABON
CONGO
ZAIRE
UGANDA
KENYA
RWANDA
BURUNDI
TANZANIA
ANGOLA
ZAMBIA
MALAWI
MOZAMBIQUE
NAMIBIA
ZIMBABWE
BOTSWANA
SWAZILAND
LESOTHO
SOUTH AFRICA
MADAGASCAR
MAURITIUS
RÉUNION
DVB-T2
Taiwan
ATSC
Canada
Guatemala
Honduras
Mexico
USA
ISDB-T
MPEG-2
Japan
ISDB-T
MPEG-4
Argentina
Brazil
Chile
Peru
Venezuela
DMB-TH
China
Hongkong

World DTT Chart

EUROPE

Western Europe

Austria



DTT Information provided by

Thomas Haring, Austria



National Programmes FTA 64QAM

Mux A	ORF-1	ORF-2	ATV
Mux B	ORF Sport	Puls 4	3sat

Regional Programmes FTA 64QAM

ORF-2 Wien	ORF-2 Niederöster.	ORF-2 Burgenland	ORF-2 Steiermark
ORF-2 Kärnten	ORF-2 Tirol	ORF-2 Oberösterreich	ORF-2 Salzburg
ORF-2 Vorarlberg			

Local Programmes FTA 8PSK

Mux C Wien	P3tv	N1TV	Wien TV
Mux C Linz	LT1		

Belgium



DTT Information provided by

Leo Stouten, Belgium



Regional Programmes FTA French (South)

RTBF	La Une	La Deux	La Trois
	Euronews	TV5 Monde	Arte

Regional Programmes FTA Dutch (North)

VRT	één	Ketnet/Canvas	Ketnet+/ Canvas+
	één+		

National Programmes Encrypted

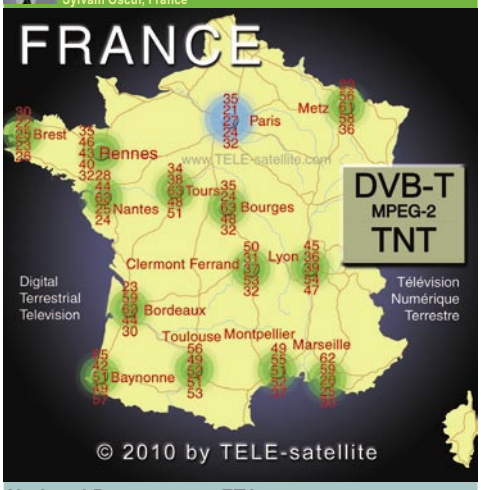
Norkring Pakket 1	Norkring Pakket 2	Norkring Pakket 3	Norkring Pakket 4
Norkring Pakket 5	Norkring Pakket 6		

France



DTT Information provided by

Sylvain Oscul, France



National Programmes FTA

Mux R1	France 2	France 3	France 5
	ARTE	Chaine Parlamentaire	Regional Programmes
Mux R2	Direct 8	Gulli	Virgin 17
	iTELE	BFM TV	France 4
Mux R4	M6	W9	NT1
Mux R6	TF1	NRJ 12	TMC

Regional Programmes in all France FTA

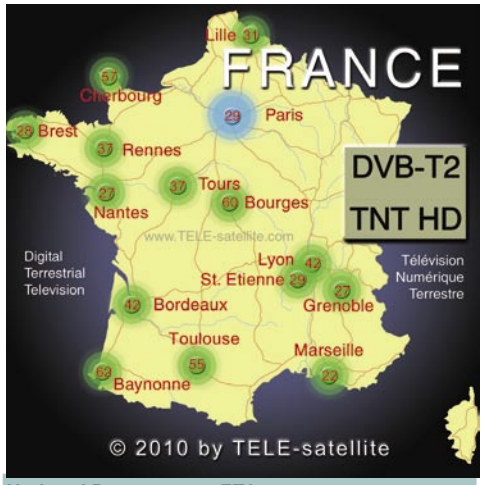
Angers 7	TV8 Mont Blanc	TVPI	TV7 Bordeaux
Canal 8	Citizen TV	Clermont Première	Bip TV
téléGrenoble	TV Vendée	LM TV	Télé 102
Wéo	TLM	Télé Locale Provence	La chaine Marseille
7L	Nantes 7	Télénantes	Télé Miroir
Orléans TV	TV Rennes 35	TLI	TV Tours
Canal 32			

Regional Programmes Ile de France FTA

France Ô	Demain TV	Cinaps TV	IDF 1
NRJ Paris	Cap 24		

National Programmes Encrypted

Mux R3	Canal+	Planète	Canal+ Sport
	Canal+ Cinéma	TPS Star	
Mux R4	Paris Première		
Mux R6	Eurosport	LCI	TF6



National Programmes FTA

Mux R5	TF1 HD	France 2 HD	M6 HD
Mux R4	Arte HD		

National Programmes Encrypted

Mux R3	Canal+ HD		

Germany



DTT Information provided by

Heinz Koppitz, Germany



National Programmes FTA 16QAM

Mux 1	Das Erste	Arte	Phoenix
	Eins Plus		
ZDF	ZDF	3sat	ZDF Infokanal
ProSiebenSat1	Sat 1	Pro7	Kabel Eins
	N24		
RTL Group	RTL	RTL 2	Super RTL
	Vox		

Regional Programmes FTA 64QAM Berlin

RBB 2	MDR	Arte	NDR
Berlin 1	WDR	SWR	HSE
Berlin 2	DSF	9Live	Eurosport
	TV.Berlin		
Berlin 3	ntv	Euronews	JayJay

Regional Programmes FTA 64QAM Frankfurt

HR 2	Phoenix	SWR	BR

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Rhein-Main	Eurosport	Tele 5	rheinmaintv
	Bibel TV		

Regional Programmes FTA 64QAM München

BR 2	BR	BR alpha	SWR
München	Tele 5	Eurosport	münchen.tv
	HSE 24		

Regional Programmes FTA 64QAM Hamburg

NDR 2	NDR	WDR	MDR
Hamburg	9Live	Eurosport	Hamburg 1
	Bibel TV		

Regional Programmes FTA 64QAM Köln

WDR 2	WDR	MDR	NDR
	SWR		
Nordrhein-Westfalen	CNN	Viva	Eurosport
	Tele 5		

Regional Programmes FTA 64QAM Stuttgart

SWR 2	SWR	HR	WDR
	BR		

Regional Programmes FTA 64QAM Leipzig

MDR 2	MDR	RBB	WDR
	BR		
Leipzig	Leipzig Fernsehen	Info TV Leipzig	BBC World
	Bibel TV		

Regional Programmes FTA 64QAM Hannover

NDR 2	NDR	WDR	MDR
	HR		
Niedersachsen	Tele 5	Comedy Central	Eurosport
	Mona TV		

Regional Programmes FTA 64QAM Erfurt

MDR 2	MDR	RBB	BR
	HR		



National Programmes Encrypted Conax

Mediengruppe RTL	RTL Crime	Passion	

Greece



National Programmes FTA

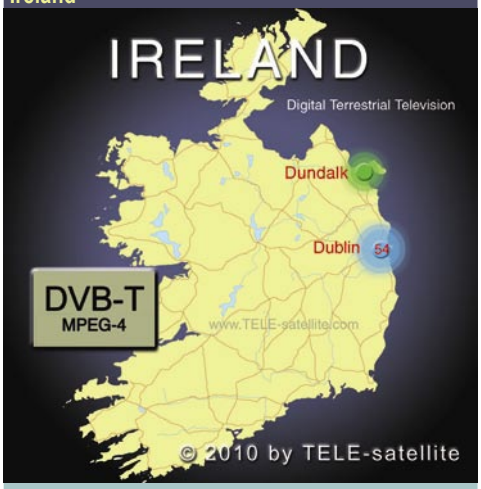
ERT 1	ERT 2		



National Programmes FTA

ALPHA	ALTER	ANTENNA	ΜΑΚΕΔΟΝΙΑ TV
MEGA	ΣΚΑΪ	STAR	

Ireland



Test Programmes FTA

RTÉ	TG4	TV3	

Italy



DTT Information provided by

Alberto Boselli, Italy



National Programmes FTA

Mux A	RaiUno	RaiDue	RaiTre
	Rai 4		
Mux B	RaiNews24	Rai Gulp	Rai Sportpiù
	Rai Storia	Sat2000	
Rete A	All Music	Repubblica TV	France 24
	Second TV		
Mediaset 2	Italia 1	Rete 4	Canale 5
	Boing	Iris	Class News
	BBC World	Coming Soon	
TIMB 1	LA7	MTV Italia	Qoob
	Mediashopping	Sportialia	Sportitalia24

National Programmes Encrypted

Mediaset 1	Premium menu	Hiro	Cartoon Network
	Playhouse Disney	Disney Channel +1	Extra 1
	Extra 2	Premium Calcio 24	Premium Calcio 1
	Premium Calcio 2	Premium Calcio 3	Premium Calcio 4
	Premium Calcio 5	Premium Calcio 6	Premium Calcio attivazione
Dfree	Mediashopping	Disney Channel	Joi
	Mya	Steel	Joi + 1
	Mya + 1	Steel + 1	



Nationa Programme Encrypted

Premium Calcio HD			

Test Programmes FTA

RAI HD	La7		

Capital City Other City 8 34 VHF or UHF Transmitter

Multiplex Bouquet	Programme Name

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Luxembourg



DTT Information provided by

Leo Stouten, Belgium



National Programmes FTA

Mux Ch 27	RTL Télé Lëtzebuerg 1	RTL Télé Lëtzebuerg 2	

French Belgium Programmes FTA

Mux Ch 24	RTL TVI	Club RTL	Plug TV
Mux Ch 7	M6		

Dutch Belgium Programmes FTA

Mux Ch 24	RTL 4	RTL 5	RTL 7

Netherlands



DTT Information provided by

Ron Eberson, Netherlands



National Programmes FTA 64 QAM

Bouquet Publiek Omroep	Nederland 1	Nederland 2	Nederland 3

Regional Programmes FTA 64QAM

Bouquet Publiek Omroep	Omroep Brabant TV	TV Drenthe	TV Flevoland
	Omroep Fryslan	TV Gelderland	TV Noord
	L1TV	TV Noord Holland	TV Oost
	Regio TV Utrecht	Omroep Zeeland TV	TV West
	TV Rijnmond		

National Programmes Encrypted (Conax) 64QAM

Bouquet 2	RTL4	RTL5	RTL7
	SBS6	NET5	
Bouquet 3	Eredivisie Live	Cartoon Network	TMF
	MTV	Animal Planet	CNN
	BBC Prime	CNBC	
Bouquet 4	Veronica	RTL8	één
	Canvas	Nickelodeon	Discovery Channel
	Eurosport	Private Spice	

Portugal



DTT Information provided by

Luis Fernando Carvalho, Portugal



National Programmes FTA

RTP1	RTP2	SIC	TVI

Regional Programmes FTA

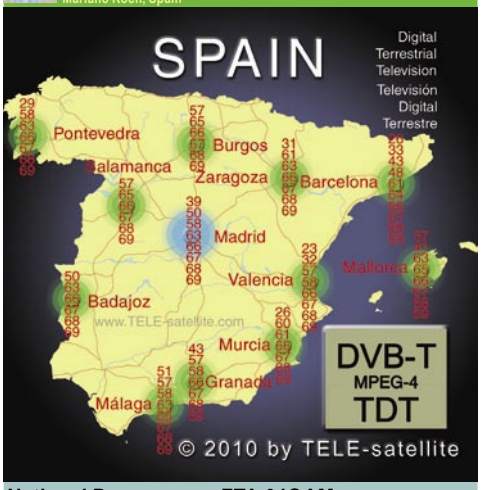
RTP Açores	RTP Madeira		

Spain



DTT Information provided by

Mariano Roch, Spain



National Programmes FTA 64QAM

TELEVISIÓN ESPAÑOLA	TVE 1	TVE 2	Clan TV
	Teledeporte	Canal 24 Horas	
ANTENA 3 TV	Antena 3	Antena Neox	Antena Nova
TELECINCO	Telecinco	La Siete	FDF Telecinco
	Cinco Shop		
SOGECABLE	Cuatro	CNN+	40 Latino
	Canal Promo		
LA SEXTA	La Sexta	Gol TV	
NET TV	Intereconomía	Disney Channel	
VEO	Veo TV	Set en Veo	Tienda en Veo



Local Programmes FTA 64QAM

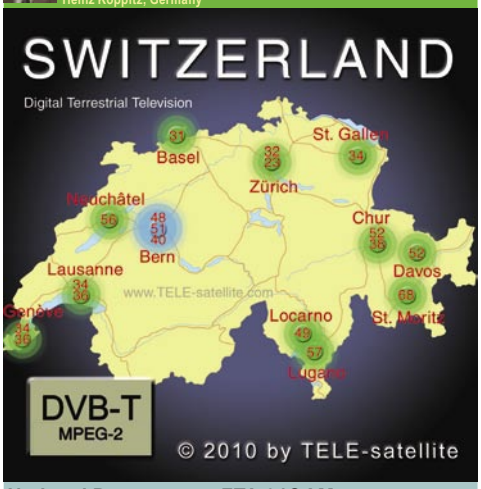
Murcia Ch 29	7RM HD		
Valladolid Ch 32	TVE HD		
Barcelona Ch 43	3HD		
Valencia Ch 32	Canal 9 HD		
Zaragoza Ch 63 Teruel Ch 62 Huesca Ch 57	Aragón 2 HD		

Switzerland



DTT Information provided by

Heinz Koppitz, Germany



National Programmes FTA 64QAM

Mux D	SF 1	SF 2	TSR 1
	TSI 1		
Mux R	SF 1	SF 2	SF i
	TSR 1	TSI 1	
Mux F	TSR 1	TSR 2	SF 1
	TSI 1		
Mux I	TSI 1	TSI 2	SF 1
	TSR 1		

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UK



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National Programmes FTA 16QAM

Mux 1	BBC 1	BBC 2	BBC 3
PSB1	CBBC	BBC News	

National Programmes FTA 64QAM

Mux 2	ITV1	ITV 2	Channel 4
PSB2	More4	E4	Five

National Programmes FTA 64QAM

Mux A	ITV3	QVC	Virgin 1
COM4	Bid TV	Fiver	Five USA
	Quest	CITV	CNN International

National Programmes FTA 64QAM

Mux B	BBC 4	CBeebies	BBC Parliament
PSB3	Community		

National Programmes FTA 16QAM

Mux C	Sky3	Dave	E4+1
COM5	price-drop tv	Sky News	Sky Sports News
	NHS Direct		

National Programmes FTA 16QAM

Mux D	Yesterday	Film4	4Music
COM6	TMF	Ideal World	ITV4
	Dave ja vu	Virgin 1 +1	TOPUP Anytime
	Gems TV	Lottery Xtra	Russia Today

Northern Europe

Denmark



National Programmes FTA

DR 1	DR 2	TV 2 Danmark	

Regional Programmes FTA

TV-2 Regionerne	Lokalt	Regional TV	

Regional Programmes Faroer Islands Encrypted

Mux 1	3+	CNBC	Kanal 5
	BBC Prime	BBC World	Kanal 4
Mux 2	TV3	DR 1	Discovery DK
	Svf	DR 2	Visjon Norge
Mux 3	Canal+ First	Canal+ Drama	Canal+ Comedy
	TCM Cartoon	Hallmark	Canal+ Sport 1
Mux 4	TV2 Sport	Eurosport	Animal Planet
	NRK	VH1	Rás 1
	Kanal 6		



National Programmes FTA

DR Ramasjang	DR K	DR HD	DR Update
Folketings-TV			

Estonia



National Programmes FTA

Mux 1	ETV	ETV 2	TV6
	Kanal 2	Kanal 11	TV3

National Programmes Encrypted

Mux 2	Discovery Channel	Discovery Science	Discovery World
	Discovery Travel	Animal Planet	Cartoon Network
	Eurosport	Extreme Sports	Fashion TV
	PBK Estonia	TVC International	REN-TV Estonia
Mux 3	TV14	Fox Life	Fox Cinema
	MTV Eesti	Seitse	National Geographic
	Hallmark	Nickelodeon	ESPN America
	Euronews	CNN	Hustler TV



HDTV Test Programmes FTA

Mux 4	Rush HD	Test 1	Test 2
	Test 3		

Finland



National Programmes FTA

Mux A	YLE TV1	YLE TV2	YLE Teema
	YLE FST5		
Mux B	MTV3	Nelomen	Sub
	Jim	Liv	
Mux C	Urheilukanava	The Voice	Klubi.tv
	Iskelmä	Iskelmä TV Harju & Pöntinen	

National Programmes Encrypted

Mux A	SVT World		
Mux B	MTV 3 Max	Sub Juniori	Su Leffa
Mux C	Canal+ First	Canal+ Hits	Canal+ Sport1
	Canal+ Sport 2	Disney Programme	Urheilu+ kanava
	URHOtv		
Mux E	Discovery Channel	Eurosport	MTV3 Fakta
	Music Television MTV	Nickelodeon	KinoTV

Capital City

Other City

8 VHF or
34 UHF Transmitter

Multiplex Bouquet	Programme Name

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Test Programme FTA

MTV 3 MAX HD			

Iceland



National Programmes Encrypted

Vodafone	RÚV	Stöð 2	Stöð 2+,
	Stöð 2 Bíó	Stöð 2 Extra	Stöð 2 Sport
	Stöð 2 Sport 2	Skjár Einn	

Latvia



National Programmes FTA

LTV1	LTV7	LNT	TV5

Lithuania



National Programmes FTA

Balticum Auksinis	BTV	Info TV	LTV
LIUKS	LNK	LTV2	TV1
TV3	TV6		

Norway



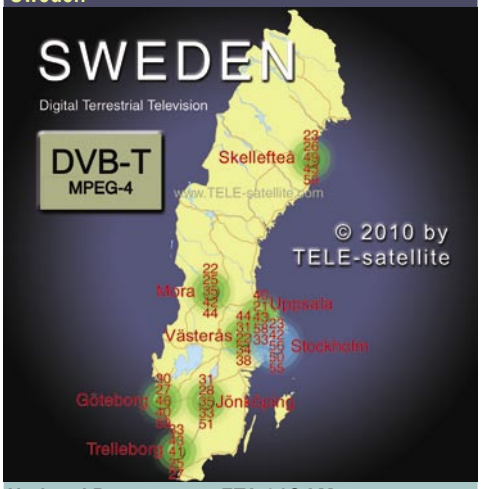
National Programmes FTA

Mux 1	nrk1	nrk2	nrk3
	nrk super		

National Programmes Encrypted

Mux 1	TV3	TV4	Disney Channel
Mux 2	TV2	Zebra2	2 Film
	2 Nyheter	2 Sport	Animal Planet
	The Voice	Discovery Channel	24
Mux 3	Canal+ Sport1	Canal+ Film1	Canal+ Film2
	FEM	Sport N	TV Norge
	National Geographic	BBC World	

Sweden



National Programmes FTA 64QAM

Mux Nät 1	SVT1	SVT2	SVT24
	Barnkanalen	Kunskaps	

National Programmes Encrypted 64QAM

Mux Nät 2	CNN	TV4 Fakta	TV4 Film
	TV4 Plus	TV6	TV400
Mux Nät 3	Canal+ First	Canal+ Hits	Canal+ Sport1
	Disney Programme	Kanal 5	TV3
	TV8	VH1	
Mux Nät 4	Animal Planet	Comedy Central	Discovery Channel
	Eurosport	Kanal 9	MTV
	Nickelodeon	ztv.se	
Mux Nät 5	Axess TV	Canal 7	Silver
	TCM	TV4 Sport	

Regional Programmes FTA 64QAM

Mux Nät 1	SVT2 Regional	SVT24 Regional	

Regional Programmes Encrypted 64QAM

Mux Nät 2	TV4 Regional		



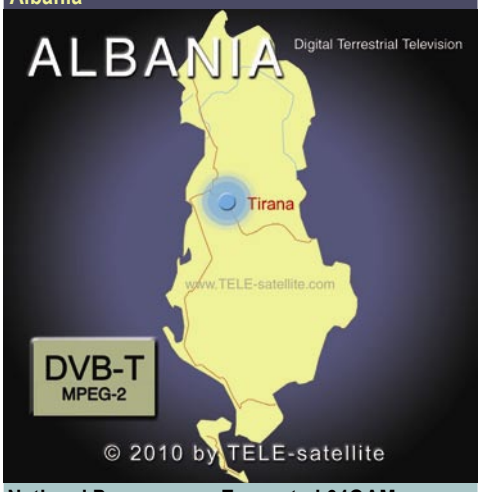
National Programmes FTA

Mux Nät M	SVT HD	TV Finland	

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Central Europe

Albania



National Programmes Encrypted 64QAM

DigitalALB Mux 1	DigitalALB Mux 2	DigitalALB Mux 3	DigitalALB Mux 4

Bulgaria



DTT Information provided by

Ivan Penev, Bulgaria



Test Programmes FTA

Mux 1			

Croatia



DTT Information provided by

Aleksandar Medic



National Programmes FTA 64QAM

Mux A	HRT1	HRT2	RTL TV
	NOVA TV		



Test Programmes FTA 64QAM

HTV1			

Czech



DTT Information provided by

Miroslav Kodet, Czech



National Programmes FTA 64QAM

Mux 1	CT1	CT2	CT4
	CT24		
Mux 2	Nova TV	Prima TV	Nova Cinema
	Prima Cool	Barrandova TV	
Mux 3	Z1	Ocko	TV Noe
	Public TV		



National Programmes FTA

Mux 4	CT1 HD	Nova HD	O2 Info

Macedonia



DTT Information provided by

Branislav Pekic, Serbia



Test Programmes FTA

On.net	Test		

Hungary



DTT Information provided by

Attila Horvath-Militicsi, Hungary



National Programmes FTA 64QAM

Mux A	m1 HD	m2 HD	
Mux C	RTL Klub	Duna TV HD	Duna II Autonómia SD
	Euronews	TV2	

National Programmes Encrypted

Mux A	ATV	Hír TV	

Capital City

Other City

8 / 34 VHF or UHF Transmitter

Multiplex Bouquet	Programme Name

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Poland



DTT Information provided by

Jacek Pawlowski, Poland



National Programmes FTA

TVP1	TVP2	TVP Info	TVN
Polsat	TV4	PULS	
TVP HD			

Romania



DTT Information provided by

Alexandru Porosanu, Romania



Test Programmes FTA

Mux Ch 31	ProTV HD		
Mux Ch 54	TVR1	TVR-HD	
Mux Ch 59	Antena 1	Antena 3	National TV
	TV3	TVR Cultural	Realitatea TV

Serbia



DTT Information provided by

Branislav Pekic, Serbia



National Programmes FTA

RTS 1	RTS 2	RTS Digital	



National Programmes FTA

RTS HD			

Slovakia



DTT Information provided by

Miroslav Kodet, Czech



National Programmes FTA

Mux 1	TV Jednotka	TV Dvojka	TV Markiza
	TV JOJ		

Regional Programme Bratislava FTA

Mux 1	TA3		

Regional Programme Banská Bystrica FTA

Mux 1	AZTV		

Slovenia



DTT Information provided by

Branislav Pekic, Serbia



National Programmes FTA

Mux A	TV Slovenija 1	TV Slovenija 2	TV Slovenija 3

Regional Programmes FTA

Zahod (West)	TV Koper-Cpodistria		
Vzhod (East)	Tele M		



Test Programme FTA

TV Slovenija HD			

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Eastern Europe

Belarus

DTT Information provided by — Информация представлена



Pavel Goroshko, Ukraine — Павлом Горошко, Украина



National Programmes FTA

1st Channel	Channel 8	ОНТ	Harmony
World	СТВ	RTR Belarus	NTV Belarus



National Programmes FTA

1st Channel	Channel 8	ОНТ	Harmony
World	СТВ	RTR Belarus	NTV Belarus

Russia — Россия

DTT Information provided by — Информация предоставлена



Nikolay Ovsyadovskiy, Russia — Николаем Овсядовским, Россия



National Programmes FTA

Первый канал Perviy Kanal	Телеканал Россия Telekanal Rossiya	Вести Vesti	Kultura
	НТВ NTV	5 канал 5 Kanal	Бибигон + Теленяня Bibigon + Telenyanya

Local Programmes Moscow Encrypted

Mux Ch 32	DVisionLive	DVisionNews	DVisionSpice

Test Programme Moscow

Mux Ch 34	VGTRK Test HD		

Regional Programmes Ekaterinburg

Mux Ch 22	Муз-ТВ Muz-TV	Время Vremya	7ТВ 7 TV
	Дом Кино Dom Kino	Орбита-4 Orbita-4	Россия Дубль 4 Russia Double-4
	Telecafe	Теленяня Telenyanya	TV Centr
Mux Ch 40	Kanal 1	Телеканал Россия Telekanal Rossiya	Вести Vesti
	Culture	Спорт Sports	Теленяня Telenyanya
	ОТВ OTV	НТВ NTV	
Mux Ch 60	Дом Кино Dom Kino	Муз-ТВ Muz-TV	Канал 4 Kanal 4
	МИР MIR	ТНТ TNT	ТВЦ TVC
	Luxe TV		

Regional Programmes Smolensk

Mux Ch 50	Телеканал Россия Telekanal Rossiya	Петербург 5 канал Petersburg 5 Kanal	Югра Ugra

Regional Programmes Kazan

Ren-TV	МИР MIR	Муз-ТВ Muz-TV	TNV
Sport Telenyanya	STS	Domashniy	ТНТ TNT
2x2	Дом Кино Dom Kino		

Regional Programmes Khanty-Mansiysk

Mux Ch 40	Канал 1 +2 Kanal 1 +2	Телеканал Россия +2 Telekanal Rossiya +2	Вести Vesti
	Culture	Спорт Sports	Югра Ugra
	Канал 5 +3 Kanal 5 +3	НТВ +2 NTV +2	
Mux Ch 50	ТВЦ TVC	МИР MIR	Дом Кино Dom Kino
	Время Vremya	Теленяня Telenyanya	Telecafe
	Муз-ТВ Muz-TV	ТНТ TNT	

Ukraine — УКРАИНА

DTT Information provided by — Информация представлена



Pavel Goroshko, Ukraine — Павлом Горошко, Украина



National Programmes FTA

UDTVN	MEGASPORT	KULTURA	INTER
	FOOTBALL	M2	KDRTRK
	MUSICBOX	TBi	NTN
	GUMOR TV		

Regional Programmes FTA

ERA PRODUCTION	UT-1	K1	RADA
	TV KYIV		
KRRT	5 KANAL	MEGASPORT	TONIS
	OTV	ICTV	
GAMMA CONSULTING	GAMMA	M2	M1
	RUMUSIC	NEWS_ONE	TEST

AFRICA

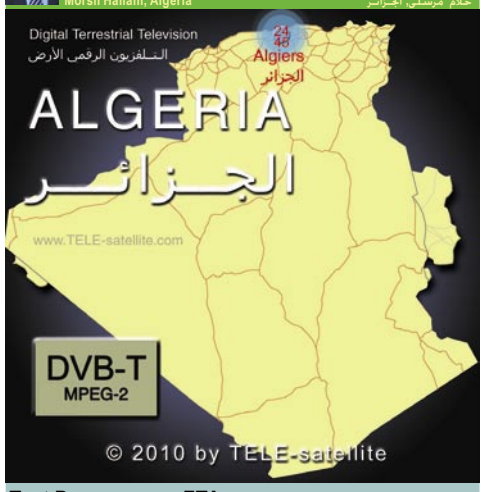
Maghreb

Algeria — الجـــزائـــر

DTT Information provided by — معلومات متوفرة من السيد



Morsli Hallam, Algeria — حلام مرسلي الجزائر



Test Programmes FTA

كنال ألجيري (Canal Algèrie)	قنات الثالثة (TV A3)	الجزائرية الخامسة (TV Amazigh)	الجزائرية الرابعة (TV Coran)
قنات الوطنية Programme) (National			

Capital City — Other City

8 VHF or
34 UHF Transmitter

Multiplex Bouquet	Programme Name

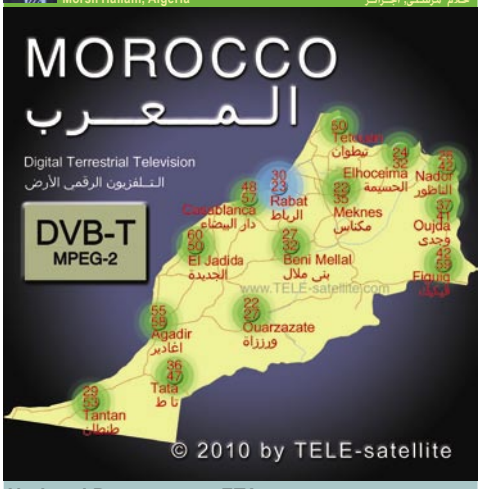
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Morocco المـــعـــرب



DTT Information provided by معلومات متوفرة من السيد

Morsli Hallam, Algeria حلام مرسلي, الجزائر



National Programmes FTA

الأولى (Al Aoula)	الثانية (2M)	الرياضية (Arryadia)	الرابعة (Arrabia)
السادسة (Assadissa)	افلام tv (Aflam TV)		

Tunisia تـــونـــس



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Morsli Hallam, Algeria حلام مرسلي, الجزائر



Test Programme FTA

شـــوف tv (Chouf TV)			

Sub Sahara Africa

Kenya



South Africa



DTT Information provided by

Ingo Salomon, South Africa



Test National Programmes FTA

Mux 1	SABC 1	SABC 2	SABC 3
	Trinity		
Mux 2	E.tv		

Test National Programmes Encrypted

Mux 3	M'Net	DStv	

Namibia



DTT Information provided by

Ingo Salomon, South Africa



National Programmes Encrypted 8PSK

M-Net	Super Sport 1	SABC Africa	Discovery
Programme O			

AMERICA

North America

Canada



DTT Information provided by

Ron Roessel, USA



Local Programmes FTA Ottawa

Ch 6 CIII-TV6	Ch 9 CBOFT	Ch 13 CJOH-TV	Ch 17 CJMT-TV2
Ch 20 CITY-TV3	Ch 22 CHCH-TV1	Ch 24 CICO TV24	Ch 25 CBOT
Ch 27 CFMT-TV2	Ch 33 SUNTV	Ch 42 CITS-TV1	Ch 43 CHRO-TV43

Local Programmes FTA Quebec

Ch 12 CBVT	Ch 15 CIVQ-TV	Ch 20 CKMI-TV	Ch 25 CBVE-TV
Ch 39 CFAP-TV	Ch 49 CFCM-TV		

Local Programmes FTA Winnipeg

Ch 7 CKY-TV	Ch 9 CKND-TV	Ch 27 CBWT	Ch 35 CIIT-TV
Ch 51 CBWFT			

Local Programmes FTA Toronto

Ch 9 CFTO-TV	Ch 19 CICA-TV	Ch 20 CBLT	Ch 40 CKXT-TV
Ch 41 CIII-TV41	Ch 44 CJMT-TV	Ch 47 CFMT-TV	Ch 51 CITY-TV

Local Programmes FTA Edmonton

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Ch 11 CBXT	Ch 13 CITV-TV	Ch 17 CHCA-TV2	Ch 23 CKES-TV
Ch 26 CJAL-TV	Ch 42 CBXFT	Ch 44 CJEO-TV	Ch 47 CFRN-TV
Ch 51 CKEM-TV			

Local Programmes FTA Vancouver

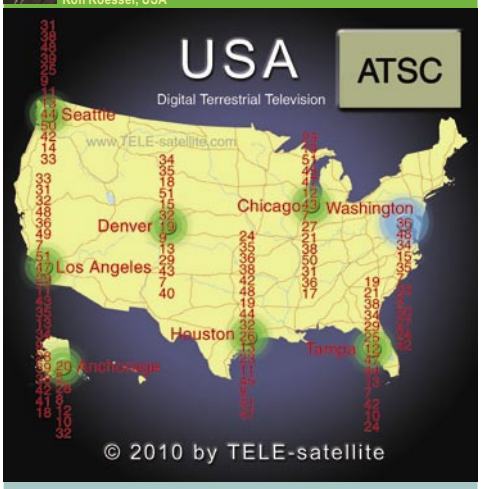
Ch 8 CHAN-TV	Ch 10 CKVU-TV	Ch 17 CIVI-TV2	Ch 20 CHNM-TV
Ch 26 CBUFT	Ch 32 CIVT-TV	Ch 43 CBUT	

USA



DTT Information provided by

Ron Roessel, USA



Regional Programmes FTA Washington

FOX	NBC	ION	UNIVISION
MYTV	ABC	PBS	CBS
CW	ETV		

Regional Programmes FTA Los Angeles

TBN	CW	INDEPENDENT	PBS
NBC	ABC	AZTECA	TELEFUTURA
FOX	CBS	MYTV	UNIVISION
ION			

Regional Programmes FTA Denver

CW	CBS	PBS	UNIVISION
TELEFUTURA	FOX	MYTV	NBC
TELEMUNDO	ION	ABC	INDEPENDENT

Regional Programmes FTA Houston

TBN	NBC	TELEFUTURA	CW
INDEPENDENT	TELEMUNDO	ION	FOX
ABC	CBS	UNIVISION	PBS
TUVISION			

Regional Programmes FTA Chicago

NBC	CW	MYTV	TELEMUNDO
PBS	CBS	ION	INDEPENDENT
UNIVISION	TELEFUTURA	FOX	

Regional Programmes FTA Tampa

INDEPENDENT	MYTV	PBS	ABC
UNIVISION	FOX	TELEFUTURA	CW
NBC	ION	CBS	

Regional Programmes FTA Anchorage

FOX	MYTV	CBS	PBS
ABC	NBC	INDEPENDENT	

Regional Programmes FTA Seattle

INDEPENDENT	ABC	NBC	CBS
MYTV	PBS	CW	FOX
AMR1/AZAM	UNIVISION	REL	TBN
ION			

Central America

Bermudas



International Programmes Encrypted

WOW	Bermuda Weather	Look TV	Bermuda Government
	WOW	WNYW	WNET
	BBC World	ZFB	ZBM
	3 Angels Network	VSB	TBN
	CNN	TruTV	TLC
	Bloomberg	CNN Headlines	CNBC
	Spike TV	TNT	TBS
	ABC Family	Lifetime	The Word
	Superstation WGN	WDTV	WPIX
	Weather Channel	USA	My9 WWOR
	RTP	Disney Channel	Fox News
	BET	Animal Planet	CMT
	E!	National Geographic	Discovery
	Nickelodeon	Sci-Fi	

Guatemala



National Programmes FTA

RTG			

Guatemala



National Programmes FTA

Campus TV			

Mexico



DTT Information provided by

Juan Carlos Miranda Duarte, Chile



Local Programmes FTA Mexico City

Televisión Metropolitana	TV Azteca	Televisora del Valle de Mexico	Compañia Internacional de Radio y Televisión
Televimex			

Local Programmes FTA Guadalajara

Televimex	Televisora de Occidente	TV Azteca	

Local Programmes FTA Monterrey

Televimex	TV Azteca	Television Digital	

Local Programmes FTA Tijuana

Televimex	Radio Televisión	TV Azteca	Televisora de Calimex
Tele Nacional	XHBJ-TV		

Local Programmes FTA Ciudad Juarez

Canales de Televisión Populares	TV Azteca		

Capital City

Other City

8 / 34 VHF or UHF Transmitter

Multiplex Bouquet	Programme Name

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South America

Argentina



DTT Information provided by

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Test Programmes FTA

LS82 TV Canal 7	TeleSUR		

Brazil



DTT Information provided by

Juan Carlos Miranda Duarte, Chile



Regional Programmes FTA Belo Horizonte

TV Minas	TV Ômega	Rádio e TV Alterosa	Record
TV Globo	TV Bandeirantes		

Regional Programmes FTA Rio de Janeiro

TV Globo	SBT	Rede Record	TV Bandeirantes
TV Corcovado	Rede TV	TV Brasil	

Regional Programmes FTA Recife

TV Globo	SBT	Rede Record	TV Bandeirantes
Rede TV			

Regional Programmes FTA Belém

TVSBT Canal 5	Televisão Liberal	Sistema Clube do Pará	

Regional Programmes FTA Manaus

Rádio TV do Amazonas	Rádio e Televisão Rio Negro	Televisão A Crítica	Televisão Manauara
Cultura do Amazonas			

Local Programmes FTA Porto Alegre

RBS			

Local Programmes FTA Salvador

TV Bahia.			

Local Programmes FTA Cuiabá

TV Centro América			

Local Programmes FTA Uberlândia

Rede Integração			

Local Programmes FTA Brasilia

TV Globo	TV Justiça	EBC	

Local Programmes FTA Campo Grande

TV Morena			

Local Programmes FTA Fortaleza

TV Mares Verdes			

Local Programmes FTA João Pessoa

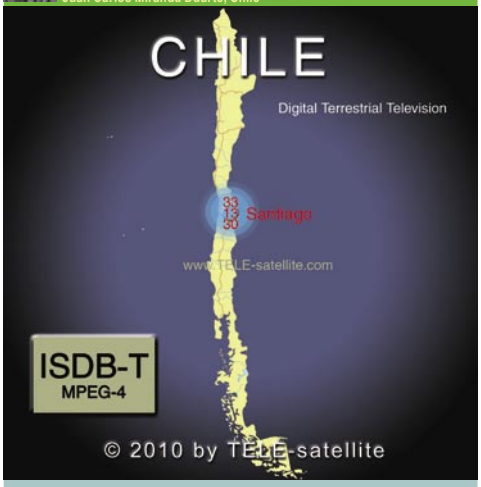
TV Cabo Branco			

Chile



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National Programmes FTA

Mux Ch 33	TVN		
Mux Ch 13	Canal 24		
Mux Ch 30	Chilevision		

Colombia



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Regional Programmes FTA Medellín

Mux Ch 56	Teleantioquia		

Test Programmes FTA Bogotá

Señal Colombia	Señal Institucional		

Peru



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Test Programmes FTA

Venezuela



DTT Information provided by

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Test Programmes FTA

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ASIA

Middle East

Israel ישראל

DTT Information provided by המידע נמסר על ידי



Benjamin Ganor, Israel בנימין גנור - ישראל



National Programmes FTA

IDAN Plus	ערוץ 1 IBA 1	ערוץ 33 IBA 33	ערוץ 2 Programme 2
	ערוץ 10 Programme 10	ערוץ הכנסת Knesset Programme	

Central Asia

Azerbaijan



National Programmes FTA

Mux 1	AzTV	ITV	

Regional Programmes FTA

Mux 2	Baku TV	Ganja TV	Nakchivan TV

South West Asia

Iran ایران

DTT Information provided by



Masood Baziar, Iran



National Programmes FTA

شبکه 1 Channel 1	شبکه 2 Channel 2	شبکه 3 Channel 3	شبکه 4 Channel 4
شبکه تهران Tehran Channel	شبکه قرآن Qoran Channel	العالم Al Alam Arabic	پرس تی وی Press TV English
شبکه خبر Iran News Network	شبکه استانی آذربایجان شرقی East Azerbaijan Channel Farsi and Turkish		

South East Asia

Australia



National Programmes FTA SD

ABC 1	ABC 2	Go!	Network Ten
Nine	One	Prima	SBS One
SBS Two	Southern Cross	Southern Cross Ten	Win

Regional Programmes FTA SD Sidney

Australian Christian Channel	Channel NSW	Digital Forty Four	NBN

National Programmes FTA HD

ABC HD	Nine HD	Prime HD	Seven HD
7 HD	Southern Cross HD	Southern Cross Ten HD	Win HD

Regional Programmes FTA HD Sidney

NBN HD	One HD	SBS One	

China 中文

DTT Information provided by



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Local Programmes FTA Beijing 北京

Mux Ch 22	北京电视台记录高清频道 BTV HD		
Mux Ch 45	央视1套 CCTV1	央视2套 CCTV2	CCTV-音乐 CCTV-music
	CCTV-少儿 CCTV-child	北京电视台 BTV	教育频道1套 CETV-1
Mux Ch 46	央视1套高清频道 CCTV1-HD		

Local Programmes FTA Shenzhen 深圳

Mux Ch 32	央视高清综合频道 CCTV-HD	深圳卫视 SZTV	公共频道 SZTV-7
Mux Ch 50	都市频道 SZTV-1	电视剧频道 SZTV-2	央视1台 CCTV-1
	央视4台 CCTV-4	广东卫视 GDTV	珠江频道 GD
Mux Ch 60	深视高清 SZTV-HD	央视1高清 CCTV1-HD	

Local Programmes FTA Hongkong 香港

Mux Ch 30	翡翠台 Jade	明珠台 Pearl	本港台 Home
	国际台 World		
Mux Ch 35	翡翠2台 Jade 2	互动新闻台 iNews	高清翡翠台 HD Jade
Mux Ch 37	aTV 高清频道 HD aTV	aTV13	中天亚洲台 CTI-Asia
	央视4套 CCTV-4		

Capital City Other City 8 34 VHF or UHF Transmitter

Multiplex Bouquet	Programme Name

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Indonesia



DTT Information provided by

Vincent Witjhun, Indonesia



Test Programme FTA

Test			

International Programmes Encrypted

m2v	BBC World	CNBC Asia	MTV Asia
	Programme V	Nickelodeon	Spacetoon
	Kidsco	Discovery Travel	National Geographic
	Star World	ANTV	Indostar
	Trans TV	SCTV	SCTV
	Metro TV	TV One	ESPN
	Star Sports	STar Movies	Celestial Movies
	Discovery Channel	Discovery Turbo	Fashion TV

Japan



Regional Programmes FTA

青森	NHK青森	青森放送 (RAB)	青森朝日放送 (ABA)
	青森テレビ (ATV)		
宮城	NHK仙台	東北放送 (TBC)	宮城テレビ放送(MMT)
	東日本放送 (KHB)	仙台放送(OX)	
関東	日本放送協会 (NHK)	日本テレビ (NTV)	テレビ朝日 (EX)
	TBSテレビ (TBS)	テレビ東京 (TX)	フジテレビ (CX)
石川	NHK金沢	テレビ金沢 (KTK)	北陸朝日放送 (HAB)
	北陸放送 (MRO)	石川テレビ (ITC)	
静岡	NHK静岡	だいいちテレビ (SDT)	静岡朝日テレビ (SATV)
	静岡放送 (SBS)	テレビ静岡 (SUT)	
近畿	NHK大阪	毎日放送 (MBS)	朝日放送 (ABC)
	関西テレビ (KTV)	読売テレビ (YTV)	
長崎	NHK長崎	長崎放送 (NBC)	長崎国際テレビ (NIB)
	長崎文化放送 (NCC)	テレビ長崎 (KTN)	

Malaysia



Test Programmes FTA 64QAM

TV1	TV2	RTMi	

New Zealand



National Programmes FTA

ONE	TV 2	TV 3	C4
Maori Television	TVNZ 6	TVNZ 7	TV3 Plus 1
Prime	Stratos	Parliament TV	Chinese TV 8
tvCentral	CUE	Te Reo	



DTT Information provided by

Jim Edstein, Taiwan

Taiwan



Test Programmes FTA 64QAM

PTS	HiHD		

South Asia

India



DTT Information provided by

Siddharth Gautam, India



Test Local Programmes FTA

Doordarshan National	Doordarshan News	Doordarshan India	Doordarshan Sports
Doordarshan Bharati			

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Continuously Monitored and Updated by SatcoDX AutoScan Stations around the world 12-01/2010

- The Most Comprehensive Listing of Satellite TV Channels
- New Channels are Marked
- Live On-Air Scanning



52 Pages
Global Satellite TV Data
in DVB-S/S2 and MPEG-2/4
includes Coverage Images and Recent Updates

More than 15500
TV channels listed

SatcoDX AutoScan Station Bangkok



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Satellite Scan Stations

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N
W
E
S
C-Band: INTELSAT 10-02 ◄ 359.2 East (000.8 West)
INTELSAT 10-02, THOR 3,5 - North Europe ◄ 359.2 East (000.8 West)
AMOS 2,3 - Middle East ◄ 356.0 East (004.0 West)
AMOS 2,3 - Europe ◄ 356.0 East (004.0 West)
C-Band: ATLANTIC BIRD 3 - Africa, Europe, Middle America ◄ 355.0 East (005.0 West)
ATLANTIC BIRD 3 - Europe ◄ 355.0 East (005.0 West)
NILESAT 101, 102, ATLANTIC BIRD 4A - Middle East ◄ 353.0 East (007.0 West)
ATLANTIC BIRD 2 ◄ 352.0 East (008.0 West)
ATLANTIC BIRD 2 - Europe ◄ 352.0 East (008.0 West)
ATLANTIC BIRD 1 - Europe ◄ 347.5 East (012.5 West)
EXPRESS A4 ◄ 346.0 East (014.0 West)
TELSTAR 12 - South America ◄ 345.0 East (015.0 West)
TELSTAR 12 - Europe, South Africa ◄ 345.0 East (015.0 West)
TELSTAR 12 - America ◄ 345.0 East (015.0 West)
TELSTAR 12 - Europe ◄ 345.0 East (015.0 West)
C-Band: INTELSAT 901 ◄ 342.0 East (018.0 West)
INTELSAT 901 - Europe, North Africa ◄ 342.0 East (018.0 West)
C-Band: NSS 7 ◄ 338.0 East (022.0 West)
NSS 7 - North Africa, Europe ◄ 338.0 East (022.0 West)
INTELSAT 905 ◄ 335.5 East (024.5 West)
INTELSAT 907 ◄ 332.5 East (027.5 West)
HISPASAT 1C, 1D - South America ◄ 330.0 East (030.0 West)
HISPASAT 1C, 1D - Europe ◄ 330.0 East (030.0 West)
INTELSAT 801 ◄ 328.5 East (031.5 West)
INTELSAT 903 ◄ 325.5 East (034.5 West)
C-Band: NSS 10 ◄ 322.5 East (037.5 West)
C-Band: NSS 806 - America, Europe ◄ 319.5 East (040.5 West)
C-Band: INTELSAT 3R ◄ 317.0 East (043.0 West)
INTELSAT 3R, 11 ◄ 317.0 East (043.0 West)
INTELSAT 1R - South America ◄ 315.0 East (045.0 West)
C-Band: INTELSAT 1R ◄ 315.0 East (045.0 West)
INTELSAT 1R ◄ 315.0 East (045.0 West)
C-Band: INTELSAT 705 ◄ 310.0 East (050.0 West)
INTELSAT 707 ◄ 307.0 East (053.0 West)
C-Band: INTELSAT 805 - America, Europe ◄ 304.5 East (055.5 West)
C-Band: INTELSAT 9 ◄ 302.0 East (058.0 West)
INTELSAT 9 - West Europe, North America ◄ 302.0 East (058.0 West)
AMAZONAS - South America ◄ 299.0 East (061.0 West)
ECHOSTAR 3, RAINBOW 1 - North America ◄ 298.5 East (061.5 West)
ESTRELA DO SUL 1 - South-West South America ◄ 297.0 East (063.0 West)
ESTRELA DO SUL 1 - North-East South America ◄ 297.0 East (063.0 West)
C-Band: BRASILSAT B2 ◄ 295.0 East (065.0 West)
C-Band: BRASILSAT B4 ◄ 290.0 East (070.0 West)
NAHUEL 1A ◄ 288.0 East (072.0 West)
AMC 6 ◄ 288.0 East (072.0 West)
ECHOSTAR 6 - North America ◄ 287.3 East (072.7 West)
HORIZONS 2 ◄ 286.0 East (074.0 West)
AMC5 ◄ 281.0 East (079.0 West)
NIMIQ 4 - North America ◄ 278.0 East (082.0 West)
AMC 9 ◄ 277.0 East (083.0 West)
C-Band: BRASILSAT B3 ◄ 276.0 East (084.0 West)
AMC 16 ◄ 275.0 East (085.0 West)
AMC 3 ◄ 273.0 East (087.0 West)
GALAXY 28 - South America ◄ 271.0 East (089.0 West)
GALAXY 28 - North America ◄ 271.0 East (089.0 West)
GALAXY 28 ◄ 271.0 East (089.0 West)
NIMIQ 1 - North America ◄ 269.0 East (091.0 West)
GALAXY 11,17 - North America ◄ 269.0 East (091.0 West)
GALAXY 25 ◄ 267.0 East (093.0 West)
GALAXY 3C ◄ 265.0 East (095.0 West)
C-Band: GALAXY 3C ◄ 265.0 East (095.0 West)
GALAXY 19 - North America ◄ 263.0 East (097.0 West)
GALAXY 16 ◄ 261.0 East (099.0 West)
AMC 2,4 - DIRECTV 4S/8 - South America ◄ 259.0 East (101.0 West)
AMC 2,4 - DIRECTV 4S/8 - North America ◄ 259.0 East (101.0 West)
AMC 1 ◄ 257.0 East (103.0 West)
AMC 15 ◄ 255.0 East (105.0 West)
C-Band: ANIK F1 ◄ 252.7 East (107.3 West)
ANIK F1R ◄ 252.7 East (107.3 West)
DIRECTV 5 ◄ 250.0 East (110.0 West)
ECHOSTAR 10,11 - North America ◄ 250.0 East (110.0 West)
ANIK F2 ◄ 248.9 East (111.1 West)
SATMEX 6 ◄ 247.0 East (113.0 West)
SATMEX 5 ◄ 243.2 East (116.8 West)
SATMEX 5 ◄ 243.2 East (116.8 West)
DIRECTV 7S ◄ 241.0 East (119.0 West)
ECHOSTAR 7, ANIK F3 ◄ 241.0 East (119.0 West)
GALAXY 23 ◄ 239.0 East (121.0 West)
ECHOSTAR 9 ◄ 239.0 East (121.0 West)
C-Band: GALAXY 18 - North America ◄ 237.0 East (123.0 West)
GALAXY 18 - North America ◄ 237.0 East (123.0 West)
C-Band: GALAXY 14 ◄ 235.0 East (125.0 West)
GALAXY 13, HORIZONS 1 ◄ 233.0 East (127.0 West)
ECHOSTAR 5 ◄ 231.0 East (129.0 West)
GALAXY 27 ◄ 231.0 East (129.0 West)
C-Band: AMC 11 ◄ 229.0 East (131.0 West)
C-Band: GALAXY 15 ◄ 227.0 East (133.0 West)
C-Band: AMC 10 ◄ 225.0 East (135.0 West)
C-Band: AMC 7 ◄ 223.0 East (137.0 West)
C-Band: AMC 8 ◄ 221.0 East (139.0 West)
ECHOSTAR 2 ◄ 212.0 East (148.0 West)
NSS 9 ◄ 183.0 East (177.0 West)
INTELSAT 701 ◄ 180.0 East (180.0 West)
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Global Satellite TV Chart

Compiled by the Worldwide SatcoDX Monitoring Stations, exclusively for TELE-satellite Magazine

New Channels Since Last Issue of TELE-satellite Magazine are marked with a ●

South Africa
SIRIUS 4
4.9 East

SIR004KA



●	12.533	V	STV1	2206	News + Series
	12.562	V	Free2View Demo	27500	Quality Entertain.
●	12.606	V	22 ISRAELI CHANNE	29950	High Quality Home
	12.606	V	04 Walf TV	29950	News + Series
	12.606	V	01 VOX AFRICA	29950	News + Series
	12.606	V	03 Prochainement	29950	News + Series
	12.606	V	05 Prochainement	29950	News + Series
	12.606	V	06 Prochainement	29950	News + Series
	12.606	V	07 LMTV	29950	Low Level
	12.606	V	08 Prochainement	29950	News + Series
	12.606	V	09 Prochainement	29950	News + Series
	12.606	V	10 Prochainement	29950	News + Series
	12.606	V	21 BVN	29950	News + Series
●	12.606	V	99 Canal Promo SAT	29950	News + Series
●	12.606	V	Canal Promo GCast	29950	News + Series
	12.606	V	Occa Africa	29950	Home Cinema
	12.709	V	ETV_Hyde_Park_1	4430	Home Cinema
●	12.716	V	etv Africa	4430	High Quality Home
●	12.716	V	DURBAN-ETV	4430	Home Cinema
●	12.716	V	ETV_Cape_Town_2	4430	Home Cinema
	12.727	V	etv Africa	4430	High Quality Home
●	12.727	V	ETV_Hyde_Park_2	4430	Home Cinema
	12.735	V	Cape_Town_1	4430	Home Cinema

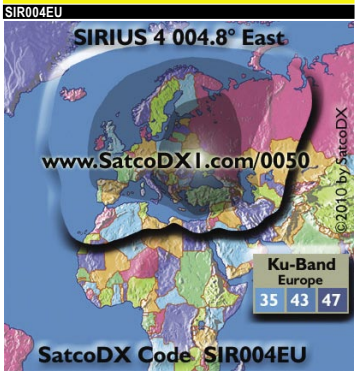
Europe
SIRIUS 4
5.0 East

NSS806CH



●	12.265	H	Boomerang	27500	News + Series
●	12.265	H	Cartoon Network	27500	News + Series
●	12.265	H	Discovery Science	27500	Low Level
●	12.265	H	Discovery Travel	27500	News + Series
●	12.265	H	Discovery World	27500	News + Series
●	12.265	H	Disney Channel	27500	Low Level
●	12.265	H	Hallmark	27500	Low Level
●	12.265	H	Minimax	27500	Advertisement
●	12.265	H	Movies 24	27500	News + Series
●	12.265	H	Romantica	27500	News + Series
●	12.265	H	TCM	27500	News + Series
●	12.265	H	TVR Cultural	27500	Low Level
●	12.265	H	Viasat Explorer	27500	Advertisement
●	12.265	H	Canal Teleshop	27500	Low Level
●	12.265	H	Etno	27500	News + Series
●	12.265	H	Meteo TV	27500	Quality Entertain.
●	12.265	H	Taraf	27500	News + Series
●	12.284	V	H264-Test	27500	High Quality Home
●	12.284	V	AcasaTV	27500	News + Series
●	12.284	V	Download	27500	Quality Entertain.
●	12.284	V	MTV Romania	27500	Home Cinema
●	12.284	V	Pro TV	27500	Home Cinema
●	12.284	V	ProCinema	27500	News + Series
●	12.284	V	Radio Pro Fm Infopro	27500	Quality Entertain.
●	12.284	V	Sport.ro	27500	Quality Entertain.
●	12.284	V	ProTv Intl	27500	Home Cinema
●	12.303	H	AP Romania Discovery	25548	Quality Entertain.
●	12.303	H	CN/TCM RSEE	25548	Quality Entertain.
●	12.303	H	DFLA	25548	Quality Entertain.
●	12.303	H	Disc Science-Poland	25548	Quality Entertain.
●	12.303	H	Disc World-Poland	25548	Quality Entertain.
●	12.303	H	Disc_Romania	25548	Quality Entertain.
●	12.303	H	Discovery (Hungary)	25548	Quality Entertain.
●	12.303	H	Discovery Czech/Slov	25548	Quality Entertain.
●	12.303	H	TCM/Cartoon	25548	Quality Entertain.
●	12.303	H	TCM/Cartoon NL	25548	Quality Entertain.
●	12.303	H	TCM/Cartoon Russian	25548	Quality Entertain.
●	12.341	H	Acasa TV	27500	Low Level
●	12.341	H	Animal Planet	27500	News + Series
●	12.341	H	Antena 1	27500	News + Series
●	12.341	H	B1	27500	Low Level
●	12.341	H	Cinemax	27500	News + Series
●	12.341	H	Discovery	27500	Advertisement
●	12.341	H	FreeX TV	27500	Quality Entertain.
●	12.341	H	HBO	27500	Low Level
●	12.341	H	HBO Comedy	27500	Quality Entertain.
●	12.341	H	National TV	27500	Low Level
●	12.341	H	Pro Cinema	27500	Low Level
●	12.341	H	Pro TV	27500	Low Level
●	12.341	H	Sport1	27500	Quality Entertain.
●	12.341	H	TV 1000	27500	News + Series
●	12.341	H	XDream TV	27500	News + Series
●	12.360	V	GreeceUn 1P9	27500	News + Series
●	12.360	V	Hallmark Benelux 1P5	27500	News + Series
●	12.360	V	Hallmark Croatia-Slo	27500	News + Series
●	12.360	V	Hallmark Czech-Slova	27500	News + Series
●	12.360	V	Hallmark Hungary 1P2	27500	Quality Entertain.
●	12.360	V	Hallmark Hungary T	27500	News + Series
●	12.360	V	Hallmark Israel 1P8	27500	News + Series
●	12.360	V	Hallmark Poland 1P3	27500	Quality Entertain.
●	12.360	V	Hallmark Romania 1P1	27500	News + Series
●	12.360	V	Hallmark Russia 1P7	27500	News + Series
●	12.360	V	Hallmark Scandinavia	27500	News + Series
●	12.360	V	Hallmark Turkey-Mide	27500	Quality Entertain.
●	12.360	V	KidsCO EastEur 1-8	27500	News + Series
●	12.360	V	KidsCO EastEur 9-1	27500	Quality Entertain.
●	12.360	V	KidsCO EastEur Eng	27500	News + Series
●	12.360	V	KidsCO EastEur Gre	27500	News + Series
●	12.360	V	KidsCO EastEur Hun	27500	Quality Entertain.
●	12.360	V	KidsCO EastEur Mi	27500	Quality Entertain.
●	12.360	V	KidsCO EastEur Pol	27500	News + Series
●	12.360	V	KidsCO EastEur Rom	27500	Quality Entertain.
●	12.360	V	KidsCO EastEur Rus	27500	Quality Entertain.
●	12.360	V	KidsCO EastEur Tur	27500	Quality Entertain.
●	12.360	V	KidsCo WestEur 1-8	27500	News + Series
●	12.360	V	KidsCo WestEur 9-1	27500	Quality Entertain.
●	12.360	V	KidsCo WestEur A11	27500	Quality Entertain.
●	12.360	V	KidsCo WestEur A13	27500	News + Series
●	12.360	V	KidsCo WestEur A15	27500	News + Series
●	12.360	V	KidsCo WestEur Eng	27500	News + Series
●	12.360	V	KidsCo WestEur Fra	27500	News + Series
●	12.360	V	KidsCo WestEur Ger	27500	News + Series
●	12.360	V	KidsCo WestEur Por	27500	Quality Entertain.
●	12.360	V	KidsCo WestEur Spa	27500	News + Series
●	12.360	V	Mov24 CEE Hungary	27500	News + Series
●	12.360	V	Mov24 CEE Poland 1	27500	Quality Entertain.
●	12.360	V	Mov24 CEE Romania	27500	News + Series
●	12.360	V	Mov24 CEE Turkey 1	27500	News + Series
●	12.360	V	Mov24 CEEurope 1P11	27500	Quality Entertain.
●	12.360	V	Virtual KidsCo Tes	27500	News + Series
●	12.360	V	Virtual Poland Aud	27500	News + Series
●	12.380	H	ATG EU BSS	27500	Quality Entertain.
●	12.380	H	Harness Racing	27500	News + Series
●	12.380	H	NTV	27500	Quality Entertain.
●	12.380	H	Thoroughbred Racing	27500	News + Series
●	12.380	H	Belsat TV	27500	Quality Entertain.
●	12.380	H	LTV World	27500	Quality Entertain.
●	12.380	H	TVCI new	27500	Quality Entertain.
●	12.380	H	Univermag	27500	News + Series
●	12.399	V	MTVNHD	27500	High Qual. Cinema
●	12.399	V	NatGeo HD	27500	High Qual. Cinema
●	12.399	V	TV 2 Sport HD	27500	High Qual. Cinema
●	12.399	V	Viasat Sport HD	27500	High Qual. Cinema
●	12.418	H	Alphameric Games	27500	Quality Entertain.
●	12.418	H	Alphameric Games plu	27500	Quality Entertain.
●	12.418	H	Alphameric Studio	27500	Quality Entertain.
●	12.418	H	Alphameric Studio pl	27500	Quality Entertain.
●	12.418	H	ATRi - English	27500	Quality Entertain.
●	12.418	H	ATRi - German	27500	Quality Entertain.
●	12.418	H	Betfred	27500	Quality Entertain.
●	12.418	H	BETFRED TV	27500	Quality Entertain.
●	12.418	H	BOYLES SPORTS	27500	Quality Entertain.
●	12.418	H	BRAND TV DEMO	27500	Quality Entertain.
●	12.418	H	CCC TEST CHANNEL	27500	Quality Entertain.
●	12.418	H	CORAL - SIRIUS	27500	Quality Entertain.
●	12.418	H	CORAL EUROPE	27500	Quality Entertain.
●	12.418	H	CORAL UK SIS	27500	Quality Entertain.
●	12.418	H	CORAL WITH SIS DA	27500	Quality Entertain.
●	12.418	H	ESP CHANNEL- SIRI	27500	Quality Entertain.
●	12.418	H	EURO RACING - NO	27500	Quality Entertain.
●	12.418	H	EURO RACING - SIR	27500	Quality Entertain.
●	12.418	H	iSIS Channel	27500	Quality Entertain.
●	12.418	H	LADBROKES IP DATA	27500	Quality Entertain.
●	12.418	H	LTEST	27500	Quality Entertain.
●	12.418	H	LXTRA SILVER	27500	Quality Entertain.
●	12.418	H	SIS Racing - Data	27500	Quality Entertain.
●	12.418	H	SIS Racing - Germ	27500	Quality Entertain.
●	12.418	H	SIS Racing - Germ	27500	Quality Entertain.
●	12.418	H	SIS Racing - INDE	27500	Quality Entertain.
●	12.418	H	SIS+	27500	Quality Entertain.
●	12.418	H	SPECIAL LADBROKES	27500	Quality Entertain.
●	12.418	H	SPECIAL WILLIAM H	27500	Quality Entertain.
●	12.418	H	STAN JAMES	27500	Quality Entertain.
●	12.418	H	TEMP LADBROKES EI	27500	Quality Entertain.
●	12.418	H	TOTE - SIRIUS	27500	Quality Entertain.
●	12.418	H	TOTE SIS AUDIO AN	27500	Quality Entertain.
●	12.418	H	VISION AUDIO AND	27500	Quality Entertain.
●	12.418	H	WHO IP CLEAR	27500	Quality Entertain.
●	12.437	V	SVT HD	27500	High Qual. Cinema
●	12.437	V	TV1000 HD	27500	High Qual. Cinema
●	12.456	H	NTLIVE AWTEW	27500	Home Cinema
●	12.456	H	B39	27500	News + Series
●	12.456	H	Spel 1	27500	News + Series
●	12.476	V	TV 2/Bornholm	27500	Quality Entertain.
●	12.476	V	TV 2/Fyn	27500	Quality Entertain.
●	12.476	V	TV 2/Lorry	27500	Quality Entertain.
●	12.476	V	TV 2/Midt-Vest	27500	Quality Entertain.
●	12.476	V	TV 2/Nord	27500	Quality Entertain.
●	12.476	V	TV 2/Syd	27500	Quality Entertain.
●	12.476	V	TV 2/Øst	27500	Quality Entertain.
●	12.476	V	TV 2/Østjylland	27500	Quality Entertain.
●	12.608	H	TV 1000 Ru Kino FS	27500	Quality Entertain.
●	12.608	H	TV1000 Action East	27500	Quality Entertain.
●	12.608	H	TV1000 East FSS	27500	News + Series
●	12.608	H	TV6 Hungary FSS	27500	Quality Entertain.
●	12.608	H	Viasat Sport FSS	27500	Quality Entertain.
●	12.608	H	Viasat3 FSS	27500	Quality Entertain.
●	12.637	H	Explorer/Spice(FSS)	14468	Quality Entertain.
●	12.637	H	TV1000 Balkan FSS	14468	Quality Entertain.
●	12.637	H	TV1000 Poland (FSS	14468	Quality Entertain.
●	12.637	H	Viasat History (FSS)	14468	Quality Entertain.
●	12.672	H	TISA1	3300	Quality Entertain.
●	12.674	V	ROMANTICA	10000	News + Series
●	12.674	V	ALPHA TV	10000	Low Level
●	12.674	V	CANAL TELESHOP	10000	Low Level
●	12.674	V	CREDO TV	10000	Low Level
●	12.674	V	MONEY CHANNEL	10000	News + Series
●	12.674	V	REALITATEA TV	10000	News + Series
●	12.680	H	Idealniy mir	9400	Quality Entertain.
●	12.680	H	Kawaii.TV	9400	News + Series
●	12.680	H	TEST2	9400	News + Series
●	12.731	V	2T	15300	High Quality Home
●	12.731	V	KiKo	15300	High Quality Home
●	12.731	V	Planeta	15300	High Quality Home
●	12.731	V	Svit	15300	High Quality Home
●	12.731	V	English_Club	15300	News + Series
●	12.731	V	MalyatkoTV	15300	News + Series
●	12.731	V	Menu TV	15300	News + Series
●	12.731	V	People	15300	Quality Entertain.
●	12.731	V	SHOPping TV	15300	Low Level
●	12.731	V	Turburo	15300	News + Series

SIR004EU



How To Read This Chart

Digital Satellite TV listed in SatcoDX Satellite Chart is transmitted in four different modes: there are two transmission modes, DVB-S and DVB-S2, and two modulation modes, MPEG-2 and MPEG-4.

The **DVB-S/MPEG-2** combination is the most widely used mode for Standard Definition TV whereas **DVB-S2/MPEG-4** is used for High Definition TV. Satellite Receivers manufactured for DVB-S and MPEG-2 are NOT capable of receiving signals transmitted in DVB-S2 or modulated in MPEG-4. Most modern high-quality and high-priced HDTV satellite receivers can do it all: they can receive both DVB-S and DVB-S2 transmissions as well as modulations in MPEG-2 and MPEG-4. A satellite receiver with a DVB-S2 tuner can also receive DVB-S channels but it needs separate demodulators for MPEG-2 and MPEG-4.

The SatcoDX Satellite Chart lists all of these channels regardless of what transmission mode or modulation mode they use and marks each channel with the mode that it uses. If you have a standard digital receiver look for channels marked like this:

TV channel transmitted in **DVB-S** and modulated in **MPEG-2**

If you have a high quality HDTV receiver look for channels marked like this:

TV channel transmitted in **DVB-S2** and modulated in **MPEG-4**

Some channels are encrypted and cannot be received with FTA (Free-To-Air) receivers; you would need receiver with a CI or CAM slot. These channels are marked like this:

Standard TV channel in DVB-S and MPEG-2 but encrypted

The same is true for some HDTV channels. These are marked like this:

High definition TV channel in DVB-S2 and MPEG-4 but encrypted

Some providers choose different transmission/modulation mode combinations. This is done primarily for technical reasons; these channels are marked like this:

TV channel transmitted in **DVB-S** and modulated in **MPEG-4**

sames a before, but encrypted

TV channel transmitted in **DVB-S2** and modulated in **MPEG-2**

sames a before, but encrypted

Note: transmission mode DVB-S2 and modulation mode MPEG-4 are the most effective modes and will gradually become more widely used.

The term Programming Type is a SatcoDX proprietary definition based on a kind of reverse logic. If a provider chooses to transmit their programming in MPEG-4 with AC3 Surround Sound, then it can safely be assumed that the high cost of transmission will be matched by equally high quality content. The use of Surround Sound really only makes sense when used with movies so such a channel with Surround Sound would make it a **High Quality Home Cinema** channel. If a program provider chooses normal audio transmitted in Layer 2 it most likely isn't a movie channel but rather a high quality general entertainment channel. SatcoDX identifies these channels as **High Quality Home Entertainment**.

If a provider opts to utilize the more economic MPEG-2 transmission mode, but decides to use either AC3 Surround Sound or standard Layer 2 audio transmitting at very high bitrates over 5 Mbps, this generally indicates that it is a movie channel and SatcoDX refers to these as **Home Cinema**.

If however the average bitrate of a channel falls between 3 and 5 Mbps, then this channel would typically not be a movie channel. SatcoDX considers this type of channel to be a **Quality Entertainment** channel that is usually used by a national broadcaster or a public television station.

The most cost effective way of transmitting a digital channel is by using MPEG-4 and Layer 1 audio. This mode is sometimes used for point-to-point transmissions but is generally not meant for public viewing since MPEG-4 receivers are not normally used in the reception of low quality channels. SatcoDX refers to them as **Cost Conscious Entertainment**.

The most economic transmission mode is MPEG-2 with a low Bitrate between 1.5 and 3 Mbps. This mode reaches the largest number of viewers at modest costs with moderate quality and is thus best used by news channels and general entertainment channels. These channels are not meant to be watched on big screen TVs. SatcoDX identifies them as **News + Series**.

Some providers scrape the bottom of the barrel and minimize the bitrate to between 0.5 and 1.5 Mbps. The resulting low quality is clearly visible to the viewer. Quality is of no importance for such a program provider. This is merely their way of showing that they exist. SatcoDX refers to them as **Low Level**.

Lastly, there are channels that only provide still pictures or some form of a slide show with the displayed image changing every so often. Pay operators typically use this method to show a fixed FTA picture or by commercial operators urging viewers to dial a pay number. In any case, these channels are not TV programs and are identified as **Advertisement** by SatcoDX.

TV FTA | DVB-S MPEG-2 | DVB-S MPEG-4 | DVB-S2 MPEG-2 | DVB-S2 MPEG-4

TV CRYPT | DVB-S MPEG-2 | DVB-S MPEG-4 | DVB-S2 MPEG-2 | DVB-S2 MPEG-4

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
● 11.766	H	FOOTBALL	27500	Home Cinema
11.766	H	KANAL UKRAINA	27500	Quality Entertain.
11.766	H	TET	27500	Quality Entertain.
11.766	H	TRK Novyny	27500	Low Level
11.766	H	Channel 5 (Ukraine)	27500	Quality Entertain.
11.766	H	GLAS	27500	Quality Entertain.
11.766	H	KRT	27500	Quality Entertain.
11.766	H	NOVY CHANNEL	27500	Quality Entertain.
11.766	H	RADA	27500	Quality Entertain.
12.072	H	UT1	27500	High Quality Home
12.072	H	INTER+	27500	Quality Entertain.
12.072	H	ENTER	27500	Quality Entertain.
12.072	H	ENTER-FILM	27500	Quality Entertain.
12.072	H	OSK-Odessa	27500	Quality Entertain.
12.072	H	SCI	27500	Quality Entertain.
12.072	H	Star TV UKR	27500	Quality Entertain.
12.072	H	UBC	27500	Quality Entertain.
12.072	H	Univermag	27500	News + Series
● 12.111	H	ESPN Europe	27500	Quality Entertain.
● 12.111	H	PB	27500	News + Series
● 12.111	H	PG	27500	News + Series
● 12.111	H	Romantica 1	27500	Quality Entertain.
● 12.111	H	Romantica 2	27500	Quality Entertain.
● 12.111	H	TNT Germany	27500	News + Series
● 12.111	H	Travel	27500	Quality Entertain.
● 12.111	H	CUSTOMER NETWORKS	27500	Quality Entertain.
● 12.111	H	Global 1	27500	News + Series
● 12.111	H	Global 2	27500	Low Level
12.149	H	Antena 3	27500	News + Series
12.149	H	AXN	27500	News + Series
12.149	H	AXN Crime	27500	News + Series
12.149	H	AXN SciFi	27500	News + Series
● 12.149	H	Da Vinci Learn	27500	Low Level
12.149	H	Eurosport	27500	Quality Entertain.
12.149	H	Kanal D	27500	Low Level
12.149	H	OTV	27500	Low Level
12.149	H	Prima TV	27500	News + Series
12.149	H	Realitatea	27500	Advertisement
12.149	H	TV Sport	27500	News + Series
12.149	H	TVR 1	27500	Quality Entertain.
12.149	H	TVR 2	27500	News + Series
● 12.149	H	U	27500	News + Series
12.149	H	Viasat History	27500	Advertisement
● 12.149	H	AKTA info	27500	Advertisement
12.149	H	TV Paprika	27500	Advertisement
● 12.169	V	Cartoon Net / TCM	27500	High Quality Home
● 12.169	V	Detsky	27500	High Quality Home
● 12.169	V	Discovery Channel	27500	High Quality Home
● 12.169	V	Discovery Science	27500	High Quality Home
● 12.169	V	Discovery World	27500	High Quality Home
● 12.169	V	Drive	27500	High Quality Home
● 12.169	V	Hallmark	27500	High Quality Home
● 12.169	V	ICTV	27500	High Quality Home
● 12.169	V	Kids Co	27500	High Quality Home
● 12.169	V	National Geographic	27500	High Quality Home
● 12.169	V	Russkiy Illusion	27500	High Quality Home
● 12.169	V	Spice	27500	High Quality Home
● 12.169	V	Test19	27500	High Quality Home
● 12.169	V	Test5	27500	High Quality Home
● 12.169	V	TV1000 Action	27500	High Quality Home
● 12.169	V	TV1000 Russkoe Kino	27500	High Quality Home
● 12.169	V	Viasat Explorer	27500	High Quality Home
● 12.169	V	Viasat History	27500	High Quality Home
● 12.169	V	Охота и рыбалка	27500	High Quality Home
● 12.169	V	T E S T	27500	High Quality Home
● 12.188	H	INTERTRACK - Data	27500	Quality Entertain.
● 12.188	H	Signal 2 ENC 4 AU	27500	News + Series
● 12.188	H	Signal 2 ENC 4 AU	27500	News + Series
● 12.188	H	Signal 2 ENC 5 AU	27500	News + Series
● 12.188	H	Signal 2 ENC 5 AU	27500	News + Series
● 12.188	H	Signal 2 ENC 6 AU	27500	Quality Entertain.
● 12.188	H	Signal 2 ENC 6 AU	27500	Quality Entertain.
● 12.207	V	24 Техно	27500	High Quality Home
● 12.207	V	AXN Sci-Fi	27500	High Quality Home
● 12.207	V	CNN	27500	High Quality Home
● 12.207	V	ESPN Classic	27500	High Quality Home
● 12.207	V	Extreme Sports	27500	High Quality Home
● 12.207	V	Fox Crime	27500	High Quality Home
● 12.207	V	Fox Life	27500	High Quality Home
● 12.207	V	Jetix	27500	High Quality Home
● 12.207	V	MGM	27500	High Quality Home
● 12.207	V	NG Wild	27500	High Quality Home
● 12.207	V	Nickelodeon	27500	High Quality Home
● 12.207	V	The Adult Channel	27500	High Quality Home
● 12.207	V	TV XXI	27500	High Quality Home
● 12.207	V	TV1000	27500	High Quality Home
● 12.207	V	VH1	27500	High Quality Home
● 12.207	V	Viasat Sport	27500	High Quality Home
● 12.207	V	Zone Club	27500	High Quality Home
● 12.207	V	Zone Reality	27500	High Quality Home
● 12.207	V	Настоящее страшное	27500	High Quality Home
● 12.207	V	Феникс + Кино	27500	High Quality Home
12.226	H	Animal Planet Benelu	25540	News + Series
12.226	H	Animal Planet Europe	25540	News + Series
12.226	H	Animal Planet Europe	25540	News + Series
12.226	H	Animal Planet Poland	25540	Quality Entertain.
12.226	H	Discovery Benelux	25540	Quality Entertain.
12.226	H	Discovery Benelux	25540	Quality Entertain.
12.226	H	Discovery Central Eu	25540	Quality Entertain.
12.226	H	Discovery Middle Eas	25540	Quality Entertain.
12.226	H	Discovery Poland	25540	News + Series
12.226	H	Discovery World	25540	News + Series
12.226	H	Discovery World - Cz	25540	News + Series
12.226	H	Discovery World DV	25540	News + Series
12.226	H	Discovery World Turk	25540	News + Series
12.226	H	ID Europe	25540	Quality Entertain.
12.226	H	Science Europe	25540	Low Level
12.226	H	Science Europe - Cze	25540	News + Series
12.226	H	Science Europe DVB	25540	News + Series
12.226	H	Science Europe Turki	25540	Low Level
12.226	H	Travel & Living Euro	25540	Quality Entertain.
12.226	H	Travel & Living Eu	25540	Quality Entertain.
12.226	H	Travel & Living Euro	25540	News + Series
12.245	V	EbS Europe By Satell	27500	Quality Entertain.
● 12.245	V	EbS+	27500	News + Series

SIR004NO



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.727	H	DR Update	27500	Quality Entertain.
11.727	H	TV 2 Sport	27500	Quality Entertain.
11.727	H	TV2 Charlie	27500	Quality Entertain.
11.727	H	TV2 Film	27500	Quality Entertain.
● 11.727	H	TV2 NEWS	27500	Quality Entertain.
11.727	H	TV2 Zulu	27500	Quality Entertain.
● 11.727	H	TV4 Guld	27500	Quality Entertain.
● 11.727	H	Viasat Golf	27500	Quality Entertain.
11.747	V	TV3 Puls	27500	Quality Entertain.
11.747	V	TV4	27500	Quality Entertain.
11.747	V	Viasat Xtra 4	27500	Quality Entertain.
11.747	V	Allsvenskan 1	27500	Advertisement
11.747	V	Allsvenskan 2	27500	Advertisement
11.747	V	Allsvenskan 3	27500	Advertisement
11.747	V	Allsvenskan 4	27500	Advertisement
11.747	V	Allsvenskan 5	27500	Advertisement
11.747	V	TV 2 Sport 2	27500	Advertisement
11.747	V	TV 2 Sport 3	27500	Advertisement
11.747	V	TV 2 Sport 4	27500	Advertisement
11.747	V	TV 2 Sport 5	27500	Advertisement
11.747	V	Viasat Xtra 1	27500	Advertisement
11.747	V	Viasat Xtra 2	27500	Advertisement
11.747	V	Viasat Xtra 3	27500	Advertisement
11.747	V	Viasat Xtra 5	27500	Advertisement
11.747	V	Viasat Xtra 6	27500	Advertisement
11.785	V	SVT1 ABC	27500	Quality Entertain.
11.785	V	SVT1 Gävledala	27500	Quality Entertain.
11.785	V	SVT1 Mittnytt	27500	Quality Entertain.
11.785	V	SVT1 Nordnytt	27500	Quality Entertain.
11.785	V	SVT1 REG	27500	Quality Entertain.
11.785	V	SVT1 Smålandsnytt	27500	Quality Entertain.
11.785	V	SVT1 Sydnytt	27500	Quality Entertain.
11.785	V	SVT1 Tvärsnytt	27500	Quality Entertain.
11.785	V	SVT1 Värmlandsnytt	27500	Quality Entertain.
11.785	V	SVT1 Västerbottensny	27500	Quality Entertain.
11.785	V	SVT1 Västnytt	27500	Home Cinema
11.785	V	SVT1 Östnytt	27500	Quality Entertain.
11.785	V	SVT2 ABC	27500	Home Cinema
11.785	V	SVT2 Gävledala	27500	Quality Entertain.
11.785	V	SVT2 Mittnytt	27500	Quality Entertain.
11.785	V	SVT2 Nordnytt	27500	Home Cinema
11.785	V	SVT2 REG	27500	Home Cinema
11.785	V	SVT2 Smålandsnytt	27500	Quality Entertain.
11.785	V	SVT2 Sydnytt	27500	Home Cinema
11.785	V	SVT2 Tvärsnytt	27500	Quality Entertain.
11.785	V	SVT2 Värmlandsnytt	27500	Home Cinema
11.785	V	SVT2 Västerbottensny	27500	Home Cinema
11.785	V	SVT2 Västnytt	27500	Quality Entertain.
11.785	V	SVT2 Östnytt	27500	Quality Entertain.
11.804	H	Kanal 11	27500	Quality Entertain.
11.804	H	MTV NO	27500	Quality Entertain.
11.804	H	Ticket	27500	News + Series
11.804	H	TV 2 Filmkanalen	27500	Quality Entertain.
11.804	H	TV4 Film	27500	News + Series
11.804	H	TV4 Plus	27500	Quality Entertain.
11.804	H	TV400	27500	Quality Entertain.
11.804	H	Viasat History	27500	Quality Entertain.
11.804	H	Viasat Sport Baltic	27500	Quality Entertain.
11.823	V	CNN	27500	Quality Entertain.
11.823	V	DR 1	27500	Quality Entertain.
11.823	V	DR 2	27500	Quality Entertain.
11.823	V	DR1	27500	Quality Entertain.
11.823	V	DR2	27500	Quality Entertain.
11.823	V	Explorer/Spice	27500	Quality Entertain.
11.823	V	MTV DK	27500	Quality Entertain.
11.823	V	TV 2 SPORT	27500	Quality Entertain.
11.823	V	TV1000 Ru Kino	27500	Quality Entertain.
11.823	V	TV8	27500	Quality Entertain.
11.843	H	1st Baltic Ch. Eston	27500	News + Series
11.843	H	1st Baltic Ch. Latvi	27500	Quality Entertain.
11.843	H	1st Baltic Ch. Lithu	27500	Home Cinema
11.843	H	Lietuvos Rytas TV	27500	Quality Entertain.
11.843	H	LNK	27500	Quality Entertain.
11.843	H	LTV7	27500	Quality Entertain.
11.843	H	Ren-TV B	27500	Quality Entertain.
11.843	H	TV1 Lithuania	27500	News + Series
11.843	H	1st Baltic Music Cha	27500	News + Series
11.843	H	TV5	27500	Quality Entertain.
● 11.862	V	FEM	27500	Quality Entertain.
● 11.862	V	Nick DK/VH1	27500	News + Series
● 11.862	V	TV1000 Action East	27500	Quality Entertain.
● 11.862	V	Viasat Fotboll	27500	Quality Entertain.
● 11.862	V	Viasat Motor	27500	Quality Entertain.
● 11.862	V	Viasat Sport Norge	27500	Quality Entertain.
● 11.862	V	ztv.se	27500	Quality Entertain.
11.881	H	24	27500	Home Cinema
11.881	H	Barnkanalen	27500	News + Series
11.881	H	Nat Geo Wild	27500	Quality Entertain.
11.881	H	SVT1	27500	Home Cinema
11.881	H	SVT2	27500	Home Cinema
11.881	H	TV1000 Plus One	27500	Quality Entertain.
11.881	H	TV1K+1	27500	Quality Entertain.
11.881	H	GOD Channel	27500	News + Series
11.900	V	BTV	27500	Quality Entertain.
11.900	V	Kanal 2	27500	Quality Entertain.
11.900	V	MTV LT LV	27500	Quality Entertain.
11.900	V	RTR Planeta Baltic	27500	Quality Entertain.
11.900	V	TV6 Estonia	27500	Quality Entertain.
11.900	V	TV6 Latvia	27500	Quality Entertain.
11.900	V	Viasat Sport	27500	Quality Entertain.
11.919	H	MTV3 MAX	27500	Quality Entertain.
11.919	H	TV 2 Nyhetskanalen	27500	Quality Entertain.
11.919	H	TV1000 Premium	27500	Quality Entertain.
11.919	H	Viasat Golf	27500	Quality Entertain.
● 11.919	H	MTV3 AVA	27500	Advertisement
● 11.919	H	MTV3 Fakta	27500	Advertisement
● 11.919	H	MTV3 Sarja	27500	Advertisement
● 11.919	H	Sub Juniori	27500	Advertisement
● 11.919	H	Sub Leffa	27500	Advertisement
11.938	V	Animal Planet EE	27500	Quality Entertain.
11.938	V	Cartoon/TCM EE	27500	News + Series
11.938	V	Discovery EE	27500	Quality Entertain.
11.938	V	Nat Geo / CNBC	27500	Quality Entertain.
11.938	V	TV3 Mitt	27500	Quality Entertain.
11.938	V	TV3 Norr	27500	Quality Entertain.
11.938	V	TV3 Syd	27500	Quality Entertain.
11.938	V	TV3 Väst	27500	Quality Entertain.
11.938	V	TV3 Öst	27500	Quality Entertain.
11.958	H	3+ Baltics	27500	Quality Entertain.
11.958	H	3+ Baltics E	27500	Quality Entertain.
11.958	H	ETV	27500	News + Series
11.958	H	Lithuanian TV1	27500	Quality Entertain.
11.958	H	LNT Latvia	27500	News + Series
11.958	H	LTV1	27500	News + Series
11.958	H	TV3 Estonia	27500	Quality Entertain.
11.958	H	TV3 Latvia	27500	News + Series
11.958	H	TV3 Lithuania	27500	Quality Entertain.
11.958	H	TV6 Lithuania	27500	Quality Entertain.
11.977	V	BBC World	27500	News + Series
11.977	V	MTV SE	27500	Quality Entertain.
11.977	V	Nature/Crime/Playboy	27500	News + Series
11.977	V	TV1000 East	27500	News + Series
11.977	V	TV3+	27500	Home Cinema
11.977	V	TV4 Fakta	27500	Quality Entertain.
11.977	V	Viasat 4	27500	Home Cinema
● 11.977	V	Viasat Hockey	27500	Quality Entertain.
11.977	V	Viasat Sport Sverige	27500	Home Cinema
● 11.996	H	K75 NORDEN	27500	News + Series
● 11.996	H	TV7	27500	Quality Entertain.
● 11.996	H	TVN Chile Nordic	27500	Quality Entertain.
● 11.996	H	GOD Channel	27500	News + Series
● 11.996	H	Kanal 10	27500	News + Series
● 11.996	H	Russia today	27500	Quality Entertain.
● 11.996	H	Visjon Norge	27500	Quality Entertain.
● 12.015	V	NRK1	27500	Home Cinema
12.015	V	NRK1 Midtnytt	27500	Home Cinema
12.015	V	NRK1 Møre og Romsdal	27500	Quality Entertain.
12.015	V	NRK1 Nordland	27500	Home Cinema
12.015	V	NRK1 Nordnytt	27500	Home Cinema
12.015	V	NRK1 Rogaland	27500	Home Cinema
12.015	V	NRK1 Sørlandet	27500	Home Cinema
● 12.015	V	NRK1 Tegnspråk	27500	News + Series
12.015	V	NRK1 Vestlandsrevyen	27500	Home Cinema
12.015	V	NRK1 Østafjells	27500	Home Cinema
12.015	V	NRK1 Østfold	27500	Home Cinema
12.015	V	NRK1 Østnytt	27500	Quality Entertain.
12.015	V	NRK2	27500	Quality Entertain.
● 12.015	V	NRK3	27500	Home Cinema
12.034	H	Disney Channel	27500	Quality Entertain.
● 12.034	H	Disney XD	27500	Quality Entertain.
12.034	H	E!	27500	Quality Entertain.
● 12.034	H	Nick SE/Comedy C	27500	Quality Entertain.
12.034	H	TV1000 Classic	27500	Quality Entertain.
12.034	H	TV1000 Family	27500	Quality Entertain.
12.034	H	TV1000 Nordic	27500	News + Series
12.034	H	TV1KC	27500	Quality Entertain.
12.034	H	Zone Reality	27500	Quality Entertain.
12.054	V	Cartoon/TCM	27500	News + Series
● 12.054	V	Playhouse Disney	27500	Quality Entertain.
12.054	V	TV1000	27500	Quality Entertain.
12.054	V	TV1000 Action	27500	Quality Entertain.
12.054	V	TV1000 Drama	27500	Quality Entertain.
12.054	V	TV1K	27500	Quality Entertain.
12.054	V	TV1KA	27500	Quality Entertain.
12.054	V	TV3 Denmark	27500	News + Series
12.054	V	TV3 Norge	27500	Quality Entertain.
12.054	V	TV3 Stockholm	27500	Quality Entertain.
12.054	V	TV6	27500	Quality Entertain.
12.092	V	Kanal 5	27500	News + Series
12.092	V	Playhouse Disney	27500	Quality Entertain.
12.092	V	TV 2 Norge	27500	Quality Entertain.
12.092	V	TV2 NEWS	27500	Quality Entertain.
● 12.092	V	TV4 Komedi	27500	Quality Entertain.
12.092	V	TV4 Science Fiction	27500	News + Series
12.092	V	TV4 Sport	27500	News + Series
12.092	V	TVNorge	27500	Quality Entertain.
● 12.092	V	Viasat Fotball	27500	Quality Entertain.



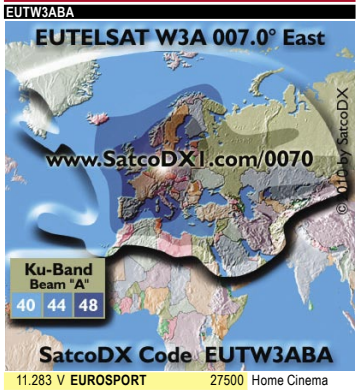
● 12.685	V	ALFA OMEGA	4444	News + Series

Europe

EUTELSAT W3A

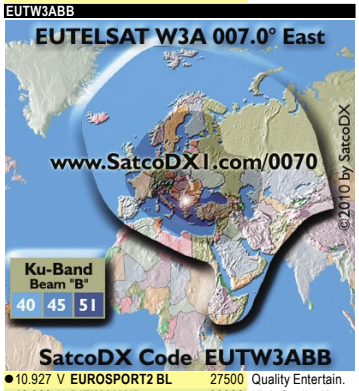
7.0 East

EUTW3ABA



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.283	V	EUROSPORT	27500	Home Cinema
11.283	V	EUROSPORT2	27500	Quality Entertain.
11.283	V	EUROSPORTNEWS	27500	Quality Entertain.
11.283	V	PROD ESP	27500	Home Cinema
11.283	V	PROD ESP2	27500	Quality Entertain.
11.283	V	M6_Suisse	27500	Quality Entertain.
● 11.283	V	OCCA_1_W3	27500	Quality Entertain.
● 11.283	V	RFI Newzik	27500	Advertisement
● 11.324	V	BFBS 1	27500	Quality Entertain.
● 11.324	V	BFBS 10	27500	Low Level
● 11.324	V	BFBS 2	27500	News + Series
● 11.324	V	BFBS 3	27500	Low Level
● 11.324	V	BFBS 4	27500	News + Series
● 11.324	V	BFBS 5	27500	Quality Entertain.
● 11.324	V	BFBS 6	27500	News + Series
● 11.324	V	BFBS 7	27500	Quality Entertain.
● 11.324	V	BFBS 8	27500	News + Series
● 11.324	V	BFBS 9	27500	Low Level
11.345	H	2STV	27500	News + Series
11.345	H	ESP2 FAPL Clean	27500	News + Series
11.345	H	ESP2 German	27500	Quality Entertain.
11.345	H	Africable	27500	News + Series
11.345	H	ORTM	27500	News + Series
11.345	H	RTS	27500	News + Series
11.345	H	TPAI	27500	News + Series
11.452	V	CHANNEL 1 RUSSIA	25066	News + Series
11.452	V	HALK TV	25066	News + Series
11.452	V	DIGI	25066	News + Series
11.471	H	FOXlife	30000	News + Series

EUTW3ABB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
● 10.927	V	EUROSPORT2 BL	27500	Quality Entertain.
● 10.928	H	DIZIMAX HD	30000	High Quality Home
10.928	H	MMAX HD	30000	High Quality Home
10.928	H	NAT GEO HD	30000	High Qual. Cinema
10.928	H	EUROSPORT HD	30000	High Quality Home
10.928	H	LIG TV HD	30000	High Quality Home
10.928	H	SPORMAX HD	30000	High Qual. Cinema
● 10.928	V	EUROSPORT2 BL	27500	Quality Entertain.
11.452	V	BUGÜN TV	25066	News + Series
11.452	V	E! ENTERTAINMENT	25066	News + Series
11.452	V	KANAL B	25066	Quality Entertain.
11.452	V	SALONDA NE VAR?	25066	News + Series
11.452	V	SES TV	25066	News + Series
11.452	V	YABAN TV	25066	Quality Entertain.
11.452	V	TRT ÇOCUK	25066	News + Series
11.471	H	24	30000	News + Series
11.471	H	BBC PRIME	30000	News + Series
11.471	H	e2	30000	News + Series
11.471	H	EURONEWS	30000	News + Series
11.471	H	EUROSPORT 2	30000	News + Series
11.471	H	EXTREME SPORTS	30000	News + Series
11.471	H	FASHION TV	30000	News + Series
11.471	H	MEZZO	30000	News + Series
11.471	H	MTV Türkiye	30000	Quality Entertain.
11.471	H	NTV SPOR	30000	Quality Entertain.
11.471	H	SHOWGALLERY	30000	News + Series
11.471	H	TVNET	30000	News + Series
11.492	V	DİZİMAX	30000	Quality Entertain.
11.492	V	GS TV	30000	Quality Entertain.
11.492	V	LİG TV	30000	Home Cinema
11.492	V	SAMANYOLU TV	30000	News + Series
11.492	V	SHOW PLUS	30000	News + Series
11.492	V	TÜRKMAX	30000	Quality Entertain.
11.492	V	WEDDING TV	30000	News + Series
11.492	V	ZONE REALITY	30000	News + Series
11.492	V	TRT1	30000	News + Series
11.492	V	TRT2	30000	News + Series
11.492	V	TRT6	30000	Quality Entertain.
11.513	H	BABY TV	27500	News + Series
11.513	H	BABYFIRST	27500	News + Series

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

Cost Conscious Entertainment ..... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.513	H	BIO-CI	27500	News + Series
11.513	H	FLASH TV	27500	News + Series
11.513	H	POWERTURK TV	27500	Quality Entertain.
11.513	H	S HABER	27500	News + Series
11.513	H	TV5 MONDE	27500	News + Series
11.513	H	YUMURCAK TV	27500	News + Series
11.513	H	İZ	27500	News + Series
11.534	V	6 NEWS	30000	Quality Entertain.
11.534	V	BBC WORLD	30000	News + Series
11.534	V	BLOOMBERG	30000	News + Series
11.534	V	CARTOON NETWORK	30000	News + Series
11.534	V	CNBC-e	30000	News + Series
11.534	V	CNN TÜRK	30000	News + Series
11.534	V	KANAL 778	30000	Quality Entertain.
11.534	V	KANALTURK	30000	News + Series
11.534	V	KRAL TV	30000	News + Series
11.534	V	MOVIEMAX	30000	Quality Entertain.
11.534	V	NTV	30000	Quality Entertain.
11.534	V	TV8	30000	News + Series
11.534	V	TRT3	30000	News + Series
11.554	H	.	27500	News + Series
11.554	H	AKILLI TV	27500	News + Series
11.554	H	CEM TV	27500	Quality Entertain.
11.554	H	CINE5	27500	News + Series
11.554	H	FX	27500	Quality Entertain.
11.554	H	KANAL A	27500	Quality Entertain.
11.554	H	SAUDI 1 TV	27500	Quality Entertain.
11.554	H	TNT	27500	Quality Entertain.
11.575	V	DISNEY XD	30000	Quality Entertain.
11.575	V	JETIX PLAY	30000	News + Series
11.575	V	KANAL D	30000	Quality Entertain.
11.575	V	NBA TV	30000	Quality Entertain.
11.575	V	SALON 2	30000	News + Series
11.575	V	SHOW TV	30000	News + Series
11.575	V	SHOWMAX	30000	News + Series
11.575	V	TOUCH	30000	News + Series
11.575	V	TURKCELL SALON 1	30000	Quality Entertain.
11.575	V	VIP TV	30000	News + Series
11.595	H	AL JAZEERA English	30000	Low Level
11.595	H	CNN INTERNATIONAL	30000	News + Series
11.595	H	FB TV	30000	News + Series
11.595	H	FOX SPORTS	30000	News + Series
11.595	H	GOLDMAX 2	30000	Quality Entertain.
11.595	H	HABERTURK	30000	News + Series
11.595	H	KANAL 778	30000	Quality Entertain.
11.595	H	LIG TV TICARI	30000	Home Cinema
11.595	H	MYMAX	30000	News + Series
11.595	H	RAI1	30000	News + Series
11.595	H	SPORMAX	30000	Quality Entertain.
11.595	H	TGRT HABER	30000	News + Series
11.595	H	TJK TV	30000	News + Series
11.617	V	BTV 2	30000	Quality Entertain.
11.617	V	HISTORY	30000	News + Series
11.617	V	HOME TV	30000	News + Series
11.617	V	MCM TOP	30000	News + Series
11.617	V	NAT. GEO. WILD	30000	News + Series
11.617	V	NAT.GEOGRAPHIC	30000	News + Series
11.617	V	NICKELODEON	30000	News + Series
11.617	V	STAR	30000	Quality Entertain.
11.617	V	VH1	30000	News + Series
11.617	V	2000 s HITS	30000	News + Series
11.617	V	50 s / 60 s HITS	30000	News + Series
11.617	V	70 s HITS	30000	News + Series
11.617	V	80 s HITS	30000	News + Series
11.617	V	90 s HITS	30000	News + Series
11.617	V	ALEM FM 89.2	30000	News + Series
11.617	V	ALTERNATIVE ROCK	30000	News + Series
11.617	V	ARIONRADIO.COM	30000	News + Series
11.617	V	BLUES	30000	News + Series
11.617	V	CHILL OUT / LOUNG	30000	News + Series
11.617	V	CLASSIC ROCK	30000	News + Series
11.617	V	CLASSICAL MUSIC	30000	News + Series
11.617	V	DANCE	30000	News + Series
11.617	V	DANCE CLASSICS	30000	News + Series
11.617	V	EASY LISTENING	30000	News + Series
11.617	V	HARD ROCK	30000	News + Series
11.617	V	HIP HOP R&B	30000	News + Series
11.617	V	HOTTEST HITS	30000	News + Series
11.617	V	INTERNATIONAL	30000	News + Series
11.617	V	JAZZ CLASSICS	30000	News + Series
11.617	V	LATIN	30000	News + Series
11.617	V	LİG RADYO	30000	News + Series
11.617	V	MASAL RADYO	30000	News + Series
11.617	V	NU JAZZ	30000	News + Series
11.617	V	OPERA	30000	News + Series
11.617	V	R & B	30000	News + Series
11.617	V	RADIO TIME	30000	News + Series
11.617	V	RADYO SPOR	30000	News + Series
11.617	V	REGGAE	30000	News + Series
11.617	V	SMOOTH JAZZ	30000	News + Series
11.617	V	SONGS OF LOVE	30000	News + Series
11.617	V	STANDARDS	30000	News + Series
11.617	V	SYMPHONIC	30000	News + Series
11.617	V	TRT TÜRK	30000	News + Series
11.617	V	YOGA ZONE	30000	News + Series
11.637	H	ACTIONMAX	30000	News + Series
11.637	H	AVRASYA TV	30000	News + Series
11.637	H	BTV	30000	News + Series
11.637	H	GOLDMAX	30000	News + Series
11.637	H	INTIMACY	30000	News + Series
11.637	H	JOJO	30000	News + Series
11.637	H	JOLLY TATİL TV	30000	News + Series
11.637	H	KANAL 1	30000	News + Series
11.637	H	MGM MOVIES	30000	Quality Entertain.
11.637	H	PRO7	30000	News + Series
11.637	H	YACHT&SAIL	30000	Quality Entertain.
11.637	H	DIGIOYUN	30000	Low Level
11.637	H	TRT AVAZ	30000	Quality Entertain.
11.679	H	ATV	30000	Home Cinema
11.679	H	COMEDYMAX	30000	News + Series
11.679	H	DISNEY CHANNEL	30000	News + Series
11.679	H	DREAM TV	30000	News + Series
11.679	H	EUROSPORT	30000	News + Series
11.679	H	FOX	30000	Quality Entertain.
11.679	H	KANAL 7	30000	Quality Entertain.
11.679	H	MOVIEMAX 2	30000	News + Series
11.679	H	SALON 3	30000	News + Series
11.679	H	ÜLKE TV	30000	News + Series
11.679	H	SKYTURK	30000	News + Series

South Africa

EUTELSAT W3A

7.1 East

EUTW3AAB



10.962	H	TV Miramar	3255	Quality Entertain.
10.969	H	Koko-TV	2354	News + Series
10.978	H	TVM Madagascar	3333	Quality Entertain.
11.104	H	GO AFRICA TV	3800	Quality Entertain.
11.190	H	MBC-R0D. TV2 and	3210	News + Series
11.190	H	R0DRIGUES TV1 and	3210	News + Series
12.645	H	Euronews Spanish	30000	Quality Entertain.
12.645	H	NBN	30000	Quality Entertain.
12.645	H	Telehit	30000	Quality Entertain.
12.645	H	Telenovela	30000	News + Series
12.645	H	TVE Internacional Af	30000	News + Series
12.728	H	R D V	30000	News + Series
12.728	H	WWW.PSAT.TV	30000	News + Series
12.728	H	2STV	30000	News + Series
12.728	H	LCF	30000	
12.728	H	LJB FLYWAY	30000	Advertisement
12.728	H	MOTO GP	30000	Quality Entertain.
12.728	H	MTA INTL	30000	Quality Entertain.
12.728	H	RTS	30000	News + Series
12.728	H	TPAI	30000	News + Series
12.728	H	TV ZIMBO	30000	Quality Entertain.
12.728	H	TV ZIMBO LIVE	30000	Advertisement

Europe

EUROBIRD 9A

9.0 East

EUB009KW



11.727	V	ESPN Classics	27500	Quality Entertain.
11.727	V	NASN	27500	Quality Entertain.
11.727	V	TNT Germany	27500	News + Series
11.727	V	ANN	27500	News + Series
11.727	V	Arqiva EB9 OU 1	27500	Home Cinema
11.727	V	Arqiva Test	27500	Home Cinema
11.747	H	3DSatTV	27500	High Quality Home
11.747	H	Bet Vision	27500	News + Series
11.747	H	SISAL 1	27500	News + Series
11.747	H	SISAL 2	27500	News + Series
11.747	H	BLU 9 BISS	27500	News + Series
11.747	H	CONTR LA8/LA9	27500	News + Series
11.747	H	RETE 7	27500	News + Series
11.747	H	SALENTO CHANNEL	27500	Advertisement
11.747	H	STUDIO 100 TV	27500	Advertisement
11.766	V	4SHABAB	27500	News + Series
11.766	V	AL HAYAT MUSALSAL	27500	News + Series
11.766	V	AL QUDS	27500	News + Series
11.766	V	AL TAWASOL	27500	News + Series
11.766	V	AL-MAAREF	27500	News + Series
11.766	V	ARRAI	27500	News + Series
11.766	V	HADI TV	27500	News + Series
11.766	V	IRAQ ECONOMIC	27500	News + Series
11.766	V	JAMAWAR	27500	News + Series
11.766	V	KARAMEESH	27500	News + Series
11.766	V	NOUR TV	27500	News + Series
11.766	V	OSCAR DRAMA	27500	News + Series
11.766	V	WTV	27500	News + Series
11.785	H	1-2-3 TV	27500	News + Series
11.785	H	Channel 21 Shop	27500	Low Level
11.785	H	CNBC	27500	News + Series
11.785	H	CNN	27500	News + Series
11.785	H	Das Vierte	27500	News + Series
11.785	H	HSE24	27500	Quality Entertain.
11.785	H	iMusic 1	27500	Quality Entertain.
11.785	H	MTV Deutschland	27500	News + Series
11.785	H	Nick/Comedy Central	27500	News + Series
11.785	H	Russia Today	27500	News + Series
11.785	H	TIMM	27500	Quality Entertain.
11.785	H	VIVA	27500	News + Series
11.785	H	Yavido Clips	27500	Low Level
11.804	V	myZen.tv HD	27500	High Quality Home
11.804	V	LUXE.TV HD	27500	High Quality Home
11.804	V	myZen.tv	27500	News + Series
11.804	V	C-MUSIC	27500	Quality Entertain.
11.804	V	LUXE.TV SD	27500	Quality Entertain.
11.823	H	S2K	27500	News + Series
11.823	H	TVB Classic	27500	News + Series
11.823	H	TVB Entertainment Ne	27500	News + Series
11.823	H	TVB Life Style	27500	News + Series
11.823	H	TVBN	27500	News + Series
11.823	H	TVBS Europe	27500	Quality Entertain.
11.823	H	CCTV 4	27500	News + Series
11.823	H	tivuitalia	27500	News + Series
11.823	H	TRACE TV TROPICAL	27500	Quality Entertain.
11.843	V	ALPHA PUNJABI_NEW	27500	News + Series
11.843	V	ZEE CINEMA_NEW	27500	News + Series
11.843	V	ZEE TV_NEW	27500	News + Series
11.843	V	ALRASHEED TV	27500	News + Series
11.843	V	BLUEMOON TV	27500	News + Series
11.843	V	FINEST TV	27500	News + Series
11.843	V	KNN TV	27500	News + Series
11.843	V	LIVE CHANNEL	27500	News + Series
11.843	V	MESOPOTAMIA	27500	News + Series
11.843	V	NEPALI	27500	News + Series
11.843	V	NEWROZ	27500	News + Series
11.843	V	ROJ TV	27500	News + Series
11.861	H	9Live	27500	Home Cinema
11.861	H	Kabel 1	27500	Home Cinema
11.861	H	n-tv	27500	Quality Entertain.
11.861	H	N24	27500	News + Series
11.861	H	Pro 7	27500	Quality Entertain.
11.861	H	RTL	27500	Quality Entertain.
11.861	H	RTL 2	27500	News + Series
11.861	H	Sat.1	27500	Home Cinema
11.861	H	Super RTL	27500	Quality Entertain.
11.861	H	VOX	27500	Quality Entertain.
11.881	V	Bebe	27500	High Quality Home
11.881	V	i-concert	27500	High Quality Home
11.881	V	Euro 1080	27500	High Quality Home
11.881	V	FTV HD	27500	High Quality Home
11.900	H	TSG 4	27500	High Quality Home
11.900	H	TSG	27500	News + Series
11.916	V	FTV HD	27500	High Quality Home
11.916	V	Asianet	27500	News + Series
11.916	V	Asianet Plus	27500	News + Series
11.916	V	SVT WORLD	27500	Quality Entertain.
11.916	V	TIN_972737998873	27500	News + Series
11.916	V	Amarita channel	27500	Low Level
11.916	V	AL BASHARA	27500	Low Level
11.916	V	ANGEL TV	27500	Low Level
11.916	V	DIVINE TV	27500	News + Series
11.916	V	Gunaz TV	27500	Low Level
11.916	V	Kairali channel	27500	Low Level
11.916	V	MTA	27500	News + Series
11.916	V	NLM TV	27500	Low Level
11.916	V	Rainbow	27500	News + Series
11.916	V	WIN TV	27500	News + Series
11.919	V	FTV HD	27500	High Quality Home
11.919	V	Asianet	27500	News + Series
11.919	V	Asianet Plus	27500	News + Series
11.919	V	SVT WORLD	27500	Quality Entertain.
11.919	V	TIN_972737998873	27500	News + Series
11.919	V	Amarita channel	27500	Low Level
11.919	V	AL BASHARA	27500	Low Level
11.919	V	ANGEL TV	27500	Low Level
11.919	V	DIVINE TV	27500	News + Series
11.919	V	Gunaz TV	27500	Low Level
11.919	V	Kairali channel	27500	Low Level
11.919	V	MTA	27500	News + Series
11.919	V	NLM TV	27500	Low Level
11.919	V	Rainbow	27500	News + Series
11.919	V	WIN TV	27500	News + Series
11.938	V	FTV HD	27500	High Quality Home
11.938	V	m2 HD	27500	High Qual. Cinema
11.938	V	Asianet	27500	News + Series
11.938	V	Asianet Plus	27500	News + Series
11.938	H	Fantasy Channel	27500	News + Series
11.938	H	SVT WORLD	27500	Quality Entertain.
11.938	H	TIN_972737998873	27500	News + Series
11.938	H	TVLanka 2	27500	News + Series
11.938	H	Walf TV	27500	News + Series
11.938	V	Amarita channel	27500	Low Level
11.938	V	AL BASHARA	27500	Low Level
11.938	V	ANGEL TV	27500	Low Level
11.938	V	DIVINE TV	27500	News + Series
11.938	V	Gunaz TV	27500	Low Level
11.938	V	Kairali channel	27500	Low Level
11.938	V	m2	27500	Home Cinema
11.938	V	m2 16_9	27500	Home Cinema
11.938	V	MTA	27500	News + Series
11.938	V	NLM TV	27500	Low Level
11.938	H	PTV	27500	News + Series
11.938	V	Rainbow	27500	News + Series
11.938	H	TAM TAM TV	27500	Low Level
11.938	H	TV NETH LANKA	27500	Low Level
11.938	V	WIN TV	27500	News + Series
11.977	H	Akubis Direkt	27500	News + Series
11.977	H	AKUBIS Special IG	27500	News + Series
11.977	H	OCC	27500	Low Level
11.977	H	OCC_2	27500	Low Level
11.977	H	TSBS-MB-cz	27500	Quality Entertain.
11.977	H	TSBS-MB-dt	27500	Quality Entertain.
11.977	H	TSBS-MB-f	27500	Quality Entertain.
11.977	H	TSBS-MB-nl	27500	Quality Entertain.
11.977	H	TSBS-MB-rum	27500	Quality Entertain.
11.977	H	TSBS-MB-s	27500	Quality Entertain.
11.977	H	TSBS-MB-sl	27500	Quality Entertain.
11.977	H	AKUBIS-Classic	27500	Advertisement
11.977	H	Testbild	27500	Low Level
11.996	V	SUN Adithya TV +44	27500	High Quality Home
11.996	V	SUN Chutti TV +442	27500	High Quality Home
11.996	V	SUN KTV +442083356	27500	High Quality Home
11.996	V	SUN Music +442083356	27500	High Quality Home
11.996	V	SUN TV +442083356780	27500	High Quality Home
11.996	V	BBC Prime	27500	Quality Entertain.
11.996	V	MTV Portugal	27500	Quality Entertain.
11.996	V	B4U Movies ME	27500	News + Series
11.996	V	CCTV-4	27500	News + Series
11.996	V	CCTV-A	27500	News + Series
11.996	V	CCTV-E	27500	News + Series
11.996	V	CCTV-R	27500	News + Series
11.996	V	SUN TV MP2	27500	Low Level
12.015	H	BBC World	27500	News + Series
12.015	H	Bibel TV	27500	Quality Entertain.
12.015	H	Bloomberg	27500	News + Series
12.015	H	DAF (8 bis 18 Uhr)	27500	Advertisement
12.015	H	Deluxe	27500	Quality Entertain.
12.015	H	DSF	27500	Quality Entertain.
12.015	H	Luxe TV	27500	Advertisement
12.015	H	QVC	27500	Quality Entertain.
12.015	H	Tele 5	27500	News + Series
12.015	H	TV 5 Monde	27500	News + Series
12.015	H	TV Gusto	27500	News + Series
12.015	H	UProm.TV	27500	News + Series
12.015	H	Volksmusik TV	27500	News + Series
12.015	H	XX Home	27500	Advertisement
12.015	H	France 24	27500	News + Series
12.034	V	Animal Planet	27500	Low Level
12.034	V	Cartoon Network	27500	High Quality Home
12.034	V	Comedy Central	27500	Low Level
12.034	V	Discovery Channel	27500	Advertisement
12.034	V	Discovery HD	27500	High Qual. Cinema
12.034	V	Eurosport 2	27500	High Quality Home
12.034	V	HBO 2	27500	Advertisement
12.034	V	HBO Comedy	27500	High Quality Home
12.034	V	HirTV	27500	Low Level
12.034	V	m1 HD	27500	High Qual. Cinema
12.034	V	Minimax	27500	Advertisement
12.034	V	MTV Hungary	27500	News + Series
12.034	V	Musicmax/Musicmax Ad	27500	High Quality Home
12.034	V	Nat Geo Wild	27500	Advertisement
12.034	V	National Geographic	27500	Advertisement
12.034	V	Spektrum	27500	News + Series
12.034	V	Travel Channel	27500	Quality Entertain.
12.034	V	Viasat 3	27500	High Quality Home
12.034	V	VIVA Hungary	27500	High Quality Home
12.034	H	Penthouse HD Promo	27500	High Quality Home
12.034	V	HBO HD	27500	Quality Entertain.
12.034	H	Penthouse HD	27500	High Quality Home
12.034	H	Penthouse HD 1	27500	High Quality Home
12.034	H	Penthouse HD 2	27500	High Quality Home
12.034	H	BBC World	27500	News + Series
12.034	H	Bibel TV	27500	News + Series
12.034	H	Bloomberg	27500	News + Series
12.034	H	DAF (8 bis 18 Uhr)	27500	Low Level
12.034	H	Deluxe	27500	Home Cinema
12.034	H	DSF	27500	News + Series
12.034	V	Filmbox Extra	27500	Advertisement
12.034	H	Luxe TV	27500	News + Series
12.034	H	QVC	27500	Quality Entertain.
12.034	H	Tele 5	27500	News + Series
12.034	H	TV 5 Monde	27500	Quality Entertain.
12.034	H	TV Gusto	27500	News + Series
12.034	H	UProm.TV	27500	News + Series
12.034	H	Volksmusik TV	27500	News + Series
12.034	H	XX Home	27500	News + Series
12.034	H	France 24	27500	Quality Entertain.
12.054	H	Penthouse HD Promo	27500	High Quality Home
12.054	H	Penthouse HD	27500	High Quality Home
12.054	H	Penthouse HD 1	27500	High Quality Home
12.054	H	Penthouse HD 2	27500	High Quality Home
12.074	H	HD Channel 1	27500	High Quality Home
12.074	V	ANA FILMS	27500	Advertisement
12.074	V	DESTINO GALICIA	27500	Advertisement
12.074	H	DISNEY CINEMAGIC	27500	News + Series
12.074	H	DISNEY CINEMAGIC	27500	News + Series
12.074	H	IBERALIA	27500	News + Series
12.074	H	Aierta	27500	Advertisement
12.074	H	DESTINO GALICIA	27500	Quality Entertain.
12.074	H	Feeds Tsa	27500	Low Level
12.074	H	Opal TV	27500	Quality Entertain.
12.074	H	PARLAMENTARIO	27500	News + Series
12.074	H	SD Channel 1	27500	Quality Entertain.
12.074	H	TU TV LOCAL	27500	News + Series
12.092	H	HD Channel 1	27500	High Quality Home
12.092	H	DISNEY CINEMAGIC	27500	News + Series
12.092	H	DISNEY CINEMAGIC	27500	News + Series
12.092	H	IBERALIA	27500	News + Series
12.092	H	Aierta	27500	Advertisement
12.092	H	DESTINO GALICIA	27500	Quality Entertain.
12.092	H	Feeds Tsa	27500	Low Level
12.092	H	Opal TV	27500	News + Series
12.092	H	PARLAMENTARIO	27500	Low Level
12.092	H	SD Channel 1	27500	Quality Entertain.
12.092	H	TU TV LOCAL	27500	News + Series
12.130	H	Animax	27500	News + Series
12.130	H	Body in Balance	27500	News + Series
12.130	H	Channel One Russia	27500	Quality Entertain.
12.130	H	Euro Star	27500	Quality Entertain.
12.130	H	EuroNews English	27500	News + Series
12.130	H	EuroNews French	27500	News + Series
12.130	H	EuroNews Italian	27500	News + Series
12.130	H	EuroNews Portuguese	27500	Quality Entertain.
12.130	H	EuroNews Russia	27500	News + Series
12.130	H	EuroNews Spanish	27500	News + Series
12.130	H	Kinowelt TV	27500	Quality Entertain.
12.130	H	LIG TV	27500	Home Cinema
12.130	H	Pink Plus	27500	Quality Entertain.
12.130	H	RTR Planeta	27500	News + Series
12.130	H	France 24	27500	Quality Entertain.
12.207	H	365 дней	27500	High Quality Home
12.207	H	Test	27500	High Quality Home
12.207	H	Автоплюс	27500	High Quality Home
12.207	H	Бибигон	27500	High Quality Home
12.207	H	Вести	27500	High Quality Home
12.207	H	Зоо ТВ	27500	High Quality Home
12.207	H	Кинопоказ	27500	High Quality Home
12.207	H	Комедия ТВ	27500	High Quality Home
12.207	H	Культура	27500	High Quality Home
12.207	H	Кухня ТВ	27500	High Quality Home
12.207	H	МузТВ	27500	High Quality Home
12.207	H	НТВ	27500	High Quality Home
12.207	H	Петербург 5 канал	27500	High Quality Home
12.207	H	Рен ТВ	27500	High Quality Home
12.207	H	Россия	27500	High Quality Home
12.207	H	СТС	27500	High Quality Home

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Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
12.207	H	Спорт	27500	High Quality Home
12.207	H	ТНТ	27500	High Quality Home
12.207	H	Тепенутешествия	27500	High Quality Home
12.207	H	Тест	27500	Advertisement
12.207	H	Тонус ТВ	27500	High Quality Home
12.284	H	Coming soon 10	27500	High Qual. Cinema
12.284	H	Poker Channel	27500	News + Series
12.284	H	tve international	27500	News + Series
12.303	V	High Life HD	26400	High Quality Home
12.303	V	Kinopokaz 2 HD	26400	High Qual. Cinema
12.303	V	Teleputeshestviya HD	26400	High Qual. Cinema
12.303	V	Zhenskiy Mir HD	26400	High Quality Home
12.322	H	ATV Avrupa	27500	Quality Entertain.
12.322	H	EuroD	27500	News + Series
12.322	H	Kanal7 Int	27500	News + Series
● 12.322	H	NTV avrupa	27500	News + Series
12.322	H	Rai Due	27500	News + Series
12.322	H	Rai Tre	27500	News + Series
12.322	H	Rai Uno	27500	News + Series
12.322	H	Show Turk	27500	News + Series
● 12.322	H	TRT Turk TV	27500	News + Series
12.322	H	TurkMax	27500	Quality Entertain.
12.322	H	TV Polonia	27500	Quality Entertain.
12.360	H	Adult Channel	27500	News + Series
● 12.360	H	Animal Planet	27500	News + Series
12.360	H	auto motor und sport	27500	News + Series
12.360	H	ESPN Classic	27500	News + Series
12.360	H	Hustler TV	27500	News + Series
● 12.360	H	iTVN	27500	News + Series
12.360	H	Lust Pur	27500	Quality Entertain.
● 12.360	H	rush	27500	News + Series
12.360	H	Travel Channel	27500	News + Series
● 12.360	H	TV Country	27500	Quality Entertain.
12.360	H	Yacht & Sail	27500	Quality Entertain.
12.360	H	KabelKiosk - Infokan	27500	News + Series
12.380	V	Eurosport HD	26400	High Quality Home
12.380	V	HD Life	26400	High Quality Home
12.380	V	MTVN HD	26400	High Qual. Cinema
12.380	V	Kinopokaz HD	26400	High Qual. Cinema
12.380	V	NGC HD	26400	High Qual. Cinema
12.380	V	Infokanal	26400	Low Level
12.399	H	13TH Street	27500	News + Series
12.399	H	AXN	27500	News + Series
12.399	H	Boomerang	27500	News + Series
12.399	H	Cartoon Network	27500	News + Series
12.399	H	ESPN America	27500	Quality Entertain.
12.399	H	History	27500	Quality Entertain.
12.399	H	Motors TV Deutschlan	27500	Quality Entertain.
12.399	H	National Geographic	27500	News + Series
12.399	H	Sci Fi Deutschland	27500	News + Series
12.399	H	Silverline	27500	Low Level
12.399	H	The Biography Channe	27500	Quality Entertain.
12.399	H	TNT Film	27500	News + Series
12.437	H	BBC Prime	27500	Quality Entertain.
● 12.437	H	Discovery Channel	27500	News + Series
12.437	H	E! Entertainment (D/	27500	Quality Entertain.
12.437	H	E! Entertainment (PL	27500	Quality Entertain.
12.437	H	E! Entertainment (TR	27500	Quality Entertain.
● 12.437	H	Gute Laune TV	27500	Quality Entertain.
12.437	H	Nick Junior	27500	Quality Entertain.
12.437	H	Romance TV	27500	Quality Entertain.
12.437	H	sportdigital	27500	Quality Entertain.
12.437	H	VH1 Classic	27500	News + Series
12.437	H	Volksmusik TV	27500	Quality Entertain.
12.437	H	yourfamily	27500	Quality Entertain.

Europe

EUTELSAT W2A

10.0 East

EUT0W2AK



● 10.970	V	UP4	4167	Home Cinema
● 11.140	H	JSCTLPRT	2894	Quality Entertain.
● 11.144	H	ANB	2442	Advertisement
● 11.148	H	SYRIA	2893	Quality Entertain.
11.152	H	FTV-SEE	2269	News + Series
11.156	H	Al Jazeera	3978	Quality Entertain.
11.163	H	Telelumiere	2308	News + Series
● 11.172	H	Tandberg Service	2532	News + Series
11.175	H	AL-FORAT	2532	Quality Entertain.
● 11.179	H	BELADI TV	2532	Quality Entertain.
11.182	H	SAT-7	1707	Advertisement
● 11.184	H	SHANT	1698	News + Series
● 11.624	V	Tandberg Service	2500	News + Series
● 12.507	V	RTV	2000	Advertisement
12.611	H	MGM EU	9259	Quality Entertain.
12.611	H	MGM MC	9259	Quality Entertain.
12.611	H	MGM ME	9259	Quality Entertain.
12.631	V	AP GVW +442074827575	8888	Quality Entertain.
● 12.684	V	DisneyME	4003	Quality Entertain.

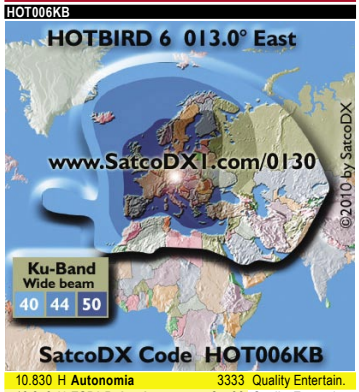
Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition

Europe, Middle East

HOTBIRD 6,8,9

13.0 East

HOT006KB



10.830	H	Autonomia	3333	Quality Entertain.
● 10.853	H	ESP2 Bulgarian	27500	Quality Entertain.
● 10.853	H	ESP2 Czech	27500	Quality Entertain.
● 10.853	H	ESP2 Danish	27500	Quality Entertain.
● 10.853	H	ESP2 Intl	27500	Quality Entertain.
● 10.853	H	ESP2 Polish	27500	Quality Entertain.
● 10.853	H	ESP2 Serbian	27500	Quality Entertain.
10.853	H	FRENCH LOVER	27500	News + Series
10.853	H	X DREAM TV	27500	News + Series
10.853	H	'Arab-Girls.TV	27500	Advertisement
10.853	H	ALO TV	27500	Advertisement
10.853	H	ArabSexClub	27500	Advertisement
10.853	H	DM Digital	27500	News + Series
10.853	H	eurotic TV	27500	News + Series
10.853	H	Fatayat 7'armanat	27500	Advertisement
10.853	H	IRAN - TV MARKET	27500	News + Series
10.853	H	IRAN-FMTV	27500	News + Series
10.853	H	IRAN-MNTV	27500	Low Level
● 10.853	H	Jaam-E-Jam	27500	News + Series
10.853	H	JAY JAY TV	27500	Advertisement
● 10.853	H	Omid-e-Iran	27500	Low Level
10.853	H	Physique TV	27500	News + Series
10.853	H	Sexy-Arab.TV	27500	Low Level
10.853	H	Supreme Master TV	27500	Quality Entertain.
10.853	H	Suryoyo SAT	27500	Low Level
10.853	H	Ta3arees TV	27500	Advertisement
10.872	V	AL Aoula	27500	Quality Entertain.
10.872	V	Arriadia 2	27500	Quality Entertain.
10.872	V	AL Aoula INTER	27500	Quality Entertain.
10.872	V	AL MAGHRIBIA	27500	Quality Entertain.
10.872	V	AlAoula INTER+L	27500	Quality Entertain.
10.872	V	ARRABIAA	27500	News + Series
10.872	V	ARRIADIA	27500	Quality Entertain.
10.872	V	ASSADISSA	27500	Quality Entertain.
10.872	V	Medi1SAT	27500	Quality Entertain.
10.992	V	Rai 4	27500	News + Series
10.992	V	RaiDue	27500	News + Series
● 10.992	V	RaiSat Cinema	27500	Quality Entertain.
10.992	V	RaiTre	27500	Quality Entertain.
10.992	V	RaiUno	27500	Home Cinema
11.013	H	3CHANNEL	27500	News + Series
11.013	H	AIT	27500	Low Level
11.013	H	AL FAYHAA	27500	News + Series
11.013	H	CGN	27500	Low Level
11.013	H	Cinquestelle	27500	Advertisement
11.013	H	Didar Global TV	27500	Low Level
11.013	H	Gali Kurdistan TV	27500	Low Level
11.013	H	Hope channel	27500	News + Series
11.013	H	MTA International	27500	Low Level
● 11.013	H	One	27500	Low Level
11.013	H	Pro TV International	27500	News + Series
● 11.013	H	RETE ORO	27500	Low Level
11.013	H	RTG TV	27500	News + Series
11.013	H	RU TV	27500	Quality Entertain.
11.013	H	Rusiya Al-Yaum	27500	News + Series
11.013	H	RVS Italy	27500	News + Series
11.013	H	S24	27500	Low Level
11.013	H	SARAFAN	27500	Low Level
11.013	H	Sri Lanka One	27500	News + Series
11.013	H	VideoBergamo	27500	Low Level
11.034	V	Game One	27500	News + Series
11.034	V	2M Maroc	27500	News + Series
11.034	V	Al Jazeera Intl	27500	Quality Entertain.
11.034	V	AZTV	27500	News + Series
11.034	V	Berbere Television	27500	Low Level
11.034	V	CCTV9	27500	Low Level
11.034	V	RTR	27500	News + Series
11.034	V	Salute !	27500	News + Series
11.034	V	SHANT TV	27500	News + Series
11.034	V	TELESUD	27500	Low Level
11.034	V	TV CORAN	27500	News + Series
11.034	V	TV TAMAZIGHT	27500	News + Series
11.034	V	Vesti	27500	News + Series
11.054	H	C TV Coptic CH	27500	News + Series
11.054	H	Iran Beauty	27500	Low Level
11.054	H	Iran Music	27500	News + Series
11.054	H	Libya Al Shababiyah	27500	News + Series
11.054	H	MI-TV	27500	Low Level
11.054	H	RAJ	27500	News + Series
11.054	H	Real Estate	27500	Low Level
11.054	H	RTL CH	27500	Quality Entertain.
11.054	H	SRI TV	27500	Low Level
● 11.054	H	TV Persia one	27500	News + Series
11.054	H	ZDF	27500	Quality Entertain.
11.075	V	MTVNHD	27500	High Qual. Cinema
11.075	V	Comedy Central Polsk	27500	News + Series
11.075	V	Comedy Central Polsk	27500	News + Series
11.075	V	MTV 1	27500	Quality Entertain.
11.075	V	MTV Polska	27500	News + Series
11.075	V	MTV Polska.	27500	News + Series
11.075	V	Nickelodeon Euro	27500	News + Series
11.075	V	VH1	27500	Quality Entertain.
11.075	V	VH1 Polska	27500	Quality Entertain.
11.075	V	VH1 Polska.	27500	Quality Entertain.
11.075	V	VIVA Polska	27500	Quality Entertain.
11.075	V	VIVA Polska.	27500	News + Series
11.096	H	AFN Family Channel	28000	News + Series
11.096	H	AFN Freedom	28000	News + Series
11.096	H	AFN Movie Channel	28000	News + Series
11.096	H	AFN Rota	28000	News + Series
11.096	H	AFN Vicenza Continge	28000	News + Series
11.096	H	AFN Xtra/Time Code	28000	Quality Entertain.
11.096	H	Aviano	28000	News + Series
11.096	H	Naples	28000	Quality Entertain.
11.096	H	News/BrightAC/Coun	28000	News + Series
11.096	H	Sigonella	28000	Quality Entertain.
11.096	H	Vicenza	28000	News + Series
11.096	H	Pentagon Channel	28000	News + Series
11.117	V	BBC CBeebies Polan	27500	News + Series
11.117	V	BBC Entertainment Po	27500	News + Series
11.117	V	BBC Knowledge Poland	27500	News + Series
11.117	V	BBC Lifestyle Poland	27500	News + Series
● 11.117	V	Discovery ID Poland	27500	Quality Entertain.
● 11.117	V	Discovery Travel & L	27500	Quality Entertain.
11.117	V	Wedding TV	27500	News + Series
11.117	V	BBC Persian	27500	Quality Entertain.
11.117	V	R1	27500	News + Series
11.117	V	Yes Italia by NewC	27500	News + Series
11.137	H	Motors TV	27500	Quality Entertain.
11.137	H	FARSI1	27500	Quality Entertain.
11.137	H	GEM TV	27500	News + Series
11.137	H	Kurdistan TV	27500	Quality Entertain.
11.137	H	NHK World	27500	Quality Entertain.
11.137	H	Sardegna1	27500	News + Series
11.137	H	TelefortuneSat	27500	News + Series
11.137	H	TV5MONDE EUROPE	27500	Quality Entertain.
11.137	H	TV5MONDE FBS	27500	Quality Entertain.
11.137	H	Videolina	27500	News + Series
11.158	V	Polsat Sport	27500	Home Cinema
11.158	V	Polsat	27500	Quality Entertain.
11.158	V	Polsat Cafe	27500	Low Level
11.158	V	Polsat News	27500	News + Series
11.158	V	Polsat Play	27500	News + Series
11.158	V	Polsat Sport Extra	27500	Quality Entertain.
11.158	V	Polsat2	27500	News + Series
11.158	V	TV4	27500	Quality Entertain.
11.158	V	TV Biznes	27500	Low Level
11.179	H	ALL TV	27500	Low Level
● 11.179	H	Cancao Nova Int.	27500	News + Series
11.179	H	GBR	27500	News + Series
11.179	H	GLOBE MEDIA	27500	Low Level
11.179	H	NEW TELEVISION	27500	News + Series
11.179	H	Studio Europa	27500	Low Level
11.179	H	Super Tennis	27500	News + Series
11.179	H	TEF CHANNEL	27500	News + Series
11.179	H	Telelotto	27500	Low Level
11.179	H	Telemarket	27500	Quality Entertain.
● 11.179	H	TelePadrePio	27500	News + Series
● 11.179	H	Test 4914	27500	Quality Entertain.
11.179	H	Test Channel	27500	Low Level
11.179	H	TRSP	27500	Low Level
11.179	H	TV Moda	27500	News + Series
11.200	V	.Lolita	27500	Low Level
11.200	V	Betting Channel	27500	News + Series
● 11.200	V	Channel 6	27500	Low Level
11.200	V	EBC.1	27500	Low Level
11.200	V	ELITE SHOPPING	27500	News + Series
11.200	V	Hot Club	27500	Advertisement
● 11.200	V	M.SAT	27500	Low Level
11.200	V	Made In Italy	27500	Low Level
11.200	V	Mediatel	27500	News + Series
● 11.200	V	Milano Teleport	27500	News + Series
11.200	V	MOTORI TV	27500	Low Level
11.200	V	Napoli Nova	27500	Low Level
11.200	V	OASI tv	27500	Low Level
11.200	V	ODEON SAT	27500	News + Series
11.200	V	PLAY TV ITALIA	27500	News + Series
● 11.200	V	Redroom	27500	Low Level
● 11.200	V	SAT8	27500	Low Level
11.200	V	Sexy 1	27500	Low Level
11.200	V	STARSAT	27500	Low Level
11.200	V	Telenord	27500	News + Series
11.200	V	TLC SAT	27500	News + Series
11.200	V	Trentino TV	27500	News + Series
11.200	V	TV LUNA SAT	27500	Low Level
11.200	V	UTV	27500	News + Series
11.585	V	Private Spice	27500	News + Series
11.585	V	TV GLOBO	27500	Quality Entertain.
11.585	V	.Viva L'Italia Chann	27500	News + Series
11.585	V	Ariana TV	27500	News + Series
11.585	V	Ayngaran TV	27500	News + Series
11.585	V	BFM TV	27500	News + Series
● 11.585	V	Casa Italia	27500	Low Level
● 11.585	V	Casting Channel	27500	Low Level
11.585	V	DAYSTAR TV	27500	News + Series
11.585	V	E'TV Emilia Romagna	27500	Low Level
11.585	V	EWTN UK	27500	News + Series
● 11.585	V	Galaxy	27500	Low Level
11.585	V	INSPIRATIONNAL	27500	Low Level
● 11.585	V	ISLAM Channel	27500	Low Level
● 11.585	V	Mondo Arte	27500	Low Level
● 11.585	V	One Minute	27500	Low Level
11.585	V	Payam	27500	News + Series
11.585	V	TISHK TV	27500	Low Level
11.623	V	KBS_WORLD	27500	Low Level
11.623	V	!ALLOVE	27500	Low Level
11.623	V	!EL HOB TV	27500	Low Level
● 11.623	V	4U India	27500	Low Level
11.623	V	Abu_dhabi_Sport	27500	Quality Entertain.
11.623	V	ARTE	27500	Quality Entertain.
11.623	V	BEUR TV	27500	Low Level
11.623	V	Carisma_TV	27500	Low Level
11.623	V	Cartomanzia_LOTTO	27500	Low Level
11.623	V	DAN LANKA	27500	Low Level
11.623	V	ITALIA SAT	27500	Low Level
11.623	V	ITALIA_CHANNEL	27500	Low Level
11.623	V	ITALY ITALY	27500	Low Level
11.623	V	K+	27500	News + Series
11.623	V	PIANETA	27500	Low Level
11.623	V	RTL 102.5 TV	27500	Quality Entertain.
● 11.623	V	SEXYSAT2	27500	Low Level
11.623	V	South for You	27500	News + Series
11.623	V	TV_ROMANIA	27500	News + Series
● 11.642	H	Bloomberg Feeds (Blo	27500	Advertisement
● 11.642	H	Bloomberg Feeds (A	27500	News + Series
11.642	H	Bloomberg Feeds (B	27500	Quality Entertain.
11.642	H	Bloomberg Feeds (Blo	27500	Quality Entertain.
11.642	H	Bloomberg Feeds (E	27500	News + Series
● 11.642	H	Bloomberg Feeds (KNN	27500	News + Series
● 11.642	H	Bloomberg Feeds (Liv	27500	News + Series
11.642	H	Bloomberg Feeds (Mir	27500	News + Series
11.642	H	Bloomberg Feeds (S	27500	News + Series
11.642	H	Bloomberg Feeds (S	27500	News + Series
● 11.645	H	Bloomberg 16:9 Test	27500	Advertisement
● 11.645	H	Al Rasheed TV	27500	News + Series
11.645	H	Bloomberg European T	27500	Quality Entertain.
● 11.645	H	Bloomberg UK	27500	Quality Entertain.
11.645	H	ERTSAT Europe	27500	News + Series
● 11.645	H	KNN	27500	News + Series
● 11.645	H	Live Channel	27500	News + Series
11.645	H	Miracle TV	27500	News + Series
11.645	H	SAT-7 KIDS	27500	News + Series
11.645	H	SAT-7 PARS	27500	News + Series
11.662	V	CONTO TV 1	27500	News + Series
11.662	V	CONTO TV 2	27500	Low Level
11.662	V	AB Channel	27500	Low Level
11.662	V	BLU	27500	Low Level
● 11.662	V	Canale 8	27500	Low Level
11.662	V	Canale Italia	27500	News + Series
11.662	V	CONTO TV	27500	Low Level
11.662	V	CONTO TV 3	27500	Low Level
● 11.662	V	CONTO TV1_B	27500	Low Level
● 11.662	V	CONTO TV2_B	27500	Low Level
● 11.662	V	CONTO TV4	27500	Low Level
● 11.662	V	Extra3	27500	Low Level
● 11.662	V	GOLD SHOP SAT	27500	News + Series
11.662	V	IMC	27500	News + Series
11.662	V	Italy Sat	27500	Low Level
11.662	V	ItalySat	27500	Advertisement
11.662	V	Libera	27500	News + Series
11.662	V	Link Tp 158	27500	Advertisement
● 11.662	V	Link2 Sat	27500	Low Level
11.662	V	Napoli Mia	27500	Low Level
11.662	V	Nostradamus	27500	Low Level
11.662	V	PUNTOSAT	27500	News + Series
11.662	V	Rolsat	27500	Low Level
● 11.662	V	ROMA SAT	27500	Low Level
● 11.662	V	Sport Channel	27500	Low Level
● 11.662	V	TELECOLOR	27500	Advertisement
11.662	V	TELECOLORE	27500	Low Level
11.662	V	Tr2 Sat	27500	Low Level
11.662	V	Tv7 Lombardia	27500	Low Level
11.678	H	AB MOTEURS	27500	News + Series
11.678	H	AB1	27500	News + Series
11.678	H	ACTION	27500	Low Level
11.678	H	ANIMAUX	27500	News + Series
11.678	H	CHASSE & PECHE	27500	News + Series
11.678	H	ENCYCLOPEDIA	27500	Low Level
11.678	H	ESCALES	27500	News + Series
11.678	H	Fit/Toute l'Histoire	27500	News + Series
11.678	H	France 5	27500	Low Level
11.678	H	France ô	27500	News + Series
11.678	H	LCP	27500	News + Series
11.678	H	MANGAS	27500	News + Series
11.678	H	NT1	27500	News + Series
11.678	H	RTL9	27500	Low Level
11.678	H	TF1	27500	News + Series
11.678	H	XXL	27500	Low Level
11.678	H	XXL PL	27500	Low Level
● 11.678	H	BFM TV	27500	Low Level
● 12.520	V	HRT PLUS	27500	Quality Entertain.
12.520	V	HRT-TV1	27500	Home Cinema
12.520	V	HRT-TV2	27500	Home Cinema
12.520	V	Ishtar TV	27500	News + Series
12.520	V	Jewels Sorg1	27500	Low Level
12.520	V	Jewels Sorg2	27500	Low Level
12.520	V	Jewels Sorg3	27500	Low Level
● 12.520	V	LOVEWORLD	27500	News + Series
12.520	V	NOELLO SAT	27500	Low Level
● 12.520	V	PASSIONE PESCA	27500	Low Level
12.520	V	RBC-TV	27500	Quality Entertain.
● 12.520	V	SUN TV	27500	News + Series
12.520	V	TAXI CHANNEL	27500	Low Level
12.539	H	A3	27500	News + Series
● 12.539	H	ADMINISTRA.IT	27500	Advertisement
12.539	H	BLUTV	27500	News + Series
12.539	H	Canal Algerie	27500	News + Series
12.539	H	CARPE DIEM	27500	Low Level
12.539	H	DIRECT 8	27500	News + Series
12.539	H	EUROITALY	27500	Low Level
12.539	H	feed	27500	Low Level
12.539	H	MEDIOLANUM	27500	Quality Entertain.
12.539	H	Nile News	27500	News + Series
12.539	H	Nile TV Internationa	27500	News + Series
● 12.539	H	PEOPLE TV-RETE7	27500	News + Series
12.539	H	TV8 Mt Blanc	27500	News + Series
12.539	H	TVA Vicenza	27500	Low Level
12.558	V	AL JAZEERA CHILDR	27500	Home Cinema
12.558	V	Baraem	27500	Home Cinema
● 12.558	V	T. R. Padre Pio	27500	News + Series
12.577	H	Canal +	27500	High Quality Home
12.577	H	I tele	27500	High Quality Home
12.577	H	M6	27500	High Quality Home
12.577	H	Orange ciné choc	27500	High Quality Home
12.577	H	Orange ciné géants	27500	High Quality Home
12.577	H	Orange ciné happy	27500	High Quality Home
12.577	H	Orange ciné max	27500	High Quality Home
12.577	H	Orange ciné max HD	27500	High Quality Home
12.577	H	Orange ciné novo	27500	High Quality Home
12.577	H	Orange Sport	27500	High Quality Home
12.577	H	W9	27500	High Quality Home
12.577	H	Orange Sport HD	27500	High Quality Home
12.597	V	CNNi	27500	News + Series
12.597	V	JSTV1	27500	News + Series
12.597	V	JSTV2	27500	News + Series
12.597	V	1TVRUS Europe	27500	Quality Entertain.
12.597	V	ARM_1	27500	Quality Entertain.

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	12.597	V	BBC World News	27500	Quality Entertain.
●	12.597	V	DIAA TV	27500	News + Series
	12.597	V	Euronews	27500	Quality Entertain.
	12.597	V	Sonshine TV	27500	News + Series

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	10.723	H	10.722 H	29900	Quality Entertain.
●	10.723	H	Private Spice	29900	News + Series
	10.723	H	Deepam TV	29900	Quality Entertain.
	10.723	H	MTA INTL	29900	Quality Entertain.
	10.723	H	RTPi	29900	News + Series
●	10.723	H	Teleippica CH1	29900	Quality Entertain.
	10.723	H	Thendral	29900	News + Series
●	10.757	V	23	27500	News + Series
●	10.757	V	24	27500	News + Series
●	10.757	V	25	27500	News + Series
●	10.757	V	26	27500	News + Series
●	10.757	V	Test 1	27500	News + Series
●	10.757	V	Test 2	27500	News + Series
●	10.757	V	Test 3	27500	News + Series
●	10.757	V	Test 4	27500	News + Series
●	10.757	V	Test5	27500	News + Series
	10.834	V	Animal Planet	27500	High Quality Home
●	10.834	V	AXN	27500	High Qual. Cinema
	10.834	V	AXN Crime	27500	High Qual. Cinema
	10.834	V	AXN SciFi	27500	High Qual. Cinema
●	10.834	V	Boomerang	27500	High Qual. Cinema
●	10.834	V	DaVinci	27500	High Qual. Cinema
	10.834	V	Discovery Historia	27500	High Quality Home
	10.834	V	Discovery Science	27500	High Quality Home
	10.834	V	Discovery World	27500	High Quality Home
●	10.834	V	Disney XD	27500	High Qual. Cinema
	10.834	V	H2	27500	High Qual. Cinema
	10.834	V	H3	27500	High Qual. Cinema
●	10.834	V	Jetix Play	27500	High Qual. Cinema
●	10.834	V	JimJam	27500	High Qual. Cinema
	10.834	V	KidsCo	27500	High Qual. Cinema
	10.834	V	KP	27500	High Quality Home
	10.834	V	M	27500	High Quality Home
●	10.834	V	MTV2	27500	High Qual. Cinema
●	10.834	V	n 57	27500	High Quality Home
●	10.834	V	n 58	27500	High Quality Home
●	10.834	V	n 59	27500	High Quality Home
●	10.834	V	NASN	27500	High Qual. Cinema
●	10.834	V	Sport Klub	27500	High Qual. Cinema
●	10.834	V	Sport Klub +	27500	High Qual. Cinema
	10.834	V	Travel & Living	27500	High Quality Home
●	10.834	V	TVP Historia	27500	High Qual. Cinema
	10.834	V	Eska TV	27500	Quality Entertain.
	10.949	V	Cartoon Network	27500	Quality Entertain.
	10.949	V	CN/TCM	27500	Quality Entertain.
	10.949	V	Disney Channel	27500	Quality Entertain.
	10.949	V	Turner Classic Movie	27500	Quality Entertain.
	10.949	V	Al Forat	27500	Quality Entertain.
	10.949	V	Al Hiwar TV	27500	News + Series
	10.949	V	All Music	27500	News + Series
	10.949	V	ANB	27500	News + Series
	10.949	V	DMC TV	27500	News + Series
	10.949	V	Noursat	27500	News + Series
	10.949	V	Rete Capri	27500	News + Series
●	10.949	V	Sat 7 Kids	27500	News + Series
●	10.949	V	Sat 7 Pars	27500	News + Series
	10.971	H	Asianet Plus	27500	Low Level
	10.971	H	Baby TV	27500	News + Series
	10.971	H	Al-Anwar	27500	Low Level
	10.971	H	ARMENIA TV	27500	News + Series
	10.971	H	GOD TV	27500	News + Series
	10.971	H	Ictimai TV	27500	Low Level
●	10.971	H	Imam Hussein TV	27500	Advertisement
	10.971	H	LA8	27500	News + Series
	10.971	H	LA9	27500	News + Series
	10.971	H	MRTV / Univ TV	27500	Low Level
	10.971	H	Music Box Russia	27500	News + Series
	10.971	H	NTD TV	27500	Low Level
	10.971	H	Payam-E-Afghan	27500	Low Level
	10.971	H	Russia Today	27500	Quality Entertain.
	10.971	H	Suroyo tv	27500	Low Level
	10.971	H	Telenova	27500	Low Level
	10.971	H	The Word Network	27500	Low Level
	10.971	H	TRT-TURK	27500	Quality Entertain.
	11.054	H	bwtv	27500	Quality Entertain.
	11.054	H	Al Beladi TV	27500	News + Series
●	11.054	H	TAPESH	27500	News + Series
	11.470	V	Nick Polska	27500	News + Series
●	11.470	V	Al Hayat	27500	News + Series
	11.470	V	AL Malakoot TV	27500	News + Series
	11.470	V	Ariana	27500	Low Level
	11.470	V	BET NAHRAIN	27500	Quality Entertain.
●	11.470	V	Kanal Jadid	27500	News + Series
●	11.470	V	KOMALA TV	27500	News + Series
	11.470	V	Mktv Sat	27500	News + Series
	11.470	V	MOHABAT TV	27500	News + Series
	11.470	V	PROPHETIC	27500	Low Level
	11.470	V	RIKSAT	27500	News + Series
●	11.470	V	RTV	27500	Low Level
●	11.470	V	SATLINK OU	27500	Quality Entertain.
	11.470	V	Tasvir Iran	27500	Low Level
●	11.488	H		27500	Low Level
	11.488	H	ANIMAL PLANET	27500	News + Series
	11.488	H	CINEMAX	27500	News + Series
	11.488	H	CNBC	27500	News + Series
	11.488	H	KINO POLSKA	27500	News + Series
	11.488	H	TRACE TV	27500	News + Series
	11.488	H	TVP INFO	27500	News + Series
	11.488	H	TVP SPORT	27500	News + Series
	11.488	H	ZONE CLUB	27500	News + Series
	11.488	H	ZONE REALITY	27500	News + Series
	11.488	H	ITV	27500	News + Series
	11.488	H	PULS	27500	News + Series
	11.488	H	TV POLONIA	27500	Low Level
	11.488	H	TVP Kultura	27500	Quality Entertain.
●	11.534	V	Discovery Channel	27500	Quality Entertain.
	11.534	V	Filmbox	27500	Quality Entertain.
	11.534	V	Filmbox Extra	27500	Quality Entertain.
	11.534	V	Filmbox Family	27500	Quality Entertain.
●	11.534	V	ID	27500	Quality Entertain.
	11.534	V	n Sport	27500	Home Cinema
	11.534	V	Religia.TV	27500	Quality Entertain.
	11.534	V	TVP Sport	27500	Quality Entertain.
	11.534	V	TVN Warszawa	27500	Home Cinema
●	11.541	V	LA7	22000	Quality Entertain.
●	11.541	V	50 Canale	22000	News + Series
	11.541	V	BERGAMOSAT	22000	News + Series
	11.541	V	Health&Beauty TV	22000	Low Level
	11.541	V	Italia 8	22000	News + Series
	11.541	V	La Nuova TV	22000	Low Level
	11.541	V	Nessuno TV	22000	Low Level
	11.541	V	Sardegna Channel	22000	Low Level
	11.541	V	Telelombardia	22000	News + Series
	11.541	V	TeleTirreno	22000	Low Level
	11.541	V	THOU TV	22000	Low Level
	11.541	V	TIVUTIVU	22000	Low Level
	11.541	V	Toscana Channel	22000	Low Level
	11.541	V	Umbria Channel	22000	Low Level
	11.541	V	YOUDEM	22000	News + Series
	11.566	H	Barada TV	27500	News + Series
	11.566	H	CALL SHOP TV	27500	News + Series
	11.566	H	Church Channel	27500	News + Series
	11.566	H	EL SHAFAA	27500	News + Series
	11.566	H	Good Shepherd TV Int	27500	Low Level
	11.566	H	JCTV	27500	News + Series
●	11.566	H	Kliksat.Farhad	27500	Advertisement
	11.566	H	NEJAT TV	27500	News + Series
	11.566	H	Noor TV	27500	News + Series
	11.566	H	PARS TV	27500	Low Level
●	11.566	H	Salaam TV	27500	Low Level
	11.566	H	Smile of a Child	27500	News + Series
	11.566	H	Smile of a Child Rus	27500	News + Series
	11.566	H	TBN Europe	27500	News + Series
	11.566	H	TBN ITALIA	27500	Low Level
	11.566	H	TBN RUSSIA	27500	News + Series
	11.566	H	TBNEspain	27500	News + Series
	11.604	H	' ' Hot Arab Sex	27500	Advertisement
	11.604	H	+18 Love Girls	27500	Advertisement
	11.604	H	.arab babes	27500	Advertisement
●	11.604	H	121 India	27500	Advertisement
	11.604	H	7'armanat Nar	27500	Low Level
	11.604	H	Ailaj TV	27500	Advertisement
	11.604	H	Al-Gina TV	27500	Low Level
	11.604	H	Arab XXX	27500	Advertisement
	11.604	H	arab-69.tv	27500	Advertisement
	11.604	H	Arab-Jins	27500	Advertisement
	11.604	H	ARD "Das Erste	27500	Quality Entertain.
	11.604	H	ASO SAT	27500	Low Level
	11.604	H	DW-TV ARABIA	27500	Quality Entertain.
	11.604	H	DW-TV EUROPA	27500	Quality Entertain.
	11.604	H	Erde und Mensch	27500	Low Level
	11.604	H	Ethnic TV	27500	News + Series
	11.604	H	Italiamia	27500	News + Series
	11.604	H	Lebnaniat TV.	27500	Advertisement
	11.604	H	Love TV	27500	Advertisement
	11.604	H	Napoli TLA	27500	Low Level
	11.604	H	Pali Television	27500	News + Series
	11.604	H	RTL 2 CH	27500	Quality Entertain.
	11.604	H	Sexty9 Arab	27500	Advertisement
	11.604	H	Sexy love girls	27500	Advertisement
	11.604	H	Sexy Sexy TV	27500	Advertisement
	11.604	H	Tele A	27500	News + Series
	11.604	H	Tele A+	27500	News + Series
	11.727	V	S1	27500	Low Level
	11.727	V	S2	27500	Low Level
	11.727	V	S3	27500	Low Level
	11.727	V	S4	27500	Low Level
●	11.727	V	S5	27500	Low Level
	11.727	V	S6	27500	Low Level
●	11.727	V	S7	27500	Low Level
●	11.727	V	SCT	27500	Low Level
	11.727	V	AVA MUSIC	27500	Low Level
	11.727	V	BBC Arabic	27500	Quality Entertain.
	11.727	V	Canal 24 Horas	27500	Quality Entertain.
	11.727	V	DM ARABIA	27500	News + Series
	11.727	V	TAK TV	27500	News + Series
	11.727	V	TVE Internacional	27500	Quality Entertain.
	11.727	V	TVE Internacional As	27500	Quality Entertain.
	11.785	H	Fox HD	27500	High Qual. Cinema
●	11.785	H	Prima Fila HD 2	27500	High Qual. Cinema
	11.785	H	Fox Crime HD	27500	High Qual. Cinema
	11.785	H	NationalGeo HD	27500	High Qual. Cinema
●	11.785	H	SKY Calcio 1 HD	27500	High Qual. Cinema
●	11.785	H	SKY Calcio 2 HD	27500	High Qual. Cinema
	11.823	H	ALPHA TV	27500	Quality Entertain.
	11.823	H	ALTER	27500	News + Series
	11.823	H	ANT-1	27500	Home Cinema
●	11.823	H	Disney XD	27500	Low Level
	11.823	H	MEGA	27500	Quality Entertain.
	11.823	H	novacinema1	27500	News + Series
	11.823	H	novasports1	27500	Home Cinema
	11.823	H	novasports1 Cy	27500	Home Cinema
	11.823	H	R1	27500	Quality Entertain.
	11.823	H	R11	27500	Home Cinema
	11.823	H	R12	27500	Low Level
	11.823	H	R13	27500	Quality Entertain.
	11.823	H	R3	27500	Quality Entertain.
	11.823	H	R4	27500	Quality Entertain.
	11.823	H	R5	27500	Quality Entertain.
	11.823	H	R6	27500	News + Series
	11.823	H	STAR	27500	Home Cinema
	11.842	V	Caccia e Pesca	27500	News + Series
	11.842	V	Fox Crime +1	27500	Quality Entertain.
	11.842	V	GXT	27500	Quality Entertain.

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

Cost Conscious Entertainment ..... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.842	V	History	27500	News + Series
11.842	V	iadv Video	27500	News + Series
11.842	V	JimJam	27500	Quality Entertain.
11.842	V	Jimmy	27500	Quality Entertain.
11.842	V	MotoTV	27500	Quality Entertain.
11.842	V	Yacht & Sail	27500	News + Series
11.842	V	SKY Inside	27500	News + Series
11.861	H	Current	27500	News + Series
11.861	H	FX	27500	Quality Entertain.
11.861	H	NatGeo Music	27500	Quality Entertain.
11.861	H	Prima Fila	27500	News + Series
11.861	H	SKY Meteo24	27500	Quality Entertain.
11.861	H	SKY TG 24	27500	Quality Entertain.
11.861	H	SNAI Sat	27500	News + Series
11.861	H	TG 24 - Feed 1	27500	News + Series
11.861	H	TG 24 - Feed 2	27500	News + Series
11.861	H	TG 24 - Feed 3	27500	News + Series
11.861	H	TG 24 - Feed 4	27500	News + Series
11.861	H	TG 24 - Mosaico	27500	Quality Entertain.
11.880	V	Alice	27500	Quality Entertain.
11.880	V	Fox +1	27500	Quality Entertain.
11.880	V	Leonardo	27500	Quality Entertain.
11.880	V	Marcopolo	27500	Quality Entertain.
11.880	V	NationalGeo	27500	Quality Entertain.
11.880	V	Nuvolari	27500	Quality Entertain.
11.900	H	Cinema Classics	27500	Home Cinema
11.900	H	Prima Fila 16	27500	Low Level
11.900	H	Prima Fila 17	27500	Low Level
11.900	H	Prima Fila 21	27500	Low Level
11.900	H	Prima Fila 22	27500	Low Level
11.900	H	Prima Fila 3	27500	Low Level
11.900	H	Prima Fila 8	27500	Low Level
11.900	H	SKY Calcio 10	27500	Low Level
11.900	H	SKY Calcio 11	27500	Low Level
11.900	H	SKY Calcio 12	27500	Quality Entertain.
11.900	H	SKY Calcio 13	27500	Low Level
11.900	H	SKY Calcio 8	27500	Home Cinema
11.900	H	SKY Calcio 9	27500	Home Cinema
11.938	H	ALFA	27500	Quality Entertain.
11.938	H	Boomerang	27500	Quality Entertain.
11.938	H	Chasse & Peche	27500	Low Level
11.938	H	E! Entertainment	27500	News + Series
11.938	H	LTV	27500	Quality Entertain.
11.938	H	novacinema3	27500	News + Series
11.938	H	novacinema3 Cy	27500	News + Series
11.938	H	novasports highlight	27500	Quality Entertain.
11.938	H	novasports4	27500	Low Level
11.938	H	novasports4 Cy	27500	News + Series
11.938	H	novasports6	27500	News + Series
11.938	H	novasports6 Cy	27500	News + Series
11.938	H	Playboy TV	27500	Low Level
11.938	H	Playboy TV Cy	27500	Low Level
11.938	H	Private Spice	27500	News + Series
11.938	H	Private Spice Cy	27500	News + Series
11.938	H	The History Channel	27500	News + Series
11.938	H	Nova Promo	27500	News + Series
11.958	V	Discovery	27500	News + Series
11.958	V	SKY Sport 1	27500	Home Cinema
11.958	V	SKY Sport 2	27500	News + Series
11.958	V	Sky Sport 24	27500	Quality Entertain.
11.958	V	SKY SuperCalcio	27500	News + Series
11.958	V	Sport Active 1	27500	News + Series
11.958	V	Sports Active 2	27500	Low Level
11.958	V	Sports Active 3	27500	News + Series
11.958	V	Toon Disney	27500	Low Level
11.976	H	Cartoon Network	27500	News + Series
11.976	H	Cult	27500	News + Series
11.976	H	Disney XD	27500	News + Series
11.976	H	Fantasy	27500	Quality Entertain.
11.976	H	Fox	27500	News + Series
11.976	H	Fox Crime	27500	News + Series
11.976	H	Fox Life	27500	News + Series
11.976	H	History +1	27500	News + Series
11.976	H	NatGeo Wild	27500	Quality Entertain.
11.976	H	NatGeoAdventur	27500	News + Series
11.976	H	NationalGeo +1	27500	Quality Entertain.
11.996	V	SKY Focus HD	27500	High Qual. Cinema
11.996	V	SKY Sport 1 HD	27500	High Qual. Cinema
11.996	V	SKY Sport 2 HD	27500	High Qual. Cinema
11.996	V	SKY Sport 3 HD	27500	High Qual. Cinema
11.996	V	SKY SupCalcioHD	27500	High Qual. Cinema
12.015	H	ART - ARABESQUE	27500	News + Series
12.015	H	ART CINEMA - AR	27500	News + Series
12.015	H	ART HEKAYAT - A	27500	News + Series
12.015	H	ART HEKAYAT KAMAN	27500	News + Series
12.015	H	ART MOVIES - AR	27500	Low Level
12.015	H	ART MOVIES2 - A	27500	Low Level
12.015	H	ART PRIME SPORT -	27500	News + Series
12.015	H	ART SPORT 1 - A	27500	News + Series
12.015	H	ART SPORT 2 - A	27500	News + Series
12.015	H	ART SPORT 3 - A	27500	News + Series
12.015	H	ART SPORT 4 - A	27500	News + Series
12.015	H	ART Sport 5 - A	27500	Low Level
12.015	H	ART SPORT 6 - A	27500	Low Level
12.015	H	LBC EUROPE - AR	27500	News + Series
12.015	H	FUTUTRE NEWS - A	27500	Low Level
12.015	H	IQRAA - ARABESQ	27500	Low Level
12.034	V	Cinema Family	27500	Home Cinema
12.034	V	Cinema Mania	27500	Quality Entertain.
12.034	V	Cinema Max	27500	Quality Entertain.
12.034	V	Disney Channel	27500	News + Series
12.034	V	E!	27500	Quality Entertain.
12.034	V	ESPN America	27500	Quality Entertain.
12.034	V	Playhouse Disney	27500	News + Series
12.034	V	SKY Cinema 1	27500	Quality Entertain.
12.034	V	SKY Uno +1	27500	News + Series
12.054	H	Cinema Hits	27500	Quality Entertain.
12.054	H	Prima Fila 31	27500	News + Series
12.054	H	SKY Calcio 1	27500	Quality Entertain.
12.054	H	SKY Calcio 14	27500	Low Level
12.054	H	SKY Calcio 15	27500	News + Series
12.054	H	SKY Cinema +1	27500	Quality Entertain.
12.054	H	SKY Sport 3	27500	Quality Entertain.
12.054	H	SKY Sport Extra	27500	News + Series
12.054	H	SKY Uno	27500	News + Series
12.072	V	Prima Fila 11	27500	Low Level
12.072	V	Prima Fila 27	27500	Low Level
12.072	V	Prima Fila 28	27500	News + Series
12.072	V	Prima Fila 29	27500	News + Series
12.072	V	Prima Fila 30	27500	News + Series
12.072	V	Prima Fila 5	27500	Low Level
12.072	V	SKY Calcio 2	27500	News + Series
12.072	V	SKY Calcio 3	27500	News + Series
12.072	V	SKY Calcio 4	27500	News + Series
12.072	V	SKY Calcio 5	27500	News + Series
12.072	V	SKY Calcio 6	27500	News + Series
12.072	V	SKY Calcio 7	27500	News + Series
12.092	H	AXN	27500	News + Series
12.092	H	Cinema Italia	27500	Quality Entertain.
12.092	H	Class CNBC	27500	News + Series
12.092	H	Comedy +1	27500	News + Series
12.092	H	Discovery Sci	27500	Low Level
12.092	H	Discovery Travel	27500	Low Level
12.092	H	Fox Retro	27500	Quality Entertain.
12.092	H	Gambero Rosso	27500	Quality Entertain.
12.092	H	Lady Channel	27500	News + Series
12.092	H	Nick Jr	27500	News + Series
12.092	H	Onda Latina	27500	Quality Entertain.
12.130	H	m2 HD	27500	High Quality Home
12.130	H	m2	27500	Home Cinema
12.130	H	m2 16:9	27500	Home Cinema
12.149	V	EQUIDIA	27500	Quality Entertain.
12.149	V	CCTV4	27500	News + Series
12.149	V	DunaTV	27500	Quality Entertain.
12.149	V	FUEGO	27500	Low Level
12.149	V	IN TV	27500	Low Level
12.149	V	Khabar TV	27500	Quality Entertain.
12.149	V	LIDER TV AZE	27500	Quality Entertain.
12.149	V	SALENTO CHANNEL	27500	News + Series
12.149	V	STUDIO 100 TV	27500	News + Series
12.149	V	TV7 Tunis	27500	Quality Entertain.
12.149	V	Ulisse	27500	Low Level
12.149	V	UNIVERSAL TV	27500	Low Level
12.169	H	Cartoon Network	27500	Low Level
12.169	H	Discovery Channel	27500	Quality Entertain.
12.169	H	ET-1	27500	Quality Entertain.
12.169	H	ET-3	27500	News + Series
12.169	H	FOXlife	27500	Low Level
12.169	H	MACEDONIA TV	27500	News + Series
12.169	H	MAD T.V	27500	Quality Entertain.
12.169	H	MAD TV	27500	News + Series
12.169	H	NET	27500	News + Series
12.169	H	novasports2	27500	Quality Entertain.
12.169	H	novasports2 Cy	27500	Quality Entertain.
12.169	H	novasports7	27500	Quality Entertain.
12.169	H	novasports7 Cy	27500	Quality Entertain.
12.169	H	R10	27500	News + Series
12.169	H	R14	27500	News + Series
12.169	H	R15	27500	Quality Entertain.
12.169	H	R7	27500	News + Series
12.169	H	R8	27500	News + Series
12.169	H	R9	27500	News + Series
12.169	H	SKAI TV	27500	Quality Entertain.
12.169	H	TCM	27500	Low Level
12.169	H	Βουλή	27500	Low Level
12.188	V	AXN	27500	News + Series
12.188	V	AXN Crime	27500	News + Series
12.188	V	AXN Sci-Fi	27500	News + Series
12.188	V	Cinemax2	27500	News + Series
12.188	V	Discovery	27500	News + Series
12.188	V	Disney XD	27500	Low Level
12.188	V	ESPN	27500	News + Series
12.188	V	Extreme Sports	27500	News + Series
12.188	V	FoxLife	27500	News + Series
12.188	V	Polsat Futbol	27500	Home Cinema
12.188	V	test_desc	27500	News + Series
12.188	V	TVP1	27500	Quality Entertain.
12.188	V	TVP2	27500	Quality Entertain.
12.188	V	Zone Romantica	27500	Low Level
12.207	H	Asianet	27500	News + Series
12.207	H	Free-X TV	27500	News + Series
12.207	H	FREE-XTV 2	27500	News + Series
12.207	H	XXX Xtreme	27500	News + Series
12.207	H	3ABN International	27500	Low Level
12.207	H	Arirang TV	27500	Quality Entertain.
12.207	H	BVN	27500	News + Series
12.207	H	CNL	27500	Low Level
12.207	H	Fashion TV	27500	News + Series
12.207	H	IPN TV	27500	News + Series
12.207	H	ITN	27500	News + Series
12.207	H	KICC TV	27500	News + Series
12.207	H	Kliksat.Farhad	27500	Advertisement
12.207	H	KURDsat	27500	News + Series
12.207	H	PDF Channel	27500	Low Level
12.207	H	Rojhelat	27500	Low Level
12.207	H	Thai Global Network	27500	News + Series
12.207	H	VTV4	27500	Low Level
12.226	V	DOS TV 340	16300	Quality Entertain.
12.226	V	IBB OS Download 8	16300	Quality Entertain.
12.226	V	IBB OS Download 9	16300	Quality Entertain.
12.226	V	IBB VOA RFERL Rad	16300	Quality Entertain.
12.226	V	IBB VOA RFERL Rad	16300	Quality Entertain.
12.226	V	IBB VOA RFERL Rad	16300	Quality Entertain.
12.226	V	IBB VOA RFERL Rad	16300	Quality Entertain.
12.226	V	IBB VOA RFERL Rad	16300	Quality Entertain.
12.226	V	IBB VOA RFERL Rad	16300	Quality Entertain.
12.226	V	IBB VOA RFERL Rad	16300	Quality Entertain.
12.226	V	IBB VOA RFERL Rad	16300	Quality Entertain.
12.226	V	IBB VOA RFERL Rad	16300	Quality Entertain.
12.226	V	IBB VOA RFERL Rad	16300	Quality Entertain.
12.226	V	IBB VOA RFERL Rad	16300	Quality Entertain.
12.226	V	IBB VOA RFERL Rad	16300	Quality Entertain.
12.226	V	IBB VOA RFERL Rad	16300	Quality Entertain.
12.226	V	MTN-E 284	16300	Quality Entertain.
12.226	V	MTN-E TV 190	16300	Quality Entertain.
12.226	V	VOA Music Mix 260	16300	Quality Entertain.
12.226	V	VOA Music Mix 261	16300	Quality Entertain.
12.226	V	VOA Music Mix 262	16300	Quality Entertain.
12.226	V	VOA Music Mix 268	16300	Quality Entertain.
12.226	V	VOA Persian TV 295	16300	Quality Entertain.
12.226	V	VOA Persian TV 298	16300	Quality Entertain.
12.226	V	VOA TV 1 (HB1-8)	16300	Quality Entertain.
12.226	V	VOA TV 100 (HB1-4)	16300	Quality Entertain.
12.226	V	VOA TV 240 (HB1-8)	16300	Quality Entertain.
12.226	V	VOA TV 241 (HB1-2,	16300	Quality Entertain.
12.226	V	VOA TV 242 (HB1-2,	16300	Quality Entertain.
12.226	V	VOA TV 250 (HB1-8)	16300	Quality Entertain.
12.226	V	VOA TV 251 (HB1-2,	16300	Quality Entertain.
12.226	V	VOA TV 252 (HB1-2,	16300	Quality Entertain.
12.242	V	PNN	3700	Quality Entertain.
12.245	H	FOXlife	27500	Low Level
12.245	H	MEZZO	27500	Quality Entertain.
12.245	H	AL BAGHDADIA	27500	Quality Entertain.
12.245	H	Al sumariah	27500	News + Series
12.245	H	AL.Haqiqa	27500	News + Series
12.245	H	COMING SOON	27500	News + Series
12.245	H	HOUSE CHANNEL	27500	Low Level
12.245	H	ICC +	27500	Low Level
12.245	H	KANAL4	27500	News + Series
12.245	H	KOREK TV	27500	News + Series
12.245	H	KURD 1	27500	News + Series
12.245	H	NEWROZ TV	27500	News + Series
12.245	H	PEN TV	27500	Low Level
12.245	H	Syrian Drama Channel	27500	Quality Entertain.
12.245	H	UM TV	27500	Low Level
12.245	H	ZAGROS TV	27500	News + Series
12.264	V	Discovery HD	27500	High Qual. Cinema
12.264	V	HBO HD	27500	High Qual. Cinema
12.264	V	Polsat HD	27500	High Quality Home
12.264	V	HBO HD	27500	High Qual. Cinema
12.264	V	Polsat Sport HD	27500	High Quality Home
12.284	H	Blue Hustler	27500	Low Level
12.284	H	Boomerang	27500	News + Series
12.284	H	Dla Abonentow	27500	News + Series
12.284	H	E!	27500	News + Series
12.284	H	Jetix Play	27500	News + Series
12.284	H	Polsat Film	27500	News + Series
12.284	H	Superstacja	27500	News + Series
12.284	H	Test1	27500	Advertisement
12.284	H	Travel	27500	Low Level
12.284	H	TV1000	27500	News + Series
12.284	H	TVP INFO	27500	Quality Entertain.
12.284	H	TVP Sport	27500	News + Series
12.284	H	Zone Europa	27500	News + Series
12.303	V	SLO-TV2	27500	Quality Entertain.
12.303	V	SLO-TV1	27500	Quality Entertain.
12.303	V	SLO-TV3	27500	Low Level
12.303	V	TV K-C	27500	Quality Entertain.
12.303	V	TVS	27500	News + Series
12.322	H	ESP2 HR	27500	Quality Entertain.
12.322	H	ESP2 Hungary	27500	Quality Entertain.
12.322	H	ESP2 Romania	27500	Quality Entertain.
12.322	H	RTVi Detskii Mir-T	27500	Low Level
12.322	H	RTVi Europe	27500	News + Series
12.322	H	RTVi Nashe Kino	27500	News + Series
12.322	H	SCI FI	27500	Quality Entertain.
12.322	H	UNIVERSAL	27500	Quality Entertain.
12.322	H	France 24 (en Arabe)	27500	Quality Entertain.
12.322	H	K2	27500	News + Series
12.322	H	RIT-TV	27500	News + Series
12.322	H	RTVi info	27500	News + Series
12.322	H	World Fashion Channe	27500	Quality Entertain.
12.341	V	Prima Fila HD 1	27500	High Qual. Cinema
12.341	V	Cinema Hits HD	27500	High Qual. Cinema
12.341	V	Cinema Max HD	27500	High Qual. Cinema
12.341	V	Discovery HD	27500	High Qual. Cinema
12.341	V	SKY Cinema 1HD	27500	High Qual. Cinema
12.360	H	RAI Africa	27500	Quality Entertain.
12.360	H	SEX VIEW 247	27500	News + Series
12.360	H	SEX VIEW CLIMAX	27500	Low Level
12.360	H	SEX VIEW DP	27500	Low Level
12.360	H	SEX VIEW EXTRA	27500	Low Level
12.360	H	SEX VIEW EXTREME	27500	Low Level
12.360	H	SEX VIEW GAY	27500	Low Level
12.360	H	SEX VIEW HARDCORE	27500	Low Level
12.360	H	SEX VIEW HOT	27500	Low Level
12.360	H	SEX VIEW INTER	27500	Low Level
12.360	H	SEX VIEW PLUS	27500	Low Level
12.360	H	SEX VIEW SPECIAL	27500	News + Series
12.360	H	BIO TV	27500	Low Level
12.360	H	DIPRÈ ART CHANNEL	27500	Low Level
12.360	H	FREE CHANNEL	27500	Low Level
12.360	H	HOUSE CHANNEL	27500	Advertisement
12.360	H	MARE TV	27500	Low Level
12.360	H	SEX VIEW TV	27500	Low Level
12.360	H	SUBACQUEA TV	27500	Low Level
12.380	V	EQUIDIA PRO	27500	Quality Entertain.
12.380	V	Abu Dhabi	27500	Quality Entertain.
12.380	V	HOLY GOD	27500	Low Level
12.380	V	RTV Montenegro	27500	Quality Entertain.
12.380	V	SAT 7	27500	News + Series
12.380	V	Saudi arabia TV2	27500	Low Level
12.380	V	Syria Satellite Chan	27500	News + Series
12.380	V	Telepace	27500	Low Level
12.380	V	The Spirit Word Chan	27500	News + Series
12.380	V	Yemen TV	27500	News + Series
12.380	V	ZAHRAA TV	27500	Low Level
12.399	H	HD suisse	27500	High Qual. Cinema
12.399	H	SF 1	27500	Home Cinema
12.399	H	SF zwei	27500	Home Cinema
12.399	H	SF info	27500	News + Series
12.418	V	Prima Fila 1	27500	News + Series
12.418	V	Prima Fila 10	27500	News + Series
12.418	V	Prima Fila 12	27500	News + Series
12.418	V	Prima Fila 2	27500	News + Series
12.418	V	Prima Fila 35	27500	News + Series
12.418	V	Prima Fila 4	27500	News + Series
12.418	V	Prima Fila 6	27500	News + Series
12.418	V	Prima Fila 7	27500	News + Series
12.418	V	Prima Fila 9	27500	News + Series
12.418	V	Vetrina Primafila	27500	News + Series
12.418	V	SKY Test	27500	Low Level
12.437	H	AL-ALAM	27500	Quality Entertain.
12.437	H	ALKAWTHAR	27500	Quality Entertain.
12.437	H	FEED	27500	News + Series
12.437	H	IRIB QURAN	27500	Quality Entertain.
12.437	H	IRIB1 ENG	27500	Quality Entertain.
12.437	H	IRIB1 PER	27500	Quality Entertain.
12.437	H	IRIB2 ENG	27500	Quality Entertain.
12.437	H	IRIB2 PER	27500	Quality Entertain.
12.437	H	IRINN	27500	Quality Entertain.
12.437	H	PRESS TV	27500	Quality Entertain.
12.437	H	SAHAR	27500	Quality Entertain.
12.466	V	Boomerang	29900	Quality Entertain.
12.466	V	Boomerang +1	29900	Quality Entertain.
12.466	V	Cartoon +1	29900	Quality Entertain.
12.466	V	CNBC	29900	News + Series
12.466	V	Cooltoon	29900	Quality Entertain.
12.466	V	Disney XD +1	29900	News + Series
12.466	V	Fox News	29900	News + Series
12.466	V	Hallmark	29900	News + Series
12.466	V	LEI	29900	News + Series
12.466	V	MGM	29900	News + Series
12.466	V	Pesca e Caccia	29900	News + Series
12.466	V	Roma Channel	29900	News + Series
12.466	V	Sky News	29900	News + Series
12.476	H	AXN	27500	High Quality Home
12.476	H	AXN Crime	27500	High Quality Home
12.476	H	AXN Sci Fi	27500	High Quality Home
12.476	H	Boomerang	27500	High Quality Home
12.476	H	Comedy Central	27500	High Quality Home
12.476	H	Discovery Channel	27500	High Quality Home
12.476	H	Discovery Science	27500	High Quality Home
12.476	H	Discovery Travel&Liv	27500	High Quality Home
12.476	H	Discovery World	27500	High Quality Home
12.476	H	Eurosport	27500	High Quality Home
12.476	H	Eurosport 2	27500	High Quality Home
12.476	H	Extreme Sports Chann	27500	High Quality Home
12.476	H	KidsCo	27500	High Quality Home
12.476	H	Mezzo	27500	High Quality Home
12.476	H	MTV 2	27500	High Quality Home
12.476	H	MTV Dance	27500	High Quality Home
12.476	H	NG Wild	27500	High Quality Home
12.476	H	Nickelodeon	27500	High Quality Home
12.476	H	Sci Fi Channel	27500	High Quality Home
12.476	H	Travel Channel	27500	High Quality Home
12.476	H	Universal Channel	27500	High Quality Home

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Freq	Pol	Channel Name	Symbol Rate	Programming Type
10.719	V	INFO+/ C+ Sport2	27500	News + Series
10.719	V	DTV CABLE MI	27500	News + Series
10.719	V	DTV CABLE PL	27500	Quality Entertain.
10.719	V	HALLMARK	27500	Low Level
10.719	V	HBO	27500	News + Series
10.719	V	HBO COMEDY	27500	Low Level
10.719	V	HBO2	27500	Quality Entertain.
10.719	V	INFO+/C+ Sport2	27500	News + Series
10.719	V	MINIMINI	27500	News + Series
10.719	V	Movies24	27500	News + Series
10.719	V	Orange Sport	27500	News + Series
10.719	V	PLANETE	27500	News + Series
10.719	V	4fun.TV	27500	Quality Entertain.
10.719	V	PATIO TV	27500	Low Level
10.723	H	Andisheh	29900	News + Series
10.723	H	Ariana Afghanistan	29900	Low Level
10.723	H	NewRoz	29900	News + Series
10.723	H	RTB Virgilio	29900	News + Series
10.775	H	AFN Atlantic	28000	News + Series
10.775	H	AFN Iraq Radio	28000	News + Series
10.775	H	AFN Pacific	28000	News + Series
10.775	H	AFN Program Guide	28000	News + Series
10.775	H	AFN Spectrum	28000	News + Series
10.775	H	AFN Sports	28000	News + Series
10.775	H	Bavaria	28000	News + Series
10.775	H	Benelux	28000	News + Series
10.775	H	Eifel	28000	News + Series
10.775	H	Guide/AFN Bavaria	28000	News + Series
10.775	H	Guide/AFN Bavaria	28000	News + Series
10.775	H	Guide/AFN Benelux	28000	News + Series
10.775	H	Guide/AFN Benelux	28000	News + Series
10.775	H	Guide/AFN Heidelbe	28000	News + Series
10.775	H	Guide/AFN Heidelbe	28000	News + Series
10.775	H	Guide/AFN Hessen E	28000	News + Series
10.775	H	Guide/AFN Hessen P	28000	News + Series
10.775	H	Guide/AFN Kaisersl	28000	News + Series
10.775	H	Guide/AFN Kaisersl	28000	News + Series
10.775	H	Guide/AFNE Eagle	28000	News + Series
10.775	H	Guide/AFNE PowerNe	28000	News + Series
10.775	H	Guide/Classic Rock	28000	News + Series
10.775	H	Guide/Drive FX	28000	News + Series
10.775	H	Guide/ESPN Sports	28000	News + Series
10.775	H	Guide/Fox Sports Tal	28000	News + Series
10.775	H	Guide/Gravity	28000	News + Series
10.775	H	Guide/Hot AC	28000	News + Series
10.775	H	Guide/Jack FM	28000	News + Series
10.775	H	Guide/Mainstream Cou	28000	News + Series
10.775	H	Guide/NPR	28000	News + Series
10.775	H	Guide/UVC	28000	News + Series
10.775	H	Guide/Z-Rock	28000	News + Series
10.775	H	Heidelberg	28000	News + Series
10.775	H	Hessen	28000	News + Series
10.775	H	Kaiserslautern	28000	News + Series
10.775	H	UK	28000	News + Series
10.795	V	D. SCIENCE	27500	News + Series
10.795	V	D. WORLD	27500	Low Level
10.795	V	MTV TWO	27500	News + Series
10.795	V	NATIONAL GEO	27500	News + Series
10.795	V	ORANGE INFO	27500	Quality Entertain.
10.795	V	EDUSAT	27500	Low Level

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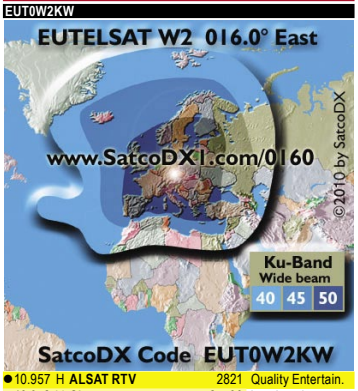
Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
10.795	V	POLONIA1	27500	News + Series
10.795	V	TELE5	27500	News + Series
● 10.892	H	CANAL+ FILM	27500	Quality Entertain.
● 10.892	H	CANAL+	27500	News + Series
● 10.892	H	CANAL+ FILM	27500	Home Cinema
● 10.892	H	CANAL+ SPORT	27500	News + Series
10.892	H	119 test 1 E	27500	News + Series
10.892	H	119 test 1. E	27500	News + Series
10.892	H	119 test 2 E	27500	Home Cinema
10.892	H	119 test 2. E	27500	Home Cinema
10.892	H	119 test 3 E	27500	News + Series
10.892	H	119 test 3. E	27500	Low Level
10.892	H	4823	27500	News + Series
10.892	H	ALE KINO!	27500	News + Series
10.892	H	CANAL+	27500	News + Series
10.892	H	CANAL+ FILM	27500	Home Cinema
10.892	H	CANAL+ SPORT	27500	News + Series
10.892	H	DOMO	27500	News + Series
10.892	H	DTV CABLE AL	27500	News + Series
10.892	H	DTV CABLE KU	27500	Quality Entertain.
10.892	H	DTV CABLE ZI	27500	News + Series
10.892	H	H test 1	27500	News + Series
10.892	H	H test 2	27500	Home Cinema
10.892	H	H test 3	27500	Low Level
10.892	H	KUCHNIA.TV	27500	News + Series
10.892	H	TVP 1	27500	News + Series
10.892	H	TVP 2	27500	News + Series
10.892	H	ZigZap	27500	News + Series
● 10.910	V	Animal Planet	27500	High Quality Home
● 10.910	V	Cartoon Network	27500	High Quality Home
● 10.910	V	CNN	27500	High Quality Home
● 10.910	V	Disney XD	27500	High Quality Home
● 10.910	V	ESPN America	27500	High Quality Home
● 10.910	V	ESPN Classic	27500	High Quality Home
● 10.910	V	HBO Comedy	27500	High Quality Home
● 10.910	V	HBO Polska	27500	High Quality Home
● 10.910	V	HBO2 Polska	27500	High Quality Home
● 10.910	V	Jetix Play	27500	High Quality Home
● 10.910	V	Kino Polska	27500	High Quality Home
● 10.910	V	Movies 24	27500	High Quality Home
● 10.910	V	MTV Polska	27500	High Quality Home
● 10.910	V	TCM	27500	High Quality Home
● 10.910	V	VH1 Polska	27500	High Quality Home
● 10.910	V	Zone Club	27500	High Quality Home
● 10.910	V	Zone Europa	27500	High Quality Home
● 10.910	V	Zone Reality	27500	High Quality Home
● 10.910	V	Zone Romantica	27500	High Quality Home
10.930	H	A TEST	27500	Advertisement
10.930	H	Animal Planet	27500	News + Series
10.930	H	MAD GREEKZ	27500	News + Series
10.930	H	MGM	27500	Low Level
10.930	H	MTV	27500	News + Series
10.930	H	National Geographic	27500	News + Series
10.930	H	novacinema1 Cy	27500	Quality Entertain.
10.930	H	novacinema2	27500	News + Series
10.930	H	novacinema2 Cy	27500	Quality Entertain.
10.930	H	novasports3	27500	Home Cinema
10.930	H	novasports3 Cy	27500	Home Cinema
10.930	H	OTV Test	27500	Low Level
● 10.930	H	ser3_1temp	27500	Low Level
● 10.930	H	ser3_2temp	27500	Low Level
10.930	H	Travel Channel	27500	News + Series
10.930	H	VH1	27500	Low Level
11.219	H	50 songs	27500	Low Level
11.219	H	B-Side	27500	Low Level
11.219	H	Baby Mix	27500	Low Level
11.219	H	BBC Prime	27500	News + Series
11.219	H	Capital '70	27500	Low Level
11.219	H	CNN Intl.	27500	Quality Entertain.
11.219	H	DeAKids +1	27500	Low Level
11.219	H	Disc Joker	27500	Low Level
11.219	H	Discovery +1	27500	Quality Entertain.
11.219	H	Extrabeat	27500	Low Level
11.219	H	Heart n' song	27500	Low Level
11.219	H	Hip Hop TV	27500	Quality Entertain.
11.219	H	Hit Italia	27500	Low Level
11.219	H	ItalianVintage	27500	Low Level
11.219	H	Jazz & Fusion	27500	Low Level
11.219	H	Jazz Gold	27500	Low Level
11.219	H	Livetime	27500	Low Level
11.219	H	Matchmusic	27500	News + Series
11.219	H	Mediaset Plus	27500	Quality Entertain.
11.219	H	Music on SKY	27500	Low Level
11.219	H	New Rock	27500	Low Level
11.219	H	Onda Latina	27500	Low Level
11.219	H	Opera	27500	Low Level
11.219	H	Out Of Mind	27500	Low Level
● 11.219	H	Playhouse Disney +	27500	News + Series
11.219	H	Rock Classic	27500	Low Level
11.219	H	Rock Shock	27500	Low Level
11.219	H	Rock TV	27500	News + Series
11.219	H	Sinfonia	27500	Low Level
11.219	H	Soul Train	27500	Low Level
11.219	H	Soulsista	27500	Low Level
11.219	H	Stardust	27500	Low Level
11.219	H	Vintage '60	27500	Low Level
11.219	H	Yesterjay '80	27500	Low Level
11.219	H	Yesterjay '90	27500	Low Level
11.240	V	Club-RTL	27500	High Quality Home
11.240	V	Disney Channel	27500	High Quality Home
11.240	V	La Deux	27500	High Quality Home
11.240	V	La Une	27500	High Quality Home
11.240	V	Plug-RTL	27500	High Quality Home
11.240	V	RTL-TVi	27500	High Quality Home
11.240	V	ESP Bulgarian	27500	Quality Entertain.
11.240	V	ESP Cyprus	27500	Quality Entertain.
11.240	V	ESP Czech	27500	Quality Entertain.
11.240	V	ESP Dutch	27500	Quality Entertain.
11.240	V	ESP Greek	27500	Quality Entertain.
11.240	V	ESP Hungarian	27500	Quality Entertain.
11.240	V	ESP Int'l	27500	Quality Entertain.
11.240	V	ESP Polish	27500	Quality Entertain.
11.240	V	ESP Portuguese	27500	Quality Entertain.
11.240	V	ESP Romanian	27500	Quality Entertain.
11.240	V	ESP Russian	27500	Quality Entertain.
11.240	V	ESP Serbia	27500	Quality Entertain.
11.240	V	ESP Turk	27500	Quality Entertain.
11.240	V	ESP2 German	27500	Quality Entertain.
11.240	V	ESP2 Greek	27500	Quality Entertain.
11.240	V	ESP2 Int'l	27500	Quality Entertain.
11.240	V	ESP2 Romanian	27500	Quality Entertain.
11.240	V	ESP2 Rus	27500	Quality Entertain.
11.240	V	ESP2 Serbia	27500	Quality Entertain.
11.240	V	ESP2 Turk	27500	Quality Entertain.
11.240	V	EUROSPORT PL	27500	Quality Entertain.
11.240	V	EUROSPORT2 PL	27500	Quality Entertain.
11.240	V	EUSP2 PL	27500	Quality Entertain.
11.240	V	France 24 (en Franca	27500	Quality Entertain.
11.240	V	France 24 (in Englis	27500	Quality Entertain.
11.240	V	RTBF SAT	27500	Quality Entertain.
● 11.258	H	Cartoon TCM	27500	High Qual. Cinema
● 11.258	H	Cinemax 1	27500	High Qual. Cinema
● 11.258	H	Cinemax 2	27500	High Qual. Cinema
● 11.258	H	Nat Geo Wild HD	27500	High Qual. Cinema
● 11.258	H	nFilm HD2	27500	High Qual. Cinema
● 11.258	H	Wojna i Pokoj	27500	High Qual. Cinema
● 11.258	H	Animal Planet HD	27500	High Qual. Cinema
● 11.258	H	Eurosport 2 HD	27500	High Qual. Cinema
● 11.258	H	nFilm HD	27500	High Qual. Cinema
● 11.258	H	TVP HD	27500	High Qual. Cinema
11.278	V	CANAL+ FILM HD	27500	High Qual. Cinema
11.278	V	CANAL+ SPORT HD	27500	High Qual. Cinema
11.278	V	ESP HD Bulgaria	27500	High Quality Home
11.278	V	ESP HD Czech	27500	High Quality Home
11.278	V	ESP HD Dutch	27500	High Qual. Cinema
11.278	V	ESP HD German	27500	High Qual. Cinema
11.278	V	ESP HD Hungarian	27500	High Quality Home
11.278	V	ESP HD Intl	27500	High Qual. Cinema
11.278	V	ESP HD Italy	27500	High Qual. Cinema
11.278	V	ESP HD Polish	27500	High Quality Home
11.278	V	ESP HD Portuguese	27500	High Quality Home
● 11.278	V	ESP HD Romania	27500	High Quality Home
11.278	V	ESP HD Russian	27500	High Quality Home
11.278	V	ESP HD Turk	27500	High Quality Home
11.278	V	EUROSPORT HD	27500	High Quality Home
11.278	V	EUROSPORT HD PL	27500	High Qual. Cinema
11.278	V	NATIONAL GEO HD	27500	High Qual. Cinema
● 11.296	H	JSC Sports +1	27500	News + Series
● 11.296	H	JSC Sports +2	27500	News + Series
● 11.296	H	JSC Sports +3	27500	News + Series
● 11.296	H	JSC Sports +4	27500	News + Series
● 11.296	H	JSC Sports +5	27500	Quality Entertain.
● 11.296	H	JSC Sports +6	27500	News + Series
● 11.296	H	JSC Sports +7	27500	News + Series
● 11.296	H	JSC Sports +8	27500	Quality Entertain.
11.355	V	Fox Life +1	27500	News + Series
11.355	V	GXT +1	27500	News + Series
11.355	V	Kiss Kiss	27500	Low Level
11.355	V	Live!	27500	News + Series
11.355	V	M2O	27500	Low Level
11.355	V	Music Box	27500	News + Series
● 11.355	V	Prima Fila 25	27500	News + Series
● 11.355	V	Prima Fila 32	27500	News + Series
● 11.355	V	Prima Fila 33	27500	News + Series
11.355	V	R 101	27500	Low Level
11.355	V	Radio 105	27500	Low Level
11.355	V	Radio 24	27500	Low Level
11.355	V	Radio Capital	27500	Low Level
11.355	V	Radio DeeJay	27500	Low Level
11.355	V	Radio Italia	27500	Low Level
11.355	V	Radio Montecarlo	27500	Low Level
11.355	V	Radio on SKY	27500	Low Level
11.355	V	RDS	27500	Low Level
11.355	V	RTL 102.5	27500	Low Level
11.355	V	SKY Assist	27500	News + Series
11.355	V	Virgin Radio	27500	Low Level
11.355	V	Voce	27500	News + Series
11.393	V	Test	27500	Quality Entertain.
11.393	V	TVN	27500	Home Cinema
11.393	V	TVN 24	27500	Quality Entertain.
11.393	V	TVN CNBC Biznes	27500	News + Series
11.393	V	TVN METEO	27500	News + Series
11.393	V	TVN Siedem	27500	Quality Entertain.
11.393	V	TVN Style	27500	Quality Entertain.
11.393	V	TVN TURBO	27500	Quality Entertain.
11.393	V	Mango 24	27500	News + Series
● 11.411	H	Alpha Punjabi New	27500	News + Series
11.411	H	Club Prive TV	27500	Low Level
11.411	H	Dorcel TV	27500	News + Series
● 11.411	H	FREE-X TV	27500	News + Series
● 11.411	H	FREE-X TV2	27500	News + Series
● 11.411	H	FRENCHLOVER TV	27500	News + Series
● 11.411	H	Redlight Premium	27500	News + Series
● 11.411	H	X-DREAM TV	27500	News + Series
● 11.411	H	Zee Cinema New	27500	News + Series
● 11.411	H	Zee TV New	27500	News + Series
● 11.411	H	Sevince TV	27500	Low Level
11.411	H	Al-Hayat	27500	News + Series
11.411	H	CALABRIA	27500	Low Level
11.411	H	ECTV	27500	Low Level
● 11.411	H	Finest TV	27500	News + Series
● 11.411	H	KISS	27500	Low Level
11.411	H	PTV	27500	Low Level
11.411	H	RTA	27500	Low Level
11.411	H	RTS SAT	27500	Quality Entertain.
11.411	H	SEX ON TV DIAMOND	27500	Low Level
11.411	H	TAPESH TV2	27500	News + Series
11.411	H	TIZIANA SAT	27500	News + Series
11.449	H	MGM HD	27500	High Qual. Cinema
11.449	H	pVOD	27500	High Quality Home
11.449	H	TVN HD	27500	High Qual. Cinema
11.449	H	Discovery HD	27500	High Qual. Cinema
11.449	H	Filmbox HD	27500	High Qual. Cinema
11.449	H	nSport	27500	High Qual. Cinema
● 11.508	V	Discovery Channel	27500	Quality Entertain.
11.508	V	Filmbox	27500	Quality Entertain.
11.508	V	Filmbox Extra	27500	Quality Entertain.
11.508	V	Filmbox Family	27500	News + Series
● 11.508	V	ID	27500	Quality Entertain.
11.508	V	n Sport	27500	Home Cinema
11.508	V	Religia.TV	27500	Quality Entertain.
11.508	V	TVP Sport	27500	Quality Entertain.
11.508	V	TVN Warszawa	27500	Quality Entertain.
11.526	H	TSI1	27500	Home Cinema
11.526	H	TSI2	27500	Home Cinema
11.526	H	TSR1	27500	Home Cinema
11.526	H	TSR2	27500	Home Cinema
● 11.747	H	Al-Arabiya	27500	News + Series
● 11.747	H	Dubai Sports	27500	Quality Entertain.
● 11.747	H	Dubai TV	27500	Quality Entertain.
● 11.747	H	EZ Shop	27500	Quality Entertain.
11.747	H	INTER TV SHOP	27500	News + Series
● 11.747	H	MBC MAGHREB AL AR	27500	News + Series
11.747	H	ME SHOP	27500	Quality Entertain.
11.747	H	PMC	27500	Quality Entertain.
● 11.747	H	Sama Dubai	27500	Quality Entertain.
● 11.747	H	Sharqiya	27500	Quality Entertain.
11.766	V	RAI1	27500	Home Cinema
11.766	V	RAI2	27500	Quality Entertain.
● 11.766	V	RaiSat Extra	27500	Quality Entertain.
● 11.766	V	RaiSat YoYo	27500	News + Series
● 11.766	V	Rai Scuola	27500	News + Series
11.766	V	RAI3	27500	Home Cinema
11.766	V	RaiMed	27500	News + Series
11.766	V	Senato	27500	News + Series
● 11.804	V	RaiSat Premium	27500	News + Series
11.804	V	Camera Deputati	27500	News + Series
11.804	V	Rai Gulp	27500	News + Series
11.804	V	Rai HD 1	27500	Advertisement
● 11.804	V	Rai Sport piu	27500	Home Cinema
11.804	V	Rai Storia	27500	News + Series
11.804	V	RaiNettunoSat1	27500	News + Series
11.804	V	RaiNotizie24	27500	News + Series
● 11.804	V	SAT 2000	27500	Quality Entertain.
11.919	V	Boing	27500	News + Series
11.919	V	Canale 5	27500	Home Cinema
11.919	V	Iris	27500	News + Series
● 11.919	V	CANALE 5	27500	News + Series
11.919	V	Italia 1	27500	Home Cinema
11.919	V	Retequattro	27500	Home Cinema
12.111	V	ACM Channel	27500	Low Level
12.111	V	AL JAZEERA	27500	Quality Entertain.
12.111	V	AlJazeera Documentar	27500	Quality Entertain.
12.111	V	AlJazeera Mubasher	27500	Quality Entertain.
● 12.111	V	BETHEL	27500	Low Level
12.111	V	Challenger Test	27500	Low Level
12.111	V	HIGH LIFE TV	27500	News + Series
12.111	V	Jighen	27500	Advertisement
12.111	V	MediterraneoSat	27500	News + Series
12.111	V	Puglia Channel	27500	News + Series
12.111	V	Radio Radio Tv	27500	News + Series
12.111	V	S.NEU JERUSALEM	27500	Low Level
12.111	V	Sicilia Channel	27500	News + Series
12.111	V	Silk Road TV	27500	Low Level
12.111	V	Telefoggia	27500	Low Level
12.111	V	Telemarket 2	27500	Quality Entertain.
● 12.616	H	Baby TV	27500	News + Series
12.616	H	Comedy Central	27500	News + Series
12.616	H	La7	27500	News + Series
12.616	H	Milan Channel	27500	News + Series
● 12.616	H	myDeejay	27500	Quality Entertain.
12.616	H	Nickelodeon	27500	Quality Entertain.
● 12.616	H	Nickelodeon +1	27500	News + Series
12.616	H	Sportitalia	27500	Quality Entertain.
● 12.616	H	Sportitalia2	27500	Quality Entertain.
12.616	H	Videoltalia	27500	Quality Entertain.
● 12.635	V	Cinema Max +1	27500	Quality Entertain.
12.635	V	Classica	27500	News + Series
12.635	V	DeAKids	27500	News + Series
12.635	V	Disney Ch. +1	27500	Home Cinema
12.635	V	Disney in English	27500	News + Series
12.635	V	Inter Channel	27500	Quality Entertain.
12.635	V	Juventus Channel	27500	News + Series
12.635	V	SKY Cinema +24	27500	Quality Entertain.
12.635	V	Toon Disney +1	27500	News + Series
12.654	H	AL IRAQIA TV	27500	News + Series
12.654	H	ALMUSTAKILLA	27500	News + Series
12.654	H	ESC	27500	News + Series
12.654	H	JORDAN	27500	Quality Entertain.
12.654	H	KUWAIT	27500	News + Series
12.654	H	LIBYA	27500	News + Series
12.654	H	LIVE TV	27500	News + Series
12.654	H	OMAN	27500	Quality Entertain.
12.654	H	QATAR TV	27500	Quality Entertain.
12.654	H	SAUDI 1	27500	News + Series
12.654	H	SHARJAH TV	27500	Quality Entertain.
● 12.654	H	SUDAN	27500	News + Series
● 12.673	V	SKY Sport 1 HD	27500	News + Series
12.673	V	Prima Fila 13	27500	News + Series
12.673	V	Prima Fila 14	27500	News + Series
12.673	V	Prima Fila 15	27500	News + Series
12.673	V	Prima Fila 18	27500	News + Series
12.673	V	Prima Fila 20	27500	News + Series
12.673	V	Prima Fila 23	27500	News + Series
● 12.673	V	Prima Fila 24	27500	News + Series
12.673	V	Prima Fila 26	27500	News + Series
● 12.673	V	Prima Fila 34	27500	News + Series
● 12.673	V	Prima Fila 36	27500	News + Series
12.692	H	AB3	27500	News + Series
12.692	H	AB4	27500	Low Level
12.692	H	CINE FIRST	27500	News + Series
12.692	H	CINE FX	27500	Low Level
12.692	H	CINE POLAR	27500	News + Series
12.692	H	France 2	27500	Low Level
12.692	H	France 3	27500	Low Level
12.692	H	France 4	27500	News + Series
12.692	H	Gulli	27500	News + Series
12.692	H	M6	27500	News + Series
12.692	H	NRJ12	27500	News + Series
12.692	H	O. sport info	27500	News + Series
12.692	H	TMC	27500	Quality Entertain.
12.692	H	Virgin 17	27500	Low Level
12.692	H	W9	27500	News + Series
12.692	H	LUXE TV	27500	Quality Entertain.
12.713	V	Eurosport	27500	Quality Entertain.
12.713	V	Eurosport 2	27500	Quality Entertain.
12.713	V	EurosportNews	27500	Quality Entertain.
12.713	V	Prima Fila 19	27500	News + Series
● 12.713	V	Prima Fila 37	27500	News + Series
● 12.713	V	Prima Fila 38	27500	News + Series
● 12.713	V	Prima Fila 39	27500	Low Level
● 12.713	V	Prima Fila 40	27500	Low Level
● 12.713	V	Prima Fila 41	27500	Low Level
12.713	V	PRIMAFILA HCZ	27500	News + Series
12.713	V	SKY Play IT	27500	News + Series
12.731	H	Animal Planet	27500	News + Series
12.731	H	Discovery Real Time	27500	News + Series
12.731	H	ESPN Classic	27500	Quality Entertain.
12.731	H	MTV	27500	News + Series
12.731	H	MTV Brand New	27500	News + Series
12.731	H	MTV Gold	27500	News + Series
12.731	H	MTV Hits	27500	News + Series
12.731	H	MTV Pulse	27500	News + Series
● 12.731	H	SKY Service	27500	Quality Entertain.
12.731	H	Vh1	27500	News + Series

Europe

EUTELSAT W2

16.0 East

EUT0W2KW



● 10.957	H	ALSAT RTV	2821	Quality Entertain.
● 10.972	V	Cinemax	27500	Low Level
● 10.972	V	FreeX TV	27500	News + Series
● 10.972	V	FreeX TV 2	27500	News + Series
● 10.972	V	Hallmark	27500	News + Series
● 10.972	V	Kanal D	27500	Quality Entertain.
● 10.972	V	Motors TV	27500	Quality Entertain.
● 10.972	V	MTV Adria	27500	Quality Entertain.
● 10.972	V	Sci Fi	27500	News + Series
● 10.972	V	Televizija S	27500	News + Series
● 10.972	V	TV1000	27500	News + Series
● 10.972	V	Viasat Explorer	27500	Advertisement
● 10.972	V	Viasat History	27500	Quality Entertain.
● 10.972	V	X-Dream TV	27500	Low Level
● 10.976	H	HD-1	22500	High Quality Home
● 10.976	H	HD-2	22500	High Quality Home
● 10.976	H	HD-3	22500	High Quality Home
● 10.976	H	HD-4	22500	High Quality Home
● 10.995	H	W2 B1 S6-01	4444	Home Cinema
● 11.025	H	ITA452 Telespazio	5000	Home Cinema
● 11.046	H	National TV	10555	Quality Entertain.
● 11.046	H	Favorit TV	10555	Quality Entertain.
● 11.046	H	National 24	10555	Quality Entertain.
11.055	V	Bang Bang	27900	Quality Entertain.
11.055	V	Cufo Tv	27900	News + Series
11.055	V	Digi Plus	27900	News + Series
11.055	V	EXP histori	27900	News + Series
11.055	V	EXP natyra	27900	Low Level
11.055	V	EXP shkence	27900	Low Level
11.055	V	Film Autor	27900	News + Series
11.055	V	Junior Tv	27900	News + Series
11.055	V	My-Music	27900	News + Series
11.055	V	Top Channel	27900	Low Level
11.055	V	Top News	27900	Low Level
11.055	V	Digitalb Promo	27900	News + Series
11.061	H	Nat Geo Music	5721	Quality Entertain.
11.061	H	Test Voxson	5721	Quality Entertain.
11.094	V	Film Aksion	27900	Low Level
11.094	V	Film Drame	27900	Advertisement
11.094	V	Film Hits	27900	News + Series
11.094	V	Film Komedi	27900	News + Series
11.094	V	Film Thriller	27900	Low Level
11.094	V	T	27900	News + Series
11.094	V	X1	27900	News + Series
11.094	V	X2	27900	News + Series
11.094	V	SERVICE 1	27900	Low Level
11.132	V	Antena 1	14815	Home Cinema
11.132	V	Antena 2	14815	Quality Entertain.
11.132	V	Antena 3	14815	Quality Entertain.
11.132	V	Antena International	14815	News + Series
11.132	V	Euforia Lifestyle	14815	News + Series
● 11.138	H	BBT	27700	Quality Entertain.
● 11.138	H	BNT 1	27700	News + Series
● 11.138	H	bTV	27700	News + Series
● 11.138	H	Evrokom NCTV	27700	News + Series
● 11.138	H	EvropaTV	27700	Quality Entertain.
● 11.138	H	FOX Crime	27700	News + Series
● 11.138	H	Fox Crime BG	27700	Low Level
● 11.138	H	Fox Life BG	27700	News + Series
● 11.138	H	FOX Life Regional	27700	Quality Entertain.
● 11.138	H	NBT	27700	Low Level
● 11.138	H	Nova	27700	News + Series
● 11.138	H	Balkanika	27700	News + Series
● 11.138	H	FANTV	27700	News + Series
● 11.138	H	RE:TV	27700	News + Series
● 11.148	V	FILM BOX Extra	8900	Quality Entertain.
11.166	H	GOD Europe	11850	High Quality Home
11.166	H	FOOTSCHOOL W2	11850	News + Series
11.166	H	Karaoke Channel	11850	News + Series
11.166	H	APOSTOLIC ONENESS	11850	News + Series
11.166	H	FTV Czech	11850	News + Series
11.166	H	GOD Europe	11850	News + Series
11.166	H	Telemedia 11	11850	News + Series
● 11.178	V	Pink	27500	Quality Entertain.
● 11.178	V	Pink Action	27500	News + Series
● 11.178	V	Pink BH	27500	Quality Entertain.
● 11.178	V	Pink Extra	27500	News + Series
● 11.178	V	Pink Family	27500	News + Series
● 11.178	V	Pink Film	27500	Quality Entertain.
● 11.178	V	Pink Kids	27500	News + Series

DishPointer AR

See where to point your dish, live on the iPhone screen!

The revolutionary DishPointer Augmented Reality app is now available on the app store. Just point your iPhone anywhere towards the sky and see all the satellites lined up on the live video screen.

See the Video

See DishPointer AR in action on YouTube!

This app uses the iPhones GPS, motion sensor and compass to calculate all the satellite positions and overlays them on the camera. At a glance you will see where to point the dish and any obstacles blocking the line of sight.

DishPointer is the world's No.1 satellite dish pointing site, offering custom built tools for mobile devices or websites to businesses. For more information, visit www.dishpointer.com.



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TV VLAANDEREN DIGITAAL

MAXDIGITAL

The World's Largest Satellite Magazine TELE SATELLITE & BROADBAND

INNOVATION TELE SATELLITE AWARD & BROADBAND 02.07.2009 DISHPOINTER Software Solution that, with the help of Google Maps and its real images as well as SatcoDX and its up-to-date channel data, provides highly accurate satellite reception information.

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● 11.178	V	Pink M	27500	Quality Entertain.
● 11.178	V	Pink Movies	27500	News + Series
● 11.178	V	Pink Music	27500	Quality Entertain.
● 11.178	V	Pink Plus	27500	Quality Entertain.
11.178	H	CBS-NY STBY	5632	Home Cinema
● 11.178	V	Fashion TV	27500	News + Series
● 11.283	H	CLUB TV	27500	News + Series
● 11.283	H	Disney Channel	27500	News + Series
● 11.283	H	E!	27500	News + Series
● 11.283	H	Folk +	27500	News + Series
● 11.283	H	KTV	27500	News + Series
● 11.283	H	NTV	27500	Low Level
● 11.283	H	RTV21	27500	News + Series
● 11.283	H	SCAN TV	27500	News + Series
● 11.283	H	Tring Comedy	27500	Low Level
● 11.283	H	Tring Life	27500	News + Series
● 11.283	H	Tring Max	27500	News + Series
● 11.283	H	Tring Planet	27500	Low Level
● 11.283	H	tring serial	27500	News + Series
● 11.283	H	tring SHQIP	27500	News + Series
● 11.283	H	Tring Sport News	27500	News + Series
● 11.283	H	tring super	27500	News + Series
● 11.283	H	Tring Tring	27500	News + Series
● 11.283	H	tring world	27500	News + Series
● 11.283	H	VH1	27500	News + Series
● 11.283	H	X-Rated	27500	News + Series
● 11.283	H	Vizion Plus	27500	News + Series
11.304	V	Animal Planet	30000	Low Level
11.304	V	AXN	30000	Low Level
● 11.304	V	bTV Comedy	30000	News + Series
11.304	V	BTV1	30000	Quality Entertain.
11.304	V	BTV2	30000	Quality Entertain.
11.304	V	Discovery	30000	Low Level
11.304	V	NW	30000	Quality Entertain.
11.304	V	Planeta	30000	News + Series
11.304	V	Premium Digital	30000	Low Level
11.304	V	RBS	30000	Quality Entertain.
11.304	V	EBF	30000	News + Series
11.304	V	Folklor TV	30000	Quality Entertain.
11.304	V	SC Folk	30000	News + Series
● 11.324	H	ADRIA	27500	News + Series
● 11.324	H	ANIMAX	27500	News + Series
● 11.324	H	ANIMAX-AFRICA	27500	News + Series
● 11.324	H	ANIMAX-eng	27500	News + Series
● 11.324	H	ANIMAX-ger	27500	News + Series
● 11.324	H	AXN-CE	27500	News + Series
● 11.324	H	AXN-CE-bul	27500	News + Series
● 11.324	H	AXN-CE-BULGARIA	27500	News + Series
● 11.324	H	AXN-CE-BULGARIA-b	27500	News + Series
● 11.324	H	AXN-CE-BULGARIA-e	27500	News + Series
● 11.324	H	AXN-CE-cze	27500	News + Series
● 11.324	H	AXN-CE-eng	27500	News + Series
● 11.324	H	AXN-CE-hun	27500	News + Series
● 11.324	H	AXN-Crime	27500	News + Series
● 11.324	H	AXN-Crime-bul	27500	News + Series
● 11.324	H	AXN-Crime-cze	27500	News + Series
● 11.324	H	AXN-Crime-hun	27500	News + Series
● 11.324	H	AXN-Crime-pol	27500	News + Series
● 11.324	H	AXN-Crime-Poland	27500	News + Series
● 11.324	H	AXN-Crime-Poland-eng	27500	News + Series
● 11.324	H	AXN-Crime-Poland-pol	27500	News + Series
● 11.324	H	AXN-Crime-rum	27500	News + Series
● 11.324	H	AXN-Germany	27500	News + Series
● 11.324	H	AXN-POL	27500	News + Series
● 11.324	H	AXN-POL-eng	27500	News + Series
● 11.324	H	AXN-POL-pol	27500	News + Series
● 11.324	H	AXN-ROM	27500	News + Series
● 11.324	H	AXN-ROM-cze	27500	News + Series
● 11.324	H	AXN-ROM-eng	27500	News + Series
● 11.324	H	AXN-ROM-hun	27500	News + Series
● 11.324	H	AXN-ROM-rum	27500	News + Series
● 11.324	H	AXN-SciFi	27500	News + Series
● 11.324	H	AXN-SciFi-Bul	27500	News + Series
● 11.324	H	AXN-SciFi-cze	27500	News + Series
● 11.324	H	AXN-SciFi-hun	27500	News + Series
● 11.324	H	AXN-SciFi-Poland	27500	News + Series
● 11.324	H	AXN-SciFi-Poland-e	27500	News + Series
● 11.324	H	AXN-SciFi-Poland-p	27500	News + Series
● 11.324	H	AXN-SciFi-rum	27500	News + Series
● 11.324	H	AXN-SciFi-rum-hum	27500	News + Series
● 11.324	H	SET AFRICA	27500	Quality Entertain.
● 11.428	V	ATV	30000	News + Series
● 11.428	V	Avala	30000	Quality Entertain.
● 11.428	V	Dis. Travel&Living	30000	News + Series
● 11.428	V	FOX	30000	Quality Entertain.
● 11.428	V	FTV	30000	Quality Entertain.
● 11.428	V	Golf Klub	30000	News + Series
● 11.428	V	HBO Comedy	30000	Low Level
● 11.428	V	Metropolis	30000	News + Series
● 11.428	V	OBN	30000	Quality Entertain.
● 11.428	V	Palma Plus	30000	News + Series
● 11.428	V	RTRS	30000	News + Series
● 11.428	V	Sport Klub+	30000	Quality Entertain.
● 11.428	V	Top Shop TV	30000	News + Series
● 11.428	V	Spectrum	30000	News + Series
11.449	H	Digi Gold	27500	News + Series
11.449	H	Klan Tv	27500	Low Level
11.449	H	Koha Tv	27500	News + Series
11.449	H	KTV	27500	News + Series
11.449	H	musicAL	27500	News + Series
11.449	H	News 24	27500	News + Series
11.449	H	Ora News	27500	News + Series
11.449	H	RTV 21	27500	Quality Entertain.
11.449	H	SuperSport 1	27500	News + Series
11.449	H	SuperSport 2	27500	News + Series
11.449	H	SuperSport 3	27500	News + Series
11.449	H	SuperSport 4	27500	Quality Entertain.
11.449	H	SuperSport 5	27500	News + Series
11.449	H	TeleNorba	27500	Advertisement
11.449	H	TVSH Tokesor	27500	News + Series
● 11.471	V	TVR HD	29950	High Quality Home
● 11.471	V	TVR1	29950	Quality Entertain.
● 11.471	V	TVR2	29950	Quality Entertain.
● 11.471	V	TVR Cluj	29950	Quality Entertain.
● 11.471	V	TVR Craiova	29950	Quality Entertain.
● 11.471	V	TVR Cultural	29950	Quality Entertain.
● 11.471	V	TVR Iasi	29950	Quality Entertain.
● 11.471	V	TVR Info	29950	News + Series
● 11.471	V	TVR Timisoara	29950	Quality Entertain.
● 11.471	V	TVR3	29950	Quality Entertain.
● 11.471	V	TVRi	29950	Quality Entertain.
● 11.554	V	B92	30000	Quality Entertain.
● 11.554	V	Cinemania	30000	News + Series
● 11.554	V	Disney XD	30000	News + Series
● 11.554	V	DoQ	30000	Low Level
● 11.554	V	Enter	30000	News + Series
● 11.554	V	Film +	30000	News + Series
● 11.554	V	Happy/Kosava	30000	News + Series
● 11.554	V	HBO Adria	30000	News + Series
● 11.554	V	RTS1	30000	Home Cinema
● 11.554	V	RTS2	30000	Quality Entertain.
● 11.554	V	SOS	30000	News + Series
● 11.554	V	Sport Klub	30000	Quality Entertain.
● 11.554	V	Studio B	30000	Quality Entertain.
● 11.554	V	Ultra TV	30000	News + Series
● 11.682	V	Region 2B Ch5	14468	Quality Entertain.
● 11.682	V	Region 3B Ch5	14468	Quality Entertain.
● 11.682	V	Region 4B Ch5	14468	Quality Entertain.
● 11.682	V	Region 5B Ch5	14468	Quality Entertain.
● 12.513	V	MELOS TV	2156	Advertisement
● 12.520	V	Top Music	2156	News + Series
● 12.538	V	BN R SRPSKA	4340	Quality Entertain.
12.568	H	SIC INTERNACIONAL	3703	Home Cinema
12.600	V	ATLAS	6771	Quality Entertain.
12.600	V	RTV MONTENEGRO	6771	News + Series
● 12.633	V	RTK-SAT	4883	Quality Entertain.
12.648	V	BH-TV1	5200	Quality Entertain.
12.650	H	44-SNAI TV promo	15000	Quality Entertain.
12.650	H	77- AUDIO UNICO	15000	Quality Entertain.
12.650	H	CH 10 - UNIRE BLU	15000	Quality Entertain.
12.650	H	CH 20 - U VERDE S	15000	Quality Entertain.
12.650	H	CH 4 - SNAI TV	15000	Quality Entertain.
12.650	H	CH 6 - U GRIGIO S	15000	Quality Entertain.
12.650	H	CH 7 - SPORTIVE S	15000	Quality Entertain.
12.650	H	UNIRE 1 - GRIGIO	15000	Quality Entertain.
12.650	H	UNIRE 2 - VERDE	15000	Quality Entertain.
12.650	H	CH 3 - CANALE TES	15000	Advertisement
● 12.656	V	Tvsh	4883	Quality Entertain.
● 12.678	V	ITA 340 B	6111	Home Cinema
12.683	H	TV7	2894	Quality Entertain.
● 12.695	V	DETVSBLN1	5632	Home Cinema
● 12.699	H	Auto 4 Mbit/s	2816	Quality Entertain.
● 12.703	H	TVM-I	2748	Quality Entertain.
● 12.719	H	Test TV	9000	High Quality Home
● 12.719	H	TEST-TV	9000	High Quality Home
12.719	H	BRAVO TV	9000	Quality Entertain.
12.719	H	CTC MOLDOVA	9000	Quality Entertain.
12.719	H	MM	9000	Quality Entertain.
● 12.726	V	AB Kanal	30000	News + Series
● 12.726	V	Alfa TV	30000	News + Series
● 12.726	V	MMTV	30000	News + Series
● 12.726	V	Sitel 3	30000	News + Series
12.726	V	Art Channel	30000	News + Series
12.726	V	Astro TV	30000	News + Series
12.726	V	Best of Macedonia	30000	News + Series
● 12.726	V	Canal Motor	30000	Low Level
12.726	V	Duga TV	30000	News + Series
● 12.726	V	Ekids	30000	News + Series
12.726	V	GRAND STAR TV	30000	Advertisement
● 12.726	V	K15 Music	30000	News + Series
● 12.726	V	K15 TV	30000	Low Level
12.726	V	MKTV Sat	30000	News + Series
● 12.726	V	Sitel	30000	News + Series
12.726	V	Svet Plus	30000	News + Series
● 12.726	V	TV Guide	30000	News + Series
12.726	V	TV1	30000	Quality Entertain.
12.726	V	YU Planet Bec	30000	Advertisement
● 12.727	H	PROVSE.NET.UA	3333	Quality Entertain.

East Africa

EUTELSAT W2

16.1 East

EUT0W2RE



11.486	H	.Antenne Reunion	29950	Low Level
11.486	H	BFM TV	29950	News + Series
11.486	H	CC Classic	29950	Low Level
11.486	H	CC Club	29950	News + Series
11.486	H	CC Emotions	29950	Low Level
11.486	H	CC Famiz	29950	Low Level
11.486	H	CC Frissons	29950	News + Series
11.486	H	CC Premier	29950	Low Level
11.486	H	CC Star	29950	Low Level
11.486	H	Discovery	29950	Low Level
11.486	H	Disney XD	29950	News + Series
11.486	H	M6	29950	News + Series
11.486	H	MANGAS	29950	Low Level
● 11.486	H	NOOT TV	29950	Low Level
11.486	H	REAL TIME	29950	News + Series
11.486	H	RTL9	29950	Low Level
11.486	H	Serie Club	29950	Low Level
11.486	H	Supersport 3	29950	News + Series
11.486	H	TeleReunion	29950	Low Level
11.486	H	Tempo	29950	Low Level
11.486	H	Teva	29950	News + Series
11.486	H	TF6	29950	Low Level
● 11.490	H	.Antenne Reunion	29950	Low Level
● 11.490	H	BFM TV	29950	News + Series
● 11.490	H	CC Classic	29950	Low Level
● 11.490	H	CC Club	29950	Low Level
● 11.490	H	CC Emotions	29950	Low Level
● 11.490	H	CC Famiz	29950	Low Level
● 11.490	H	CC Frissons	29950	News + Series

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

Cost Conscious Entertainment ..... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.490	H	CC Premier	29950	Low Level
11.490	H	CC Star	29950	Low Level
11.490	H	Discovery	29950	Low Level
11.490	H	Disney XD	29950	News + Series
11.490	H	M6	29950	News + Series
11.490	H	MANGAS	29950	Low Level
11.490	H	NOOT TV	29950	News + Series
11.490	H	REAL TIME	29950	Low Level
11.490	H	RTL9	29950	News + Series
11.490	H	Serie Club	29950	Low Level
11.490	H	Supersport 3	29950	News + Series
11.490	H	TeleReunion	29950	News + Series
11.490	H	Tempo	29950	News + Series
11.490	H	Teva	29950	News + Series
11.490	H	TF6	29950	Low Level
11.534	H	+ DE SPORT 2	30000	News + Series
11.534	H	13EME RUE	30000	News + Series
11.534	H	CANAL J	30000	News + Series
11.534	H	DISNEY CHANNEL	30000	Quality Entertain.
11.534	H	EPL	30000	Advertisement
11.534	H	EUROSPORT	30000	Low Level
11.534	H	i TELE	30000	News + Series
11.534	H	L'EQUIPE TV	30000	News + Series
11.534	H	LCI	30000	Quality Entertain.
11.534	H	MCM	30000	Low Level
11.534	H	PARIS PREMIERE	30000	Low Level
11.534	H	PLANETE	30000	News + Series
11.534	H	TCM	30000	Low Level
11.534	H	TEMPO/FRANCE Ô	30000	News + Series
11.534	H	TMC	30000	News + Series
11.534	H	TRACE	30000	News + Series
11.534	H	TV5	30000	Low Level
11.534	H	VOYAGE	30000	News + Series
11.534	H	W9	30000	Quality Entertain.
11.575	H	+ DE SPORT 1	30000	Low Level
11.575	H	ANTENNE REUNION	30000	Low Level
11.575	H	BBC WORLD	30000	Low Level
11.575	H	CANAL EVENEMENT	30000	Advertisement
11.575	H	CUISINE.TV	30000	News + Series
11.575	H	DISNEY CINEMAGIC	30000	Low Level
11.575	H	EURONEWS	30000	Low Level
11.575	H	GAME ONE	30000	Quality Entertain.
11.575	H	KANAL AUSTRAL	30000	Low Level
11.575	H	LCP	30000	News + Series
11.575	H	MCM POP	30000	Quality Entertain.
11.575	H	MOTORS TV	30000	News + Series
11.575	H	MTV	30000	News + Series
11.575	H	PLAYHOUSE DISNEY	30000	Low Level
11.575	H	SPORT+	30000	News + Series
11.575	H	TELE MAISON	30000	Low Level
11.575	H	TEST	30000	News + Series
11.575	H	TEVA	30000	News + Series
11.575	H	XXL	30000	News + Series
11.596	H	AB moteurs	30000	News + Series
11.596	H	CNN I	30000	Low Level
11.596	H	Comedie	30000	Low Level
11.596	H	DORCEL TV.	30000	Low Level
11.596	H	Equidia	30000	Low Level
11.596	H	Eurosport	30000	News + Series
11.596	H	Eurosport 2	30000	Low Level
11.596	H	Infosport	30000	Low Level
11.596	H	LCI	30000	Low Level
11.596	H	M6 Music Black	30000	News + Series
11.596	H	M6 Music Hits	30000	News + Series
11.596	H	Odyssee	30000	Low Level
11.596	H	Planete Justice	30000	Low Level
11.596	H	Sport Evenement	30000	Low Level
11.596	H	Star Plus	30000	News + Series
11.596	H	Supersport 7	30000	News + Series
11.596	H	TF1	30000	News + Series
11.596	H	TPS FOOT	30000	Low Level
11.596	H	TPS Star	30000	News + Series
11.596	H	TV Breizh	30000	Low Level
11.596	H	W9	30000	News + Series
11.658	H	CANAL+	30000	News + Series
11.658	H	CANAL+ CINEMA	30000	News + Series
11.658	H	CANAL+ FAMILY	30000	Low Level
11.658	H	CANAL+ SPORT	30000	News + Series
11.658	H	Cartoon Network	30000	News + Series
11.658	H	CINEMA EMOTION	30000	News + Series
11.658	H	CINEMA FAMIZ	30000	Low Level
11.658	H	CINEMA FRISSON	30000	News + Series
11.658	H	CINEMA PREMIER	30000	Low Level
11.658	H	DISNEY XD	30000	Low Level
11.658	H	EQUIDIA	30000	News + Series
11.658	H	M6	30000	News + Series
11.658	H	RTL9	30000	Low Level
11.658	H	TELE REUNION	30000	News + Series
11.658	H	TF1	30000	News + Series
11.658	H	TF6	30000	News + Series
11.658	H	ZEE MUZIC	30000	Quality Entertain.

EUROBIRD 16A

16.2 East

EUB016KW



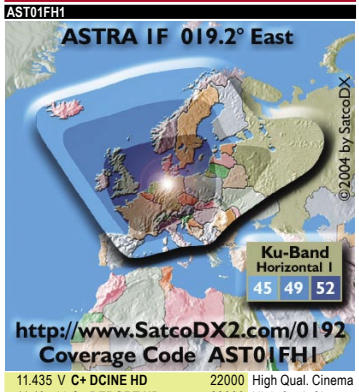
Freq	Pol	Channel Name	Symbol Rate	Programming Type
10.719	V	A1	27500	High Quality Home
10.719	V	BBF	27500	High Quality Home
10.719	V	Cartoon Network	27500	High Quality Home
10.719	V	Fox Crime	27500	High Quality Home
10.719	V	Fox Life	27500	High Quality Home
10.719	V	HD-5	27500	High Quality Home
10.719	V	MGM	27500	High Quality Home
10.719	V	Nat Geo	27500	High Quality Home
10.719	V	Nat Geo Wild	27500	High Quality Home
10.719	V	SuperSonic Tv	27500	High Quality Home
10.719	V	Tirana Tv	27500	High Quality Home
10.719	V	Travel	27500	High Quality Home
10.719	V	X3	27500	High Quality Home
10.719	V	X4	27500	High Quality Home
10.719	V	HD-6	27500	High Quality Home
10.892	H	BBC Prime	27500	News + Series
10.892	H	Kanal A	27500	Quality Entertain.
10.892	H	POP TV	27500	Quality Entertain.
10.892	H	SLO 1	27500	Quality Entertain.
10.892	H	SLO 2	27500	Quality Entertain.
10.892	H	Sport Klub SLO	27500	Quality Entertain.
10.892	H	TV 3	27500	News + Series
10.892	H	TV Pika	27500	News + Series
10.892	H	Carli TV	27500	News + Series
10.892	H	Golica TV	27500	News + Series
10.892	H	Info TV	27500	News + Series
10.930	H	Disney	27500	Quality Entertain.
10.930	H	ESPN America	27500	Quality Entertain.
10.930	H	Eurosport 2	27500	Quality Entertain.
10.930	H	MGM	27500	Quality Entertain.
10.930	H	Pink Folk	27500	Quality Entertain.
10.930	H	Test	27500	Quality Entertain.

Europe

ASTRA 1H,1KR,1L,1M

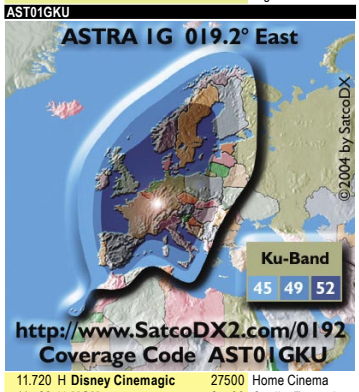
19.2 East

AST01FH1



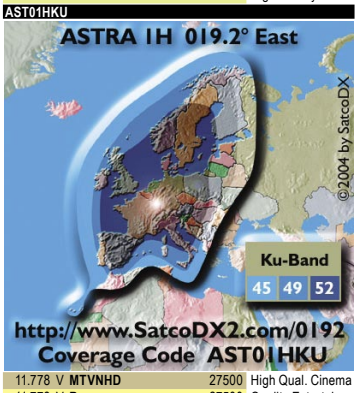
Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.435	V	C+ DCINE HD	22000	High Qual. Cinema
11.435	V	C+ DEPORT HD	22000	High Qual. Cinema
11.435	V	CANAL+ HD	22000	High Qual. Cinema

AST01GKU



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.720	H	Disney Cinemagic	27500	Home Cinema
11.720	H	MGM	27500	Quality Entertain.
11.720	H	Sky Bundesliga 2	27500	Quality Entertain.
11.720	H	Sky Bundesliga 3	27500	Advertisement
11.720	H	Sky Bundesliga 4	27500	Advertisement
11.720	H	Sky Bundesliga 5	27500	Advertisement
11.720	H	Sky Cinema Hits	27500	Home Cinema
11.720	H	Sky Nostalgie	27500	Quality Entertain.
11.720	H	Sky Select 3	27500	Quality Entertain.
11.720	H	Sky Select 4	27500	Quality Entertain.
11.720	H	Sky Select 5	27500	Quality Entertain.
11.720	H	Sky Select 6	27500	Quality Entertain.
11.720	H	Sky Sport Info	27500	Quality Entertain.
11.739	V	GAME ONE	27500	News + Series
11.739	V	MTV	27500	News + Series
11.739	V	MTV BASE	27500	News + Series
11.739	V	MTV Dance	27500	News + Series
11.739	V	MTV ESP	27500	Low Level
11.739	V	MTV Hits	27500	News + Series
11.739	V	MTV Hits.	27500	News + Series
11.739	V	MTV TWO	27500	Quality Entertain.
11.739	V	MTV TWO.	27500	Quality Entertain.
11.739	V	Nick	27500	News + Series
11.739	V	NICKELODEON Franc	27500	News + Series
11.739	V	VH1	27500	News + Series
11.739	V	VH1 Classic	27500	News + Series
11.739	V	VH1 Classic.	27500	News + Series
11.739	V	VH1.	27500	News + Series
11.758	V	GAME ONE	27500	News + Series
11.758	V	MTV	27500	News + Series
11.758	V	MTV BASE	27500	News + Series
11.758	V	MTV Dance	27500	News + Series
11.758	V	MTV ESP	27500	Quality Entertain.
11.758	V	MTV Hits	27500	News + Series
11.758	V	MTV Hits.	27500	News + Series
11.758	V	MTV TWO	27500	Quality Entertain.
11.758	V	MTV TWO.	27500	News + Series
11.758	V	Nick	27500	News + Series
11.758	V	NICKELODEON Franc	27500	News + Series
11.758	V	VH1	27500	News + Series
11.758	V	VH1 Classic	27500	News + Series
11.758	V	VH1 Classic.	27500	News + Series
11.758	V	VH1.	27500	News + Series
11.759	H	Beate-Uhse.TV	27500	Low Level
11.759	H	Classica	27500	Low Level
11.759	H	Disney Channel	27500	Quality Entertain.
11.759	H	Disney XD	27500	News + Series
11.759	H	Goldstar TV	27500	News + Series
11.759	H	Heimatkanal	27500	News + Series
11.759	H	Junior	27500	News + Series
11.759	H	Playhouse Disney	27500	News + Series
11.759	H	SciFi	27500	News + Series
11.759	H	Sky Bundesliga 6	27500	Advertisement
11.759	H	Sky Bundesliga 7	27500	Advertisement
11.759	H	Sky Select 7	27500	Quality Entertain.
11.759	H	Sky Select 8	27500	Quality Entertain.
11.759	H	Sky Select 9	27500	Quality Entertain.
11.797	H	Sky Action	27500	Quality Entertain.
11.797	H	Sky Bundesliga 1	27500	Quality Entertain.
11.797	H	Sky Cinema	27500	Quality Entertain.
11.797	H	Sky Cinema +1	27500	Quality Entertain.
11.797	H	Sky Cinema +24	27500	Quality Entertain.
11.797	H	Sky Comedy	27500	Quality Entertain.
11.797	H	Sky Emotion	27500	Quality Entertain.
11.797	H	Sky Select 1	27500	Quality Entertain.
11.797	H	Sky Select 2	27500	Quality Entertain.
11.797	H	Sky Select Event A	27500	Quality Entertain.
11.797	H	Sky Select Event B	27500	Home Cinema
11.817	V	C CINEMA EMOTION	27500	Quality Entertain.
11.817	V	C CINEMA FRISSON	27500	News + Series
11.817	V	HISTOIRE	27500	News + Series
11.817	V	ITELE	27500	News + Series
11.817	V	JIMMY	27500	Quality Entertain.
11.817	V	LA CHAINE METEO	27500	News + Series
11.817	V	MEZZO	27500	News + Series
11.817	V	MEZZO.	27500	Quality Entertain.
11.817	V	NRJ 12	27500	Quality Entertain.
11.817	V	PARIS PREMIERE	27500	News + Series
11.817	V	SEASONS	27500	Quality Entertain.
11.817	V	SPORT+	27500	News + Series
11.876	H	AXN Action	27500	News + Series
11.876	H	Boomerang	27500	News + Series
11.876	H	Cinema HD	27500	News + Series
11.876	H	Discovery HD	27500	News + Series
11.876	H	Disney Cinemagic HD	27500	News + Series
11.876	H	e.clips	27500	News + Series
11.876	H	Eurosport HD	27500	News + Series
11.876	H	History	27500	Quality Entertain.
11.876	H	History HD	27500	News + Series
11.876	H	Kinowelt TV	27500	News + Series
11.876	H	NatGeo HD	27500	News + Series
11.876	H	Romance TV	27500	News + Series
11.876	H	Sport HD	27500	News + Series
11.876	H	sportdigital.tv	27500	Quality Entertain.
11.876	H	TNT Film (TCM)	27500	News + Series
11.895	V	CINECINEMA CLUB	27500	News + Series
11.895	V	M6	27500	News + Series
11.895	V	MCM	27500	Quality Entertain.
11.895	V	MCM POP	27500	Quality Entertain.
11.895	V	MCM TOP	27500	News + Series
11.895	V	TELEMAISON	27500	Quality Entertain.
11.895	V	TF1	27500	News + Series
11.895	V	VIRGIN 17	27500	News + Series
11.895	V	W9	27500	News + Series
11.934	V	CANAL J	27500	News + Series
11.934	V	CUISINE TV	27500	News + Series
11.934	V	EUROSPORT	27500	Quality Entertain.
11.934	V	JUNE	27500	News + Series
11.934	V	LCI	27500	News + Series
11.934	V	PLANETE	27500	News + Series
11.934	V	SCI FI	27500	News + Series
11.934	V	TIJI	27500	News + Series
11.934	V	TMC	27500	News + Series
11.934	V	VOYAGE	27500	Quality Entertain.
11.934	V	ARTE	27500	News + Series
11.934	V	LCP	27500	News + Series
11.973	V	MTV ENTERTAINMENT	27500	Low Level
11.973	V	MTV Euro	27500	News + Series
11.973	V	MTV IDOL	27500	Quality Entertain.
11.973	V	MTV Music	27500	Quality Entertain.
11.973	V	MTV NL	27500	News + Series
11.973	V	MTV PULSE	27500	News + Series
11.973	V	NICK PREMIUM (S)	27500	News + Series
11.973	V	COMEDY CENTRAL Ge	27500	News + Series
11.973	V	MTV Germany	27500	News + Series
11.973	V	NICK/COMEDY	27500	News + Series
11.973	V	VIVA Germany	27500	Quality Entertain.
11.993	H	Cool	27500	Quality Entertain.
11.993	H	deko	27500	Quality Entertain.
11.993	H	Duna TV	27500	Quality Entertain.
11.993	H	Echo TV	27500	News + Series
11.993	H	Film+	27500	Low Level
11.993	H	HBO	27500	Quality Entertain.
11.993	H	HBO2	27500	News + Series
11.993	H	m2	27500	Low Level
11.993	H	Magyar ATV	27500	Quality Entertain.
11.993	H	Minimax / Animax	27500	Low Level
11.993	H	Sport 1	27500	Low Level
11.993	H	Sport 2	27500	Quality Entertain.
11.993	H	TV Paprika	27500	Quality Entertain.
12.012	V	FRANCE 2	27500	News + Series
12.012	V	FRANCE 3	27500	Quality Entertain.
12.012	V	FRANCE 4	27500	News + Series
12.012	V	FRANCE 5	27500	News + Series
12.012	V	FRANCE Ô	27500	News + Series
12.012	V	GULLI	27500	News + Series
12.012	V	A LA CARTE 10	27500	News + Series
12.012	V	A LA CARTE 11	27500	Quality Entertain.
12.012	V	CINE+	27500	News + Series
12.031	H	Blue Movie	27500	News + Series
12.031	H	Discovery Channel	27500	Quality Entertain.
12.031	H	Focus Gesundheit	27500	News + Series
12.031	H	NatGeo Wild	27500	Quality Entertain.
12.031	H	National Geographic	27500	Quality Entertain.
12.031	H	Sky Bundesliga	27500	Quality Entertain.
12.031	H	Sky Sport 1	27500	Home Cinema
12.031	H	Sky Sport 2	27500	News + Series
12.031	H	Spiegel Geschichte	27500	News + Series
12.031	H	Sky Select	27500	Quality Entertain.
12.305	H	Animal Planet	27500	News + Series
12.305	H	Discovery Channel	27500	News + Series
12.305	H	Disney Channel	27500	News + Series
12.305	H	Extreme Sports	27500	News + Series
12.305	H	Hallmark	27500	News + Series
12.305	H	HBO Comedy	27500	News + Series
12.305	H	Hustler TV	27500	News + Series
12.305	H	JimJam	27500	News + Series
12.305	H	National Geographic	27500	News + Series
12.305	H	NOVA SPORT	27500	News + Series
12.305	H	Zone Reality	27500	News + Series
12.383	H	CT1	27500	News + Series
12.383	H	CT2	27500	News + Series
12.383	H	CT4 Sport	27500	Quality Entertain.
12.383	H	Eurosport 2	27500	News + Series
12.383	H	Eurosport 2 HUN	27500	News + Series
12.383	H	Filmmuzeum	27500	Low Level
12.383	H	NOVA Cinema	27500	News + Series
12.383	H	Prima TV	27500	News + Series
12.383	H	TV Barrandov	27500	News + Series
12.383	H	TV JOJ	27500	Low Level
12.383	H	TV Markiza	27500	News + Series
12.383	H	TV Nova	27500	Low Level
12.383	H	XXX Xtreme	27500	News + Series
12.383	H	CT24	27500	News + Series
12.515	H	Film1.1	22000	News + Series
12.515	H	Film1.2	22000	News + Series
12.515	H	NED1	22000	Quality Entertain.
12.515	H	NED2	22000	News + Series
12.515	H	NED3	22000	Quality Entertain.
12.515	H	NGC	22000	News + Series
12.515	H	Nickelodeon/Comedy C	22000	News + Series
12.515	H	Sport1	22000	Quality Entertain.
12.552	V	France 4	22000	Quality Entertain.
12.552	V	Gulli	22000	News + Series
12.552	V	Virgin 17	22000	News + Series
12.552	V	Astra Vision	22000	News + Series
12.552	V	Bibel TV	22000	Quality Entertain.
12.552	V	Chamber TV	22000	News + Series
12.552	V	eUrotic NEU	22000	News + Series
12.552	V	LibertyTV FR	22000	News + Series
12.552	V	LUXE.TV SD	22000	Quality Entertain.
12.552	V	QVC Deutschland	22000	Home Cinema
12.552	V	RTL Tele Letzebuerg	22000	News + Series
12.574	H	Eredivisielive 1	22000	News + Series
12.574	H	MGM	22000	News + Series
12.574	H	NET5	22000	News + Series
12.574	H	SBS6	22000	News + Series
12.574	H	Schlager TV	22000	News + Series
12.574	H	TMF	22000	News + Series
12.574	H	Veronica/JETIX	22000	News + Series
12.574	H	BVN	22000	News + Series
12.574	H	Film1.3	22000	Advertisement
12.604	H	Sky News Intl	22000	Quality Entertain.
12.604	H	WDR Aachen	22000	Home Cinema
12.604	H	WDR Bonn	22000	Home Cinema
12.604	H	WDR Duisburg	22000	Home Cinema
12.604	H	WDR Wuppertal	22000	Home Cinema
12.669	V	BRAVA HD	22000	High Qual. Cinema
12.669	V	PENTHOUSE HD	22000	High Qual. Cinema
12.669	V	SCI FI HD	22000	High Qual. Cinema
12.669	V	EUROSPORT HD	22000	High Qual. Cinema
12.669	V	SCI FI HD	22000	High Qual. Cinema
12.669	V	USHUAIA TV HD	22000	High Quality Home

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Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.778	V	MTVNHD	27500	High Qual. Cinema
11.778	V	Boomerang	27500	Quality Entertain.
11.778	V	Cartoon Network	27500	Quality Entertain.
11.778	V	TCM	27500	Quality Entertain.
11.778	V	TVBS	27500	Quality Entertain.
11.778	V	CNN Int.	27500	News + Series
11.836	H	Bayerisches FS Nord	27500	Quality Entertain.
11.836	H	Bayerisches FS Süd	27500	Quality Entertain.
11.836	H	BR-alpha*	27500	Quality Entertain.
11.836	H	Das Erste	27500	Home Cinema
11.836	H	hr-fernsehen	27500	Home Cinema
11.836	H	SWR Fernsehen BW	27500	Quality Entertain.
11.836	H	WDR Köln	27500	Home Cinema
11.915	H	Sky Cinema HD	27500	High Qual. Cinema
11.915	H	Discovery HD	27500	High Qual. Cinema
11.915	H	Eurosport HD	27500	High Qual. Cinema
11.915	H	Sky Sport HD	27500	High Qual. Cinema
11.954	H	3sat	27500	Quality Entertain.
11.954	H	KiKa	27500	Quality Entertain.
11.954	H	ZDF	27500	Quality Entertain.
11.954	H	ZDFdokukanal	27500	Quality Entertain.
11.954	H	ZDFinfokanal	27500	Home Cinema
11.954	H	ZDFtheaterkanal	27500	Quality Entertain.
12.051	V	PULS 4 Austria	27500	News + Series
12.051	V	Kabel 1 Austria	27500	Quality Entertain.
12.051	V	Kabel 1 Schweiz	27500	News + Series

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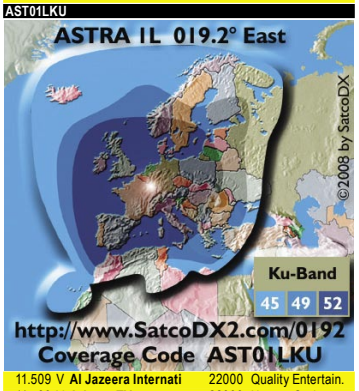
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Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
12.051	V	ProSieben Austria	27500	Quality Entertain.
12.051	V	ProSieben Schweiz	27500	Quality Entertain.
12.051	V	SAT.1 A	27500	Quality Entertain.
12.051	V	SAT.1 CH	27500	Home Cinema
● 12.051	V	SAT.1 HH/SH	27500	Quality Entertain.
● 12.051	V	SAT.1 NS/Bremen	27500	Quality Entertain.
● 12.051	V	SAT.1 RhlPf/Hessen	27500	Quality Entertain.
12.070	H	13th Street	27500	Quality Entertain.
12.070	H	Blue Movie 1	27500	Quality Entertain.
12.070	H	Blue Movie 2	27500	News + Series
12.070	H	Blue Movie 3	27500	Low Level
12.070	H	Fox Serie	27500	Quality Entertain.
● 12.070	H	Motorvision TV	27500	Quality Entertain.
12.070	H	RTL Crime	27500	Quality Entertain.
12.070	H	RTL Passion	27500	Quality Entertain.
● 12.070	H	Sky Krimi	27500	News + Series
● 12.070	H	Sky Sport 13	27500	Quality Entertain.
12.070	H	TNT Serie	27500	Quality Entertain.
12.090	V	C CINEMA STAR	27500	News + Series
12.090	V	DISCOVERY	27500	Quality Entertain.
12.090	V	INFOSPORT	27500	News + Series
12.090	V	M6 MUSIC HITS	27500	Quality Entertain.
12.090	V	PINK TV/PINK X	27500	News + Series
12.090	V	SERIE CLUB	27500	News + Series
12.090	V	TELETOON	27500	News + Series
12.090	V	TELETOON+1	27500	News + Series
12.090	V	TPS STAR	27500	Home Cinema
12.110	H	ARD-TEST-1	27500	Home Cinema
12.110	H	MDR S-Anhalt	27500	Quality Entertain.
12.110	H	MDR Sachsen	27500	Home Cinema
12.110	H	MDR Thüringen	27500	Quality Entertain.
12.110	H	NDR FS HH	27500	Home Cinema
12.110	H	NDR FS MV	27500	Home Cinema
12.110	H	NDR FS NDS	27500	Home Cinema
12.110	H	NDR FS SH	27500	Home Cinema
12.110	H	rbb Berlin	27500	Home Cinema
12.110	H	rbb Brandenburg	27500	Home Cinema
12.110	H	SWR Fernsehen RP	27500	Home Cinema
12.129	V	A LA CARTE 2	27500	Home Cinema
12.129	V	A LA CARTE 1	27500	Quality Entertain.
12.129	V	A LA CARTE 13	27500	News + Series
12.129	V	A LA CARTE 14	27500	News + Series
12.129	V	A LA CARTE 3	27500	News + Series
12.129	V	A LA CARTE 4	27500	Quality Entertain.
12.129	V	A LA CARTE 5	27500	News + Series
12.129	V	A LA CARTE 6	27500	News + Series
12.129	V	A LA CARTE 7	27500	Quality Entertain.
12.129	V	A LA CARTE 8	27500	Quality Entertain.
12.129	V	A LA CARTE 9	27500	Quality Entertain.
12.149	H	BD 4	27500	Low Level
● 12.149	H	Sky Sport Austria	27500	Quality Entertain.
12.149	H	Alpenglühen TVX	27500	News + Series
● 12.149	H	Channel21 Express	27500	News + Series
12.149	H	GOD Channel	27500	News + Series
12.149	H	HOPE Channel deutsch	27500	News + Series
● 12.149	H	JML Shop	27500	News + Series
12.149	H	Q TV SHOP	27500	Low Level
12.149	H	RNF	27500	News + Series
● 12.149	H	Schmuckkanal/Douglas	27500	News + Series
12.149	H	YAVIDO CLIPS	27500	News + Series
12.168	V	EUROSPORT 2	27500	Quality Entertain.
12.168	V	EXTREME SPORTS	27500	News + Series
● 12.168	V	MOTORS TV	27500	News + Series
12.168	V	NAT GEO WILD	27500	Quality Entertain.
12.168	V	PIWI	27500	News + Series
12.168	V	TELETOON AFRICA	27500	News + Series
12.168	V	TF6	27500	News + Series
12.168	V	USHUAIA TV	27500	Quality Entertain.
12.168	V	A LA DEMANDE	27500	News + Series
12.188	H	Channel 21	27500	News + Series
12.188	H	n-tv	27500	Quality Entertain.
12.188	H	RTL FS	27500	News + Series
12.188	H	RTL HB NDS	27500	Quality Entertain.
12.188	H	RTL HH SH	27500	Quality Entertain.
12.188	H	RTL Television	27500	Quality Entertain.
12.188	H	RTL2	27500	Quality Entertain.
12.188	H	Super RTL	27500	News + Series
12.188	H	Super RTL CH	27500	Quality Entertain.
12.188	H	VOX	27500	Quality Entertain.
12.188	H	VOX CH	27500	Quality Entertain.
12.207	V	A LA CARTE 12	27500	News + Series
● 12.207	V	ESPN CLASSIC	27500	News + Series
12.207	V	OLTV	27500	News + Series
12.207	V	OM'TV	27500	News + Series
12.207	V	PLANETE THALASSA	27500	Quality Entertain.
● 12.207	V	TELE MELODY	27500	Quality Entertain.
12.207	V	TV BREIZH	27500	News + Series
12.207	V	PLAYBOY TV	27500	News + Series
12.227	H	EuroNews	27500	Quality Entertain.
12.227	H	Eurosport	27500	Quality Entertain.
12.227	H	HSE24 extra	27500	News + Series
12.227	H	MTV AUSTRIA	27500	Quality Entertain.
12.227	H	NICK AUSTRIA	27500	Quality Entertain.
12.227	H	RTL Austria	27500	Quality Entertain.
12.227	H	RTL2 Austria	27500	Quality Entertain.
12.227	H	Super RTL A	27500	Quality Entertain.
12.227	H	VOX Austria	27500	Quality Entertain.
12.246	V	!flirtline.tv	27500	Advertisement
12.246	V	.6live	27500	Advertisement
12.246	V	666 Girls.TV	27500	Advertisement
● 12.246	V	AbsolutSexy.TV	27500	Advertisement
12.246	V	ACHTUNG Erotik.TV	27500	Advertisement
12.246	V	ACHTUNG Singles.TV	27500	Advertisement
12.246	V	Amore TV	27500	Advertisement
12.246	V	Beate Uhse Sexy Sat	27500	Advertisement
12.246	V	Club1.TV	27500	Advertisement
● 12.246	V	DAF-AnlegerTV	27500	News + Series
12.246	V	DELUXE MUSIC	27500	Home Cinema
12.246	V	Deutsches Erotik.TV	27500	Advertisement
● 12.246	V	Die Neue Zeit TV	27500	Low Level
12.246	V	DMAX	27500	Quality Entertain.
● 12.246	V	DrDish Television	27500	News + Series
12.246	V	Eros TV	27500	Advertisement
12.246	V	EroticDome	27500	Advertisement
12.246	V	Franken SAT	27500	Advertisement
12.246	V	GayBoys LIVE	27500	Advertisement
● 12.246	V	Guter Sex.TV	27500	Advertisement
12.246	V	Hot Girls TV	27500	Advertisement
12.246	V	Liebesglück.TV	27500	Advertisement
12.246	V	Liebestraum.TV	27500	Advertisement
12.246	V	LokalSAT	27500	Advertisement
12.246	V	maennerwelt.tv	27500	Advertisement
12.246	V	Mallorca.TV	27500	Low Level
12.246	V	MehrGeld.TV	27500	Advertisement
12.246	V	münchen.tv/RFO	27500	Low Level
12.246	V	ONTV Regional	27500	Low Level
● 12.246	V	P*rnMe.TV	27500	Advertisement
12.246	V	Partnersuche.TV	27500	Advertisement
12.246	V	Po6	27500	Advertisement
12.246	V	Pro Erotik TV	27500	Advertisement
● 12.246	V	S3X Girls	27500	Low Level
12.246	V	SAT Erotiktreff.TV	27500	Advertisement
● 12.246	V	Sexy Amateure	27500	Low Level
12.246	V	SexyGirls.TV	27500	Advertisement
● 12.246	V	SOPHIA TV	27500	Low Level
● 12.246	V	Super Sexy.TV	27500	Advertisement
12.246	V	Tele6.tv	27500	Advertisement
● 12.246	V	Telefonsex.TV	27500	Advertisement
12.246	V	tirol tv	27500	Low Level
12.246	V	Traumkontakt.tv	27500	Advertisement
12.246	V	TVM/WWTV	27500	Low Level
12.246	V	Venusclub.TV	27500	Advertisement
12.246	V	Voyeur TV	27500	Advertisement
● 12.246	V	Yes Italia	27500	News + Series
12.246	V	Zack Erotik TV	27500	Advertisement
12.265	H	BR-alpha	27500	Quality Entertain.
12.265	H	SR Fernsehen	27500	Quality Entertain.
12.285	V	AB MOTEURS	27500	News + Series
12.285	V	AB1	27500	News + Series
12.285	V	ACTION	27500	News + Series
12.285	V	ANIMAUX	27500	News + Series
12.285	V	CHASSE et PECHE	27500	News + Series
12.285	V	CINE FX	27500	Low Level
12.285	V	CINE POLAR	27500	News + Series
12.285	V	DORCEL TV	27500	Low Level
● 12.285	V	DORCEL TV	27500	Low Level
12.285	V	ENCYCLOPEDIA	27500	News + Series
12.285	V	ESCALES	27500	News + Series
12.285	V	MANGAS	27500	News + Series
12.285	V	NT1	27500	News + Series
12.285	V	RTL9	27500	Low Level
● 12.285	V	test	27500	Low Level
● 12.285	V	Test 2	27500	Low Level
● 12.285	V	TMC	27500	Quality Entertain.
12.285	V	toute L'HISTOIRE	27500	Low Level
12.285	V	XXL	27500	Low Level
● 12.285	V	XXL	27500	Low Level
12.324	V	MOSAIQUE C+	27500	News + Series
12.324	V	ONZEO	27500	Quality Entertain.
12.324	V	PRIVATE SPICE	27500	Low Level
12.324	V	YACHT AND SAIL	27500	News + Series
12.324	V	CASH TV	27500	News + Series
12.324	V	MOSA 2	27500	News + Series
12.324	V	MOSA 3	27500	News + Series
12.324	V	MOSA 4	27500	News + Series
12.324	V	MOSA 5	27500	News + Series
12.324	V	MOSAIQUE	27500	News + Series
12.344	H	Animal Planet	27500	Quality Entertain.
12.344	H	Discovery	27500	News + Series
12.344	H	EUROSPORT	27500	Quality Entertain.
12.344	H	Hallmark	27500	News + Series
12.344	H	RTL4	27500	News + Series
12.344	H	RTL5	27500	Quality Entertain.
12.344	H	RTL7	27500	Quality Entertain.
12.344	H	RTL8	27500	News + Series
12.344	H	Test 97	27500	News + Series
12.344	H	TV Oranje	27500	Quality Entertain.
12.344	H	DORCEL TV	27500	Advertisement
12.363	V	DT1	27500	Advertisement
12.363	V	DT15	27500	Advertisement
12.363	V	DT16	27500	Advertisement
12.363	V	DT18	27500	Advertisement
12.363	V	DT4	27500	Advertisement
12.363	V	DT5	27500	Advertisement
12.363	V	DT6	27500	Advertisement
12.363	V	DT8	27500	Advertisement
12.363	V	DT9	27500	Advertisement
12.402	V	13EME RUE	27500	Home Cinema
12.402	V	C CINEMA CLASSIC	27500	News + Series
12.402	V	C CINEMA FAMIZ	27500	News + Series
12.402	V	COMEDIE !	27500	Quality Entertain.
12.402	V	DISNEY XD	27500	News + Series
12.402	V	EQUIDIA INFO	27500	News + Series
12.402	V	L'EQUIPE TV	27500	News + Series
12.402	V	NATIONAL GEO	27500	News + Series
12.402	V	PLANETE NO LIMIT	27500	News + Series
12.402	V	REAL TIME	27500	Quality Entertain.
● 12.402	V	TRACE TV	27500	News + Series
● 12.422	H	Einsfestival HD	27500	High Qual. Cinema
12.422	H	Radio Bremen TV	27500	Quality Entertain.
12.422	H	WDR Bielefeld	27500	Home Cinema
12.422	H	WDR Dortmund	27500	Home Cinema
12.422	H	WDR Düsseldorf	27500	Home Cinema
12.422	H	WDR Essen	27500	Home Cinema
12.422	H	WDR Münster	27500	Home Cinema
12.422	H	WDR Siegen	27500	Home Cinema
12.422	H	WDR Test A	27500	Home Cinema
12.441	V	ANIMAX	27500	News + Series
● 12.441	V	auto motor und sport	27500	News + Series
12.441	V	Biography Channel	27500	News + Series
● 12.441	V	Cartoon Network (a/S	27500	News + Series
● 12.441	V	EuroSport 2 (a/S)	27500	Quality Entertain.
12.441	V	FOX	27500	Quality Entertain.
12.441	V	HISTORY	27500	News + Series
12.441	V	Kinowelt	27500	Quality Entertain.
12.441	V	National Geographic	27500	Quality Entertain.
12.441	V	RTL Living	27500	Quality Entertain.
12.441	V	arenaSAT Home	27500	News + Series
12.441	V	Playboy TV (a)	27500	News + Series
● 12.461	H	.	27500	Advertisement
12.461	H	1-2-3.tv	27500	News + Series
12.461	H	ANIXE SD	27500	Quality Entertain.
12.461	H	DAS VIERTE	27500	Quality Entertain.
12.461	H	Daystar Television N	27500	News + Series
12.461	H	ERF	27500	News + Series
12.461	H	imusic TV	27500	Quality Entertain.
12.461	H	JAMBA! TV	27500	Quality Entertain.
● 12.461	H	Press TV	27500	News + Series
12.461	H	tv.gusto	27500	News + Series
12.480	V	AstroTV	27500	Quality Entertain.
12.480	V	DSF	27500	Quality Entertain.
12.480	V	equi8	27500	News + Series
12.480	V	glück TV	27500	News + Series
12.480	V	HSE24	27500	News + Series
12.480	V	meinTVshop	27500	News + Series
12.480	V	REGIO TV	27500	News + Series
12.480	V	Sonnenklar TV	27500	News + Series
12.480	V	SpiritON.TV	27500	News + Series
12.480	V	TELE 5	27500	Quality Entertain.
12.480	V	XXHOME	27500	Low Level
12.522	V	TF1 HD	22000	High Qual. Cinema
12.522	V	CANAL+ HD	22000	High Qual. Cinema
12.522	V	FRANCE 2 HD	22000	High Qual. Cinema
12.522	V	NATIONAL GEO HD	22000	High Qual. Cinema
12.522	V	TF1 HD	22000	High Qual. Cinema
12.581	V	13EME RUE HD	22000	High Qual. Cinema
● 12.581	V	ARTE HD	22000	High Qual. Cinema
12.581	V	CINE PREMIER HD	22000	High Qual. Cinema
12.581	V	M6 HD	22000	High Qual. Cinema
12.581	V	DISNEY MAGIC HD	22000	High Qual. Cinema
12.581	V	M6 HD	22000	High Qual. Cinema
12.640	V	DISNEY CHANNEL+1	22000	News + Series
12.640	V	DISNEY CINEMAGIC	22000	News + Series
12.640	V	DISNEY MAGIC+1	22000	News + Series
12.640	V	E! ENTERTAINMENT	22000	Quality Entertain.
12.640	V	PLAYHOUSE DISNEY	22000	Quality Entertain.
12.640	V	TEVA	22000	News + Series
● 12.640	V	TRACE TROPICAL	22000	Quality Entertain.
12.663	H	AUSTRIA 9 TV	22000	Quality Entertain.
12.663	H	ESPN America	22000	Quality Entertain.
● 12.663	H	ESPN America (S)	22000	Quality Entertain.
12.663	H	AKTIV DIREKT TV	22000	Low Level
12.663	H	ALL FUN TV	22000	Low Level
12.663	H	GoTV	22000	News + Series
● 12.663	H	LT1-OOE	22000	News + Series
12.663	H	NM-TV	22000	Advertisement
● 12.663	H	ServusTV	22000	Quality Entertain.
12.663	H	Spass im TV	22000	Advertisement
12.663	H	TW1	22000	News + Series
12.663	H	Visit-X.TV	22000	Low Level
12.692	H	ORF2	22000	Home Cinema
12.692	H	ORF2 K	22000	Home Cinema
12.692	H	ORF2 O	22000	Home Cinema
12.692	H	ORF2 S	22000	Home Cinema
12.692	H	ORF2 St	22000	Home Cinema
12.692	H	ORF2 T	22000	Home Cinema
12.692	H	ORF2 V	22000	Home Cinema
12.692	H	ORF2 W	22000	Home Cinema
12.692	H	ATV+	22000	Quality Entertain.
12.692	H	ORF1	22000	Home Cinema
12.692	H	ORF2 B	22000	Home Cinema
12.692	H	ORF2 N	22000	Home Cinema
12.692	H	HITRADIO OE3	22000	Low Level
12.692	H	ORF2E	22000	Low Level

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11.509	V	Al Jazeera Internati	22000	Quality Entertain.
11.509	V	Arirang TV	22000	News + Series
11.509	V	BFM TV	22000	News + Series
11.509	V	Cubavision Internaci	22000	Quality Entertain.
11.509	V	Demain	22000	News + Series
11.509	V	Extremadura TV	22000	Quality Entertain.
11.509	V	NHK World TV	22000	News + Series
11.509	V	NRJ Paris	22000	Quality Entertain.
11.509	V	Popular TV	22000	News + Series
11.509	V	RedeRecord	22000	Quality Entertain.
● 11.509	V	Renault TV	22000	News + Series
11.538	V	Aragon TV	22000	Quality Entertain.
11.538	V	CCTV 9	22000	News + Series
11.538	V	CCTV F	22000	News + Series
11.538	V	Direct 8	22000	News + Series
11.538	V	EWTN Europe	22000	News + Series
11.538	V	France 24 (en França	22000	Quality Entertain.
11.538	V	France 24 (in Englis	22000	Quality Entertain.
11.538	V	KTO	22000	News + Series
11.538	V	Medi1 Sat	22000	News + Series
11.538	V	Russia Today	22000	News + Series
11.538	V	Telesur	22000	News + Series
11.568	V	2M Monde	22000	Low Level
11.568	V	Al Jazeera	22000	News + Series
11.568	V	Al Masriya	22000	News + Series
11.568	V	ARTE	22000	Quality Entertain.
11.568	V	CANAL ALGERIE	22000	News + Series
11.568	V	RAI 1	22000	News + Series
11.568	V	RTPI	22000	News + Series
11.568	V	TRT International	22000	News + Series
11.568	V	TV5MONDE	22000	News + Series
11.568	V	TV7	22000	News + Series
11.568	V	TVEi	22000	News + Series
11.597	V	M6	22000	High Quality Home
11.597	V	W9	22000	High Quality Home
11.597	V	BBC World	22000	News + Series
11.597	V	Best of shopping	22000	News + Series
11.597	V	Bloomberg TV Germany	22000	Quality Entertain.
11.597	V	CNBC Europe	22000	News + Series
11.597	V	DW-TV	22000	Quality Entertain.
11.597	V	M6 BOUTIQUE LA CH	22000	News + Series
11.597	V	TV5MONDE EUROPE	22000	News + Series
12.545	H	kabel eins classics	22000	News + Series
12.545	H	Sat.1 Comedy	22000	Quality Entertain.
12.545	H	9Live	22000	Quality Entertain.
12.545	H	kabel eins	22000	Quality Entertain.
12.545	H	N24	22000	Quality Entertain.
12.545	H	ProSieben	22000	Quality Entertain.
12.545	H	SAT.1	22000	Home Cinema
12.545	H	SAT.1 Bayern	22000	Home Cinema
● 12.545	H	SAT.1 NRW	22000	Home Cinema
12.611	V	M6 MUSIC BLACK	22000	Quality Entertain.
12.611	V	M6 MUSIC CLUB	22000	Quality Entertain.
12.611	V	MA CHAINE SPORT	22000	Home Cinema
12.611	V	ODYSSEE	22000	News + Series
12.611	V	PLANETE JUSTICE	22000	Quality Entertain.
12.611	V	VIVOLTA	22000	Quality Entertain.
12.611	V	{Empty}	22000	News + Series
12.633	H	123Damenwahl	22000	Advertisement
12.633	H	Bizarr24	22000	Advertisement
12.633	H	BunnyClub24	22000	Advertisement
12.633	H	Clipmobile	22000	Advertisement
12.633	H	Das Erotische TV	22000	Advertisement
12.633	H	Date Line	22000	Advertisement
12.633	H	Deutsche Girls 2	22000	Advertisement
12.633	H	dhd24 plus	22000	Advertisement
12.633	H	dhd24.tv	22000	Low Level
12.633	H	Dreamgirls.TV	22000	Low Level
12.633	H	Erotik 24	22000	Advertisement
12.633	H	Erotik Sat	22000	Advertisement
● 12.633	H	EROTIKA TV - NEU!	22000	Advertisement
12.633	H	Fotohandy	22000	Advertisement
12.633	H	Juwelo TV	22000	Quality Entertain.
12.633	H	K-TV	22000	News + Series
12.633	H	Kamasutra TV	22000	Low Level
12.633	H	Lustkanal.TV	22000	Low Level
12.633	H	Maennersache TV	22000	Advertisement
12.633	H	Mobile Sex	22000	Advertisement
12.633	H	Preisfuchs TV	22000	Low Level
12.633	H	rhein main tv	22000	Low Level
12.633	H	Rundum Sex TV	22000	Advertisement
● 12.633	H	SEX-Kontakte	22000	Advertisement
12.633	H	SexySat	22000	News + Series
12.633	H	Supreme Master TV	22000	Quality Entertain.
12.633	H	TIMM	22000	Quality Entertain.
12.633	H	Traumgirls.TV	22000	Advertisement
12.722	H	2BE	22000	News + Series
● 12.722	H	Acht	22000	News + Series
12.722	H	een	22000	Quality Entertain.
12.722	H	JIM	22000	News + Series
12.722	H	Ketnet/Canvas	22000	Quality Entertain.
12.722	H	VIJFtv	22000	News + Series
12.722	H	Vitaya	22000	News + Series
12.722	H	VT4	22000	News + Series
12.722	H	VTM	22000	News + Series
● 12.722	H	vtmKazoom	22000	News + Series
● 12.722	H	Kanaal Z	22000	Advertisement
12.722	H	Man-X	22000	Advertisement

AST1KRKU



10.744	H	arte	22000	Quality Entertain.
10.744	H	EinsExtra	22000	Home Cinema
● 10.744	H	Einsfestival	22000	Home Cinema
10.744	H	EinsPlus	22000	Home Cinema
10.744	H	Phoenix	22000	Quality Entertain.
10.744	H	Test-R	22000	Quality Entertain.
10.773	H	TVP Sport	22000	Home Cinema
10.773	H	TVP1	22000	News + Series
10.773	H	TVP2	22000	Quality Entertain.
10.773	H	Belsat TV	22000	Quality Entertain.
10.773	H	TV Polonia	22000	Quality Entertain.
10.773	H	TV TRWAM	22000	News + Series
10.773	H	TVP Historia	22000	News + Series
10.773	H	TVP INFO	22000	News + Series
10.773	H	TVP Kultura	22000	News + Series
10.788	V	F. ABRIL HD	22000	Advertisement
10.788	V	ANIMAX	22000	Low Level
● 10.788	V	BARÇA TV	22000	Quality Entertain.
10.788	V	BOOMERANG	22000	News + Series
10.788	V	CARTOON NET.	22000	News + Series
10.788	V	TAQUILLA 1	22000	Quality Entertain.
10.788	V	TAQUILLA 2	22000	News + Series
10.788	V	TAQUILLA XY	22000	News + Series
10.788	V	TELECINCO	22000	News + Series
● 10.788	V	MULTIPANT.1	22000	Advertisement
● 10.788	V	MULTIPANT.2	22000	Advertisement
10.788	V	MULTIPANT.3	22000	Advertisement
10.788	V	MULTIPANT.4	22000	Advertisement
10.788	V	TAQUILLA 3	22000	Low Level
10.788	V	TAQUILLA 4	22000	Low Level
10.788	V	TAQUILLA X	22000	Advertisement
10.818	V	AXN	22000	News + Series
10.818	V	C+ ACCIÓN...30	22000	Low Level
10.818	V	C+ COMEDIA...30	22000	Quality Entertain.
10.818	V	CANAL COCINA	22000	News + Series
10.818	V	CARACOL TV	22000	News + Series

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
10.818	V	DCINE ESPAÑOL	22000	Low Level
10.818	V	ECUAVISA INT	22000	News + Series
10.818	V	FOX	22000	Quality Entertain.
10.818	V	SCI FI	22000	News + Series
10.818	V	TVE 1	22000	News + Series
10.818	V	TVV INT.	22000	News + Series
● 10.832	H	ANIXE HD	22000	High Qual. Cinema
● 10.832	H	ASTRA HD	22000	High Qual. Cinema
● 10.832	H	RTL HD	22000	High Qual. Cinema
● 10.832	H	VOX HD	22000	High Qual. Cinema
10.847	V	ABONO FÚTBOL+	22000	Low Level
10.847	V	COMPRA SMS	22000	Low Level
10.847	V	GUÍA DIGITAL+	22000	Low Level
10.847	V	MÚSICA DIGITAL	22000	Advertisement
10.847	V	PORTADA	22000	Low Level
10.847	V	RAD. LATINAS	22000	Low Level
10.847	V	RADIOS	22000	Low Level
10.847	V	TAQUILLA	22000	Low Level
10.847	V	TEST_CSD2	22000	Low Level
10.847	V	TEST_CSD4	22000	Low Level
10.847	V	TEST_CSD5	22000	Advertisement
10.847	V	{Empty}	22000	Low Level
● 10.862	H	INT6	22000	High Quality Home
10.862	H	TVP Sport	22000	High Qual. Cinema
10.862	H	TVP1	22000	High Qual. Cinema
10.862	H	TVP2	22000	High Qual. Cinema
● 10.862	H	TEST	22000	High Quality Home
10.862	H	TV Polonia	22000	High Qual. Cinema
10.862	H	TVP Historia	22000	High Quality Home
10.862	H	TVP INFO	22000	High Quality Home
10.862	H	TVP Kultura	22000	High Quality Home
10.862	H	TVP HD	22000	High Qual. Cinema
10.877	V	40 LATINO	22000	News + Series
10.877	V	ANTENA 3	22000	Quality Entertain.
10.877	V	C+ DEPORTES	22000	Quality Entertain.
10.877	V	C+ FÚTBOL	22000	Quality Entertain.
10.877	V	CALLE 13	22000	Low Level
10.877	V	CANAL+...30	22000	News + Series
10.877	V	FOX NEWS	22000	News + Series
10.877	V	GOLF+	22000	Low Level
10.877	V	NAT GEOGRAPH	22000	Low Level
10.877	V	PLAYBOY TV	22000	Low Level
● 10.877	V	{Empty}	22000	Advertisement
10.921	H	AXN	22000	News + Series
10.921	H	bebe tv	22000	News + Series
● 10.921	H	Blue Hustler	22000	News + Series
10.921	H	Boomerang	22000	News + Series
10.921	H	Cartoon Network/TCM	22000	News + Series
● 10.921	H	Comedy Central	22000	News + Series
10.921	H	MGM	22000	News + Series
10.921	H	STV1	22000	News + Series
10.921	H	TA3	22000	News + Series
10.921	H	Viasat 3	22000	News + Series
● 10.921	H	Viasat Explorer	22000	News + Series
10.921	H	Viasat History	22000	News + Series
10.921	H	Travel	22000	Low Level
10.979	V	CLAN TVE	22000	Low Level
10.979	V	CLÁSICO	22000	News + Series
10.979	V	CUATRO	22000	Quality Entertain.
10.979	V	EUROSPORT	22000	Quality Entertain.
10.979	V	HOGARUTIL	22000	News + Series
10.979	V	HOLLYWOOD	22000	News + Series
10.979	V	LA 2	22000	News + Series
10.979	V	LA SEXTA	22000	News + Series
10.979	V	TELENOVELAS	22000	Low Level
10.979	V	TNT	22000	Low Level
10.979	V	TV CANARIA	22000	Low Level
11.023	H	History HD	22000	High Qual. Cinema
11.023	H	Disney Cinemagic HD	22000	High Qual. Cinema
11.023	H	NatGeo HD	22000	High Qual. Cinema
11.038	V	40 TV	22000	Quality Entertain.
11.038	V	CANAL+	22000	News + Series
11.038	V	CANAL+ 2	22000	News + Series
11.038	V	CULTURAL.ES	22000	News + Series
11.038	V	DISCOVERY	22000	News + Series
11.038	V	DISNEY CH.	22000	News + Series
11.038	V	PAR. COMEDY	22000	News + Series
11.038	V	SPORTMANÍA	22000	Quality Entertain.
11.038	V	TCM MODERNO	22000	News + Series
11.038	V	TELEDEPORTE	22000	Quality Entertain.
● 11.038	V	{Empty}	22000	Advertisement
● 11.097	V	C+ LIGA HD	22000	High Qual. Cinema
11.097	V	TAQUILLA HD	22000	High Quality Home
11.097	V	C+ EVENTOS	22000	News + Series
● 11.097	V	CANAL+ LIGA	22000	Home Cinema
● 11.097	V	MULTILIGA	22000	Low Level
11.097	V	TAQ XXHARD	22000	News + Series
11.097	V	TAQUILLA 5	22000	News + Series
11.097	V	TAQUILLA 7	22000	Quality Entertain.
11.097	V	TAQUILLA X	22000	News + Series
11.097	V	TAQUILLA XX	22000	Low Level
11.097	V	BARÇA TV	22000	Advertisement
● 11.097	V	FERIA PILAR	22000	News + Series
11.097	V	MULTI-X	22000	Advertisement
11.097	V	MULTI-X (1)	22000	Advertisement
11.097	V	MULTI-X (2)	22000	Advertisement
11.097	V	MULTI-X (3)	22000	Advertisement
11.097	V	MULTIPANT.1	22000	Advertisement
11.097	V	MULTIPANT.2	22000	Advertisement
11.097	V	TAQUILLA 6	22000	Low Level
11.097	V	TAQUILLA 8	22000	Advertisement
11.156	V	24 HORAS	22000	Home Cinema
11.156	V	BABYFIRST	22000	News + Series
11.156	V	BIOGRAPHY	22000	News + Series
11.156	V	BLOOMBERG	22000	News + Series
11.156	V	CANAL ODISEA	22000	News + Series
11.156	V	CAZA Y PESCA	22000	Low Level
11.156	V	COSMOPOLITAN	22000	News + Series
11.156	V	HISTORIA	22000	Quality Entertain.
11.156	V	MÉTEO	22000	News + Series
11.156	V	VIAJAR	22000	Quality Entertain.
● 11.156	V	EHS	22000	News + Series
11.156	V	FAMA 24H	22000	Advertisement
● 11.156	V	{Empty}	22000	Advertisement
11.171	V	24 HORAS	22000	News + Series
11.171	V	BABYFIRST	22000	Low Level
11.171	V	BIOGRAPHY	22000	Quality Entertain.
11.171	V	BLOOMBERG	22000	News + Series
11.171	V	CANAL ODISEA	22000	News + Series
11.171	V	CAZA Y PESCA	22000	News + Series
11.171	V	COSMOPOLITAN	22000	News + Series
11.171	V	HISTORIA	22000	News + Series
11.171	V	MÉTEO	22000	News + Series
11.171	V	VIAJAR	22000	News + Series
● 11.171	V	EHS	22000	News + Series
11.171	V	FAMA 24H	22000	Advertisement
● 11.171	V	{Empty}	22000	Advertisement
11.300	H	ANIXE HD	22000	High Qual. Cinema
● 11.300	H	ASTRA HD	22000	High Qual. Cinema
● 11.300	H	Servus TV HD	22000	High Qual. Cinema
11.300	H	ORF 1 HD	22000	High Qual. Cinema
11.318	V	C+ ACCIÓN	22000	News + Series
11.318	V	C+ COMEDIA	22000	News + Series
11.318	V	C+ DCINE	22000	Quality Entertain.
11.318	V	CARTOON N +1	22000	News + Series
11.318	V	DECASA	22000	News + Series
11.318	V	DISNEY CH. +1	22000	News + Series
● 11.318	V	DISNEY XD	22000	News + Series
● 11.318	V	G. HERMANO	22000	News + Series
11.318	V	NICK +1	22000	News + Series
11.318	V	PLAYHOUSE	22000	News + Series
11.318	V	SONY TV	22000	News + Series
11.318	V	TELEFE INT	22000	Advertisement
11.362	H	arte HD	22000	High Qual. Cinema
● 11.362	H	Das Erste HD	22000	High Qual. Cinema
● 11.362	H	ZDF HD	22000	High Qual. Cinema
11.479	V	BABY FIRST	22000	Quality Entertain.
11.479	V	CANAL EVENEMENT	22000	Quality Entertain.
● 11.479	V	FRENCH LOVER	22000	Low Level
11.479	V	GIRONDINS TV	22000	News + Series
11.479	V	NRJ HITS	22000	Home Cinema
11.479	V	TELEREALITE	22000	Low Level
11.479	V	{Empty}	22000	Quality Entertain.
11.671	H	Cinemax	22000	Low Level
11.671	H	Film+	22000	News + Series
11.671	H	HirTV	22000	News + Series
11.671	H	m1	22000	News + Series
11.671	H	MTV Hungary	22000	Quality Entertain.
11.671	H	RTL Klub	22000	News + Series
11.671	H	Spektrum	22000	Low Level
11.671	H	Sport 1 CZE	22000	News + Series
11.671	H	Sport Klub	22000	Quality Entertain.
11.671	H	TV2	22000	Quality Entertain.
11.671	H	Viva TV	22000	News + Series
11.685	V	C. ESTRELLAS	22000	Quality Entertain.
11.685	V	CNN+	22000	News + Series
● 11.685	V	FAMA 24H	22000	News + Series
11.685	V	R. MADRID TV	22000	Low Level
11.685	V	TCM CLÁSICO	22000	Low Level
11.685	V	ANDALUCÍA TV	22000	News + Series
11.685	V	CANAL CLUB	22000	Low Level
11.685	V	CANAL+ HD	22000	Low Level
11.685	V	EUSKADI TV	22000	News + Series
11.685	V	PRO TV INT	22000	Advertisement
11.685	V	TMADRID SAT	22000	News + Series
11.685	V	TV GALICIA	22000	Quality Entertain.
11.685	V	TV3CAT	22000	News + Series
11.856	V	C CINEMA PREMIER	27500	News + Series
11.856	V	CANAL+ CINEMA	27500	News + Series
11.856	V	CANAL+ FAMILY	27500	News + Series
11.856	V	CANAL+ SPORT	27500	Quality Entertain.
11.856	V	DISNEY CHANNEL	27500	Quality Entertain.
11.856	V	EQUIDIA	27500	News + Series
11.856	V	CANAL+	27500	Quality Entertain.
11.856	V	CANAL+ DECALE	27500	News + Series
11.856	V	PMU sur Canal+	27500	Quality Entertain.
12.699	V	FR3 AMIENS	22000	News + Series
12.699	V	FR3 BESANCON	22000	News + Series
12.699	V	FR3 BORDEAUX	22000	News + Series
12.699	V	FR3 CLERMONT FD	22000	News + Series
12.699	V	FR3 LIMOGES	22000	News + Series
12.699	V	FR3 LYON	22000	News + Series
12.699	V	FR3 MARSEILLE	22000	News + Series
12.699	V	FR3 NANCY	22000	News + Series
12.699	V	FR3 PARIS	22000	News + Series
12.699	V	FR3 RENNES	22000	News + Series
12.699	V	FR3 ROUEN	22000	News + Series
12.699	V	FR3 TOULOUSE	22000	News + Series
12.729	V	FR3 CAEN	22000	News + Series
12.729	V	FR3 DIJON	22000	News + Series
12.729	V	FR3 GRENOBLE	22000	News + Series
12.729	V	FR3 LILLE	22000	News + Series
12.729	V	FR3 MONTPELLIER	22000	News + Series
12.729	V	FR3 NANTES	22000	News + Series
12.729	V	FR3 NICE	22000	News + Series
12.729	V	FR3 ORLEANS	22000	News + Series
12.729	V	FR3 POITIERS	22000	News + Series
12.729	V	FR3 REIMS	22000	News + Series
12.729	V	FR3 STRASBOURG	22000	News + Series
12.729	V	FR3 VIA STELLA	22000	News + Series

Europe

ASTRA 1E,1G,3A

23.5 East

AST01EH1



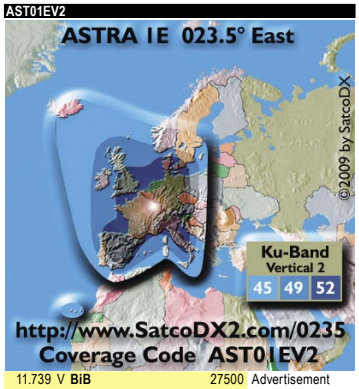
Freq	Pol	Channel Name	Symbol Rate	Programming Type
10.862	H	ASTRA HD Demo	22000	High Quality Home
● 10.862	H	Ka OU demo	22000	Advertisement
10.862	H	Ocko TV	22000	News + Series
● 12.168	V	NOVA TV	27500	News + Series
● 12.168	V	Chamber TV	27500	Low Level
● 12.168	V	RTL Tele Letzebuerg	27500	Quality Entertain.

AST01EH2



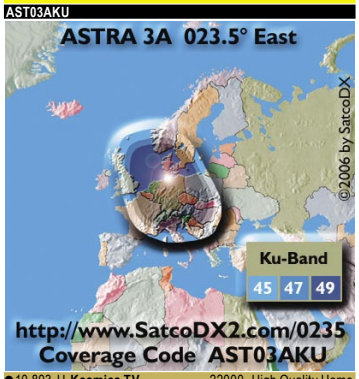
Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.836	H	BLC_TCO_01	29900	Quality Entertain.
11.836	H	BLC_TCO_02	29900	Quality Entertain.
11.836	H	INT_TV	29900	Quality Entertain.
● 11.836	H	SMD 01	29900	Quality Entertain.
11.915	H	E!Entertainment	27500	News + Series
11.915	H	History	27500	News + Series
11.915	H	L1MBURG	27500	News + Series
11.915	H	Omroep Brabant Telev	27500	News + Series
11.915	H	Omroep Zeeland Telev	27500	News + Series
11.915	H	Omrop Fryslan Televi	27500	News + Series
11.915	H	TV Drenthe	27500	News + Series
11.915	H	TV Gelderland	27500	News + Series
11.915	H	TV Noord	27500	News + Series
11.915	H	TV Noord-Holland	27500	News + Series
11.915	H	TV Oost	27500	News + Series
11.915	H	TV Rijnmond	27500	News + Series
● 11.993	H	FILMBOX	27500	Quality Entertain.
● 11.993	H	FILMBOX EXTRA	27500	News + Series
● 11.993	H	JimJam	27500	News + Series
● 11.993	H	Leo TV	27500	News + Series
● 11.993	H	MGM	27500	News + Series
● 11.993	H	Minimax	27500	Low Level
● 11.993	H	NOSTALGIA	27500	News + Series
● 11.993	H	Nova	27500	News + Series
● 11.993	H	Nova Cinema	27500	News + Series
● 11.993	H	Spektrum	27500	News + Series
● 11.993	H	Viasat Explorer / Sp	27500	News + Series
● 11.993	H	Viasat History	27500	News + Series
● 11.993	H	Cinemax od 23.11.200	27500	Advertisement
● 11.993	H	Public TV	27500	Quality Entertain.
● 12.070	H	Nova HD	27500	High Quality Home
● 12.070	H	AXN Crime	27500	News + Series
● 12.070	H	Cinemax	27500	Quality Entertain.
● 12.070	H	Disney Channel	27500	News + Series
● 12.070	H	HBO 2	27500	Quality Entertain.
● 12.070	H	Nova Sport	27500	Quality Entertain.
● 12.070	H	Sport 1	27500	Quality Entertain.
● 12.070	H	Sport 2	27500	Quality Entertain.
● 12.070	H	MTV od 29.11.2009	27500	Advertisement
● 12.070	H	Nova Cinema od 2.11.	27500	Advertisement
● 12.070	H	Nova od 2.11.2009	27500	Advertisement
● 12.109	H	bebe tv HD	27500	High Quality Home
● 12.109	H	FILMBOX HD	27500	High Qual. Cinema
● 12.109	H	HISTORY HD	27500	High Qual. Cinema
● 12.109	H	EUROSPORT HD	27500	High Qual. Cinema
● 12.109	H	Nova HD	27500	High Quality Home
● 12.109	H	Nova Sport HD	27500	High Quality Home

AST01EV2



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.739	V	BiB	27500	Advertisement
11.739	V	Consumenten TV 24	27500	Quality Entertain.
11.739	V	Discovery Science	27500	News + Series
11.739	V	Discovery Travel	27500	News + Series
11.739	V	Film1.3 24h	27500	News + Series
11.739	V	Geschiedenis 24	27500	Quality Entertain.
11.739	V	Het Gesprek	27500	News + Series
11.739	V	Holland Doc 24	27500	News + Series
11.739	V	Humor 24/Nost.Net	27500	News + Series
11.739	V	Nederland 24	27500	News + Series
11.739	V	NGC Wild	27500	Home Cinema
11.739	V	Sport1.2/Erediv.2	27500	Quality Entertain.
11.739	V	Vitaliteit	27500	Advertisement

AST03AKU



Freq	Pol	Channel Name	Symbol Rate	Programming Type
● 10.803	H	Kosmica TV	22000	High Quality Home
● 10.803	H	CT HD	22000	High Qual. Cinema
● 10.803	H	test	22000	Low Level
● 10.832	H	Kosmica TV	22000	High Quality Home
● 10.832	H	CT HD	22000	High Qual. Cinema
● 10.832	H	test	22000	Low Level
● 11.475	V	ANN (arab)	27500	News + Series
● 11.475	V	France 24 (frz)	27500	
● 11.475	V	GOD TV(engl)	27500	
● 11.475	V	Inter+ (ukr)	27500	
● 11.475	V	LUXE.TV (engl)	27500	
● 11.475	V	Phoenix CNE	27500	
● 11.475	V	Pro TV International	27500	
● 11.475	V	Samanyolu TV	27500	
● 11.475	V	The Poker Channel	27500	
● 11.475	V	TVR International	27500	
11.515	V	ANIXE SD	28500	Quality Entertain.
11.515	H	Ch1 BT + KT	27500	Low Level
11.515	H	Ch2 BPK	27500	Low Level
11.515	H	Ch3 BR	27500	Quality Entertain.
11.515	H	Ch4 MAZ	27500	News + Series
11.515	V	Das Vierte	28500	
11.515	V	DAYSTAR TV	28500	News + Series
11.515	V	DELUXE MUSIC	28500	News + Series
11.515	V	Eurosport	28500	
11.515	V	n-tv	28500	
11.515	V	RTL II	28500	
11.515	V	RTL Television	28500	Quality Entertain.
11.515	V	Super RTL	28500	
11.515	V	TIMM	28500	News + Series
11.515	V	Viva	28500	
11.515	V	VOX	28500	
11.515	H	SAT1 HH/SH	27500	Quality Entertain.
11.515	H	SAT1 National	27500	Quality Entertain.
11.515	H	SAT1 NRW	27500	Quality Entertain.
11.515	H	SAT1 NS/Bremen	27500	Quality Entertain.
11.515	H	SAT1 RhlPf/Hessen	27500	Quality Entertain.
11.515	H	Test BY	27500	Quality Entertain.
● 11.555	V	Disney Cinemagic HD	28500	High Qual. Cinema
● 11.555	V	History HD	28500	High Qual. Cinema
● 11.555	V	NatGeo HD	28500	High Qual. Cinema
11.555	H	9Live	28500	
11.555	H	DSF	28500	
11.555	H	HSE24	28500	
11.555	H	kabel eins	28500	
11.555	H	N24	28500	
11.555	H	OraiaTV (engl)	28500	News + Series
11.555	H	ProSieben	28500	Quality Entertain.
11.555	H	Sat. 1	28500	Quality Entertain.
11.555	H	Tele 5	28500	
11.592	V	Cartoon Network	28500	News + Series
11.592	V	Cartoon Network (eng	28500	News + Series
11.592	V	Club TV	28500	News + Series
11.592	V	Disney Playhouse	28500	News + Series
11.592	V	Disney Toon + 1	28500	News + Series
11.592	V	MTV Dance	28500	
11.592	V	MTV Dance (engl)	28500	
11.592	V	MTV Hits	28500	Quality Entertain.
11.592	V	MTV Hits (engl)	28500	Quality Entertain.
11.592	V	National Geo (engl)	28500	News + Series
11.592	V	National Geographic	28500	News + Series

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

Cost Conscious Entertainment ..... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.592	V	Playboy TV	28500	
11.592	V	Relax TV	28500	Quality Entertain.
11.592	V	SciFi (KD)	28500	News + Series
11.592	V	Spiegel TV Digital	28500	Home Cinema
11.592	V	sportdigital.tv	28500	Quality Entertain.
11.592	V	The Biography Channe	28500	Quality Entertain.
11.592	V	TNT Film	28500	Quality Entertain.
11.592	V	TNT Film (engl)	28500	News + Series
11.592	V	Yacht & Sail	28500	News + Series
11.592	V	Yacht & Sail (engl)	28500	Quality Entertain.
11.595	H	ATV Avrupa (türk)	28500	News + Series
11.595	H	Canal 24 Horas	28500	Quality Entertain.
11.595	V	Cartoon Network	28500	News + Series
11.595	V	Cartoon Network (eng	28500	Low Level
11.595	H	Channel21	28500	News + Series
11.595	V	Club TV	28500	Home Cinema
11.595	V	Disney Playhouse	28500	News + Series
11.595	V	Disney Toon + 1	28500	News + Series
11.595	H	ERT World (griech)	28500	News + Series
11.595	H	Euro D (türk)	28500	
11.595	H	Euro Star (türk)	28500	
11.595	H	Kabel Digital Info	28500	News + Series
11.595	V	MTV Dance	28500	
11.595	V	MTV Dance (engl)	28500	
11.595	V	MTV Hits	28500	Quality Entertain.
11.595	V	MTV Hits (engl)	28500	Quality Entertain.
11.595	H	Nashe Kino (rus)	28500	
11.595	V	National Geo (engl)	28500	News + Series
11.595	V	National Geographic	28500	News + Series
11.595	V	Playboy TV	28500	
11.595	V	Relax TV	28500	News + Series
11.595	H	RTP Internacional	28500	
11.595	H	RTR Planeta (rus)	28500	News + Series
11.595	H	RTVi (rus)	28500	
11.595	V	SciFi (KD)	28500	News + Series
11.595	V	Spiegel TV Digital	28500	News + Series
11.595	V	sportdigital.tv	28500	Quality Entertain.
11.595	V	The Biography Channe	28500	News + Series
11.595	H	Tier TV	28500	News + Series
11.595	V	TNT Film	28500	News + Series
11.595	V	TNT Film (engl)	28500	News + Series
11.595	H	TRTi (türk)	28500	
11.595	H	TV Polonia (pol)	28500	
11.595	H	TVEi (span)	28500	Quality Entertain.
11.595	V	Yacht & Sail	28500	Quality Entertain.
11.595	V	Yacht & Sail (engl)	28500	News + Series
11.635	H	Animax	28500	News + Series
11.635	H	Astro TV	28500	
11.635	H	Gute Laune TV	28500	
11.635	H	History	28500	News + Series
11.635	H	Kinowelt TV	28500	
11.635	H	Motors TV	28500	
11.635	H	Planet	28500	News + Series
11.635	H	Press TV (engl)	28500	News + Series
11.635	V	redXclub 1	28500	Quality Entertain.
11.635	V	redXclub 2	28500	Quality Entertain.
11.635	V	redXclub Info	28500	News + Series
11.635	V	Select Kino 1	28500	Quality Entertain.
11.635	V	Select Kino 2	28500	Quality Entertain.
11.635	V	Select Kino 3	28500	Quality Entertain.
11.635	V	Select Kino 4	28500	Quality Entertain.
11.635	V	Select Kino 5	28500	Quality Entertain.
11.635	V	Select Kino 6	28500	Quality Entertain.
11.635	V	Select Kino 7	28500	Quality Entertain.
11.635	V	Select Kino Info	28500	Quality Entertain.
11.635	H	sonnenklar.TV	28500	
11.635	H	Trace.TV	28500	News + Series
11.635	H	tv.gusto Premium	28500	
11.635	H	Wetter Fernsehen	28500	
11.675	V	Al Jazeera Int (engl	28500	
11.675	V	CH1 Russia (rus)	28500	
11.675	V	EuroNews (itl)	28500	News + Series
11.675	V	EuroNews (port)	28500	News + Series
11.675	V	EuroNews (rus)	28500	News + Series
11.675	V	EuroNews (span)	28500	News + Series
11.675	V	Fox Turk (türk)	28500	
11.675	V	France 2 (frz)	28500	
11.675	V	France 3 (frz)	28500	
11.675	V	France 5 (frz)	28500	
11.675	V	iTVN (pol)	28500	
11.675	V	Kanal 7 (türk)	28500	
11.675	V	LiG TV (türk)	28500	
11.675	V	Rai 1 (itl)	28500	
11.675	V	Rai 2 (itl)	28500	
11.675	V	Rai 3 (itl)	28500	
11.675	V	Show Turk (türk)	28500	
11.675	V	Turkmax (türk)	28500	
11.720	H	.	27500	Advertisement
11.720	H	ANIXE SD	27500	Quality Entertain.
11.720	H	Channel 21	27500	News + Series
11.720	H	Die Neue Zeit TV	27500	Low Level
11.720	H	equi8	27500	Quality Entertain.
11.720	H	EWTN Europe	27500	Quality Entertain.
11.720	H	Kuren und Wellness	27500	Advertisement
11.720	H	Luxe TV	27500	News + Series
11.720	H	TIMM TV	27500	News + Series
11.720	H	TW1	27500	News + Series
11.720	H	XXHOME	27500	News + Series
11.720	H	YAVIDO CLIPS	27500	Home Cinema
11.797	H	Discovery	27500	News + Series
11.797	H	Duna TV test	27500	News + Series
11.797	H	JOJ PLUS	27500	Quality Entertain.
11.797	H	M1 test	27500	News + Series
11.797	H	M2 test	27500	News + Series
11.797	H	NG Wild	27500	News + Series
11.797	H	NGC	27500	News + Series
11.797	H	TV Barrandov	27500	News + Series
11.797	H	TV JOJ	27500	Quality Entertain.
11.797	H	TA3	27500	Quality Entertain.
11.797	H	Z 1	27500	News + Series
11.856	V	BravaHDTV	27500	High Qual. Cinema
11.856	V	een HD	27500	High Quality Home
11.856	V	NederlandHD	27500	High Quality Home
11.856	V	NGC HD	27500	High Qual. Cinema
11.856	V	Discovery HD	27500	High Qual. Cinema
11.856	V	MelodyZen.tv	27500	High Quality Home
11.876	H	AXN	27500	News + Series
11.876	H	AXN Sci-fi	27500	Quality Entertain.
11.876	H	CSFilm/XXX/CSMini	27500	Low Level
11.876	H	DoQ	27500	News + Series
11.876	H	Eurosport CZ	27500	Quality Entertain.
11.876	H	Film+	27500	News + Series
11.876	H	Fishing and Hunting	27500	News + Series
11.876	H	HBO	27500	Quality Entertain.
11.876	H	Nova Sport	27500	Quality Entertain.
11.876	H	Prima COOL	27500	News + Series
11.876	H	Sport 5	27500	Quality Entertain.
11.876	H	TV JOJ test	27500	Low Level
11.876	H	AXN Crime od 26.10.2	27500	Advertisement
11.876	H	Disney Channel od 26	27500	Advertisement
11.876	H	XXX Xtreme od 26.10.	27500	Advertisement
12.525	V	CT 1	27500	Quality Entertain.
12.525	V	CT 2	27500	Quality Entertain.
12.525	V	CT 4	27500	Quality Entertain.
12.525	V	Prima TV	27500	Home Cinema
12.525	V	CT 24	27500	Home Cinema
12.525	V	Noe TV	27500	Quality Entertain.
12.565	V	1-2-3.tv	27500	News + Series
12.565	V	BBC World (engl)	27500	
12.565	V	BibelTV	27500	
12.565	V	Bloomberg	27500	
12.565	H	DOMA	27500	Quality Entertain.
12.565	V	EuroNews	27500	
12.565	V	Eurosport 2	27500	Home Cinema
12.565	H	Markiza	27500	Quality Entertain.
12.565	V	MTV	27500	
12.565	V	NICK/COMEDY CENTR	27500	
12.565	H	STV1	27500	Quality Entertain.
12.565	H	STV2	27500	Quality Entertain.
12.565	H	STV3	27500	Home Cinema
12.565	V	TV 5 Monde (frz)	27500	
12.605	H	13th Street (KD)	28500	
12.605	H	AXN Action	28500	News + Series
12.605	H	AXN Action (engl)	28500	News + Series
12.605	V	BBC Prime	28500	
12.605	V	BBC Prime (engl)	28500	
12.605	V	Boomerang	28500	
12.605	V	Boomerang (engl)	28500	
12.605	V	CNBC Europe (engl)	28500	
12.605	H	CNN (engl)	28500	
12.605	V	Detski Mir/TeleKlub	28500	
12.605	H	Disney Toon	28500	Quality Entertain.
12.605	V	DMAX	28500	
12.605	H	E! Entertainment	28500	
12.605	H	ERF eins	28500	News + Series
12.605	H	ESPN America	28500	Quality Entertain.
12.605	H	ESPN America (engl)	28500	Quality Entertain.
12.605	H	ESPN Classic	28500	
12.605	H	ESPN Classic (engl)	28500	News + Series
12.605	V	Extreme Sports	28500	
12.605	V	Extreme Sports (engl	28500	
12.605	V	iMusic	28500	News + Series
12.605	H	Jukebox	28500	News + Series
12.605	V	Juwelo TV	28500	News + Series
12.605	V	kabel eins classics	28500	News + Series
12.605	H	MTV Entertainment	28500	News + Series
12.605	H	Nick Junior	28500	News + Series
12.605	V	Playhouse Disney (en	28500	
12.605	H	QVC	28500	
12.605	V	Rock TV	28500	News + Series
12.605	V	Romance TV	28500	News + Series
12.605	V	Sat.1 Comedy	28500	
12.605	H	Silverline	28500	
12.605	V	Sky News (engl)	28500	
12.605	H	TNT Serie (engl)	28500	News + Series
12.605	H	TNT Serie (KD)	28500	News + Series
12.605	V	Toon Disney (engl)	28500	
12.605	H	VH1 Classic	28500	
12.605	H	VH1 Classic (engl)	28500	
12.653	V	Service 1	3000	Quality Entertain.
12.689	V	SVK001/SLQ002_____	6666	Home Cinema
12.696	H	NOVA TV	3255	News + Series
12.698	V	D179	6666	Home Cinema
12.698	V	Service 1	6666	Home Cinema
12.698	V	SWR-MZ-WETTERMOBI	6666	Home Cinema
12.725	V	BVN (holl/belg)	27500	
12.725	V	CaspioNet	27500	
12.725	V	EuroNews (engl)	27500	News + Series
12.725	V	EuroNews (frz)	27500	Quality Entertain.
12.725	V	Fashion TV UK	27500	News + Series
12.725	V	First Musical Channe	27500	
12.725	V	Iran Music/pdf Chann	27500	Quality Entertain.
12.725	V	LTV2 (lett)	27500	
12.725	V	RTVi Info (rus)	27500	
12.725	V	Tunis 7 (tun)	27500	
12.725	V	TV Record (port)	27500	
12.725	V	tvCanaria (span)	27500	

North Africa, Middle East

EUROBIRD 2

25.5 East

EUB002FB



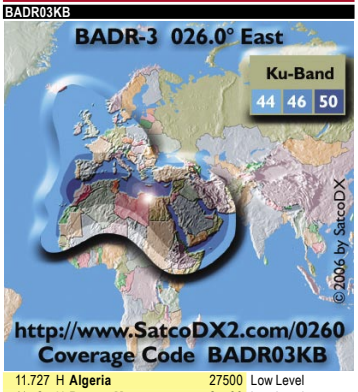
Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.012	H	BLOOMBERG	27500	Quality Entertain.
11.012	H	CINEMA CITY	27500	News + Series
11.012	H	FASHION TV	27500	News + Series
11.012	H	MGM	27500	News + Series
11.012	H	MnL TV	27500	News + Series
11.012	H	SERIES	27500	News + Series
11.012	H	SHOWCOMEDY	27500	News + Series
11.012	H	SHOWMOVIES 1	27500	News + Series
11.012	H	SUPER MOVIES	27500	Low Level
11.012	H	TOON DISNEY	27500	News + Series
11.012	H	TVMAX	27500	News + Series
11.055	H	AL RIYADIYAH	27500	Home Cinema
11.055	H	AMERICA PLUS	27500	Low Level
11.055	H	C-SPAN	27500	News + Series
11.055	H	CNBC	27500	News + Series
11.055	H	MUSIC NOW	27500	News + Series
11.055	H	ORBIT NEWS 2	27500	Low Level
11.055	H	PTest	27500	Low Level
11.055	H	SHOWSERIES	27500	Low Level
11.055	H	SKY NEWS	27500	News + Series
11.055	H	SUPER COMEDY	27500	Quality Entertain.
11.075	H	AL RIYADIYAH	27500	Home Cinema
11.075	H	AMERICA PLUS	27500	News + Series
11.075	H	C-SPAN	27500	News + Series
11.075	H	CNBC	27500	News + Series
11.075	H	MUSIC NOW	27500	News + Series
11.075	H	ORBIT NEWS 2	27500	News + Series
11.075	H	PTest	27500	Low Level
11.075	H	SHOWSERIES	27500	News + Series
11.075	H	SKY NEWS	27500	Quality Entertain.
11.075	H	SUPER COMEDY	27500	Quality Entertain.
11.080	V	ANG	2900	Quality Entertain.
11.096	H	DISCOVERY CHANNEL	27500	Low Level
11.096	H	DISCOVERY SCIENCE	27500	News + Series
11.096	H	DISNEY PLAYHOUSE	27500	Low Level
11.096	H	E!	27500	News + Series
11.096	H	EXTREME SPORTS	27500	News + Series
11.096	H	JIMJAM	27500	News + Series
11.096	H	NICKELODEON	27500	Quality Entertain.
11.096	H	SHOWMOVIES ACTION	27500	News + Series
11.096	H	SHOWSHASHA	27500	News + Series
11.096	H	SHOWSPORTS 1	27500	Quality Entertain.
11.096	H	SHOWSPORTS 2	27500	News + Series
11.096	H	TRACE	27500	News + Series
11.096	H	XTRA MOVIES	27500	Low Level
11.096	H	MTV ARABIA	27500	Quality Entertain.
11.146	V	SAT	5185	News + Series
11.146	V	Terrestrial	5185	Quality Entertain.
11.604	H	AMERICA PLUS +2	27500	Low Level
11.604	H	ANIMAL PLANET	27500	Low Level
11.604	H	BBC PRIME	27500	News + Series
11.604	H	CARTOON NETWORK	27500	Low Level
11.604	H	CINEMA CITY +1	27500	News + Series
11.604	H	DISCOVERY CHANNEL	27500	News + Series
11.604	H	DISCOVERY T&L	27500	News + Series
11.604	H	DISNEY CHANNEL	27500	Quality Entertain.
11.604	H	FOX NEWS	27500	News + Series
11.604	H	FOX SPORTS	27500	News + Series
11.604	H	ORBIT NEWS	27500	News + Series
11.604	H	SUPER COMEDY +2	27500	Quality Entertain.
11.604	H	BOOMERANG	27500	News + Series
11.604	H	CNNI	27500	News + Series
11.662	V	Fox Sport	27500	Quality Entertain.
11.662	V	Al Habeeb TV	27500	Quality Entertain.
11.662	V	Al JADEED	27500	Quality Entertain.
11.662	V	Al Khel	27500	Low Level
11.662	V	Al Lafetah	27500	News + Series
11.662	V	Al Sumariah	27500	News + Series
11.662	V	AlTeb Alnabawy	27500	Advertisement
11.662	V	Bahrain TV	27500	Low Level
11.662	V	BIN OTHAIMEEN	27500	News + Series
11.662	V	DM TV	27500	News + Series
11.662	V	HADI TV	27500	News + Series
11.662	V	Karbala	27500	Low Level
11.662	V	Mihnati Artvision	27500	Low Level
11.662	V	NART	27500	News + Series
11.662	V	NOUR TV	27500	News + Series
11.662	V	Supreme Master	27500	News + Series
11.662	V	Talemiah	27500	Low Level
11.662	V	WATANI	27500	Low Level
11.681	H	AL SAFWA	27500	News + Series
11.681	H	AL YAWM	27500	News + Series
11.681	H	CINEMA 1	27500	Low Level
11.681	H	CINEMA 2	27500	News + Series
11.681	H	FANN	27500	News + Series
11.681	H	GMA LIFE TV	27500	News + Series
11.681	H	GMA Pinoy TV	27500	News + Series
11.681	H	HISTORY CHANNEL	27500	Low Level
11.681	H	NBA TV	27500	News + Series
11.681	H	PINOY EXTREME	27500	News + Series
11.681	H	SERIES+4	27500	News + Series
11.681	H	SUPER MOVIES+1	27500	News + Series
11.681	H	TCM	27500	News + Series
11.681	H	ZONE CLUB	27500	News + Series

North Africa, Middle East

BADR 4,6

26.0 East

BADR03KB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.727	H	Algeria	27500	Low Level
11.727	H	Booyut Motmaeena	27500	Low Level
11.727	H	Eriteria	27500	Low Level
11.727	H	Ethiopia	27500	Low Level
11.727	H	Hannibal	27500	Low Level
11.727	H	Libya Sport (Riadia)	27500	Low Level
11.727	H	Libya TV	27500	Low Level
11.727	H	Mauritania	27500	Low Level
11.727	H	Morroco TV	27500	Low Level
11.727	H	Tunis	27500	Low Level
11.727	H	Tunisie 21	27500	Low Level
11.747	V	A Thuraya	27500	Low Level
11.747	V	AAKAR	27500	Low Level
11.747	V	Al Jawhara TV	27500	Advertisement
11.747	V	Alkawthar	27500	Low Level
11.747	V	ASNshop	27500	Low Level
11.747	V	Oman	27500	Low Level
11.747	V	Oyoun Jeddah	27500	Low Level
11.747	V	Saudi 1	27500	Low Level
11.747	V	Saudi 2	27500	Low Level
11.747	V	Tayba TV	27500	Low Level
11.747	V	Test	27500	Low Level
11.785	V	A1 Shop	27500	News + Series
11.785	V	El Emarah	27500	Low Level
11.785	V	Future USA	27500	Quality Entertain.
11.785	V	Ghinwa	27500	News + Series
11.785	V	Sahm TV	27500	Low Level
11.785	V	Strike	27500	News + Series
11.785	V	Test 1	27500	News + Series
11.785	V	Test 10	27500	Low Level
11.785	V	Test 11	27500	Low Level
11.785	V	Test 12	27500	News + Series
11.785	V	Test 13	27500	Low Level
11.785	V	Test 15	27500	Low Level
11.785	V	Test 5	27500	News + Series
11.785	V	Test 6	27500	Low Level
11.785	V	Test 8	27500	Low Level
11.804	H	A1 Shop	27500	Advertisement
11.804	H	ABU DHABI-A	27500	Low Level
11.804	H	ABU DHABI-E	27500	Low Level
11.804	H	AD Sports	27500	Low Level
11.804	H	AL Emarat	27500	Low Level
11.804	H	AlQuds TV	27500	Low Level
11.804	H	El Emarah	27500	Advertisement
11.804	H	Future USA	27500	Advertisement
11.804	H	Ghinwa	27500	Advertisement
11.804	H	Poet	27500	Low Level
11.804	H	Sahm TV	27500	Advertisement
11.804	H	SHARJAH TV	27500	Low Level
11.804	H	Strike	27500	Advertisement
11.804	H	Test 1	27500	Low Level
11.804	H	Test 10	27500	Advertisement
11.804	H	Test 11	27500	Advertisement
11.804	H	Test 12	27500	Advertisement
11.804	H	Test 13	27500	Advertisement
11.804	H	Test 15	27500	Advertisement
11.804	H	Test 2	27500	Low Level
11.804	H	Test 3	27500	Low Level
11.804	H	Test 5	27500	Advertisement
11.804	H	Test 6	27500	Advertisement
11.804	H	Test 8	27500	Advertisement
11.804	H	Training	27500	Advertisement
11.843	H	Al-Resaala	27500	Low Level
11.843	H	Arabsat Promotion Ch	27500	Advertisement
11.843	H	Fox Movies	27500	Low Level
11.843	H	Info.Mohammd	27500	Low Level
11.843	H	Rotana Cinema	27500	Low Level
11.843	H	Rotana Clip	27500	Low Level
11.843	H	Rotana Khalijiah	27500	Low Level
11.843	H	Rotana Music	27500	Low Level
11.843	H	Rotana Tarab	27500	Low Level
11.843	H	Rotana Zaman	27500	Low Level
11.843	H	test	27500	Low Level
11.862	V	A lpha Shop	27500	Low Level
11.862	V	AL JAZEERA CHILDR	27500	News + Series
11.862	V	Montada	27500	Low Level
11.862	V	Najah	27500	Low Level
11.862	V	Oman TV2	27500	Low Level
11.862	V	Rawae	27500	Low Level
11.862	V	Scope TV	27500	Low Level
11.862	V	Sehraya TV	27500	Advertisement
11.862	V	Test 2	27500	Low Level
11.862	V	Test 3	27500	Low Level
11.862	V	Test4	27500	Low Level
11.862	V	Yara TV	27500	Low Level
12.015	V	Al-EKhbaria	27500	Quality Entertain.
12.015	V	Saudi Sport	27500	Quality Entertain.
12.015	V	Saudi TV	27500	News + Series
12.015	V	Saudi-1	27500	Quality Entertain.
12.015	V	Saudi-2	27500	Quality Entertain.

BADR04KB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.823	V	AlManar	27500	Quality Entertain.
11.823	V	Future News	27500	Quality Entertain.
11.823	V	Future TV	27500	Quality Entertain.
11.823	V	Future USA	27500	Quality Entertain.
11.823	V	LBCI	27500	Quality Entertain.
11.823	V	OTV	27500	Quality Entertain.
11.823	V	Star Academy	27500	Quality Entertain.
11.823	V	TeleLiban	27500	Quality Entertain.
11.823	V	test 5	27500	News + Series
11.823	V	Thane Express	27500	News + Series
11.919	H	MBC Int	27500	News + Series
11.919	H	AL-Arabiya	27500	News + Series
11.919	H	MBC Action	27500	Quality Entertain.
11.919	H	MBC MAX	27500	News + Series
11.919	H	MBC Persia	27500	Quality Entertain.
11.919	H	MBC1	27500	Quality Entertain.
11.919	H	MBC2	27500	Quality Entertain.
11.919	H	MBC3	27500	News + Series
11.919	H	MBC4	27500	Quality Entertain.
11.919	H	TXT TV	27500	Low Level
11.919	H	Wanasah	27500	News + Series
11.938	V	1st Forex TV	27500	Advertisement
11.938	V	Al Hakim TV	27500	Advertisement
11.938	V	Al Hurra	27500	Home Cinema
11.938	V	Al Hurra Iraq	27500	Home Cinema
11.938	V	AlManar TV	27500	Quality Entertain.
11.938	V	Bab El Mawada	27500	Low Level
11.938	V	Beeaty TV	27500	Advertisement
11.938	V	Dreams Academy	27500	Advertisement
11.938	V	ETN Somalian TV	27500	Low Level
11.938	V	Fanoos	27500	News + Series
11.938	V	Hamsa	27500	Advertisement
11.938	V	OTV	27500	Quality Entertain.
11.938	V	Rayhana TV	27500	Advertisement
11.938	V	Romanceya TV	27500	Advertisement
11.938	V	Shefaa TV	27500	Low Level
11.938	V	TEST	27500	Advertisement
11.938	V	Test2	27500	News + Series
11.938	V	U-Mark	27500	News + Series
11.957	H	HD VISIO TV	27500	Home Cinema
11.957	H	LUXE TV HD	27500	Home Cinema
11.957	H	Melody Zen HD	27500	Home Cinema
11.957	H	HD VISIO TV2	27500	News + Series
11.957	H	TEST	27500	Low Level
11.958	H	HD VISIO TV	27500	Home Cinema
11.958	H	LUXE TV HD	27500	Home Cinema
11.958	H	Melody Zen HD	27500	Home Cinema
11.958	H	HD VISIO TV2	27500	News + Series
11.958	H	TEST	27500	Advertisement
11.976	V	Al Watan Galta	27500	News + Series
11.976	V	Al Watan Plus	27500	Quality Entertain.
11.976	V	Al Watan TV	27500	Quality Entertain.
11.976	V	Rawasy	27500	News + Series
11.996	H	Al Jazeera	27500	Advertisement
11.996	H	AlAlam	27500	Quality Entertain.
11.996	H	AlMustakillah	27500	Quality Entertain.
11.996	H	Arabsat Promotion Ch	27500	Quality Entertain.
11.996	H	BBC Arabic	27500	Quality Entertain.
11.996	H	CNBC Arabiya	27500	Quality Entertain.
11.996	H	France 24 (in Arabic	27500	Quality Entertain.
11.996	H	Rusiya Al-Yaum	27500	News + Series
11.996	H	TEST	27500	Advertisement
12.034	H	AL JAZEERA CHILDR	27500	Quality Entertain.
12.034	H	Alkass	27500	Home Cinema
12.034	H	JSC	27500	Quality Entertain.
12.034	H	JSC Documentary	27500	Quality Entertain.
12.034	H	JSC English	27500	Quality Entertain.
12.034	H	JSC Mubasher	27500	Quality Entertain.
12.034	H	JSC Sports	27500	Quality Entertain.
12.034	H	JSC Test	27500	
12.034	H	Qatar TV	27500	Quality Entertain.
12.053	V	Addounia TV	27500	News + Series
12.053	V	AlAqsa	27500	News + Series
12.053	V	AlRai	27500	Quality Entertain.
12.053	V	Awtan	27500	News + Series
12.053	V	Jordan TV	27500	Quality Entertain.
12.053	V	KBS W	27500	Quality Entertain.
12.053	V	Khabar	27500	News + Series
12.053	V	Live TV	27500	News + Series
12.053	V	Press TV	27500	Quality Entertain.
12.053	V	Syria TV	27500	Quality Entertain.
12.053	V	Syrian Drama TV	27500	News + Series
12.072	H	Aalam Hawaa	27500	Low Level
12.072	H	Al Hiwar TV	27500	News + Series
12.072	H	Allibiya Satellite C	27500	News + Series
12.072	H	ANB TV	27500	News + Series
12.072	H	Arabsat Promotion Ch	27500	Quality Entertain.
12.072	H	BBC World Middle E	27500	Quality Entertain.
12.072	H	ETNTV	27500	Low Level
12.072	H	Euronews	27500	News + Series
12.072	H	Funoon TV	27500	News + Series
12.072	H	LUXE.TV Arabia	27500	News + Series
12.072	H	MTV Lebanon	27500	Quality Entertain.
12.072	H	NHK World	27500	Quality Entertain.
12.072	H	Seha TV	27500	Advertisement
12.072	H	TEST	27500	Advertisement
12.072	H	TV5 Monde Orient	27500	Quality Entertain.
12.073	H	Aalam Hawaa	27500	Low Level
12.073	H	Al Hiwar TV	27500	News + Series
12.073	H	Allibiya Satellite C	27500	News + Series
12.073	H	ANB TV	27500	News + Series
12.073	H	Arabsat Promotion Ch	27500	Quality Entertain.
12.073	H	BBC World Middle E	27500	Quality Entertain.
12.073	H	ETNTV	27500	Low Level
12.073	H	Euronews	27500	News + Series
12.073	H	Funoon TV	27500	News + Series
12.073	H	LUXE.TV Arabia	27500	News + Series
12.073	H	MTV Lebanon	27500	Quality Entertain.
12.073	H	NHK World	27500	Quality Entertain.
12.073	H	Seha TV	27500	Advertisement
12.073	H	TEST	27500	Advertisement
12.073	H	TV5 Monde Orient	27500	Quality Entertain.
12.092	V	AL MOJTAMA	27500	News + Series
12.092	V	Al Wasat TV	27500	News + Series
12.092	V	ALDAFRAH Music	27500	Quality Entertain.
12.092	V	Creative City	27500	News + Series
12.092	V	Dunia TV	27500	News + Series
12.092	V	EBONY TV	27500	News + Series
12.092	V	Fujairah Media 12	27500	Advertisement
12.092	V	Fujairah Media 13	27500	News + Series
12.092	V	Orient	27500	News + Series
12.092	V	SAHAR TV	27500	News + Series
12.092	V	Shaer al Rasoul	27500	News + Series
12.092	V	TEAM TV	27500	Advertisement
12.092	V	Zoal TV	27500	News + Series
12.111	H	Al Eqtisadia TV	27500	News + Series
12.111	H	ALAAN TV	27500	News + Series
12.111	H	ARIRANG	27500	Home Cinema
12.111	H	ASHOROOQ TV	27500	Quality Entertain.
12.111	H	Decision Makers Tv	27500	News + Series
12.111	H	DUBAI RACING	27500	Quality Entertain.
12.111	H	Dubai Sports 2	27500	Quality Entertain.
12.111	H	INFINITY 2	27500	Quality Entertain.
12.111	H	Jawna	27500	Low Level
12.111	H	SHARAQIYA	27500	Quality Entertain.
12.111	H	Test	27500	Quality Entertain.
12.130	V	4FUN	27500	Low Level
12.130	V	Al Haqiqa	27500	News + Series
12.130	H	AL-Adalah 2	27500	Quality Entertain.
12.130	H	ALBAGHDADIA	27500	Quality Entertain.
12.130	V	Albairaq	27500	News + Series
12.130	H	ALhayat	27500	Quality Entertain.
12.130	H	Amwaj	27500	News + Series
12.130	H	Bedayah Nesaaya TV	27500	News + Series
12.130	H	Daleel	27500	News + Series
12.130	V	Dubai One	27500	Quality Entertain.
12.130	V	Dubai Sport	27500	News + Series
12.130	V	Dubai TV	27500	Quality Entertain.
12.130	H	FUNoon Plus	27500	Quality Entertain.
12.130	H	Hayatouna TV	27500	News + Series
12.130	V	IQRA	27500	News + Series
12.130	V	Marasil	27500	Low Level
12.130	V	Nilat	27500	News + Series
12.130	H	Safa TV	27500	News + Series
12.130	V	Sama Dubai	27500	Quality Entertain.
12.130	V	Sehaa TV	27500	News + Series
12.130	H	Test	27500	News + Series
12.130	H	Wtanya	27500	News + Series
12.149	H	AL-Adalah 2	27500	Quality Entertain.
12.149	H	ALBAGHDADIA	27500	Quality Entertain.
12.149	H	ALhayat	27500	Quality Entertain.
12.149	H	Amwaj	27500	News + Series
12.149	H	Bedayah Nesaaya TV	27500	News + Series
12.149	H	Daleel	27500	News + Series
12.149	H	FUNoon Plus	27500	Quality Entertain.
12.149	H	Hayatouna TV	27500	News + Series
12.149	H	Safa TV	27500	News + Series
12.149	H	Test	27500	Low Level
12.149	H	Wtanya	27500	News + Series
12.167	V	Al Dawliya	27500	Quality Entertain.
12.167	V	Ghiras TV	27500	News + Series
12.167	V	MTV ARABIA	27500	Quality Entertain.
12.167	V	Nickelodeon	27500	Quality Entertain.
12.167	V	NOOR DUBAI	27500	Quality Entertain.
12.167	V	Test 1	27500	News + Series
12.167	V	Test 2	27500	Quality Entertain.
12.167	V	Test 3	27500	Quality Entertain.
12.167	V	Test 4	27500	Quality Entertain.
12.167	V	Test 5	27500	Quality Entertain.
12.182	H	AL-EYMAN	16200	Quality Entertain.
12.182	H	SHEBA	16200	Home Cinema
12.182	H	YAMANIA	16200	Quality Entertain.
12.182	H	YEMEN	16200	Quality Entertain.
12.206	V	Aalam Hawaa	27500	Low Level
12.206	V	Al-Iraqia	27500	News + Series
12.206	V	PEACE TV	27500	Quality Entertain.
12.206	V	PSC	27500	News + Series
12.206	V	Qatar TV	27500	Quality Entertain.
12.206	V	RTD Djibouti	27500	News + Series
12.206	V	Sehraya	27500	Low Level
12.206	V	Shada2	27500	Low Level
12.206	V	SSTV	27500	News + Series
12.206	V	Sudan TV	27500	Quality Entertain.
12.206	V	Tayba TV	27500	News + Series
12.206	V	Test 1	27500	News + Series
12.226	H	Bahrain 55	27500	Quality Entertain.
12.226	H	Bahrain Sport	27500	Quality Entertain.
12.226	H	Bahrain Sport 2	27500	Quality Entertain.
12.226	H	Bahrain TV	27500	Quality Entertain.
12.226	H	Test 2	27500	News + Series
12.226	H	Test 3	27500	News + Series
12.226	H	Test 4	27500	News + Series
12.226	H	Test 5	27500	News + Series
12.226	H	Test 6	27500	News + Series
12.226	H	Test 7	27500	News + Series
12.284	V	ABWAB.TV	27500	Advertisement
12.284	V	Academy	27500	News + Series
12.284	V	Almadina TV	27500	Advertisement
12.284	V	Almaha TV	27500	Advertisement
12.284	V	AlOmma TV	27500	Advertisement
12.284	V	ATLAS MOROCCO TV	27500	Advertisement
12.284	V	Eretria	27500	News + Series
12.284	V	Ethiopia	27500	Quality Entertain.
12.284	V	Future TV	27500	News + Series
12.284	V	Future USA	27500	Quality Entertain.
12.284	V	Mauritania TV	27500	Quality Entertain.
12.284	V	Rawae TV	27500	News + Series
12.284	V	Scope TV	27500	News + Series
12.284	V	Shada	27500	News + Series
12.284	V	Smart Ad	27500	Advertisement
12.284	V	Syrian Education	27500	Quality Entertain.
12.284	V	YOOYA	27500	Low Level
12.302	H	Aamal	27500	Low Level
12.302	H	Douaa	27500	Low Level
12.302	H	Montada	27500	Low Level
12.302	H	Play Maker	27500	Low Level
12.302	H	Rawae TV	27500	Low Level
12.302	H	Ruayh	27500	Low Level
12.302	H	Scope TV	27500	Low Level
12.523	H	KTV AL ARABI	27500	Quality Entertain.
12.523	H	KTV CH1	27500	Quality Entertain.
12.523	H	KTV CH2	27500	Quality Entertain.
12.523	H	KTV CH3	27500	Quality Entertain.
12.523	H	KTV ETHRAA	27500	Quality Entertain.
12.523	H	KTV Quran	27500	Quality Entertain.
12.523	H	KTV S.PLUS	27500	Quality Entertain.
12.523	H	Kuwait Feed	27500	Quality Entertain.

Europe

ASTRA 2A,2B,2C,2D,EUROBIRD 1

28.2 East

AST02ANO



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.759	H	1384	27500	Home Cinema
11.759	H	1483	27500	Home Cinema
11.759	H	1381	27500	News + Series
11.759	H	1382	27500	News + Series
11.759	H	1383	27500	News + Series
11.759	H	1385	27500	Quality Entertain.
11.759	H	1386	27500	News + Series
11.759	H	1387	27500	Quality Entertain.
11.759	H	1388	27500	Low Level
11.759	H	1389	27500	News + Series
11.759	H	1481	27500	News + Series
11.759	H	1482	27500	News + Series
11.759	H	1484	27500	Quality Entertain.
11.759	H	1485	27500	News + Series
11.759	H	1486	27500	Quality Entertain.
11.759	H	1487	27500	Low Level
11.759	H	1488	27500	News + Series
11.759	H	1489	27500	Quality Entertain.
11.778	V	Music Choice	27500	Advertisement
11.836	H	Sky Action	27500	Quality Entertain.
11.836	H	Sky Classics	27500	Quality Entertain.
11.836	H	Sky Comedy	27500	Home Cinema
11.836	H	Sky Drama	27500	Quality Entertain.
11.836	H	Sky Family	27500	Quality Entertain.
11.836	H	Sky Indie	27500	Quality Entertain.
11.836	H	Sky ScFi/Horror	27500	Quality Entertain.
● 11.856	V	Eurosport HD	29500	High Qual. Cinema
● 11.856	V	FX HD	29500	High Qual. Cinema
● 11.856	V	Sky Arts 2 HD	29500	High Qual. Cinema
11.915	H	TV5	27500	Home Cinema
11.934	V	Cust Chan Active	27500	Low Level
11.934	V	Sky Cust Ch	27500	Low Level
11.954	H	BBC ALBA	27500	Quality Entertain.
11.954	H	BBC NEWS	27500	News + Series
11.954	H	BBC PARL'MNT	27500	News + Series
11.954	H	T7 STRM-0	27500	Quality Entertain.
11.954	H	T7 STRM-1	27500	Quality Entertain.
12.149	H	ComedyCtralX	27500	News + Series
12.149	H	Eurosport2 UK	27500	Quality Entertain.
12.149	H	Hallmark	27500	Low Level
12.149	H	S1Test	27500	Home Cinema
12.149	H	Sky Sports 1	27500	Quality Entertain.
12.149	H	Sky Spts News	27500	Quality Entertain.
12.149	H	Sky Spts Xtra	27500	News + Series
12.149	H	SP News	27500	Quality Entertain.
12.168	V	Sky Drama HD	29500	High Qual. Cinema
12.168	V	Sky ScFi/HorHD	29500	High Qual. Cinema
12.168	V	Sky Comedy HD	29500	High Qual. Cinema
12.168	V	Sky MdnGrtsHD	29500	High Qual. Cinema
12.227	H	1837	27500	Low Level
12.227	H	1840	27500	News + Series
12.227	H	1871 SOM Test	27500	Quality Entertain.
12.227	H	KISS	27500	Quality Entertain.
12.227	H	Q	27500	Quality Entertain.
12.227	H	Sky1	27500	Low Level
12.227	H	Sky2	27500	Quality Entertain.
12.227	H	Sky3	27500	News + Series
12.227	H	The Box	27500	Quality Entertain.
12.227	H	CommunityChnl	27500	Low Level
12.246	V	Crime HD	29500	High Qual. Cinema
12.246	V	Sky Action HD	29500	High Qual. Cinema
● 12.246	V	Bio HD	29500	High Qual. Cinema
12.246	V	History HD	29500	High Qual. Cinema
12.246	V	NatGeoWild HD	29500	High Qual. Cinema

AST02ASO



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.720	H	MTVN HD	29500	High Qual. Cinema
11.720	H	Sky Screen 1HD	29500	High Qual. Cinema
11.720	H	Sky Sports HD2	29500	High Qual. Cinema
11.739	V	Bravo	27500	News + Series
11.739	V	Bravo+	27500	News + Series
11.739	V	Bravo+1	27500	Quality Entertain.
11.739	V	Bravo~	27500	News + Series
11.739	V	Challenge	27500	News + Series
11.739	V	Challenge+	27500	News + Series
11.739	V	LIVING	27500	News + Series
11.739	V	LIVING +1	27500	News + Series
11.739	V	LIVING+2	27500	News + Series
11.739	V	LIVING2	27500	Quality Entertain.
11.817	V	Alibi	27500	News + Series
11.817	V	Dave	27500	News + Series
11.817	V	Eden	27500	News + Series
11.817	V	G.O.L.D.	27500	News + Series
11.817	V	Good Food	27500	Quality Entertain.
11.817	V	Home	27500	Quality Entertain.
11.817	V	UK Food~	27500	Quality Entertain.
11.817	V	Uktv Docs~	27500	Quality Entertain.
11.817	V	Watch	27500	News + Series
11.817	V	YeSTERDAY	27500	News + Series
11.876	H	Animal Planet	27500	News + Series
11.876	H	Disc.Knowldge	27500	News + Series
11.876	H	Disc.RealTime	27500	News + Series
11.876	H	Disc.Science	27500	News + Series
11.876	H	Disc.Turbo	27500	Quality Entertain.
11.876	H	Discovery	27500	News + Series
11.876	H	Discovery+1	27500	News + Series
11.876	H	Home & Health	27500	News + Series
11.876	H	Home&Health+	27500	News + Series
11.876	H	Travel & Living	27500	News + Series
● 11.876	H	6211	27500	News + Series
11.895	V	7042	27500	News + Series
11.895	V	Mti	27500	News + Series
11.895	V	MTV	27500	News + Series
11.895	V	MTV BASE	27500	News + Series
11.895	V	MTV DANCE	27500	Quality Entertain.
11.895	V	MTV HITS	27500	News + Series
11.895	V	MTV Trax	27500	Low Level
11.895	V	MTV TWO	27500	News + Series
11.895	V	MTV+1	27500	News + Series
11.895	V	MTV®	27500	News + Series
11.895	V	TMF	27500	News + Series
11.895	V	VH1	27500	News + Series
11.895	V	VH1 Classic	27500	News + Series
12.051	V	Boomerang	27500	Quality Entertain.
12.051	V	Boomerang +1	27500	Quality Entertain.
12.051	V	Cartoon I	27500	Quality Entertain.
12.051	V	Cartoon Netwrk	27500	Quality Entertain.
12.051	V	CN Too	27500	Quality Entertain.
12.051	V	Toonami I	27500	Quality Entertain.
12.051	V	CNN	27500	Quality Entertain.
12.129	V	B4U Movies	27500	Quality Entertain.
12.129	V	7308	27500	Quality Entertain.
12.129	V	B4U Music	27500	News + Series
12.129	V	Create & Craft	27500	News + Series
12.129	V	Ideal World 2	27500	Quality Entertain.
12.129	V	S4C	27500	Quality Entertain.
12.129	V	S4C2	27500	News + Series
12.129	V	Teletext Holidays	27500	News + Series
12.129	V	Teletext Hols	27500	News + Series
12.480	V	12005	27500	Low Level
12.480	V	Channel 4	27500	News + Series
12.480	V	Channel 4 +1	27500	Quality Entertain.
12.480	V	E4	27500	Quality Entertain.
12.480	V	E4+1	27500	Quality Entertain.
12.480	V	More4	27500	News + Series
12.480	V	Brit Asia TV	27500	News + Series
12.480	V	Sikh Channel	27500	News + Series
12.480	V	TT on 4	27500	News + Series

AST02BNO



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.993	H	6103	27500	News + Series
11.993	H	7360	27500	News + Series

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

Cost Conscious Entertainment ..... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.993	H	7601	27500	News + Series
11.993	H	Alibi +1	27500	News + Series
11.993	H	Blighty	27500	Quality Entertain.
11.993	H	Dave ja vu	27500	Quality Entertain.
11.993	H	G.O.L.D. +1	27500	Quality Entertain.
11.993	H	Good Food +1	27500	Quality Entertain.
11.993	H	Home+1	27500	News + Series
11.993	H	Really	27500	News + Series
11.993	H	Uktv Gold+1~	27500	News + Series
11.993	H	Watch +1	27500	News + Series
12.012	V	NRK Super / NRK3	27500	Home Cinema
12.012	V	NRK1	27500	Home Cinema
12.012	V	NRK1 Midtnytt	27500	Quality Entertain.
12.012	V	NRK1 Møre og Romsdal	27500	Quality Entertain.
12.012	V	NRK1 Nordland	27500	Home Cinema
12.012	V	NRK1 Nordnytt	27500	Home Cinema
12.012	V	NRK1 Rogaland	27500	Home Cinema
12.012	V	NRK1 Sørlandet	27500	Home Cinema
12.012	V	NRK1 Tegnspråk	27500	News + Series
12.012	V	NRK1 Vestlandsrevyen	27500	Quality Entertain.
12.012	V	NRK1 Østafjells	27500	Quality Entertain.
12.012	V	NRK1 Østfold	27500	Quality Entertain.
12.012	V	NRK1 Østnytt	27500	Home Cinema
12.012	V	NRK2	27500	Quality Entertain.
12.070	H	4Music	27500	Quality Entertain.
12.070	H	FOX News	27500	News + Series
12.070	H	Kerrang!	27500	News + Series
12.070	H	Magic	27500	Low Level
12.070	H	Sky Arts 2	27500	News + Series
12.070	H	Sky Sports 1	27500	News + Series
12.070	H	Sky Sports 3	27500	Home Cinema
12.070	H	Sky Spts Xtra	27500	Quality Entertain.
12.070	H	Smash Hits!	27500	News + Series
12.090	V	STAR News	27500	News + Series
12.090	V	STAR One	27500	News + Series
12.285	V	Nat Geo+1hr	27500	Home Cinema
● 12.285	V	9009	27500	News + Series
12.285	V	Nat Geo	27500	Quality Entertain.
12.285	V	RealmadridTV	27500	News + Series
12.285	V	Sky 1	27500	Quality Entertain.
12.285	V	Sky Arts 1	27500	News + Series
12.285	V	Sky Screen 1	27500	Quality Entertain.
12.285	V	Sky1	27500	News + Series
12.285	V	yd1oe6	27500	Quality Entertain.
12.285	V	yd2oe6	27500	Home Cinema
12.285	V	{Empty}	27500	News + Series
12.383	H	4301	27500	Low Level
12.383	H	DVD Extras	27500	Quality Entertain.
12.383	H	Sky	27500	Low Level
12.402	V	12199	27500	Quality Entertain.
12.402	V	ITV1 Anglia W	27500	Quality Entertain.
12.402	V	ITV1 Central SW	27500	News + Series
12.402	V	ITV1 Mer N	27500	Quality Entertain.
12.402	V	ITV1 Mer SE	27500	Quality Entertain.
12.402	V	ITV1 TT S	27500	Quality Entertain.
12.402	V	ITV1 Yorks E	27500	Quality Entertain.
12.402	V	ITVi Quad	27500	News + Series
12.461	H	Portal Video 7	27500	Low Level
12.461	H	TV Picks 2009	27500	News + Series

AST02BSO



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.973	V	MAX	27500	Quality Entertain.
11.973	V	Sony TV Asia	27500	Quality Entertain.
11.973	V	FriendlyTV	27500	News + Series
12.031	H	bid tv	27500	Quality Entertain.
12.031	H	Ideal World	27500	Quality Entertain.
12.031	H	QVC	27500	Quality Entertain.
12.031	H	QVC IMM Test	27500	Quality Entertain.
12.031	H	QVC Mosaic Test	27500	Advertisement
12.031	H	QVC Test	27500	Quality Entertain.
12.031	H	QVC TSVNOW	27500	News + Series
● 12.110	H	Cartoonito	27500	Quality Entertain.
12.110	H	FX	27500	News + Series
12.110	H	SBL	27500	News + Series
12.110	H	Sky Sports 1	27500	Home Cinema
12.110	H	Sky Sports 2	27500	Home Cinema
12.110	H	Sky Sports 3	27500	Home Cinema
12.110	H	TCM 2	27500	News + Series
12.188	H	Chelsea TV	27500	Quality Entertain.
12.188	H	ComedyCentral	27500	News + Series
12.188	H	E! Entertainm	27500	Quality Entertain.
12.188	H	Eurosport UK	27500	Home Cinema
12.188	H	Nat Geo Wild	27500	Home Cinema
12.188	H	ShortsTV	27500	Low Level
12.188	H	TCM	27500	Low Level
12.188	H	5705	27500	Low Level
12.188	H	HSSNR	27500	Low Level
12.207	V	Sky News	27500	Home Cinema
12.207	V	Sky News Eire (Cable	27500	News + Series
12.207	V	Sky News UK (Cable)	27500	Quality Entertain.
● 12.265	H	Disney XD+1	27500	Quality Entertain.
12.265	H	Nick Jr Test	27500	Low Level
12.265	H	Nick Jr.	27500	News + Series
12.265	H	Nick Replay	27500	News + Series
12.265	H	Nick Test	27500	Quality Entertain.
12.265	H	Nickelodeon	27500	Quality Entertain.
12.265	H	Nicktoons	27500	Quality Entertain.
12.265	H	Sky Sports 2	27500	Quality Entertain.
● 12.265	H	Portal Video 6	27500	News + Series
12.305	H	1429	27500	Quality Entertain.
12.305	H	Crime	27500	Quality Entertain.
● 12.305	H	Disney XD	27500	Quality Entertain.
● 12.305	H	ESPN	27500	Quality Entertain.
● 12.305	H	Retail Info	27500	Low Level
12.305	H	Sky Vegas	27500	Quality Entertain.
12.305	H	SkyPoker.com	27500	Quality Entertain.
12.305	H	Sky Active Ads	27500	Low Level
● 12.344	H	ESPN HD	29500	High Qual. Cinema
12.344	H	Nat Geo HD	29500	High Qual. Cinema
12.344	H	Sky1 HD	29500	High Qual. Cinema
● 12.363	V	HD Retail Info	29500	High Qual. Cinema
12.363	V	SBO HD1	29500	High Qual. Cinema
12.363	V	SBO HD2	29500	High Qual. Cinema
12.363	V	Sky Sports HD3	29500	High Qual. Cinema
12.441	V	STREAM-0	27500	Quality Entertain.
12.441	V	STREAM-1	27500	Quality Entertain.
12.441	V	STREAM-2	27500	Quality Entertain.
12.441	V	STREAM-3	27500	News + Series
12.441	V	STREAM-4	27500	News + Series
12.441	V	STREAM-5	27500	Home Cinema
12.441	V	STREAM-6	27500	Quality Entertain.

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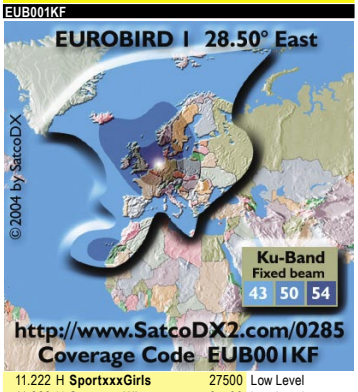
Freq	Pol	Channel Name	Symbol Rate	Programming Type
10.964	H	FIVE	22000	Quality Entertain.
10.964	H	FIVE USA	22000	Home Cinema
10.964	H	FIVE USA+1	22000	Home Cinema
10.964	H	FIVER	22000	Quality Entertain.
10.964	H	FIVER+1	22000	Low Level

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Freq	Pol	Channel Name	Symbol Rate	Programming Type
10.714	H	c4 I	22000	News + Series
10.714	H	Channel 4	22000	Quality Entertain.
10.714	H	Film4	22000	News + Series
10.714	H	Film4 +1	22000	Quality Entertain.
10.714	H	More4 +1	22000	Home Cinema
10.729	V	8389	22000	News + Series
10.729	V	Channel 4 +1	22000	Quality Entertain.
10.729	V	e4	22000	News + Series
10.729	V	E4	22000	News + Series
10.729	V	E4+1	22000	Low Level
10.729	V	More4	22000	News + Series
10.744	H	RTE One	22000	Low Level
10.744	H	RTE TWO	22000	Quality Entertain.
10.744	H	TG4	22000	Home Cinema
10.744	H	TV3	22000	Quality Entertain.
10.744	H	Portal Video	22000	News + Series
10.744	H	Portal Video 1	22000	News + Series
10.744	H	Portal Video 2	22000	News + Series
10.744	H	Portal Video 5	22000	News + Series
10.744	H	Video Application Va	22000	Low Level
● 10.759	V	CITV	22000	Quality Entertain.
10.759	V	ITV1 Anglia E	22000	News + Series
10.759	V	ITV1 Central W	22000	Quality Entertain.
10.759	V	ITV1 Granada	22000	Quality Entertain.
10.759	V	ITV1 London	22000	Home Cinema
10.759	V	ITV2	22000	Home Cinema
10.759	V	ITV4	22000	News + Series
10.759	V	ITVi Stream 44	22000	Low Level
10.773	H	BBC 1 London	22000	News + Series
10.773	H	BBC 1 NI	22000	Quality Entertain.
10.773	H	BBC 2 England	22000	Home Cinema
10.773	H	BBC FOUR	22000	Quality Entertain.
10.773	H	BBC TES 3	22000	Quality Entertain.
10.773	H	BBC THREE	22000	News + Series
● 10.773	H	CBBC Channel	22000	Quality Entertain.
● 10.773	H	CBeebies	22000	News + Series
10.773	H	ETV	22000	Quality Entertain.
● 10.773	H	FIVE	22000	News + Series
10.788	V	BBC 1 E Mids	22000	Quality Entertain.
10.788	V	BBC 1 East (E)	22000	Quality Entertain.
10.788	V	BBC 1 N West	22000	Quality Entertain.
10.788	V	BBC 1 W Mids	22000	Quality Entertain.
10.788	V	BBC 1 Yorks	22000	Quality Entertain.
10.788	V	BBC 1 Yrks&Lin	22000	Quality Entertain.
10.788	V	ETV5	22000	Quality Entertain.
10.803	H	BBC 1 Scotland	22000	Quality Entertain.
10.803	H	BBC 1 Wales	22000	Quality Entertain.
10.803	H	BBC 2 NI	22000	Quality Entertain.
10.803	H	BBC 2 Scotland	22000	Quality Entertain.
10.803	H	BBC 2 Wales	22000	Quality Entertain.
10.803	H	ETV2	22000	Quality Entertain.
10.818	V	BBC 1 NE & C	22000	Quality Entertain.
10.818	V	BBC 1 Oxford	22000	Quality Entertain.
10.818	V	BBC 1 S East	22000	Quality Entertain.
10.818	V	BBC 1 S West	22000	Quality Entertain.
10.818	V	BBC 1 South	22000	Quality Entertain.
10.818	V	BBC 1 West	22000	Quality Entertain.
10.818	V	ETV6	22000	Quality Entertain.
10.832	H	G49	22000	Quality Entertain.
10.832	H	ITV1 Border	22000	Quality Entertain.
10.832	H	ITV1 Central E	22000	Quality Entertain.
10.832	H	ITV1 Central S	22000	Quality Entertain.
10.832	H	ITV1 W Country	22000	Home Cinema
10.832	H	ITV1 Wales	22000	Quality Entertain.
10.832	H	ITV1 West	22000	Quality Entertain.
10.832	H	ITV4+1	22000	Low Level
10.847	V	6945	22000	High Qual. Cinema
10.847	V	BBC HD	22000	High Qual. Cinema
10.847	V	BBC 1 CI	22000	Quality Entertain.
10.847	V	BBC 1 East (W)	22000	Quality Entertain.
10.862	H	DCT (t51)	22000	Quality Entertain.
10.862	H	Disney Chnl	22000	Home Cinema
10.862	H	Disney Chnl+1	22000	Quality Entertain.
10.862	H	Disney Cine	22000	Quality Entertain.
10.862	H	Disney Cine+1	22000	Quality Entertain.
10.862	H	Play Disney	22000	News + Series
10.862	H	Play Disney+	22000	Quality Entertain.
10.877	V	1356	22000	Quality Entertain.
10.877	V	At The Races	22000	News + Series
10.877	V	FX+	22000	News + Series
10.877	V	Sky Real Lives	22000	Low Level
10.877	V	Sky Sports 2	22000	Home Cinema
10.877	V	SkyRealLive+1	22000	News + Series
10.877	V	SkyRealLives2	22000	News + Series
10.877	V	Sky Travel	22000	Quality Entertain.
10.891	H	G53	22000	News + Series
10.891	H	ITV1 Anglia S	22000	Quality Entertain.
10.891	H	ITV1 BorderSco	22000	News + Series
10.891	H	ITV1 Meridian E	22000	News + Series
10.891	H	ITV1 Meridian S	22000	News + Series
10.891	H	ITV1 TT N	22000	Quality Entertain.
10.891	H	ITV1 Yorks W	22000	Quality Entertain.
10.891	H	ITV2+1	22000	Quality Entertain.
10.891	H	Men & Motors	22000	Quality Entertain.
10.906	V	G54	22000	Low Level
10.906	V	ITV Channel Is	22000	Quality Entertain.
10.906	V	ITV3	22000	News + Series
10.906	V	ITV3+1	22000	Low Level
● 10.906	V	STV	22000	Quality Entertain.
10.906	V	UTV	22000	Quality Entertain.
10.921	H	Current TV	22000	Quality Entertain.
10.921	H	NDTV 24x7	22000	News + Series
● 10.921	H	Sky Games	22000	Low Level
10.935	V	1394	22000	Home Cinema
10.935	V	1391	22000	Quality Entertain.
10.935	V	1392	22000	Low Level
10.935	V	1393	22000	Low Level
10.935	V	1395	22000	Quality Entertain.
10.935	V	1396	22000	Quality Entertain.
10.935	V	1397	22000	Low Level
10.935	V	1398	22000	Quality Entertain.
10.935	V	1399	22000	Low Level
10.935	V	1471	22000	Low Level
10.935	V	1472	22000	News + Series
10.935	V	1473	22000	Home Cinema
10.935	V	1474	22000	Quality Entertain.
10.935	V	1475	22000	News + Series
10.935	V	1476	22000	Low Level
10.935	V	1477	22000	Quality Entertain.
10.935	V	1478	22000	Low Level
10.935	V	{Empty}	22000	Quality Entertain.
● 11.390	H	Animal Plnt+1	27500	News + Series
● 11.390	H	Disc.Know.+1	27500	News + Series
● 11.390	H	Disc.RT+1	27500	News + Series
● 11.390	H	Disc.Sci+1	27500	News + Series
● 11.390	H	Discovery Shed	27500	Quality Entertain.
● 11.390	H	DMAX	27500	News + Series
● 11.390	H	DMAX+1	27500	Quality Entertain.
● 11.390	H	DMAX+1.5	27500	News + Series
● 11.390	H	DMAX+2	27500	News + Series
11.390	H	Investigation	27500	News + Series
11.428	H	Brit Shorts	27500	News + Series
11.797	H	Channel 4 HD	29500	High Qual. Cinema
11.797	H	Sky Sports HD1	29500	High Qual. Cinema
11.797	H	SkyRealLiveHD	29500	High Qual. Cinema
12.324	V	Disney Cine HD	29500	High Qual. Cinema
12.324	V	Sky Arts 1 HD	29500	High Qual. Cinema
12.324	V	Discovery HD	29500	High Qual. Cinema
12.324	V	SCI FI HD	29500	High Qual. Cinema
12.607	V	Rush HD	27500	High Qual. Cinema
12.607	H	Gay TV	27500	News + Series
● 12.607	H	Primetime	27500	News + Series
12.607	H	redhot 40+	27500	News + Series
12.607	H	redhot amateur	27500	News + Series
12.607	H	redhot fetish	27500	News + Series
● 12.607	H	redhot TV	27500	News + Series
12.607	H	Television X	27500	News + Series
12.607	H	TVX Amateur	27500	News + Series
12.607	H	TVX Brits	27500	News + Series
12.607	V	Zee Cinema	27500	News + Series
12.607	V	Zee Punjabi	27500	Quality Entertain.
12.607	V	Zee TV	27500	Quality Entertain.
12.607	H	Cream	27500	Low Level
12.607	H	Dirty Talk	27500	News + Series
12.607	H	Filth	27500	Low Level
● 12.607	H	LA Muscle TV	27500	Low Level
● 12.607	V	Zing	27500	Quality Entertain.
12.643	H	Luxe TV HD	27500	High Qual. Cinema
12.643	V	ComedyCtrl+1	27500	News + Series
12.643	V	Military	27500	News + Series
12.643	V	Nick Jr	27500	News + Series
12.643	V	Nickelodeon	27500	Quality Entertain.
12.643	V	The Style Ntwk	27500	News + Series
12.643	V	1896	27500	News + Series
12.643	V	54350	27500	News + Series
12.643	H	Body In Balance	27500	Low Level
12.643	V	Elite TV	27500	Quality Entertain.
12.643	H	HiTV	27500	News + Series
12.643	H	Jackpot	27500	News + Series
12.643	H	LOVEWORLD TV	27500	News + Series
12.643	H	Luxe TV	27500	News + Series
● 12.643	V	MATV National	27500	News + Series
12.643	H	Music India	27500	News + Series
12.643	H	Noor TV	27500	News + Series
12.643	V	OceanFinance	27500	News + Series
● 12.643	V	Pitch TV	27500	News + Series
● 12.643	V	Pitch World	27500	News + Series
12.643	V	Teachers TV	27500	Quality Entertain.
● 12.643	H	Up & Coming TV	27500	News + Series
12.643	V	World Movies	27500	News + Series
12.690	V	BET +1	27500	News + Series
12.690	V	Channel AKA	27500	News + Series
12.690	V	Film24	27500	News + Series
12.690	V	MATV National	27500	News + Series
12.690	V	Pitch TV	27500	News + Series
12.690	V	Pitch World	27500	Low Level
12.690	V	Sunrise TV	27500	News + Series
12.690	V	Wonderful	27500	Low Level

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Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.222	H	SportxxxGirls	27500	Low Level
11.222	H	SportxxxWives	27500	Low Level
● 11.222	H	BET +1	27500	News + Series
11.222	H	CelebrityShop	27500	News + Series
11.222	H	Chat Box	27500	Low Level
11.222	H	Clubland TV	27500	Low Level
11.222	H	Controversial tv	27500	News + Series
11.222	H	Fashion TV	27500	News + Series
● 11.222	H	Gems.tv 3	27500	News + Series
11.222	H	Get Lucky TV	27500	News + Series
11.222	H	Northern Birds	27500	Low Level
● 11.222	H	Press TV	27500	News + Series
11.222	H	ROCKWORLDTV	27500	Low Level
● 11.222	H	The Other Side	27500	Low Level
11.222	H	UCB TV	27500	Quality Entertain.
● 11.222	H	UMMAH CHNL	27500	News + Series
11.222	H	Zone Horror+1	27500	Low Level
11.224	V	Nollywood	27500	News + Series
11.224	V	SAB TV	27500	Quality Entertain.
11.224	V	Sahara One	27500	News + Series
● 11.224	V	ALL NEW PLAYJAM G	27500	Advertisement
11.224	V	jazeerachildren	27500	Quality Entertain.
11.224	V	movies4men	27500	Quality Entertain.
11.224	V	movies4men 2	27500	News + Series
● 11.224	V	MSK	27500	News + Series
● 11.224	V	MSK Extra	27500	News + Series
11.224	V	oMusic TV	27500	News + Series
11.224	V	PTV Global	27500	Quality Entertain.
11.260	V	AAJ TAK	27500	News + Series
11.260	V	Genesis	27500	News + Series
11.260	V	Gospel Channel	27500	News + Series
11.260	V	mov4men2 +1	27500	News + Series
11.260	V	NTV	27500	News + Series
11.260	V	Open Access	27500	Advertisement
11.260	V	Open Access 2	27500	Advertisement
11.260	V	Open Access 3	27500	Advertisement
● 11.260	V	Quizchannel	27500	News + Series
11.260	V	revelation	27500	News + Series
11.260	V	Rural TV	27500	Quality Entertain.
11.260	V	SmartLive	27500	News + Series
● 11.260	V	Unexplained	27500	News + Series
11.261	H	3e	27500	News + Series
11.261	H	Africa Channel	27500	Quality Entertain.
11.261	H	CNBC	27500	News + Series
11.261	H	Crime+1	27500	News + Series
11.261	H	STAR Gold	27500	News + Series
11.261	H	STAR Plus	27500	Low Level
11.261	H	DM Digital	27500	News + Series
11.261	H	Gay Network	27500	Low Level
11.261	H	Max TV	27500	News + Series
11.261	H	Thane Direct	27500	News + Series
● 11.261	H	Travel Ch +1	27500	News + Series
● 11.261	H	Wonderful	27500	Low Level
11.261	H	Zone Horror	27500	Low Level
11.261	H	Zone Reality +1	27500	Quality Entertain.
11.307	H	Bravo 2	27500	News + Series
11.307	H	Challenge+1	27500	News + Series
11.307	H	LIVING	27500	News + Series
11.307	H	LIVING2 +1	27500	News + Series
11.307	V	Motors TV	27500	Quality Entertain.
11.307	V	MUTV	27500	News + Series
11.307	V	NigeriaMovies	27500	Low Level
11.307	H	Virgin 1	27500	Quality Entertain.
11.307	H	Virgin 1+1	27500	Quality Entertain.
11.307	V	XPLICIT XXX	27500	Low Level
11.307	V	YeSTERDAY+1	27500	News + Series
11.307	V	Aastha TV	27500	News + Series
11.307	V	BET	27500	Quality Entertain.
● 11.307	V	Club Paradiso	27500	News + Series
11.307	V	High Street TV	27500	News + Series
11.307	V	Ideal World 3	27500	News + Series
11.307	V	Jewellery Ch.	27500	Quality Entertain.

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.307	H	NTAI	27500	News + Series
11.307	H	propeller	27500	News + Series
11.343	V	ComedyCtIX+1	27500	News + Series
● 11.343	V	N'toons Replay	27500	Quality Entertain.
● 11.343	V	Ahlulbayt TV	27500	News + Series
11.343	V	AT	27500	News + Series
11.343	V	Babestation	27500	News + Series
11.343	V	Babeworld.tv	27500	News + Series
11.343	V	Cupid TV	27500	Advertisement
● 11.343	V	House Of Fun	27500	News + Series
11.343	V	Lucky Star	27500	News + Series
11.343	V	My Channel	27500	News + Series
11.343	V	NDTV Imagine	27500	News + Series
11.343	V	Psychic TV	27500	Low Level
11.343	V	SA Direct	27500	Advertisement
11.343	V	Starz TV	27500	News + Series
11.343	V	WatchmeTV.TV	27500	News + Series
11.343	V	ZoneRomantica	27500	News + Series
● 11.345	H	ESPN Classic	27500	Home Cinema
11.345	H	Nick Jr. 2	27500	Quality Entertain.
● 11.345	H	43270	27500	Low Level
● 11.345	H	53260	27500	Low Level
11.345	H	Bangla TV	27500	News + Series
11.345	H	Blue Kiss TV	27500	News + Series
11.345	H	Essex Babes	27500	News + Series
11.345	H	Hidayat TV	27500	Low Level
11.345	H	KBC	27500	News + Series
11.345	H	LA Babes	27500	News + Series
11.345	H	LivexxxBabes	27500	Low Level
● 11.345	H	Sumo TV	27500	News + Series
● 11.345	H	wedding tv	27500	News + Series
● 11.389	H	Animal Plnt+1	27500	Quality Entertain.
● 11.389	H	Disc.Know.+1	27500	News + Series
● 11.389	H	Disc.RT+1	27500	Quality Entertain.
● 11.389	H	Disc.Sci+1	27500	Quality Entertain.
● 11.389	H	Discovery Shed	27500	News + Series
● 11.389	H	DMAX	27500	Quality Entertain.
● 11.389	H	DMAX+1	27500	Quality Entertain.
● 11.389	H	DMAX+1.5	27500	Quality Entertain.
● 11.389	H	DMAX+2	27500	Quality Entertain.
11.389	H	Investigation	27500	News + Series
11.390	V	Adult Channel	27500	News + Series
11.390	V	Climax3 - 1	27500	News + Series
11.390	V	Climax3 - 2	27500	News + Series
11.390	V	Climax3 - 3	27500	News + Series
11.390	V	movies24	27500	News + Series
11.390	V	movies24+	27500	News + Series
11.390	V	Playboy TV	27500	News + Series
11.390	V	Spice Extreme	27500	News + Series
● 11.390	V	Top Shelf TV	27500	News + Series
11.390	V	ARY News	27500	News + Series
11.390	V	Dating Channel	27500	Low Level
● 11.390	V	Elite	27500	News + Series
11.426	V	AAG	27500	News + Series
11.426	V	ARY QTV	27500	Low Level
11.426	V	Diva TV	27500	News + Series
11.426	V	GEO UK	27500	News + Series
11.426	V	9XM	27500	News + Series
11.426	V	Bloomberg	27500	Quality Entertain.
11.426	V	Glory TV	27500	Low Level
11.426	V	Jackpot Games	27500	Low Level
11.426	V	KICC TV	27500	News + Series
11.426	V	OBE	27500	News + Series
11.426	V	price-drop tv	27500	News + Series
● 11.426	V	Screenshop2	27500	Low Level
11.426	V	speedauctiontv	27500	News + Series
11.426	V	Venus TV	27500	Low Level

EUB001S1



11.469	H	History +1 hour	27500	Quality Entertain.
● 11.488	V	Quest	27500	News + Series
● 11.488	V	Setanta Sports1	27500	Quality Entertain.
11.488	V	ATN	27500	News + Series
11.488	V	Channel 'S'	27500	News + Series
● 11.488	V	IQRA TV	27500	News + Series
● 11.488	V	Peace TV	27500	Quality Entertain.
● 11.488	V	Peace TV Urdu	27500	Quality Entertain.
11.508	H	8N2	27500	Low Level
11.508	H	9328	27500	Low Level
11.508	H	EIA2 Test 5	27500	Low Level
11.508	H	ISM Test1 v5	27500	Low Level
11.508	H	Pub Channel	27500	News + Series
● 11.508	H	SOM Trigger Test	27500	Low Level
11.508	H	Vegas Elvis	27500	Low Level
11.527	V	ComedyCentral	27500	News + Series
11.527	V	Eden+1	27500	Quality Entertain.
11.527	V	Extreme Sports	27500	News + Series
11.527	V	Channel M	27500	Quality Entertain.
11.527	V	GayDateTV	27500	News + Series
11.527	V	Tease Me	27500	News + Series
11.527	V	Tease Me 2	27500	News + Series
11.527	V	Tease Me 3	27500	News + Series
11.527	V	Thomas Cook	27500	Quality Entertain.
11.546	H	ARY Digital	27500	News + Series
11.546	H	Cinémoi movies	27500	News + Series
11.546	H	ComedyCtrl+1	27500	News + Series
11.546	H	GEO News	27500	News + Series
11.546	H	AVAGO (Cable)	27500	News + Series
11.546	H	AvaTest	27500	News + Series
● 11.546	H	Beverly Hills TV	27500	News + Series
11.546	H	Faith	27500	News + Series
11.546	H	Gala TV	27500	News + Series
11.546	H	Monte Carlo TV	27500	News + Series
11.546	H	Over 18 TV	27500	News + Series
11.546	H	Punjjabi TV	27500	Advertisement
11.546	H	Shop on TV	27500	News + Series
● 11.565	V	DVD Extras	27500	Quality Entertain.
● 11.565	V	MMS Main	27500	Low Level
● 11.565	V	Sky	27500	News + Series
11.585	H	ESPN America	27500	Quality Entertain.
11.585	H	LiverpoolFCTV	27500	Quality Entertain.
11.585	H	Racing UK	27500	Quality Entertain.
11.585	H	Setanta Ireland	27500	Quality Entertain.
● 11.585	H	Channel AKA	27500	Low Level
● 11.585	H	Entrepreneur	27500	Low Level
● 11.585	H	Film24	27500	News + Series
● 11.585	H	SupremeMastr	27500	Quality Entertain.
11.604	V	Bio	27500	Quality Entertain.
11.604	V	History	27500	Low Level
11.604	V	Sky Mdn Greats	27500	Quality Entertain.
11.604	V	Sky Prem+1	27500	Quality Entertain.
11.604	V	Sky Premiere	27500	Quality Entertain.
11.604	V	Sky Screen 2	27500	Quality Entertain.
11.623	H	BabyTV	27500	News + Series
11.623	H	Diva TV +1	27500	Quality Entertain.
11.623	H	SCI FI +1	27500	Quality Entertain.
11.623	H	Abu Dhabi TV	27500	Quality Entertain.
11.623	H	PCNE Chinese	27500	News + Series
11.623	H	PTV Prime	27500	News + Series
11.623	H	Russia Today	27500	News + Series
● 11.642	V	?TV	27500	News + Series
● 11.642	V	?TV +1	27500	News + Series
11.642	V	Bliss	27500	News + Series
11.642	V	Chart Show TV	27500	News + Series
11.642	V	Flaunt	27500	News + Series
11.642	V	Flava	27500	News + Series
11.642	V	Kix!	27500	Low Level
11.642	V	NME TV	27500	News + Series
11.642	V	POP	27500	News + Series
11.642	V	PopGirl	27500	Low Level
11.642	V	PopGirl +1	27500	Low Level
11.642	V	Scuzz	27500	News + Series
11.642	V	The Vault	27500	Low Level
11.642	V	Tiny Pop	27500	News + Series
11.642	V	Tiny Pop +1	27500	Low Level
● 11.642	V	True Ent	27500	Low Level
11.642	V	True Movies	27500	Low Level
11.642	V	True Movies 2	27500	News + Series
11.662	H	SouthForYou	27500	News + Series
11.662	H	CCTV-9	27500	News + Series
● 11.662	H	France 24	27500	Quality Entertain.
11.662	H	Inspiration	27500	News + Series
11.662	H	mta-muslim tv	27500	Quality Entertain.
11.662	H	SuperCasino	27500	News + Series
11.662	H	Word Network	27500	News + Series
11.681	V	Hallmark +1	27500	Quality Entertain.
11.681	V	SCI FI	27500	News + Series
11.681	V	Al Jazeera Eng	27500	Quality Entertain.
11.681	V	GOD Channel	27500	News + Series
11.681	V	GOD Europe	27500	News + Series
11.681	V	Islam Channel	27500	News + Series
11.681	V	NHK World TV	27500	Quality Entertain.
11.681	V	TBN Europe	27500	News + Series

EUB001S2



● 12.523	H	55017	27500	News + Series
12.523	H	AIT Int'l	27500	News + Series
12.523	H	BEN	27500	News + Series
12.523	H	DAYSTAR	27500	News + Series
12.523	V	DBN	27500	Low Level
12.523	H	EWTN	27500	Quality Entertain.
12.523	V	Gems.tv 1	27500	Quality Entertain.
12.523	V	Gems.tv 2	27500	Quality Entertain.
12.523	H	Information TV	27500	News + Series
● 12.523	V	JML Active	27500	News + Series
12.523	V	JML Home&DIY	27500	News + Series
12.523	V	JML Lifestyle	27500	Low Level
● 12.523	H	Live 960	27500	News + Series
12.523	H	mov4men+1	27500	News + Series
12.523	H	OHTV	27500	News + Series
12.523	V	Record TV	27500	News + Series
12.523	V	Shop Now TV	27500	Low Level
12.523	V	Stop + Shop	27500	News + Series
● 12.523	V	Sunrise TV	27500	Low Level
12.523	V	TV SHOP	27500	News + Series
12.523	V	Zone Reality	27500	News + Series
12.560	V	BabyFirst	27500	News + Series
12.560	H	Celtic TV	27500	Advertisement
12.560	H	Rangers TV	27500	Advertisement
12.560	H	Setanta Golf	27500	Advertisement
12.560	H	Setanta News	27500	News + Series
12.560	H	Setanta Sports1	27500	Advertisement
12.560	H	Setanta Sports2	27500	Advertisement
12.560	V	Best Direct	27500	Low Level
12.560	V	BestDirect+	27500	Low Level
12.560	V	Euronews	27500	Quality Entertain.
● 12.560	V	Fitness TV	27500	News + Series
12.560	V	Horse & Country	27500	News + Series
● 12.560	V	JML	27500	News + Series
● 12.560	V	JML CookShop	27500	Quality Entertain.
12.560	V	Rocks & Co.	27500	News + Series
12.560	V	Travel Channel	27500	Low Level
12.560	V	Travel Deals	27500	Low Level
12.560	V	wedding tv asia	27500	News + Series
12.560	V	Zone Thriller	27500	News + Series

ARABSAT 2B

30.5 East

ARA02BKU



12.661	V	Almajd 01	27500	

C-Band: ARABSAT 2B

30.6 East

ARA02BMB



3.718	R	Service 2	2593	News + Series
● 4.091	R	RTM_Laayoune	6111	Home Cinema
● 4.097	R	RTM RABAT PN	6111	Home Cinema
● 4.125	R	AL JAZEERA CHILDR	27500	Quality Entertain.
● 4.125	R	Alkass	27500	Home Cinema
● 4.125	R	JSC	27500	Quality Entertain.
● 4.125	R	JSC Documentary	27500	Quality Entertain.
● 4.125	R	JSC English	27500	Quality Entertain.
● 4.125	R	JSC Mubasher	27500	Quality Entertain.
● 4.125	R	JSC Sports	27500	Quality Entertain.
● 4.125	R	JSC Test	27500	Low Level
● 4.125	R	Qatar TV	27500	Quality Entertain.

Europe

ASTRA 1D

31.5 East

AST01DH1

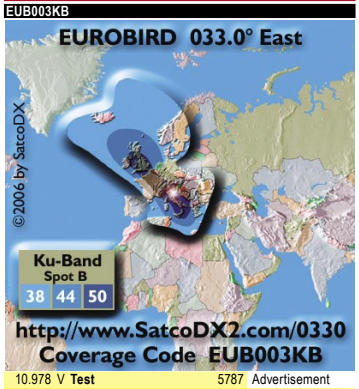


10.995	V	TEMPO -TURK	2222	News + Series
11.008	V	AKSU TV	2150	News + Series
11.014	V	BERAT	4800	News + Series
11.014	V	MMC TURK	4800	News + Series
11.014	V	TEST	4800	Advertisement
11.647	V	KIBRIS ADA TV	2170	News + Series

INTELSAT 802/EUROBIRD 3

33.0 East

EUB003KB



10.978	V	Test	5787	Advertisement
11.140	H	DEM TV	2500	Quality Entertain.
11.144	H	BIZ ISTANBUL_]	2140	Advertisement
11.596	V	BTV	27500	Quality Entertain.
11.596	V	MAP TV	27500	
11.683	H	AKILLI TV	18556	News + Series
11.683	H	CEM TV	18556	News + Series
11.683	H	DIGITURK INFO	18556	Low Level
11.683	H	KANAL A	18556	News + Series
11.683	H	KANAL BİZ	18556	Quality Entertain.
11.683	H	KANAL T	18556	News + Series
11.683	H	SAUDI 1 TV	18556	News + Series

East Europe

EUTELSAT SESAT, EUTELSAT W4

36.0 East

EUT0W4EU



● 11.727	L	Engineer_1	27500	Low Level
11.727	L	Sport 1	27500	Quality Entertain.
11.727	L	Sport 2	27500	News + Series
11.727	L	TBi	27500	News + Series
11.727	L	BIZ TV	27500	News + Series
11.727	L	CHANSON	27500	Quality Entertain.
11.727	L	Che-Pe_INFO	27500	News + Series
● 11.727	L	Expert	27500	News + Series
11.727	L	First Automotive	27500	News + Series
● 11.727	L	Propoker test	27500	News + Series
● 11.727	L	TOPSHOP TV	27500	News + Series
11.727	L	TV3	27500	News + Series
12.072	L	Discovery HD	27500	High Qual. Cinema
12.072	L	HD-Life	27500	High Quality Home
12.072	L	HD-Кино	27500	High Qual. Cinema
12.072	L	Eurosport HD	27500	High Quality Home
12.072	L	HD-Спорт	27500	High Qual. Cinema
● 12.072	L	MTVNHD	27500	High Qual. Cinema
12.175	L	TNV	4340	Quality Entertain.
12.190	L	365 дней	20000	News + Series
12.190	L	Teen TV	20000	Low Level
12.190	L	Автоплюс	20000	News + Series
12.190	L	Веселое ТВ	20000	News + Series
12.190	L	Дом Кино	20000	News + Series
12.190	L	Комедия ТВ	20000	Low Level
12.190	L	Мать и дитя	20000	Low Level
12.190	L	Много ТВ	20000	News + Series
12.190	L	Ночной Клуб	20000	News + Series
12.190	L	Русская Ночь	20000	Low Level
12.190	L	Теленяня	20000	News + Series
12.190	L	Телепутешествия	20000	News + Series
12.226	L	Бибигон	27500	Low Level
12.226	L	Вести	27500	News + Series
12.226	L	ДТВ	27500	News + Series
12.226	L	Культура	27500	Quality Entertain.
12.226	L	МузТВ	27500	News + Series
12.226	L	НТВ	27500	News + Series
12.226	L	Первый	27500	Quality Entertain.
12.226	L	Петербург 5 канал	27500	Quality Entertain.
12.226	L	Рен ТВ	27500	Low Level
12.226	L	Россия	27500	Low Level
12.226	L	Спорт	27500	News + Series
12.226	L	ТВЦ	27500	News + Series
12.226	L	ТНТ	27500	News + Series
12.226	L	ТриколорТВ	27500	Quality Entertain.
12.245	R	BBC World News	27500	News + Series
12.245	R	Bloomberg	27500	News + Series
● 12.245	R	Eurosport 2	27500	Quality Entertain.
12.245	R	Nickelodeon	27500	Quality Entertain.
12.245	R	Russia Today	27500	News + Series
12.245	R	TV5	27500	Quality Entertain.
12.245	R	World Fashion	27500	Quality Entertain.
● 12.245	R	Детский мир/Телеклуб	27500	Low Level
12.245	R	Кинохит	27500	Quality Entertain.

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

Cost Conscious Entertainment .... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

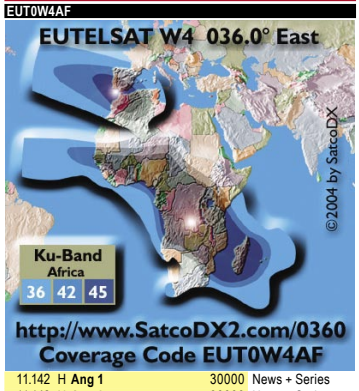
Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
12.245	R	НТВ Мир	27500	Quality Entertain.
12.245	R	Наше новое кино	27500	News + Series
12.265	L	3 канал	27500	News + Series
12.265	L	Rusiya Al-Yaum	27500	News + Series
12.265	L	VH-1 Russia	27500	Quality Entertain.
12.265	L	Бибигон	27500	Advertisement
12.265	L	Дом Кино	27500	News + Series
12.265	L	МИР	27500	Quality Entertain.
12.265	L	Музыка Первого	27500	News + Series
12.265	L	Первый МЕТЕО	27500	News + Series
12.265	L	Петербург - 5 канал	27500	News + Series
12.265	L	РБК-ТВ	27500	News + Series
12.265	L	ТВЦ	27500	News + Series
12.265	L	Теленяня	27500	News + Series
12.265	L	TV SALE	27500	News + Series
12.265	L	Радио Зенит ТЕСТ	27500	Advertisement
12.283	R	5 канал (Украина)	27500	Quality Entertain.
12.283	R	CCTV4	27500	News + Series
12.283	R	CCTV9	27500	News + Series
12.283	R	ICTV	27500	Quality Entertain.
12.283	R	MTV TWO	27500	News + Series
12.283	R	Время: далекое и бли	27500	Quality Entertain.
12.283	R	Мегаспорт	27500	Quality Entertain.
12.283	R	НТН	27500	Quality Entertain.
12.283	R	Парк развлечений	27500	Low Level
12.283	R	Первый канал. Всемир	27500	Quality Entertain.
12.283	R	РТР-Планета	27500	Quality Entertain.
12.283	R	Совершенно секретно	27500	News + Series
12.303	L	Боец ТВ	27500	News + Series
12.303	L	Домашний	27500	News + Series
12.303	L	Зоо ТВ	27500	News + Series
12.303	L	Индия ТВ	27500	Quality Entertain.
12.303	L	Кинопоказ	27500	News + Series
12.303	L	СТС	27500	News + Series
12.303	L	Тонус ТВ	27500	News + Series
12.303	L	7TV	27500	Quality Entertain.
12.303	L	A-ONE	27500	Quality Entertain.
12.303	L	BRIDGE TV	27500	Quality Entertain.
12.303	L	Союз	27500	News + Series
12.322	R	Blue Hustler	27500	News + Series
12.322	R	REN-TV	27500	News + Series
12.322	R	Киноклуб	27500	Quality Entertain.
12.322	R	Кто есть кто	27500	News + Series
12.322	R	Наше кино	27500	Quality Entertain.
12.322	R	Первый	27500	News + Series
12.322	R	Премьера	27500	Quality Entertain.
12.322	R	Спорт	27500	Quality Entertain.
12.322	R	Футбол	27500	News + Series
12.322	R	Инфоканал	27500	News + Series
12.341	L	AXN Sci Fi	27500	News + Series
12.341	L	Gameland.TV	27500	Quality Entertain.
12.341	L	Gulli	27500	News + Series
12.341	L	RU.TV	27500	Quality Entertain.
12.341	L	Sci Fi	27500	News + Series
12.341	L	TiJi	27500	News + Series
12.341	L	Universal	27500	News + Series
12.341	L	Домашний	27500	Advertisement
12.341	L	Кинорейс 1	27500	Home Cinema
12.341	L	Кинорейс 2	27500	Home Cinema
12.341	L	Кинорейс 3	27500	Quality Entertain.
12.341	L	Комеди ТВ	27500	News + Series
12.360	R	AC Milan Channel	27500	High Quality Home
12.360	R	Animal Planet	27500	High Quality Home
12.360	R	AXN-SciFi-Ru	27500	High Quality Home
12.360	R	CNN	27500	High Quality Home
12.360	R	Detskiy Mir/Teleclub	27500	High Quality Home
12.360	R	Discovery Channel	27500	High Quality Home
12.360	R	Eurokino	27500	High Quality Home
12.360	R	Fox Life	27500	High Quality Home
12.360	R	Fox-Crime	27500	High Quality Home
12.360	R	MENU TV	27500	High Quality Home
12.360	R	NatGeo Wild test	27500	High Quality Home
12.360	R	NEWS 24	27500	High Quality Home
12.360	R	RTVi Nashe Kino	27500	High Quality Home
12.360	R	Sci-Fi	27500	High Quality Home
12.360	R	SET Russia	27500	High Quality Home
12.360	R	Sport 3	27500	High Quality Home
12.360	R	Sport 4	27500	High Quality Home
12.360	R	TEST-22	27500	High Quality Home
12.360	R	TET	27500	High Quality Home
12.360	R	TV-21	27500	High Quality Home
12.360	R	Universal	27500	High Quality Home
12.360	R	UT-1	27500	High Quality Home
12.360	R	World Fashion Channe	27500	High Quality Home
12.360	R	Che-Pe_INFO	27500	High Quality Home
12.380	L	365 дней ТВ	27500	Quality Entertain.
12.380	L	Авто Плюс	27500	News + Series
12.380	L	Боец ТВ	27500	News + Series
12.380	L	Закон-ТВ	27500	News + Series
12.380	L	Индия ТВ	27500	Quality Entertain.
12.380	L	Интересное ТВ	27500	News + Series
12.380	L	Комедия ТВ	27500	News + Series
12.380	L	Кухня ТВ	27500	News + Series
12.380	L	Ля-минор ТВ	27500	News + Series
12.380	L	МНОГОсерийное ТВ	27500	News + Series
12.380	L	Русская ночь	27500	News + Series
12.380	L	ТВ Бульвар	27500	News + Series
12.399	R	24ДОК	27500	Low Level
12.399	R	Fashion TV Network	27500	News + Series
12.399	R	MTV Russia	27500	Quality Entertain.
12.399	R	Вести	27500	Quality Entertain.
12.399	R	Звезда	27500	News + Series
12.399	R	Киносоюз	27500	Quality Entertain.
12.399	R	Культура	27500	News + Series
12.399	R	НТВ	27500	Home Cinema
12.399	R	Россия	27500	Quality Entertain.
12.399	R	СТС-Москва	27500	Advertisement
12.399	R	Спас	27500	Low Level
12.399	R	Спорт on-line	27500	Quality Entertain.
12.399	R	ТНТ	27500	News + Series
12.418	L	3 канал	27500	News + Series
12.418	L	Rusiya Al-Yaum	27500	News + Series
12.418	L	TV SALE	27500	Quality Entertain.
12.418	L	VH-1 Russia	27500	Home Cinema
12.418	L	Бибигон	27500	Advertisement
12.418	L	Дом Кино	27500	Quality Entertain.
12.418	L	МИР	27500	News + Series
12.418	L	Музыка Первого	27500	Quality Entertain.
12.418	L	Первый МЕТЕО	27500	News + Series
12.418	L	Петербург - 5 канал	27500	News + Series
12.418	L	РБК-ТВ	27500	Quality Entertain.
12.418	L	ТВЦ	27500	News + Series
12.418	L	Теленяня	27500	News + Series
12.437	R	NBA TV	27500	Quality Entertain.
12.437	R	Муз ТВ	27500	News + Series
12.437	R	НСТ	27500	News + Series
12.437	R	Наш футбол	27500	News + Series
12.437	R	Ностальгия	27500	Quality Entertain.
12.437	R	РТР-Спорт	27500	Quality Entertain.
12.437	R	Русское Экстремально	27500	News + Series
12.437	R	СПОРТ ПЛЮС	27500	Quality Entertain.
12.437	R	Спорт Классика	27500	Quality Entertain.
12.437	R	Спорт Союз	27500	News + Series
12.437	R	Теннис	27500	News + Series
12.456	L	Animal Planet	27500	Low Level
12.456	L	Discovery	27500	News + Series
12.456	L	Discovery Travel&Liv	27500	News + Series
12.456	L	Eurosport	27500	Quality Entertain.
12.456	L	Hallmark	27500	Low Level
12.456	L	Jetix	27500	News + Series
12.456	L	Mezzo (Muzzik)	27500	Quality Entertain.
12.456	L	National Geographic	27500	News + Series
12.456	L	Zone Romantica	27500	News + Series
12.456	L	МЬЮЗИК БОКС РУ	27500	News + Series
12.456	L	МЬЮЗИК БОКС ТВ	27500	News + Series
12.456	L	ТДК	27500	News + Series
12.456	L	Jetix Play	27500	Advertisement
12.476	R	Cartoon Network/TCM	27500	News + Series
12.476	R	CNN International	27500	News + Series
12.476	R	Discovery Science	27500	News + Series
12.476	R	Discovery World	27500	News + Series
12.476	R	Euronews	27500	News + Series
12.476	R	Extreme Sports	27500	Quality Entertain.
12.476	R	Jim Jam	27500	Quality Entertain.
12.476	R	MCM	27500	News + Series
12.476	R	MGM int.	27500	News + Series
12.476	R	MTV Dance	27500	News + Series
12.476	R	Nat Geo Wild	27500	Quality Entertain.
12.476	R	VH1 Classic	27500	News + Series
12.476	R	Zone Reality	27500	News + Series

Africa

EUTELSAT SESAT, EUTELSAT W4

36.1 East

EUT0W4AF



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.142	H	Ang 1	30000	News + Series
11.142	H	Ang 2	30000	News + Series
11.142	H	BET	30000	News + Series
11.142	H	CCE&F	30000	News + Series
11.142	H	Insp	30000	Low Level
11.142	H	KBCTV	30000	News + Series
11.142	H	KTN	30000	News + Series
11.142	H	NGwld	30000	Quality Entertain.
11.142	H	NTA_B	30000	News + Series
11.142	H	NTV	30000	News + Series
11.142	H	TBC1	30000	Advertisement
11.142	H	ZDF	30000	Low Level
11.476	H	13RUE	29000	Low Level
11.476	H	Can+C	29000	News + Series
11.476	H	CineC	29000	News + Series
11.476	H	CITIZ	29000	News + Series
11.476	H	FR2	29000	News + Series
11.476	H	FR5	29000	News + Series
11.476	H	LCI	29000	News + Series
11.476	H	Plan	29000	Low Level
11.476	H	RTBF	29000	News + Series
11.476	H	RTL9	29000	News + Series
11.476	H	Sprt+	29000	News + Series
11.476	H	Tiji	29000	News + Series
11.476	H	TRACE	29000	Low Level
11.507	V	BBC C	30000	News + Series
11.507	V	BBC K	30000	News + Series
11.507	V	CNBCA	30000	News + Series
11.507	V	ESPNC	30000	News + Series
11.507	V	FOX	30000	News + Series
11.507	V	FOX C	30000	News + Series
11.507	V	FOX L	30000	News + Series
11.507	V	GTV_B	30000	News + Series
11.507	V	NTVU	30000	News + Series
11.507	V	ODI P	30000	News + Series
11.507	V	PANDA	30000	Advertisement
11.507	V	PFC	30000	Quality Entertain.
11.507	V	S MAX	30000	Quality Entertain.
11.507	V	SMAX2	30000	News + Series
11.559	H	AXN	29000	News + Series
11.559	H	DsnyP	29000	News + Series
11.559	H	Globo	29000	News + Series
11.559	H	MTV P	29000	News + Series
11.559	H	NGeoP	29000	Low Level
11.559	H	RTNC	29000	Low Level
11.559	H	RTPa	29000	News + Series
11.559	H	SIC I	29000	Low Level
11.559	H	SIC N	29000	News + Series
11.559	H	TVC1	29000	News + Series
11.559	H	TVC2	29000	Low Level
11.559	H	TVMoz	29000	Quality Entertain.
11.559	H	TVRec	29000	News + Series
11.559	H	TVUga	29000	Quality Entertain.
12.284	H	AMag+	26480	News + Series
12.284	H	BBA	26480	News + Series
12.284	H	BLITZ	26480	News + Series
12.284	H	MwId	26480	News + Series
12.284	H	NaGeo	26480	News + Series
12.284	H	SkyN	26480	News + Series
12.284	H	SS5	26480	News + Series
12.284	H	SS7	26480	News + Series
12.284	H	ZnRea	26480	News + Series
12.322	H	AJE	26480	Low Level
12.322	H	AnimP	26480	News + Series
12.322	H	Boom	26480	News + Series
12.322	H	FTV	26480	News + Series
12.322	H	HIST	26480	Quality Entertain.
12.322	H	Rhema	26480	Low Level
12.322	H	SS6	26480	Advertisement
12.322	H	ZeeTV	26480	Quality Entertain.
12.360	H	B4U	26480	News + Series
12.360	H	C+H	26480	News + Series
12.360	H	CN	26480	News + Series
12.360	H	CNN	26480	News + Series
12.360	H	E !	26480	Quality Entertain.
12.360	H	FR24	26480	Low Level
12.360	H	MTV	26480	Low Level
12.360	H	RTPi	26480	News + Series
12.360	H	TV5	26480	News + Series
12.399	H	ESPN	26480	News + Series
12.399	H	EuroN	26480	News + Series
12.399	H	HallM	26480	News + Series
12.399	H	RAI	26480	News + Series
12.399	H	SET A	26480	News + Series
12.399	H	SONY	26480	Quality Entertain.
12.399	H	TF6	26480	News + Series
12.399	H	TSN	26480	News + Series
12.440	H	Actio	23437	News + Series
12.440	H	BBC E	23437	News + Series
12.440	H	BBC W	23437	News + Series
12.440	H	CRIME	23437	News + Series
12.440	H	Dsny	23437	News + Series
12.440	H	Learn	23437	Low Level
12.440	H	MNetE	23437	News + Series
12.440	H	Mstar	23437	Low Level
12.440	H	MTV B	23437	News + Series
12.440	H	OneG	23437	News + Series
12.440	H	SS2	23437	News + Series
12.440	H	SSsel	23437	Quality Entertain.
12.440	H	TCM	23437	News + Series
12.476	H	AMag	26040	Low Level
12.476	H	BBC L	26040	News + Series
12.476	H	ChO	26040	News + Series
12.476	H	Disc	26040	News + Series
12.476	H	MM1	26040	News + Series
12.476	H	MM2	26040	Low Level
12.476	H	MNetW	26040	News + Series
12.476	H	Serie	26040	Quality Entertain.
12.476	H	SS1	26040	Low Level
12.476	H	SS3	26040	Quality Entertain.
12.476	H	SSmax	26040	News + Series
12.476	H	TBN	26040	News + Series

Europe

EUTELSAT SESAT, EUTELSAT W4

36.2 East

EUTSE1EU



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.639	V	IMN 3	2170	
11.642	V	AL-IRAQIA ATYAF	2175	
11.642	V	IMN 3	2175	
11.645	V	AL-IRAQIA ATYAF	2180	
11.645	V	ALFORqan	2180	
11.648	V	AL-IRAQIA SPORT	2532	
12.516	V	MTA International	10370	
12.516	V	Telemedia 1	10370	
12.516	V	Telemedia 5	10370	
12.516	V	Telemedia 8	10370	
12.516	V	Telemedia 9	10370	
12.558	V	EURONEWS-AFRICA	8138	
12.558	V	EURONEWS-FRANCE	8138	
12.611	V	JSC Contribution	5787	
12.625	V	ZAGROS	2668	
12.652	V	Service 1	2480	

C-Band: PAKSAT 1

38.0 East

PAK001CB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.730	V	{Empty Name}	5185	News + Series
3.788	H	INFO TV	2850	Quality Entertain.
3.797	H	OXYGENE	3255	Quality Entertain.
3.820	V	Sbt	2222	News + Series
3.864	H	Oye TV	3800	Low Level
3.876	H	SM Ten Id	1750	News + Series
3.886	H	PUNJAB TV	6200	Quality Entertain.
3.886	H	STAR ASIA	6200	Quality Entertain.
3.893	H	HADI TV	1770	News + Series
3.897	H	ROYAL-NEWS	2500	News + Series
3.897	H	{Empty Name}	2500	News + Series
3.898	V	City-42 DSNG	2300	News + Series
3.904	V	DVB-Server	3255	Quality Entertain.
3.916	V	{Empty Name}	3333	News + Series
3.951	H	HAQTV-NETWORK	3240	Quality Entertain.
3.968	H	ARYZauq	11481	Quality Entertain.
3.968	H	Feed 1	11481	News + Series
3.968	H	Feed2	11481	News + Series
3.968	H	Nick	11481	News + Series
3.977	H	SM Ten LR	1750	Advertisement
4.026	H	Channel-5	3255	Quality Entertain.
4.035	H	PTV.BOLAN	2894	Quality Entertain.
4.056	H	ABC FEED	3255	Quality Entertain.
4.104	H	Service 2	3000	Quality Entertain.
4.110	H	Business-Plus	3255	Quality Entertain.
4.115	H	UPCOM	3333	Quality Entertain.
4.135	H	PTV PESH B	3333	Quality Entertain.
4.157	V	{Empty Name}	2850	Quality Entertain.

PAK001CS



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.752	V	DVB-Server	6500	Advertisement
3.830	V	VTV1	12000	Quality Entertain.
3.830	V	VTV2	12000	Quality Entertain.
3.830	V	VTV3	12000	Quality Entertain.
3.830	V	VTV4	12000	Quality Entertain.
3.894	V	VALUE TV	2850	Quality Entertain.
3.911	V	CITY NEWS 042	3255	Quality Entertain.
4.145	V	DVB-Server	6000	News + Series

PAKSAT 1

38.1 East

PAK001KV



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.027	V	Tandberg Service	1799	Advertisement
11.029	V	0577	1799	News + Series
11.113	V	580	1799	Advertisement
11.145	V	LHR DSNG1	6100	Advertisement
11.161	V	feed 1 (LHR DSNG1)	4600	Advertisement
11.163	V	Tandberg Service	1799	Low Level
11.185	V	PTV QTA-PakSaTQUE	3333	Quality Entertain.
11.185	V	PTV.K.DSNG	3333	Quality Entertain.
11.456	V	LHR DAWN TV	2850	News + Series
11.460	V	LHR DSNG1	2900	News + Series

TV FTA | DVB-S MPEG-2 | DVB-S MPEG-4 | DVB-S2 MPEG-2 | DVB-S2 MPEG-4

TV CRYPT | DVB-S MPEG-2 | DVB-S MPEG-4 | DVB-S2 MPEG-2 | DVB-S2 MPEG-4

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.671	V	GEO ME DXB (PakSat	3299	Quality Entertain.
11.676	V	Lahore FixLink	3299	News + Series
11.677	V	LHR DSNG1	3000	Advertisement
11.680	V	ISB Fixed Link	3300	Quality Entertain.
11.685	V	LHR DSNG1	2500	Advertisement

Europe

HELLAS SAT 2

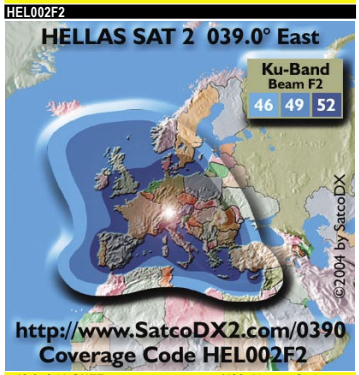
39.0 East

HEL002F1



Freq	Pol	Channel Name	Symbol Rate	Programming Type
12.524	V	Animal Planet	30000	News + Series
12.524	V	AXN SCI FI	30000	News + Series
12.524	H	BNT 1	30000	Quality Entertain.
12.524	H	bTV	30000	News + Series
12.524	V	Cinemax 2	30000	News + Series
12.524	H	Diema	30000	Quality Entertain.
12.524	H	Diema 2	30000	News + Series
12.524	V	Discovery	30000	News + Series
12.524	H	Discovery Channel	30000	Home Cinema
12.524	V	Euforia	30000	Quality Entertain.
12.524	V	Eurosport 2	30000	Quality Entertain.
12.524	H	HBO	30000	Quality Entertain.
12.524	V	HBO Comedy	30000	News + Series
12.524	H	Hobby TV	30000	News + Series
12.524	V	Kiss TV	30000	News + Series
12.524	V	Money Channel	30000	News + Series
12.524	H	Nova TV	30000	News + Series
12.524	H	Planeta TV	30000	Home Cinema
12.524	V	Science	30000	News + Series
12.524	V	Sport Klub	30000	Quality Entertain.
12.524	H	TV Plus	30000	News + Series
12.524	H	TV7	30000	Quality Entertain.
12.524	V	TVR 1	30000	Quality Entertain.
12.524	V	TVR 2	30000	Quality Entertain.
12.524	V	TVR Cultural	30000	News + Series
12.524	V	VH 1 Classic	30000	News + Series
12.524	H	The Voice	30000	Quality Entertain.
12.565	V	Acasa TV	30000	News + Series
12.565	V	Antena 1	30000	News + Series
12.565	V	Antena 2	30000	News + Series
12.565	V	Antena 3	30000	News + Series
12.565	V	AXN	30000	Quality Entertain.
12.565	V	B1	30000	News + Series
12.565	V	CineStar	30000	News + Series
12.565	V	Favorit TV	30000	News + Series
12.565	V	Minimax/Anime	30000	News + Series
12.565	V	N24	30000	News + Series
12.565	V	National TV	30000	Quality Entertain.
12.565	V	OTV	30000	News + Series
12.565	V	Prima TV	30000	News + Series
12.565	V	PRO TV	30000	News + Series
12.565	V	PRO TV INTL.	30000	News + Series
12.565	V	Realitatea TV	30000	News + Series
12.565	V	Sport.ro	30000	Quality Entertain.
12.565	V	X-Dream TV	30000	News + Series
12.606	H	4E HELLAS ORTHODO	30000	News + Series
12.606	H	902 TV	30000	News + Series
12.606	H	ANT 1 EUROPE	30000	News + Series
12.606	H	ERT world	30000	News + Series
12.606	H	KANALI 10	30000	News + Series
12.606	H	SGC-SGI PRESS ROO	30000	News + Series
12.606	H	TELEASTY	30000	News + Series
12.606	H	VOULI	30000	News + Series
12.647	V	AXN CRIME	30000	News + Series
12.647	H	BNT Sat	30000	Quality Entertain.
12.647	V	Boomerang	30000	Quality Entertain.
12.647	V	Cartoon Net/TCM	30000	News + Series
12.647	V	Cartoon Network	30000	Quality Entertain.
12.647	V	CNN Intern.	30000	News + Series
12.647	H	Discovery Science	30000	Low Level
12.647	H	Discovery Travel & L	30000	Low Level
12.647	H	Discovery World	30000	News + Series
12.647	H	Disney Channel	30000	News + Series
12.647	V	Euronews	30000	News + Series
12.647	H	Film Plus	30000	Quality Entertain.
12.647	V	Free-X TV	30000	Quality Entertain.
12.647	V	Free-X TV 2	30000	Quality Entertain.
12.647	H	Hallmark	30000	News + Series
12.647	V	Kanal D	30000	News + Series
12.647	V	MTV 2	30000	News + Series
12.647	V	MTV Dance	30000	News + Series
12.647	H	MTV Europe	30000	News + Series
12.647	V	MTV Romania	30000	News + Series
12.647	V	Private Spice	30000	News + Series
12.647	H	RING BG	30000	News + Series
12.647	H	Super 7	30000	News + Series
12.647	V	TCM	30000	Quality Entertain.
12.647	V	Travel&Living	30000	News + Series
12.647	H	TV Evropa	30000	News + Series
12.647	H	VH1	30000	News + Series
12.647	H	Kanal 3	30000	News + Series
12.647	H	MM	30000	Quality Entertain.
12.647	H	Planeta Folk TV	30000	Home Cinema
12.647	H	Skat TV	30000	News + Series
12.688	V	ActionStar	30000	News + Series
12.688	H	Animal Planet	30000	News + Series
12.688	H	AXN	30000	News + Series
12.688	H	AXN Crime	30000	News + Series
12.688	H	AXN Sci Fi	30000	Quality Entertain.
12.688	H	bTV Comedy	30000	News + Series
12.688	H	Cinemax	30000	News + Series
12.688	H	Diema Family	30000	Quality Entertain.
12.688	V	Discovery World	30000	News + Series
12.688	V	Eurosport	30000	Quality Entertain.
12.688	H	Eurosport 2	30000	Quality Entertain.
12.688	V	Extreme Sports	30000	Quality Entertain.
12.688	V	Fashion TV	30000	News + Series
12.688	H	FOX Crime	30000	Quality Entertain.
12.688	H	FOX Life	30000	Low Level
12.688	V	HBO	30000	News + Series
12.688	H	HBO Comedy	30000	News + Series
12.688	V	Nat. Geographic	30000	News + Series
12.688	H	National Geographic	30000	News + Series
12.688	H	PopCore	30000	News + Series
12.688	H	PRO BG	30000	Quality Entertain.
12.688	V	PRO Cinema	30000	News + Series
12.688	V	TELESPORT	30000	News + Series
12.688	V	TRACE	30000	News + Series
12.688	V	Travel Channel	30000	Quality Entertain.
12.688	H	TV1000	30000	Low Level
12.688	V	TV5 Monde	30000	News + Series
12.688	V	VH 1	30000	Quality Entertain.
12.688	V	Taraf	30000	News + Series
12.729	V	Baby TV	30000	News + Series
12.729	V	ComedyStar	30000	News + Series
12.729	V	Disney Channel	30000	News + Series
12.729	V	Dolce Info	30000	News + Series
12.729	V	KidsCo	30000	News + Series
12.729	V	Movies 24	30000	News + Series
12.729	V	Music Channel	30000	News + Series
12.729	V	Nickelodeon	30000	News + Series
12.729	V	Trinitas TV	30000	News + Series
12.729	V	TVR 3	30000	News + Series
12.729	V	UTV	30000	Quality Entertain.
12.729	V	{Empty}	30000	News + Series
12.729	V	Etno	30000	News + Series
12.729	V	Euro Channel	30000	News + Series

HEL002F2



Freq	Pol	Channel Name	Symbol Rate	Programming Type
10.956	V	GNET	4123	News + Series
10.956	V	MAD TV BULGARIA	4123	News + Series
11.512	H	HTH	30000	Home Cinema
11.512	H	1 Diloviy	30000	News + Series
11.512	H	A-ONE Ukraine	30000	Quality Entertain.
11.512	H	DODTRK	30000	News + Series
11.512	H	Gamma	30000	News + Series
11.512	H	KAHKESHAN TV	30000	Advertisement
11.512	H	KDRTRK	30000	News + Series
11.512	H	Kultura	30000	News + Series
11.512	H	Maxxi TV	30000	Quality Entertain.
11.512	H	NeoLine	30000	Advertisement
11.512	H	NEWS ONE	30000	Quality Entertain.
11.512	H	PTV	30000	Low Level
11.512	H	RU MUSIC	30000	Quality Entertain.
11.512	H	UTR	30000	Quality Entertain.

EXPRESS AM1

40.0 East

EXPAM1K1



Freq	Pol	Channel Name	Symbol Rate	Programming Type
10.967	V	1MUZ	20000	News + Series
10.967	V	5 Kanal	20000	News + Series
10.967	V	7 TV	20000	News + Series
10.967	V	Dom Kino	20000	News + Series
10.967	V	Orbita-4	20000	News + Series
10.967	V	Russia Double-4	20000	News + Series
10.967	V	Telecafe	20000	News + Series
10.967	V	Telenyanya	20000	News + Series
10.967	V	TV Centr	20000	News + Series
10.967	V	Vesti	20000	News + Series
10.967	V	Vremya	20000	News + Series
10.995	V	1 Kanal	20000	News + Series
10.995	V	5 Kanal	20000	News + Series
10.995	V	Home	20000	News + Series
10.995	V	Kultura	20000	News + Series
10.995	V	MuzTV	20000	News + Series
10.995	V	RTR Sport	20000	News + Series
10.995	V	Russia	20000	News + Series
10.995	V	STS	20000	News + Series
10.995	V	TNT	20000	News + Series
10.995	V	TNV	20000	News + Series
10.995	V	TV Centr	20000	News + Series
11.097	H	TV	4000	Quality Entertain.
11.159	V	SPACE TV AZERBAIJ	3333	News + Series
11.679	H	NNTV_plus_RIC	7596	Quality Entertain.
11.679	H	vesty_privolghe	7596	Home Cinema

Europe, Russia

C-Band: EXPRESS AM1

40.1 East

EXPAM1C1



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.675	R	1kanalR+Mayak	33483	Home Cinema
3.675	R	Dubl-4+RRD4	33483	Home Cinema
3.675	R	Orbita-4R+Yunost	33483	Home Cinema
3.675	R	Podmoskovye	33483	Quality Entertain.
3.675	R	Rossiya+RR	33483	Home Cinema
3.675	R	Kultura+Vesti-FM	33483	Home Cinema
3.675	R	Kultura-3	33483	Home Cinema
3.675	R	TRK5_MSK	33483	Home Cinema
3.740	R	GTRK VOLOGDA	3230	Quality Entertain.
3.771	R	SCOPUS-NET-TECH	3330	Quality Entertain.
3.865	R	RGVK-DAGESTAN	4000	News + Series
3.873	R	Program1	4340	Quality Entertain.
3.933	R	Kirov	3300	Quality Entertain.
4.059	R	GTRK ELISTA	3230	Quality Entertain.
4.062	R	GTRK Volgograd TRV	2772	Quality Entertain.
4.107	R	KRT	3215	Quality Entertain.
4.112	R	GTRK-KURSK	4285	Home Cinema
4.118	R	Tv43Region	3300	Quality Entertain.
4.125	R	Planeta-1	3215	Quality Entertain.
4.128	R	TV Kostroma	3230	Quality Entertain.
4.131	R	GTRK Kostroma	3219	Quality Entertain.
4.135	R	GTRK Alania	3240	Quality Entertain.
4.140	R	GTRK ORENBURG	3230	Quality Entertain.
4.142	R	GTRK Orenburg	3219	Quality Entertain.
4.143	R	TB KBR	2003	Quality Entertain.

TURKSAT 2A, 3A

42.0 East

TUR02AKW



Freq	Pol	Channel Name	Symbol Rate	Programming Type
10.960	H	FEED 1	13000	News + Series
10.960	H	MEHTAP TV	13000	News + Series
10.960	H	S HABER	13000	News + Series
10.960	H	SAMANYOLU TV	13000	Home Cinema
10.960	H	YUMURCAK TV	13000	Quality Entertain.
10.969	H	XAZAR TV	2400	News + Series
11.012	V	CNN INTERNATIONAL	30000	Low Level
11.012	V	D YEŞİLÇAM	30000	Low Level
11.012	V	D ÇOCUK	30000	Advertisement
11.012	V	DA VINCI LEARNING	30000	Low Level
11.012	V	EUROSPORT	30000	Low Level
11.012	V	FX	30000	Advertisement
11.012	V	iTVGAMETEST	30000	Low Level
11.012	V	iTVGAMETEST2	30000	Advertisement
11.012	V	LOCA1	30000	Advertisement
11.012	V	LOCA2	30000	Low Level
11.012	V	MARC DORCEL	30000	Advertisement
11.012	V	MOVIESMART	30000	Advertisement
11.012	V	PEMBESMART	30000	Advertisement
11.012	V	YEŞİLÇAM XXX	30000	Advertisement
11.012	V	CLUB X1 TV	30000	Low Level
11.012	V	FXI TV	30000	Low Level
11.012	V	KANAL BİZ	30000	Advertisement
11.054	H	NBA TV	30000	Low Level
11.054	H	CNBC-e	30000	Low Level
11.054	H	e2	30000	Low Level
11.054	H	Kral TV	30000	Low Level
11.054	H	NTV	30000	News + Series
11.054	H	NTV Spor	30000	News + Series
11.094	H	TRT 1	24444	Quality Entertain.
11.094	H	TRT 2	24444	Quality Entertain.
11.094	H	TRT 4	24444	Quality Entertain.
11.094	H	TRT AVAZ	24444	Quality Entertain.
11.094	H	TRT TURK	24444	Quality Entertain.
11.096	V	CAY TV	30000	Advertisement
11.096	V	Expo_Ch	30000	Low Level
11.096	V	Expo_Channel	30000	Advertisement
11.096	V	FASHION ONE	30000	Low Level
11.096	V	FLASH TV	30000	Low Level
11.096	V	KaradenizTV	30000	Advertisement
11.096	V	MAVI KARADENIZ	30000	Low Level
11.096	V	NUMBER ONE	30000	Low Level
11.096	V	POWERTURK TV	30000	Low Level
11.096	V	RUMELI TV	30000	Low Level
11.096	V	TEMPO TV	30000	Low Level
11.096	V	yaban_tv	30000	Low Level
11.194	H	HABERTURK TV	7200	Quality Entertain.
11.194	H	KANAL 1	7200	Quality Entertain.
11.524	V	BRTK KKTC	4557	Home Cinema
11.554	H	ITV AZERBAYCAN	2916	News + Series
11.581	H	TURKSAT TANITIM	4444	Home Cinema
11.607	H	AzTV Azerbaijan	3750	Quality Entertain.
11.628	H	atv	6666	Home Cinema
11.642	H	BUGUN	10370	Home Cinema
11.642	H	KANALTURK	10370	Home Cinema
11.712	V	SES TV	2963	Quality Entertain.
11.729	V	ACTIONMAX	15555	Low Level
11.729	V	INTIMACY	15555	News + Series
11.729	V	LIG TV	15555	News + Series
11.729	V	SPORMAX	15555	News + Series
11.729	V	TÜRKMAX	15555	Low Level
11.729	V	İZ	15555	Low Level
11.729	V	ASK TV	15555	Low Level
11.729	V	DIGI	15555	Low Level
11.729	V	MAX TV	15555	Low Level
11.742	V	Berat	2965	Advertisement
11.742	V	Halay	2965	Low Level
11.742	V	Kanal Avrupa	2965	News + Series
11.746	H	TELEDUNYA HD	27500	High Quality Home
11.746	H	AL JAZEERA CHANNE	27500	Advertisement
11.746	H	ALJAZEERA INT	27500	Advertisement
11.746	H	ASU TV	27500	Advertisement
11.746	H	ORDU 52 TV	27500	Low Level
11.746	H	TELEDUNYA INFO	27500	Low Level
11.746	H	TURKSAT INFO	27500	Low Level
11.746	H	TURKSAT TANITIM	27500	Low Level
11.766	H	TELEDUNYA HD	27500	High Quality Home
11.766	H	AL JAZEERA CHANNE	27500	Advertisement
11.766	H	ALJAZEERA INT	27500	Low Level
11.766	H	ASU TV	27500	Low Level
11.766	H	ORDU 52 TV	27500	Low Level
11.766	H	TELEDUNYA INFO	27500	Low Level
11.766	H	TURKSAT INFO	27500	Low Level
11.766	H	TURKSAT TANITIM	27500	Advertisement
11.777	H	KANAL 7	4800	Home Cinema
11.777	H	RADYO 7	4800	Home Cinema
11.804	V	DREAM TÜRK	24440	Advertisement
11.804	V	PASSION TV	24440	Advertisement
11.804	V	BAYRAK RADIO INTE	24440	Advertisement
11.804	V	BRT 1	24440	Low Level
11.804	V	DHA FEED	24440	Advertisement
11.804	V	EURO STAR	24440	Advertisement
11.804	V	FB TV	24440	Advertisement
11.804	V	FIX TV	24440	Low Level
11.804	V	FLY	24440	Advertisement
11.804	V	PLUS MUZIK	24440	Low Level
11.804	V	SILA TV	24440	Low Level
11.804	V	TNT	24440	Low Level
11.830	V	KANAL 7	7200	Quality Entertain.
11.830	V	tvt	7200	Advertisement
11.830	V	ULKE TV	7200	Quality Entertain.
11.830	V	YURDUM TV	7200	News + Series
11.839	V	TURKMENELI TV	4444	Home Cinema
11.843	H	ANIMAL PLANET	27500	Low Level
11.843	H	DISCOVERY CHANNEL	27500	Low Level
11.843	H	DREAM TV	27500	Advertisement
11.843	H	ID	27500	Low Level
11.843	H	SCIENCE	27500	Low Level
11.843	H	TRAVEL & LIVING	27500	Low Level
11.843	H	WORLD	27500	Low Level
11.843	H	CARTOON NETWORK	27500	Low Level
11.843	H	D SHOPPING	27500	Advertisement
11.843	H	FASHION TV	27500	Advertisement
11.843	H	KANAL D	27500	Low Level
11.843	H	KOCAELİ TV	27500	Advertisement
11.843	H	STAR TV	27500	Low Level
11.844	V	_CLUP_TV	4444	Low Level
11.844	V	_Taraftar_TV	4444	Low Level
11.844	V	AKILLI_TV	4444	News + Series
11.844	V	Smart	4444	News + Series
11.857	V	TGRT EU	3150	Quality Entertain.
11.862	H	ANIMAL PLANET	27500	Low Level
11.862	H	DISCOVERY CHANNEL	27500	Low Level
11.862	H	DREAM TV	27500	Low Level
11.862	H	ID	27500	Low Level
11.862	H	SCIENCE	27500	Low Level
11.862	H	TRAVEL & LIVING	27500	Advertisement
11.862	H	WORLD	27500	Advertisement
11.862	H	CARTOON NETWORK	27500	Advertisement
11.862	H	D SHOPPING	27500	Low Level
11.862	H	FASHION TV	27500	Low Level
11.862	H	KANAL D	27500	Low Level
11.862	H	KOCAELİ TV	27500	Advertisement
11.862	H	STAR TV	27500	Low Level
11.870	V	TV8	8888	Home Cinema
11.879	V	COOL	2815	Low Level
11.879	V	TGRT EU	2815	News + Series
11.881	H	ANIMAL PLANET	27500	Low Level
11.881	H	DISCOVERY CHANNEL	27500	Advertisement
11.881	H	DREAM TV	27500	Low Level
11.881	H	ID	27500	Low Level
11.881	H	SCIENCE	27500	Low Level
11.881	H	TRAVEL & LIVING	27500	Low Level
11.881	H	WORLD	27500	Low Level
11.881	H	CARTOON NETWORK	27500	Low Level
11.881	H	D SHOPPING	27500	Advertisement

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

Cost Conscious Entertainment .... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.881	H	FASHION TV	27500	Low Level
11.881	H	KANAL D	27500	Low Level
11.881	H	KOCAELİ TV	27500	Advertisement
11.881	H	STAR TV	27500	Low Level
11.885	H	AVRASYA TV	2960	Quality Entertain.
11.897	H	KaradenizTV	2420	News + Series
11.906	H	samanyolu.tv	4800	Quality Entertain.
11.919	V	TRT 1	24444	News + Series
11.919	V	TRT 2	24444	News + Series
11.919	V	TRT 3	24444	Low Level
11.919	V	TRT 4	24444	Low Level
11.919	V	TRT TEST	24444	News + Series
11.919	V	TRT TURK	24444	Low Level
11.938	H	DISCOVERY HD	27500	High Quality Home
11.938	H	EUROSPORT HD	27500	High Quality Home
11.938	H	HDTV SMART	27500	High Quality Home
11.938	H	KANAL D HD	27500	High Quality Home
11.938	H	COMEDY SMART	27500	News + Series
11.938	H	ESPN AMERICA	27500	News + Series
11.938	H	KIDSCO	27500	Low Level
11.938	H	LULİ	27500	News + Series
11.938	H	KOCAELİ TV	27500	News + Series
11.940	V	TRT 1	24444	Low Level
11.940	V	TRT 2	24444	Low Level
11.940	V	TRT 3	24444	Low Level
11.940	V	TRT 4	24444	Low Level
11.940	V	TRT TEST	24444	News + Series
11.940	V	TRT TURK	24444	Low Level
11.944	V	KANAL B	4444	Home Cinema
11.953	V	CTN	2980	Advertisement
11.953	V	KIBRIS GENC TV	2980	News + Series
11.954	H	DISCOVERY HD	27500	High Quality Home
11.954	H	EUROSPORT HD	27500	High Quality Home
11.954	H	HDTV SMART	27500	High Quality Home
11.954	H	KANAL D HD	27500	High Quality Home
11.954	H	COMEDY SMART	27500	News + Series
11.954	H	ESPN AMERICA	27500	News + Series
11.954	H	KIDSCO	27500	News + Series
11.954	H	LULİ	27500	News + Series
11.954	H	KOCAELİ TV	27500	News + Series
11.957	V	AVRASYA-ANK	2960	Quality Entertain.
11.964	H	ALEM FM	5925	Home Cinema
11.964	H	SHOW TV	5925	Home Cinema
11.972	H	FOX	7200	Home Cinema
11.981	H	TGRT Haber	5200	Quality Entertain.
11.981	H	TGRT Pazarlama	5200	News + Series
11.996	V	FEED	26000	News + Series
11.996	V	Manolya.TV	26000	Low Level
11.996	V	MAVI KARADENIZ	26000	News + Series
11.996	V	TV 5 Int	26000	Advertisement
11.996	V	TÜRKSHOP	26000	Low Level
11.996	V	AS10	26000	Low Level
11.996	V	DEM	26000	News + Series
11.996	V	DugunTV	26000	News + Series
11.996	V	Genc TV	26000	News + Series
11.996	V	GERCEK TV	26000	Low Level
11.996	V	HAYAT TV	26000	Low Level
11.996	V	KANAL 12	26000	Advertisement
11.996	V	M-ON	26000	News + Series
11.996	V	Tempo TV	26000	News + Series
11.996	V	TURKSHOW	26000	News + Series
11.996	V	Yol TV	26000	News + Series
12.015	H	6 NEWS	27500	Low Level
12.015	H	BASKENT-AB TV	27500	News + Series
12.015	H	BENGUTURK TV	27500	Advertisement
12.015	H	KANAL 13	27500	Advertisement
12.015	H	TURKSAT TANITIM	27500	Advertisement
12.015	H	TURKSAT TEST 1	27500	Low Level
12.015	H	TURKSAT TEST 2	27500	Advertisement
12.015	H	TURKSAT TEST 3	27500	Advertisement
12.015	H	TURKSAT TEST 4	27500	Advertisement
12.015	H	TURKSAT TEST 6	27500	Advertisement
12.015	H	TURKSAT TEST 7	27500	Advertisement
12.034	H	6 NEWS	27500	Low Level
12.034	H	BASKENT-AB TV	27500	News + Series
12.034	H	BENGUTURK TV	27500	Low Level
12.034	H	KANAL 13	27500	Advertisement
12.034	H	TURKSAT TANITIM	27500	Low Level
12.034	H	TURKSAT TEST 1	27500	Low Level
12.034	H	TURKSAT TEST 2	27500	Advertisement
12.034	H	TURKSAT TEST 3	27500	Advertisement
12.034	H	TURKSAT TEST 4	27500	Advertisement
12.034	H	TURKSAT TEST 6	27500	Advertisement
12.034	H	TURKSAT TEST 7	27500	Advertisement
12.111	V	AKDENIZ TV	27500	Low Level
12.111	V	HALK TV	27500	Low Level
12.111	V	KACKAR TV	27500	Low Level
12.111	V	KANAL 67	27500	Low Level
12.111	V	KON TV	27500	Low Level
12.111	V	KRAL KARADENIZ	27500	Low Level
12.111	V	SAMSUN AKS TV	27500	Low Level
12.111	V	SHOPPING TV	27500	News + Series
12.111	V	TATLISES TV	27500	Low Level
12.111	V	TOPRAK TV	27500	News + Series
12.111	V	ULUSAL KANAL	27500	Low Level
12.111	V	YILDIZ TV	27500	Advertisement
12.129	H	Nickelodeon	4000	Low Level
12.129	H	MTV TURKIYE	4000	Quality Entertain.
12.130	V	AKDENIZ TV	27500	Low Level
12.130	V	HALK TV	27500	Low Level
12.130	V	KACKAR TV	27500	Low Level
12.130	V	KANAL 67	27500	Low Level
12.130	V	KON TV	27500	Advertisement
12.130	V	KRAL KARADENIZ	27500	Low Level
12.130	V	SAMSUN AKS TV	27500	Advertisement
12.130	V	SHOPPING TV	27500	Low Level
12.130	V	TATLISES TV	27500	Low Level
12.130	V	TOPRAK TV	27500	Advertisement
12.130	V	ULUSAL KANAL	27500	Advertisement
12.130	V	YILDIZ TV	27500	Advertisement
12.139	H	Alibaba TV	11111	News + Series
12.139	H	Blink TV	11111	Advertisement
12.139	H	Club TV	11111	Low Level
12.139	H	Denge TV	11111	Low Level
12.139	H	DJ TV	11111	Low Level
12.139	H	Ekin TV	11111	Low Level
12.139	H	Esin TV	11111	Advertisement
12.139	H	NR TV	11111	Low Level
12.149	V	AKDENIZ TV	27500	Advertisement
12.149	V	HALK TV	27500	Low Level
12.149	V	KACKAR TV	27500	Low Level
12.149	V	KANAL 67	27500	Low Level
12.149	V	KON TV	27500	Low Level
12.149	V	KRAL KARADENIZ	27500	Low Level
12.149	V	SAMSUN AKS TV	27500	Low Level
12.149	V	SHOPPING TV	27500	Low Level
12.149	V	TATLISES TV	27500	Low Level
12.149	V	TOPRAK TV	27500	News + Series
12.149	V	ULUSAL KANAL	27500	Low Level
12.149	V	YILDIZ TV	27500	Advertisement
12.592	H	Cine5	8888	Quality Entertain.
12.592	H	Gala	8888	Low Level
12.592	H	Maxi TV	8888	News + Series
12.592	H	Viva	8888	News + Series
12.593	V	Rustavi 2	2500	Quality Entertain.
12.601	H	KANAL A	4400	Home Cinema
12.607	H	OLAY TV & FM	2950	Quality Entertain.
12.609	V	IMEDI TV	3700	Quality Entertain.
12.612	H	BUKET	4800	News + Series
12.612	H	Buket TV	4800	News + Series
12.612	H	Oku	4800	Low Level
12.612	H	OKU	4800	Low Level
12.612	H	TURK C	4800	News + Series
12.612	H	Turk C	4800	News + Series
12.615	V	..	4800	News + Series
12.615	V	atv avrupa	4800	Quality Entertain.
12.618	H	AZAD AZERBAYCAN	2800	Quality Entertain.
12.620	V	YENI ASIR TV	2400	News + Series
12.632	V	MPL TV	2222	Quality Entertain.
12.636	V	KANAL BIZ	3125	News + Series
12.640	V	EGE TV	2400	News + Series
12.643	H	Kral TV Avrupa	4800	Quality Entertain.
12.643	H	NTV BATI	4800	News + Series
12.650	H	SKYTURK	4250	Home Cinema
12.656	H	SHOW TURK	4444	Home Cinema
12.679	V	24	8888	Home Cinema
12.679	V	EP	8888	News + Series
12.685	H	AKSU TV	30000	Low Level
12.685	H	G.ANTEP OLAY TV	30000	Advertisement
12.685	H	HILAL TV	30000	Low Level
12.685	H	KANAL 3	30000	Advertisement
12.685	H	KANAL 35	30000	Advertisement
12.685	H	KANAL T	30000	Advertisement
12.685	H	KANAL URFA	30000	Low Level
12.685	H	KANALTURK	30000	Low Level
12.685	H	KIBRIS ADA TV	30000	Low Level
12.685	H	TEK RUMELI TV	30000	Low Level
12.685	H	TRT-6	30000	Low Level
12.685	H	TV 58	30000	Advertisement
12.685	H	VATAN TV	30000	Advertisement
12.729	H	AIRPORT TV	30000	Low Level
12.729	H	BUSINESS CHANNEL	30000	Advertisement
12.729	H	CEM TV	30000	Advertisement
12.729	H	DOST TV	30000	Low Level
12.729	H	KADIRGA TV	30000	Advertisement
12.729	H	MARMARA TV	30000	Advertisement
12.729	H	MELTEM TV	30000	Low Level
12.729	H	MESAJ TV	30000	Advertisement
12.729	H	OZLEM TV	30000	Advertisement
12.729	H	SU TV	30000	Advertisement
12.729	H	TURKSAT TANITIM	30000	Low Level
12.729	H	TV 5	30000	Low Level

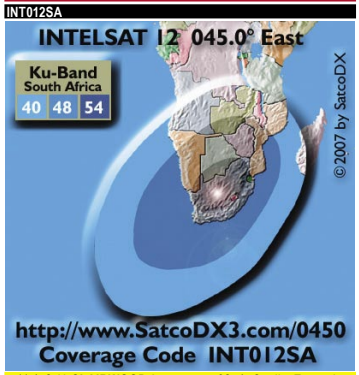
TUR02AS1



Freq	Pol	Channel Name	Symbol Rate	Programming Type
12.731	V	TÜRKSAT TANITIM	3333	Advertisement

South Africa
INTELSAT 12
45.0 East

INT012SA



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.452	H	CLAIRWOOD 2	3254	Quality Entertain.
11.461	H	Spare	5926	News + Series
11.461	H	Skytrain	5926	News + Series
11.470	H	OMO DOOR-DOOR	2894	News + Series
11.483	H	E-TV PE	3100	Quality Entertain.

India
INTELSAT 12
45.1 East

INT012IN



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.468	V	Animal Planet	27689	News + Series
11.468	V	Baby TV	27689	Low Level
11.468	V	Boomerang	27689	News + Series
11.468	V	Cartoon Network	27689	Low Level
11.468	V	Discovery	27689	Low Level
11.468	V	History	27689	News + Series
11.468	V	KidsCo	27689	Low Level
11.468	V	NatGEO	27689	Low Level
11.468	V	NatGEO Adventure	27689	Quality Entertain.
11.468	V	NatGEO Wild	27689	News + Series
11.468	V	Nickelodeon	27689	Low Level
11.468	V	POGO	27689	News + Series
11.468	V	SET	27689	News + Series
11.468	V	Set MAX	27689	News + Series
11.468	V	Star Plus	27689	Low Level
11.468	V	Star Vijay	27689	News + Series
11.468	V	UTV Movies	27689	News + Series
11.468	V	Zee Cinema	27689	Low Level
11.468	V	Zee TV	27689	News + Series
11.591	V	Al Jazeera	27689	Low Level
11.591	V	BBC	27689	Low Level
11.591	V	Bloomberg	27689	Low Level
11.591	V	Channel C	27689	News + Series
11.591	V	CNN	27689	Low Level
11.591	V	ESPN	27689	News + Series
11.591	V	MTV	27689	News + Series
11.591	V	NDTV	27689	News + Series
11.591	V	NEO Cricket	27689	News + Series
11.591	V	NEO Sports	27689	News + Series
11.591	V	Siyatha TV - Test Tr	27689	News + Series
11.591	V	Star Cricket	27689	Low Level
11.591	V	Star Sports	27689	News + Series
11.591	V	Ten Sports	27689	News + Series
11.591	V	VH1	27689	News + Series
11.591	V	Zee Music	27689	News + Series
11.591	V	Zee Sports	27689	Quality Entertain.
11.591	V	DTV Demo	27689	News + Series
11.632	V	Aarti TV	27689	News + Series
11.632	V	Channel Eye	27689	Advertisement
11.632	V	Citi Hitz	27689	Quality Entertain.
11.632	V	Derana	27689	Advertisement
11.632	V	God TV	27689	News + Series
11.632	V	Heritage TV	27689	Low Level
11.632	V	ITN	27689	Advertisement
11.632	V	Kalaignar	27689	News + Series
11.632	V	Learn TV	27689	Quality Entertain.
11.632	V	MAX Television	27689	Advertisement
11.632	V	Nenasa TV	27689	Low Level
11.632	V	Peace TV	27689	Quality Entertain.
11.632	V	Rana Roo	27689	News + Series
11.632	V	Rupavahini	27689	Low Level
11.632	V	Swarnavahini	27689	Advertisement
11.632	V	TNL	27689	Advertisement
11.632	V	Vasantham	27689	Advertisement
11.632	V	Zee Tamil	27689	Low Level
11.632	V	Buddhist TV	27689	Low Level
11.673	V	Australia Network	27689	Quality Entertain.
11.673	V	AXN	27689	Low Level
11.673	V	CineMax	27689	News + Series
11.673	V	Fox Crime	27689	Low Level
11.673	V	Fox FX	27689	News + Series
11.673	V	Hallmark	27689	News + Series
11.673	V	HBO	27689	News + Series
11.673	V	HBO Family	27689	Low Level
11.673	V	HBO Hits	27689	News + Series
11.673	V	HBO Signature	27689	Low Level
11.673	V	NDTV GoodTimes	27689	News + Series
11.673	V	Star Movies	27689	News + Series
11.673	V	Star World	27689	Low Level
11.673	V	Travel & Living	27689	Low Level
11.673	V	UTV World Movies	27689	News + Series
11.673	V	Zee Cafe	27689	News + Series
11.673	V	Zee Studio	27689	Low Level
11.673	V	Zee Trendz	27689	News + Series

Europe
INTELSAT 12
45.2 East

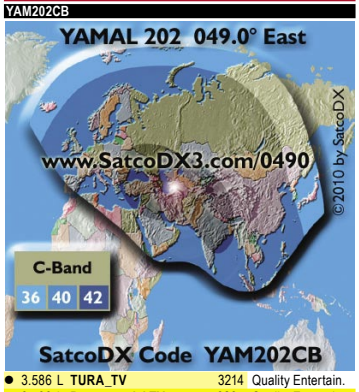
INT012KE



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.468	V	ESPN	27500	News + Series
11.468	V	FootSchool TV	27500	Advertisement
11.468	V	National Geographic	27500	Low Level
11.468	V	Sarafan	27500	News + Series
11.468	V	Travel Channel	27500	News + Series
11.468	V	Provse Net	27500	Advertisement
11.468	V	Wedding TV	27500	Advertisement
11.500	V	Racing International	4340	News + Series
11.500	V	SA Clean Feed	4340	News + Series
11.511	V	SOUTHERN SUDAN TE	2894	Quality Entertain.
11.550	V	Feniks-Art	27500	News + Series
11.550	V	Inter Plus	27500	News + Series
11.550	V	Israel + Russia	27500	News + Series
11.550	V	MAKS TV	27500	Quality Entertain.
11.550	V	MEZZO	27500	News + Series
11.550	V	POP TV	27500	Quality Entertain.
11.550	V	TDK	27500	News + Series
11.550	V	TV Centr Internation	27500	Low Level
11.550	V	WorldMadeChannel	27500	News + Series
11.550	V	ZEE TV Russian	27500	Quality Entertain.
11.550	V	Blagovest Channel	27500	Quality Entertain.
11.550	V	Kitay	27500	Quality Entertain.
11.550	V	New Illusion	27500	News + Series
11.550	V	Ocean TV	27500	News + Series
11.550	V	Russian TV Time Info	27500	Quality Entertain.
11.591	V	Discovery HD	30000	Home Cinema
11.591	V	Discovery HD Polish	30000	Home Cinema
11.591	V	Discovery HD Rus	30000	Home Cinema
11.591	V	Animal Planet Russia	30000	News + Series
11.591	V	Disc Iberia Por	30000	Quality Entertain.
11.591	V	Disc Iberia Sp	30000	Quality Entertain.
11.591	V	Disc Iberia Sp Por	30000	Quality Entertain.
11.591	V	Discovery Historia	30000	News + Series
11.591	V	Discovery Hungary	30000	News + Series
11.591	V	Discovery Russia	30000	Quality Entertain.
12.675	V	SERVICE1	3296	Quality Entertain.

Asia, Europe
C-Band: YAMAL 202
49.0 East

YAM202CB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.586	L	TURA_TV	3214	Quality Entertain.
3.590	L	PetrozavodskTV	3235	Quality Entertain.
3.598	L	Tula_TV	1851	High Quality Home
3.706	L	GDE I KTO	15550	Quality Entertain.
3.706	L	rentv0	15550	Quality Entertain.
3.706	L	rentv2	15550	Quality Entertain.
3.706	L	RIK	15550	Quality Entertain.
3.706	L	RTR PLANETA	15550	Quality Entertain.
3.740	L	Rusiya Al-Yaum	38000	Quality Entertain.
3.740	L	Russia Today	38000	Quality Entertain.
3.740	L	TV ZVEZDA+0	38000	Home Cinema
3.740	L	TVC Europe	38000	Quality Entertain.
3.740	L	TVCI	38000	Quality Entertain.
3.779	L	DANISH TELEVISION	1900	News + Series
3.795	L	NOVY VEK	1800	High Quality Home
3.939	L	RTR+Pomor'e	7500	Home Cinema
3.939	L	TVS_Severnaya Dvina	7500	Quality Entertain.
3.946	L	JAYA TV	1555	News + Series
3.949	L	PRIME SPORTS	2220	Quality Entertain.
3.953	L	TVLanka 2	4500	News + Series
3.953	L	DAN	4500	News + Series
3.961	L	RTR+REGION TYUMEN	8570	Home Cinema
3.961	L	TYUMEN TIME	8570	Quality Entertain.
3.971	L	GTRK Yamal	4275	Home Cinema
3.977	L	TYMEN-YGORIA TV	4285	Quality Entertain.
3.982	L	TV KOMI	4285	Home Cinema
4.068	L	Feed (FEED-1)	29755	Advertisement
4.068	L	Feed (FEED-2)	29755	Advertisement

EXPRESS AM22/SESAT 2

53.0 East

EXPA22K1



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.682	V	Limar TV	5000	
11.682	V	Tolo TV	5000	

EXPA22K2



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
10.974	H	5 Channel	8150	Quality Entertain.
10.995	H	TV-NADYM	3255	Quality Entertain.
11.031	H	CTPAHA COBETOB	3750	
11.044	V	1-Muz BY	44950	
11.044	V	CTC+0	44950	
11.044	V	CTC+2	44950	
11.044	V	Domashny+0	44950	
11.044	V	Domashny+2	44950	
11.044	V	FNS	44950	
11.044	V	MuzTV+Love	44950	
11.044	V	World Music Channel	44950	
11.095	V	NTN	6400	
11.095	V	UTR	6400	
11.161	V	STV	5785	Quality Entertain.
11.161	V	Belarus-TV	5785	Quality Entertain.
11.616	V	Tandberg Service	2894	Quality Entertain.
11.696	H	TOLOINT	1786	Advertisement
12.631	V	ASHUR TV	2530	
12.632	H	SALAM TV	2170	
12.637	H	Al Masar	2532	
12.639	V	AL ANBAR	2894	Quality Entertain.
12.639	V	TV	2892	
12.648	H	SCOPE KTV	2894	
12.652	H	Al-Mosullia	2532	
12.664	V	ART-Feed	30000	Quality Entertain.
12.664	V	Ch1 SCR BISS	30000	News + Series
12.664	V	CH1-SCR	30000	
12.664	V	Ch2 SCR Biss	30000	News + Series
12.664	V	CH2-SCR	30000	
12.664	V	ERTU	30000	Low Level
12.664	V	Feed-4	30000	Advertisement
12.664	V	JSC-Feed	30000	News + Series
12.664	V	OrbitLine1	30000	Quality Entertain.
12.664	V	OrbitLine2	30000	Quality Entertain.
12.664	V	OrbitLine3	30000	Quality Entertain.
12.664	V	Al-Majd Feed	30000	News + Series
12.664	V	CH5	30000	News + Series
12.664	V	CH8	30000	News + Series
12.664	V	Feed-2	30000	Advertisement
12.741	H	Temp 2	7086	
12.741	H	Service 2	7086	

C-Band: INSAT 3E

55.0 East

INS03ECI

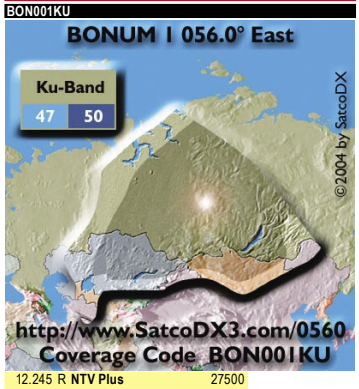


Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
3.970	V	Test	4250	
4.000	V	DDK-HISAR	4250	

BONUM 1

56.0 East

BON001KU



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
12.245	R	NTV Plus	27500	
12.303	L	Ermak	27500	
12.322	R	NTV Plus	27500	

NSS 703

57.0 East

NSS703EU

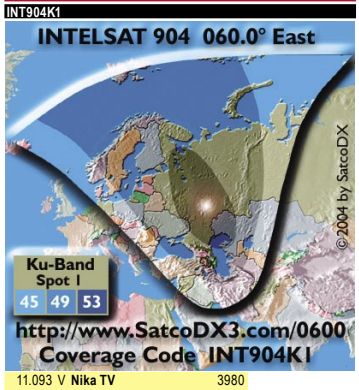


Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
12.551	V	bTV	9404	Home Cinema
12.551	V	eUrotic ASTRA	9404	News + Series
12.551	V	VTK	9404	News + Series

INTELSAT 904

60.0 East

INT904K1



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.093	V	Nika TV	3980	
11.491	V	RTV Kuban	5787	
11.514	V	test	7600	
11.529	V	Belarus TV	2893	

INT904K2

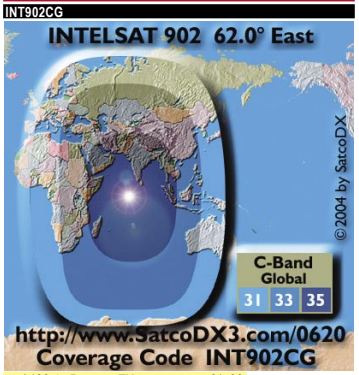


Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.555	H	Animal Planet Europe	29270	
11.555	H	BBC World	29270	
11.555	H	Discovery Travel & A	29270	
11.555	H	El Arna	29270	
11.555	H	Fox Kids Russia & Tu	29270	
11.555	H	Hallmark Channel (Ru	29270	
11.555	H	KTK TV	29270	
11.555	H	MTV Russia	29270	
11.555	H	NTK	29270	
11.555	H	NTV	29270	
11.555	H	Rakhat TV	29270	
11.555	H	TV XXI	29270	
11.595	H	Discovery Channel Ru	29270	
11.595	H	EuroNews	29270	
11.595	H	Eurosport Russia	29270	
11.595	H	Kazakhstan TV	29270	
11.595	H	Khabar TV	29270	
11.595	H	MCM Europe	29270	
11.595	H	ORT Kazakhstan	29270	
11.595	H	Telekanal Rossiya	29270	

INTELSAT 902

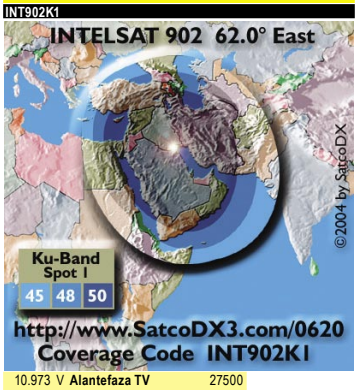
62.0 East

INT902CG



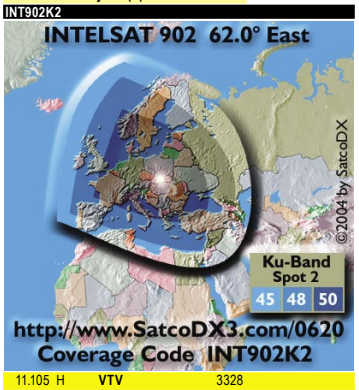
Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
4.180	L	Reuters TV	31530	
4.180	L	Sky News Intl	31530	
4.180	L	ABC	31530	
4.180	L	Arqiva OU ch 2	31530	
4.180	L	Arqiva OU ch1	31530	
4.180	L	Intelsat 2	31530	

INT902K1



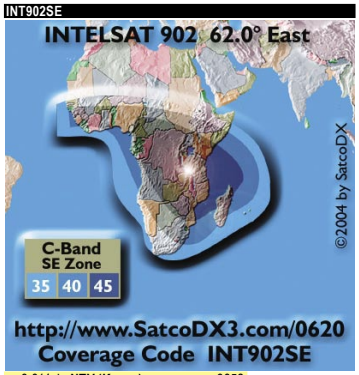
Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
10.973	V	Alantefaza TV	27500	
10.973	V	IRIB TV1	27500	
10.973	V	IRIB TV2	27500	
10.973	V	IRIB TV3	27500	
10.973	V	IRIB TV4	27500	
10.973	V	IRIB TV5	27500	
10.973	V	Jaam-e-Jam Internati	27500	
11.043	V	Khozestan TV	3600	
11.068	V	Mazandaran TV	3610	
11.073	V	Azarbayjan TV	3600	
11.078	V	Khorasan TV	3610	
11.083	V	Esfahan TV	3600	
11.088	V	Yazd TV	3610	
11.093	V	Kerman TV	3600	
11.103	V	Fars	10000	
11.103	V	Fars TV	10000	
11.103	V	feed	10000	
11.103	V	khalij fars(T)	10000	

INT902K2



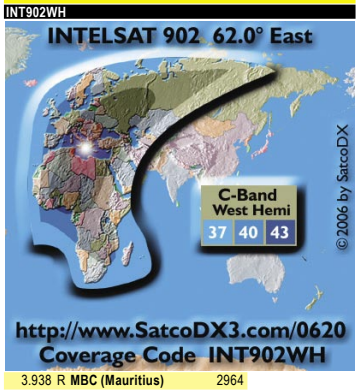
Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.105	H	VTV	3328	
11.108	H	A1 PLUS	2170	
11.148	H	KISS TV	2710	
11.152	H	Prima TV	3333	
11.175	H	KANAL-D	3333	
11.186	H	AXA TV	2046	
11.189	H	TELESHOP	2221	

INT902SE



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
3.814	L	NTV (Kenya)	3852	
3.837	L	Citizen TV	2466	
3.967	L	E.TV	9326	
3.996	L	BTV 2	20000	
3.996	L	BTV 3	20000	
3.996	L	SABC 1	20000	
3.996	L	SABC 2	20000	
3.996	L	SABC 3	20000	
3.996	L	BTV 1	20000	
4.171	R	9xA	3960	
11.151	H	KISS TV	5787	
11.151	H	PRIMA TV	5787	

INT902WH

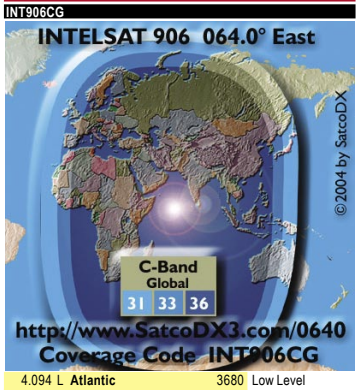


Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
3.938	R	MBC (Mauritius)	2964	

C-Band: INTELSAT 906

64.0 East

INT906CG



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
4.094	L	Atlantic	3680	Low Level
4.094	L	News	3680	Low Level
4.094	L	Sports	3680	Low Level

INT906WH



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
3.654	R	TIM	5632	News + Series
3.654	R	TPA1	5632	News + Series
3.654	R	TV MOZAMBIQUE.	5632	News + Series

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

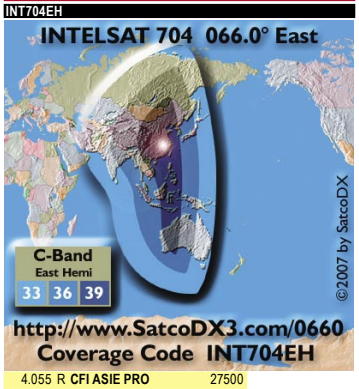
High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

Cost Conscious Entertainment ..... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

C-Band: INTELSAT 704

66.0 East

INT704EH



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
4.055	R	CFI ASIE PRO	27500	
4.055	R	TV5 ASIE	27500	

South Africa

INTELSAT 7, 10

68.5 East

INT007SA

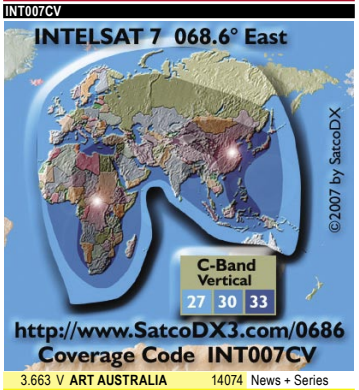


Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
● 10.970	V	AMag	30000	News + Series
10.970	H	AMag+	30000	Quality Entertain.
10.970	H	AnimP	30000	News + Series
● 10.970	V	BLITZ	30000	Quality Entertain.
10.970	H	CCTV4	30000	Quality Entertain.
10.970	H	CCTV9	30000	News + Series
● 10.970	V	CNN	30000	Quality Entertain.
● 10.970	V	CSN	30000	News + Series
● 10.970	V	EuroN	30000	News + Series
10.970	H	Globo	30000	News + Series
● 10.970	V	Home	30000	News + Series
10.970	H	ISLM	30000	News + Series
● 10.970	V	KykNT	30000	Quality Entertain.
10.970	H	MNA	30000	News + Series
10.970	H	NDTV	30000	News + Series
● 10.970	V	Rhema	30000	Low Level
10.970	H	SIC	30000	Quality Entertain.
● 10.970	V	SkyN	30000	News + Series
● 10.970	V	SS6	30000	News + Series
● 10.970	V	SS7	30000	News + Series
10.970	H	TBN	30000	News + Series
● 10.970	V	ZeeTV	30000	Quality Entertain.
10.970	H	ZTV	30000	News + Series
● 10.970	V	iSZone	30000	News + Series
10.970	H	RingT	30000	Advertisement
● 11.010	V	PVOD	30000	Cost Saving Enter.
11.010	H	3SAT	30000	Quality Entertain.
11.010	H	ANMAX	30000	Quality Entertain.
11.010	H	ARD	30000	News + Series
11.010	H	B4U	30000	Quality Entertain.
11.010	H	BVN	30000	News + Series
11.010	H	DW	30000	News + Series
11.010	H	ERT	30000	Quality Entertain.
11.010	H	FTV	30000	News + Series
11.010	V	Fut13	30000	Home Cinema
● 11.010	V	Fut16 (ex-games)	30000	Low Level
11.010	H	Fut19 (ex IQRAA)	30000	News + Series
11.010	V	Learn	30000	Home Cinema
11.010	V	LTV	30000	Quality Entertain.
11.010	V	MK	30000	Quality Entertain.
11.010	H	PRO7	30000	News + Series
11.010	H	RAI	30000	News + Series
11.010	H	RTL	30000	Quality Entertain.
11.010	H	RTPi	30000	Quality Entertain.
11.010	V	SABC1	30000	Quality Entertain.
11.010	V	SABC2	30000	Quality Entertain.
11.010	V	SABC3	30000	Quality Entertain.
11.010	H	SAT1	30000	News + Series
11.010	H	ZDF	30000	News + Series
11.010	V	Fut03 (ex-BBC F)	30000	Advertisement
11.010	V	Guide	30000	News + Series
● 11.050	V	BBA	30000	Quality Entertain.
11.050	H	BBC C	30000	Quality Entertain.
11.050	H	BBC E	30000	Quality Entertain.
11.050	H	BBC K	30000	Quality Entertain.
11.050	H	BBC L	30000	Quality Entertain.
● 11.050	V	Boom	30000	News + Series
● 11.050	V	Ch2	30000	Quality Entertain.
11.050	H	ESPNC	30000	Quality Entertain.
● 11.050	V	Fut01	30000	News + Series
● 11.050	V	Fut14 (ex-BBC P)	30000	News + Series
● 11.050	V	HIST	30000	Quality Entertain.
● 11.050	V	iA Virtual 1	30000	Quality Entertain.
● 11.050	V	IGNTN	30000	Quality Entertain.
● 11.050	V	Kowee	30000	News + Series
● 11.050	V	NaGeo	30000	News + Series
● 11.050	V	NBC	30000	Quality Entertain.
11.050	H	Nick	30000	Quality Entertain.
11.050	H	SET A	30000	Quality Entertain.
11.050	H	SMAX	30000	Quality Entertain.
● 11.050	V	SumTV	30000	Quality Entertain.
● 11.050	V	TV5	30000	News + Series
● 11.050	V	VUZU	30000	Quality Entertain.
● 11.050	V	ZnRea	30000	News + Series
11.081	H	Learn	14875	Quality Entertain.
11.081	H	Health	14875	Quality Entertain.
11.090	V	BBC W	30000	News + Series
11.090	V	Bloom	30000	Quality Entertain.
11.090	V	CN	30000	Quality Entertain.
11.090	V	Dsny	30000	News + Series
11.090	V	ESPN	30000	Quality Entertain.
11.090	V	MTV	30000	Quality Entertain.
11.090	V	MTV B	30000	News + Series
● 11.090	V	SONY	30000	Quality Entertain.
11.090	V	Sun	30000	News + Series
11.090	V	TCM	30000	News + Series
11.090	V	Travl	30000	Quality Entertain.
11.090	V	VH1	30000	Quality Entertain.
11.130	H	MntHD	30000	High Qual. Cinema
11.130	V	Actio	30000	Quality Entertain.
11.130	H	AJE	30000	News + Series
11.130	H	eNews	30000	News + Series
11.130	V	eTV	30000	Quality Entertain.
11.130	V	GA1	30000	News + Series
11.130	V	MM2	30000	Quality Entertain.
11.130	V	MStar	30000	Quality Entertain.
11.130	H	Mwld	30000	News + Series
11.130	H	NGwld	30000	News + Series
11.130	H	OneG	30000	News + Series
11.130	V	Parl	30000	News + Series
11.130	V	RT	30000	News + Series
11.130	H	Sowet	30000	News + Series
11.130	V	SS3	30000	Home Cinema
11.130	H	SS4	30000	Quality Entertain.
11.130	V	TelTr	30000	News + Series
11.130	V	TRACE	30000	Low Level
11.130	H	Weath	30000	News + Series
11.130	H	ZNBC	30000	News + Series
● 11.170	V	SEN1	26657	News + Series
● 11.170	V	SEN2	26657	News + Series
● 11.170	V	Ezekiel TV	26657	News + Series
● 11.170	V	Kruiskyk	26657	Low Level
● 11.170	V	LoveWorld	26657	News + Series
● 11.170	V	Maranatha	26657	Low Level
● 11.170	V	SEN3	26657	Quality Entertain.
● 11.170	V	SEN4	26657	Low Level
● 11.170	V	SeN5	26657	News + Series
● 11.170	V	SEN6	26657	Low Level
● 11.565	V	US-ITE	3580	News + Series
● 11.594	V	ChO	27500	Quality Entertain.
● 11.594	V	Disc	27500	News + Series
● 11.594	V	HallM	27500	Quality Entertain.
● 11.594	V	M-Net	27500	News + Series
● 11.594	V	MM1	27500	Quality Entertain.
● 11.594	V	Serie	27500	News + Series
● 11.594	V	SS1	27500	Quality Entertain.
● 11.594	V	SS2	27500	Home Cinema
● 11.594	V	SS5	27500	Low Level
● 11.594	V	SSmax	27500	Quality Entertain.
● 11.625	V	BTV	15000	Home Cinema
● 11.640	V	Telemedia IS-7	4687	Home Cinema
● 11.674	V	Feed1	26657	News + Series
● 11.674	V	SABC1	26657	Quality Entertain.
● 11.674	V	SABC2	26657	News + Series
● 11.674	V	SABC3	26657	Quality Entertain.
● 11.674	V	ASTV	26657	News + Series
● 11.674	V	F24	26657	News + Series
● 11.674	V	GodCh	26657	News + Series
● 11.674	V	ITV	26657	Low Level
12.522	H	Al Jazeera Intl	26657	Low Level
● 12.522	H	Arsenal TV	26657	News + Series
12.522	H	E!	26657	Low Level
● 12.522	H	Eurosportnews / Arse	26657	Quality Entertain.
12.522	H	KidsCo	26657	News + Series
12.522	H	NTA Plus	26657	News + Series
12.522	H	Silverbird	26657	News + Series
12.522	H	Teletoon	26657	News + Series
12.522	H	Zee Cinema	26657	Low Level
● 12.522	H	Zone Club	26657	News + Series
12.522	H	My TV Promo	26657	News + Series
12.562	H	ABN	26657	News + Series
12.562	H	ACBN	26657	Low Level
12.562	H	Apostolic Oneness Ne	26657	Low Level
12.562	H	DBN	26657	Low Level
● 12.562	H	Dove	26657	Low Level
12.562	H	Faith	26657	News + Series
● 12.562	H	GFN	26657	Advertisement
● 12.562	H	Muvi TV	26657	Low Level
12.562	H	Noursat	26657	News + Series
12.562	H	Novo Tempo	26657	News + Series
12.562	H	OMEGA	26657	News + Series
12.562	H	Press TV	26657	News + Series
12.562	H	Supreme Master TV	26657	News + Series
12.562	H	VAN Promo	26657	Low Level
12.575	V	Mana 2	3378	News + Series
12.575	V	Mana Africa	3378	News + Series
12.682	H	3ABN	26657	News + Series
12.682	H	Chosen	26657	News + Series
12.682	H	CVV	26657	News + Series
12.682	H	Day*	26657	News + Series
● 12.682	H	DCLM	26657	Low Level
12.682	H	Emmanuel TV	26657	News + Series
● 12.682	H	ITV	26657	Low Level
12.682	H	KLN	26657	Low Level
12.682	H	LoveWorld	26657	News + Series
12.682	H	Solid Rock	26657	Low Level
● 12.682	H	SWC	26657	Low Level
12.682	H	VwAfr	26657	News + Series
12.722	H	AIT	26657	News + Series
12.722	H	Baby TV	26657	Low Level
12.722	H	BBC World	26657	Low Level
12.722	V	e.tv	26657	Quality Entertain.
12.722	H	FOX	26657	Low Level
12.722	H	MGM	26657	Low Level
12.722	H	My TV Africa	26657	News + Series
12.722	H	NG Adventure	26657	Low Level
12.722	H	Setanta Africa	26657	Quality Entertain.
12.722	H	Trace Tropical	26657	News + Series
12.722	H	Trace TV	26657	News + Series
● 12.722	V	Adonai	26657	News + Series
12.722	V	CTV	26657	News + Series
12.722	V	HOPE	26657	News + Series
12.722	V	SANI	26657	News + Series
12.722	V	SWC	26657	News + Series
12.722	V	WRS	26657	News + Series

C-Band: INTELSAT 7,10

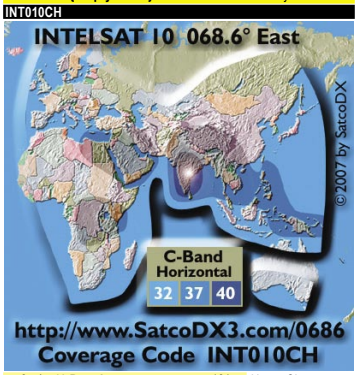
68.6 East

INT007CV



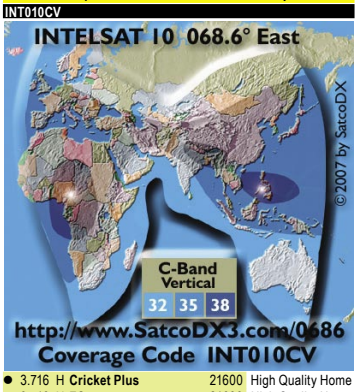
Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
3.663	V	ART AUSTRALIA	14074	News + Series
● 3.663	V	DCLM	14074	News + Series
3.663	V	DM Digital World	14074	News + Series
3.663	V	Noor TV	14074	News + Series
3.663	V	UTV	14074	News + Series
3.663	V	View Asia	14074	News + Series
4.005	H	Service 2	2963	Quality Entertain.
4.012	V	RTV	2200	Advertisement
4.035	V	DD Bharti	19559	Quality Entertain.
4.035	V	DD India	19559	Quality Entertain.
4.035	V	DD News	19559	Quality Entertain.
4.035	V	DD Sports	19559	Home Cinema
4.035	V	DDFeeds CPC	19559	Quality Entertain.
4.166	H	{Empty Name}	3253	Quality Entertain.

INT010CH



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
3.745	H	Premium	16175	Home Cinema
3.745	H	525 English	16175	News + Series
3.745	H	525 Japanese	16175	Quality Entertain.
3.745	H	625 English	16175	Quality Entertain.
3.745	H	625 Japanese	16175	Quality Entertain.
3.766	V	MGM	2948	News + Series
3.769	H	ZEE SPORTS	6500	Quality Entertain.
3.769	H	ZEE SPORTS USA	6500	Quality Entertain.
3.775	V	{Empty Name}	2938	News + Series
3.776	H	HUMTV Service	3300	Quality Entertain.
3.778	V	AASTHA BHAJAN	2938	Quality Entertain.
3.812	H	CNBC-PAKISTAN	3313	News + Series
3.838	H	AT-INT	19850	High Quality Home
● 3.838	H	AT-UK	19850	High Quality Home
3.838	H	HT-INT	19850	High Quality Home
3.838	H	AAJTAK	19850	Quality Entertain.
3.838	H	AAJTAK TEZ	19850	Quality Entertain.
3.838	H	DELHI AAJTAK	19850	News + Series
3.838	H	HEADLINES TODAY	19850	News + Series
3.927	H	A copy of MAX Intern	26500	Quality Entertain.
3.927	H	A copy of SET_Intern	26500	News + Series
3.927	H	A copy of SETMAX	26500	Quality Entertain.
3.927	H	Download 200	26500	News + Series
3.927	H	MAX International	26500	Quality Entertain.
3.927	H	MAX TRAI	26500	Quality Entertain.
3.927	H	MAX_UK	26500	Quality Entertain.
3.927	H	MIDDLE EAST	26500	News + Series
3.927	H	PIX	26500	News + Series
3.927	H	SAB INTL	26500	Quality Entertain.
● 3.927	H	SAB USA	26500	Quality Entertain.
3.927	H	SABTV	26500	News + Series
3.927	H	SET TRAI	26500	Quality Entertain.
3.927	H	SET_Encrypted	26500	Quality Entertain.
3.927	H	SET_Encrypted Finger	26500	Quality Entertain.
3.927	H	SET_International	26500	News + Series
3.927	H	SETMAX	26500	Quality Entertain.
3.974	H	Cartoon India	19500	News + Series
3.974	H	Cartoon India ENGL	19500	News + Series
3.974	H	Cartoon India HIND	19500	News + Series
3.974	H	Cartoon India TAMI	19500	News + Series
3.974	H	Cartoon India TELE	19500	News + Series
3.974	H	Cartoon Pakistan	19500	News + Series
3.974	H	CNN India	19500	Quality Entertain.
3.974	H	HBO India	19500	Quality Entertain.
3.974	H	Pogo	19500	Quality Entertain.
3.974	H	Real Global Broadcas	19500	Quality Entertain.
3.974	H	WB India	19500	News + Series
3.974	H	WB Pakistan	19500	News + Series
4.034	H	COLORS	20500	Home Cinema
4.034	H	MTV India	20500	Quality Entertain.
4.034	H	Nickelodean-Nick Ind	20500	Quality Entertain.
4.034	H	VH1 India	20500	Quality Entertain.
4.034	H	XYZ	20500	Quality Entertain.
4.064	H	Discovery	19850	Quality Entertain.
4.064	H	SIS	19850	Quality Entertain.
4.064	H	Al Jazeera	19850	Quality Entertain.
4.064	H	EWTN	19850	Quality Entertain.
4.104	H	IBN	5720	Quality Entertain.
4.104	H	SAW	5720	News + Series
4.117	V	PEACE TV ENG	8145	Home Cinema
4.117	V	PEACE TV URDU	8145	Home Cinema
4.119	H	SAMAA	3330	News + Series
4.127	H	DAWN NEWS TV	3255	Quality Entertain.
4.144	H	ROHI TV	3306	Quality Entertain.
4.151	H	DUNYA ENT.	6600	Quality Entertain.
4.151	H	DUNYA NEWS	6600	Home Cinema
4.160	H	Express 24/7	6510	Quality Entertain.
4.160	H	Express Urdu	6510	Quality Entertain.

INT010CV

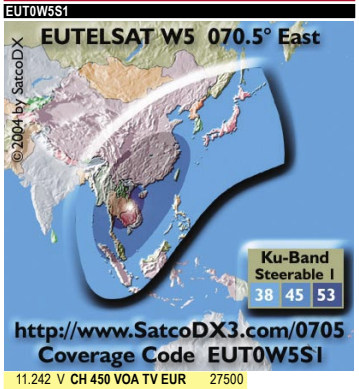


Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
● 3.716	H	Cricket Plus	21600	High Quality Home
● 3.716	H	FC	21600	High Quality Home
● 3.716	H	GOAL TV1	21600	High Quality Home
● 3.716	H	GOAL TV2	21600	High Quality Home
● 3.716	H	Ten SI	21600	High Quality Home
● 3.716	H	Ten SP	21600	High Quality Home
● 3.716	H	TS ME	21600	High Quality Home
● 3.716	H	Zee America	21600	High Quality Home
● 3.716	H	Zee Sports	21600	High Quality Home
● 3.716	H	CH-10	21600	High Quality Home
● 3.716	V	BBA	20600	News + Series
3.716	V	BBC E	20600	News + Series
3.716	V	BBC L	20600	News + Series
3.716	V	E!	20600	News + Series
3.716	V	Learn	20600	News + Series
3.716	V	MM1	20600	News + Series
3.716	V	MNetE	20600	News + Series
3.716	V	MNetW	20600	Low Level
3.716	V	SS1	20600	Quality Entertain.
3.745	V	AMag	20600	News + Series
3.745	V	BLITZ	20600	News + Series
3.745	V	C+H	20600	News + Series
3.745	V	ChO	20600	News + Series
3.745	V	CNN	20600	Quality Entertain.
3.745	V	Dsny	20600	News + Series
3.745	V	MStar	20600	News + Series
3.745	V	SS2	20600	News + Series
3.745	V	SS3Ni	20600	Quality Entertain.
3.784	V	CGNTV	2964	Quality Entertain.
3.788	V	India - Australia Ne	3617	Quality Entertain.
3.797	V	AVT KHYBER	7300	Quality Entertain.
3.797	V	K2	7300	Quality Entertain.
3.797	V	KHYBER NEWS	7300	News + Series
3.802	H	TIMES NOW	10000	Quality Entertain.
3.802	H	ZOOM	10000	Quality Entertain.
3.802	H	ET NOW	10000	Quality Entertain.
3.809	V	Rai Africa	10340	News + Series
3.809	V	Reality TV	10340	News + Series
3.809	V	God Asia	10340	News + Series
3.809	V	Supreme Master TV	10340	Quality Entertain.
3.838	V	Actio	20600	Low Level
3.838	V	BBC W	20600	Low Level
3.838	V	CN	20600	News + Series
3.838	V	Disc	20600	News + Series
3.838	V	ESPN	20600	Quality Entertain.
3.838	V	HallM	20600	News + Series
3.838	V	MTV	20600	Low Level
3.838	V	NaGeo	20600	Quality Entertain.
3.838	V	SS7	20600	News + Series
3.838	V	TV5	20600	News + Series
3.863	V	Bloom	20600	News + Series
3.863	V	FTV	20600	News + Series
3.863	V	HIST	20600	News + Series
3.863	V	MM2	20600	News + Series
3.863	V	Rhema	20600	News + Series
3.863	V	Serie	20600	Low Level
3.863	V	SkyN	20600	News + Series
3.863	V	SS3	20600	Quality Entertain.
3.863	V	SS5	20600	Quality Entertain.
3.863	V	SS6	20600	Quality Entertain.
3.863	V	Travl	20600	News + Series
3.863	V	ZnRea	20600	News + Series
● 3.864	H	ARY Digital Middle	19850	News + Series
3.864	H	ARY Digital UK	19850	News + Series
3.864	H	ARY Digital USA	19850	News + Series
● 3.864	H	ARY News	19850	Quality Entertain.
3.864	H	HBO ARY	19850	News + Series
● 3.864	H	ARY Digital Asia	19850	Quality Entertain.
● 3.864	H	ARY Musik	19850	News + Series
● 3.864	H	ARY News	19850	Quality Entertain.
3.864	H	ARY Qtv	19850	News + Series
3.900	V	Nimbus 1	12300	Home Cinema

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
3.900	V	Nimbus 2	12300	Home Cinema
3.915	V	KBS WORLD P	6510	Quality Entertain.
3.915	V	YTN P	6510	Quality Entertain.
3.926	V	FETV 0	3000	Quality Entertain.
3.974	V	APL India	19850	Quality Entertain.
3.974	V	BBC World News	19850	Quality Entertain.
3.974	V	DSC India - English	19850	Home Cinema
3.974	V	DSC India - Hindi	19850	Home Cinema
3.974	V	DSC India - Tamil	19850	News + Series
3.974	V	DTL India	19850	Quality Entertain.
3.974	V	Encoder 4	19850	News + Series
3.974	V	Encoder 6	19850	Quality Entertain.
3.974	V	test	19850	News + Series
4.055	V	AirangTV W1	4400	Quality Entertain.
4.060	V	CTS	3530	Quality Entertain.
4.071	V	Hope Channel Intl	3002	News + Series
4.071	V	Hope Intl Alt Lang 1	3002	News + Series
4.071	V	Hope Intl Alt Lang 2	3002	News + Series
4.071	V	Hope Intl Alt Lang 3	3002	News + Series
4.071	V	Hope Intl Alt Lang 4	3002	News + Series
4.071	V	Hope Intl Alt Lang 5	3002	News + Series
4.071	V	Hope Intl Alt Lang 6	3002	News + Series
4.076	V	Hungama	4000	Quality Entertain.
4.088	H	CCTV 4	9375	News + Series
4.088	H	CCTV 9	9375	News + Series
4.088	H	CCTV E	9375	News + Series
4.088	H	CCTV F	9375	News + Series
4.174	V	INDIA TV	3000	Quality Entertain.
4.185	H	24x7	20000	Quality Entertain.
4.185	H	ChenM	20000	News + Series
4.185	H	INDIA	20000	News + Series
4.185	H	METRO	20000	News + Series
4.185	H	PROFIT	20000	Quality Entertain.
4.185	H	TEST2	20000	News + Series
4.185	H	TEST3	20000	News + Series
4.185	H	TEST4	20000	News + Series
4.190	V	IMAGINE	12207	Home Cinema
4.190	V	LIFEST	12207	News + Series
4.190	V	LUMIER	12207	Low Level
4.190	V	SHWBIZ	12207	Quality Entertain.

South East Asia
EUTELSAT W5
70.5 East

EUT0W5S1



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.242	V	CH 450 VOA TV EUR	27500	
11.242	V	CH 452 VOA TV ASI	27500	
11.242	V	CH 453 VOA/RFE/RL	27500	
11.242	V	CH 454 VOA/RFE/RL	27500	
11.242	V	CH 455 VOA/RFE/RL	27500	
11.305	V	AIT International	17360	
11.305	V	C-Music	17360	
11.305	V	EuroNews Asia	17360	
11.334	V	NTD TV	6511	

Europe
EUTELSAT W5
70.6 East

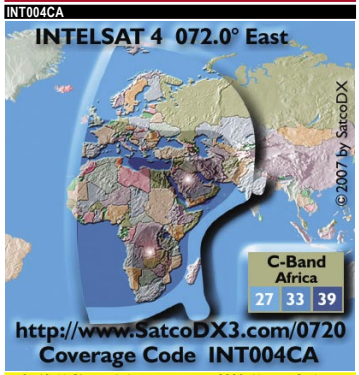
EUT0W5WB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.177	H	DSNG LHR	1682	Advertisement
11.210	H	ENG	6509	Quality Entertain.
11.210	H	FR	6509	Quality Entertain.

Africa
C-Band: INTELSAT 4
72.0 East

INT004CA



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.710	H	Channel 1	2083	News + Series
3.730	H	CCTV	10500	News + Series
3.730	H	DCC	10500	News + Series
3.730	H	RTGA	10500	News + Series
3.730	H	RTNC 1	10500	Quality Entertain.

C-Band: INSAT 3C
74.0 East

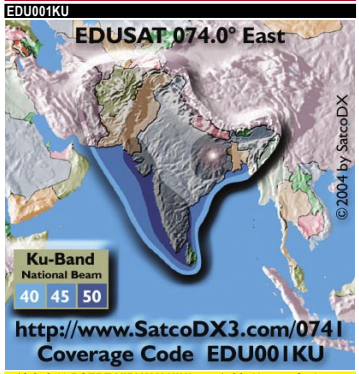
INS003CB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.780	H	DD NATIONAL 3C	6250	Home Cinema
4.166	H	CEC-UGC-4	26000	Quality Entertain.
4.166	H	EKLAVYA-3	26000	Quality Entertain.
4.166	H	GYANDARSHAN-1	26000	News + Series
4.166	H	GYANDARSHAN-2	26000	News + Series
4.166	H	GYANVANI-6	26000	News + Series
4.166	H	KISAN-5	26000	News + Series

EDUSAT, INSAT 4CR
74.1 East

EDU001KU



Freq	Pol	Channel Name	Symbol Rate	Programming Type
10.953	H	DSERT-VIDYAVAHINI	1700	News + Series
10.957	H	vtu-edusat	1808	News + Series
10.966	H	SLRC2	2143	Advertisement
10.969	H	KAIRALI TV	2000	News + Series
10.978	H	VICTERS	3000	Low Level
11.470	V	Aakash Bangla	28800	High Quality Home
11.470	H	CHUTTI TV	28800	High Quality Home
11.470	V	NGC	28800	High Quality Home
11.470	H	SAB TV	28800	High Quality Home
11.470	H	SET MAX	28800	High Quality Home
11.550	H	CARTOON NETWORK	28800	High Quality Home
11.550	H	NICK	28800	High Quality Home
11.550	H	Pogo	28800	High Quality Home
11.630	H	ANIMAL PLANET	28800	High Quality Home
11.630	H	DISCOVERY	28800	High Quality Home
11.630	H	ZEE KANNADA	28800	High Quality Home

South-East Asia
ABS-1
74.9 East

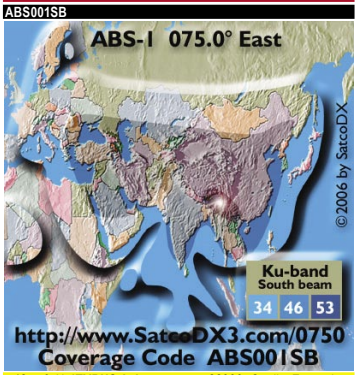
ABS001NB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
12.519	V	Israel+	22000	News + Series
12.519	V	TV1000 Action East	22000	Quality Entertain.
12.519	V	TV1000 Action+21	22000	Quality Entertain.
12.519	V	TV1000 East (FSS)	22000	Quality Entertain.
12.519	V	TV1000 Ru Kino	22000	Quality Entertain.
12.519	V	Viasat Explorer (FSS	22000	Quality Entertain.
12.519	V	Viasat History (FSS)	22000	Quality Entertain.
12.519	V	Viasat Sport	22000	Quality Entertain.
12.519	V	DTV-2	22000	Quality Entertain.
12.549	V	24Techno	22000	News + Series
12.549	V	Detsky	22000	News + Series
12.549	V	Eurokino	22000	News + Series
12.549	V	HCT	22000	News + Series
12.549	V	illuzion +	22000	News + Series
12.549	V	Nickelodeon	22000	News + Series
12.549	V	Russkij illuzion	22000	Quality Entertain.
12.549	V	Russkiy Extream	22000	Quality Entertain.
12.549	V	TV-21	22000	News + Series
12.549	V	Zoo	22000	Quality Entertain.
12.549	V	Fashion-TV	22000	News + Series
12.579	V	3DOPOBOE TB	22000	News + Series
12.579	V	DRIVE	22000	News + Series
12.579	V	OXOTA&PbIBALKA	22000	News + Series
12.579	V	PETPO	22000	News + Series
12.579	V	USADBA	22000	News + Series
12.579	V	A-ONE	22000	Quality Entertain.
12.579	V	DOMASHNIE ZHIVOTN	22000	News + Series
12.579	V	PSYCHOLOGY 21	22000	News + Series
12.579	V	Topshop TV	22000	News + Series
12.579	V	TV-Sale	22000	Quality Entertain.
12.579	V	VOPROSY & OTVETY	22000	Quality Entertain.
12.610	V	AXN-ScFi-Ru	22000	News + Series
12.610	V	Fenix + Kino	22000	News + Series
12.610	V	Fox Crime	22000	Low Level
12.610	V	Fox Life	22000	Low Level
12.610	V	Jetix Russia	22000	Low Level
12.610	V	Kultura Telekanal	22000	News + Series
12.610	V	SET Russia	22000	Quality Entertain.
12.610	V	Telekanal Rossiya	22000	Low Level
12.610	V	Telekanal Sport	22000	Low Level
12.610	V	VESTI	22000	Low Level
12.610	V	Prodengi	22000	Quality Entertain.
12.610	V	RUSSIA TODAY	22000	Quality Entertain.
12.641	V	HOME+7R	22000	Quality Entertain.
12.641	V	Multimania	22000	News + Series
12.641	V	CTC+7	22000	Quality Entertain.
12.641	V	DTV-0	22000	Quality Entertain.
12.641	V	HTB	22000	Home Cinema
12.641	V	RBC TV	22000	Quality Entertain.
12.671	V	Animal Planet Russia	22000	Quality Entertain.
12.671	V	Discovery Channel	22000	Quality Entertain.
12.671	V	ESP Russian	22000	Quality Entertain.
12.671	V	ESP2 Russian	22000	Quality Entertain.
12.671	V	Eurosport Raduga	22000	Quality Entertain.
12.671	V	Eurosport2 Raduga	22000	Quality Entertain.
12.671	V	Mat' i Ditya	22000	Quality Entertain.
12.671	V	NAT GEO	22000	Quality Entertain.
12.671	V	2X2	22000	Quality Entertain.
12.671	V	LUXE TV	22000	Quality Entertain.
12.671	V	TVclub	22000	News + Series
12.704	V	NTS	3900	Home Cinema
12.732	V	RZD	22000	High Quality Home
12.732	V	Perviy Kanal	22000	Quality Entertain.
12.732	V	Telecafe	22000	News + Series
12.732	V	ZHIVI	22000	Quality Entertain.
12.732	V	Gameplay	22000	News + Series
12.732	V	InterAz	22000	News + Series
12.732	V	MIR	22000	Quality Entertain.
12.732	V	MIR Service	22000	Low Level
12.732	V	MIR+3	22000	Quality Entertain.
12.732	V	Moscow	22000	News + Series
12.732	V	TNV	22000	Low Level
12.732	V	TPO	22000	Quality Entertain.

South-East Asia
ABS-1
75.0 East

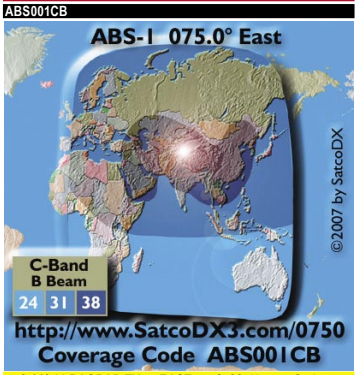
ABS001SB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
12.579	H	1TVRUS Asia	22000	Quality Entertain.
12.579	H	3ABN International	22000	News + Series
12.579	H	Al Hayat TV	22000	Low Level
12.579	H	APOSTOLIC ONENESS	22000	Low Level
12.579	H	HCBN	22000	News + Series
12.579	H	NET-25	22000	News + Series
12.579	H	Smile of A Child	22000	Quality Entertain.
12.579	H	Supreme Master TV	22000	Quality Entertain.
12.579	H	TBN	22000	News + Series
12.579	H	The Church Channel	22000	News + Series
12.579	H	TVCI	22000	News + Series
12.600	H	SCOPUS-NET-TECH	5168	News + Series

C-Band: ABS-1
75.1 East

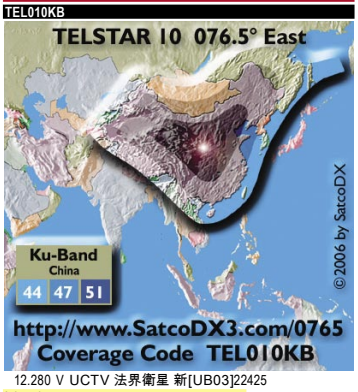
ABS001CB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.449	V	BAGDAD TV 75 EAST	2500	News + Series
3.660	H	ITV+	27500	News + Series
3.660	H	Trace_TV	27500	News + Series
3.660	H	World Fashion Channe	27500	News + Series
3.660	H	GCN TV	27500	News + Series
3.660	H	Outdoor_Channel	27500	Quality Entertain.

TELSTAR 10
76.5 East

TEL010KB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
12.280	V	UCTV 法界衛星 新[UB03]	22425	Advertisement
12.280	V	AD-HOC[UB05]	22425	Advertisement
12.280	V	BLTV 人間衛視 [UB02]	22425	News + Series
12.280	V	CONGRESS 國會衛星 [UB022]	22425	Advertisement
12.280	V	HZ 華藏[UB07]	22425	Advertisement
12.280	V	LIFE TV 生命電視台[UB042]	22425	Advertisement
12.280	V	MAC TV 宏觀(UB10]	22425	Advertisement
12.280	V	TZUCHI 慈濟大愛 [UB012]	22425	Home Cinema
12.280	V	預備頻道[UB06]	22425	Advertisement
12.280	V	蓮萊綜合台[UB09]	22425	Advertisement
12.308	V	CSN °ê®ô[UB306]	22425	News + Series
12.308	V	EF TV'B²q[UB304]	22425	News + Series
12.308	V	HB ¤¤µØ¥ø·~ [UB303]	22425	News + Series
12.308	V	HS «i¥Í[UB307]	22425	News + Series
12.308	V	NULL (UB309)	22425	News + Series
12.308	V	TACT¥xÂÀ[UB301]	22425	News + Series
12.308	V	FINANCE °]°T°],g¥x	22425	News + Series
12.308	V	SBN ¾Ç²i°],g[UB308]	22425	News + Series

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

Cost Conscious Entertainment .... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
12.308	V	World ¥@¬É[UB302]	22425	News + Series
●12.406	V	CTI-2 中天綜合	30000	News + Series
●12.406	V	CTI-3 中天娛樂	30000	News + Series
●12.406	V	ETTV Drama 東森戲劇30000		
News + Series				
●12.406	V	ETTV FMovie 東森洋片30000		
Quality Entertain.				
●12.406	V	ETTV Movie 東森電影30000		News + Series
●12.406	V	GOLDSUN TV 國興衛視30000		
Quality Entertain.				
●12.406	V	Hollywood 好萊塢電影30000		News + Series
●12.406	V	STV 超視	30000	Quality Entertain.
●12.406	V	YoYo TV 東森幼幼	30000	News + Series
●12.406	V	afa TV 華人商業	30000	Quality Entertain.
●12.406	V	BLTV 人間	30000	Quality Entertain.
●12.406	V	CTI-1 中天新聞	30000	Quality Entertain.
●12.435	V	CH3B20	15000	News + Series
●12.435	V	ETTV Variety 東森綜合15000		
News + Series				
●12.435	V	HI-Play	15000	News + Series
●12.435	V	HOT	15000	News + Series
●12.435	V	AZIO 東風衛視	15000	News + Series
●12.435	V	ERA NEWS 年代新聞	15000	News + Series
●12.435	V	ETTV NEWS 東森新聞	15000	Quality Entertain.
●12.435	V	MUCH TV	15000	News + Series
12.462	V	Boss Golf 博斯高球	22425	Quality Entertain.
12.462	V	Asia Trave 亞洲旅遊	22425	News + Series
12.462	V	CTS 華視	22425	News + Series
12.462	V	CTV 中視	22425	News + Series
12.462	V	FTV 民視	22425	Quality Entertain.
●12.462	V	PR-CH 公告頻道	22425	Low Level
12.462	V	PTS 公視 (Dimo)	22425	News + Series
12.462	V	TTV台視	22425	Quality Entertain.
12.462	V	TVBS	22425	News + Series
12.491	V	DesireTV	22425	Quality Entertain.
12.491	V	CITV-Asia	22425	Quality Entertain.
12.491	V	DISNEY 迪士尼	22425	Quality Entertain.
12.491	V	FTV News	22425	Quality Entertain.
12.491	V	SETI 三立國際	22425	Quality Entertain.
12.491	V	TVBS-G	22425	Quality Entertain.
12.491	V	TVBS-N	22425	Quality Entertain.
12.491	V	UNTV	22425	Quality Entertain.
●12.530	V	BOSS S1 足1	30000	Quality Entertain.
●12.530	V	BOSS S2 足2	30000	News + Series
●12.530	V	BOSS Sport 運動網	30000	Quality Entertain.
●12.530	V	BOSS T 網球	30000	Quality Entertain.
●12.530	V	ET ASIA 東森亞洲衛視30000		News + Series
●12.530	V	JET	30000	News + Series
●12.530	V	MYLIFE 中視綜藝	30000	News + Series
●12.530	V	Phoenix/ET NEWS 鳳凰30000		
News + Series				
●12.530	V	R1	30000	News + Series
●12.530	V	R2	30000	News + Series
●12.530	V	Time Movie 時代戲劇	30000	News + Series
●12.530	V	CH5B13	30000	Advertisement
●12.530	V	CH5B14	30000	Advertisement
●12.530	V	CH5B15	30000	Advertisement
●12.530	V	CH5B16	30000	Advertisement
●12.530	V	CH5B17	30000	Advertisement
●12.530	V	DAAI 慈濟大愛	30000	News + Series

C-Band: TELSTAR 10

76.6 East

TEL010CG

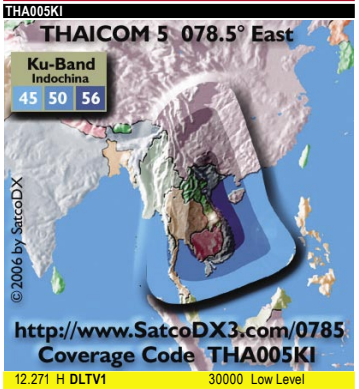


3.647	V	Racing International	5065	Quality Entertain.
● 3.647	V	SA Clean Feed	5065	News + Series
3.657	H	SHANGRI-LA TV	3215	Quality Entertain.
3.680	H	BBC Entertainment	27500	Quality Entertain.
3.680	H	BBC Knowledge	27500	Quality Entertain.
3.680	H	BBC LifeStyle	27500	Quality Entertain.
3.680	H	CBeeBies	27500	Quality Entertain.
3.680	H	CBeeBies Hindi	27500	Quality Entertain.
● 3.680	H	Adhoc Feed	27500	Quality Entertain.
3.680	H	ERT	27500	Quality Entertain.
3.706	V	GLTV	6715	Quality Entertain.
3.706	V	International 2	6715	Quality Entertain.
3.716	V	Music & Laughter	4800	Quality Entertain.
3.716	V	Pinoy Extreme	4800	Quality Entertain.
3.720	H	Hallmark Asia NTSC	29270	Quality Entertain.
3.720	H	Hallmark Asia NTSC	29270	Quality Entertain.
3.720	H	Hallmark Asia NTSC	29270	Quality Entertain.
3.720	H	Hallmark Asia PAL	29270	Quality Entertain.
3.720	H	Hallmark Asia PAL	29270	News + Series
3.720	H	Hallmark Asia PAL	29270	Quality Entertain.
3.720	H	Hallmark Asia PAL	29270	Quality Entertain.
3.720	H	KidsCO AA NTSC	29270	Quality Entertain.
● 3.720	H	KidsCO AA NTSC Man	29270	Quality Entertain.
3.720	H	KidsCO AA PAL	29270	Quality Entertain.
● 3.720	H	KidsCO AA PAL Mand	29270	Quality Entertain.
3.720	H	KidsCO AA PAL Viet	29270	News + Series
3.720	H	KidsCO Cantonese Fee	29270	Quality Entertain.
3.720	H	SciFi	29270	Quality Entertain.
3.720	H	Univ	29270	Quality Entertain.
3.720	H	Virtual Hallmark A	29270	Quality Entertain.
3.720	H	Virtual Hallmark A	29270	Quality Entertain.
3.720	H	OU	29270	Quality Entertain.
3.760	H	Al Shasha	28066	News + Series
3.760	H	CH515	28066	News + Series
3.760	H	CH516	28066	News + Series
3.760	H	CH517	28066	Low Level
3.760	H	ESC1	28066	News + Series
3.760	H	Kanal 7	28066	News + Series
3.760	H	Mazzika Zoom	28066	News + Series
3.760	H	New TV	28066	Low Level
3.760	H	Nile Drama	28066	News + Series
3.760	H	Nile Variety	28066	News + Series
● 3.760	H	Rotana Clip	28066	Low Level
3.760	H	Tele Liban	28066	News + Series
3.760	H	Dubai Sports	28066	News + Series
3.760	H	Dubai TV	28066	News + Series
3.760	H	Sama Dubai	28066	News + Series
3.780	V	4E	28066	Low Level
3.780	V	Ad Hoc	28066	News + Series
3.780	V	Alpha	28066	News + Series
3.780	V	Alter	28066	News + Series
3.780	V	ATV	28066	News + Series
3.780	V	Euro D	28066	News + Series
3.780	V	Euro Star	28066	News + Series
3.780	V	Mad World	28066	Quality Entertain.
3.780	V	Mega Cosmos	28066	Low Level
3.780	V	NTV Turkiye	28066	Low Level
3.780	V	STAR	28066	News + Series
3.780	V	Aghapy TV	28066	Low Level
3.780	V	ERT	28066	Low Level
3.780	V	RIKSat	28066	Low Level
3.780	V	STV	28066	Quality Entertain.
3.787	H	ETV ENC B	4600	Home Cinema
3.793	H	Diganta TV	4340	Home Cinema
3.840	H	Fashion TV	27500	High Quality Home
3.840	H	BFTV	27500	News + Series
3.840	H	CDBS	27500	Quality Entertain.
3.840	H	DVB	27500	News + Series
3.840	H	LOVE MUSIC	27500	News + Series
3.840	H	My TV	27500	News + Series
● 3.840	H	Sonar Bangala TV	27500	News + Series
● 3.880	H	Cue-tone Test	28125	Quality Entertain.
3.880	H	DC-Asia (Bahasa)	28125	Quality Entertain.
3.880	H	DC-Asia (NTSC) Phi	28125	Quality Entertain.
3.880	H	DC-Asia (NTSC) Phi	28125	Quality Entertain.
3.880	H	DC-Asia (PAL)	28125	Quality Entertain.
3.880	H	DC-Asia (Thai)	28125	Quality Entertain.
3.880	H	DC-Asia with Cue-Ton	28125	Quality Entertain.
3.880	H	DC-India (English)	28125	Quality Entertain.
3.880	H	DC-India (Hindi)	28125	Quality Entertain.
3.880	H	DC-India (Tamil)	28125	Quality Entertain.
3.880	H	DC-India (Telugu)	28125	Quality Entertain.
3.880	H	DC-Korea (NTSC) w/	28125	Quality Entertain.
3.880	H	PDC-Asia (Bahasa)	28125	Quality Entertain.
3.880	H	PDC-Asia (Bahasa)	28125	Quality Entertain.
3.880	H	PDC-Asia (NTSC)	28125	Quality Entertain.
3.880	H	PDC-Asia (PAL)	28125	Quality Entertain.
3.880	H	PDC-Asia (Thai)	28125	Quality Entertain.
3.880	H	PDC-India (English)	28125	Quality Entertain.
3.880	H	PHD-Vietnam (PAL)	28125	Quality Entertain.
● 3.880	H	StarHub Test	28125	Quality Entertain.
3.880	H	Toon-India (English)	28125	Quality Entertain.
3.880	H	Toon-India (Hindi)	28125	Quality Entertain.
3.880	H	Toon-India (Tamil)	28125	Quality Entertain.
3.880	H	Toon-India (Telugu)	28125	Quality Entertain.
3.921	H	Animax Hong Kong	28343	News + Series
3.921	H	Animax Philippines	28343	Quality Entertain.
3.921	H	Animax Philippines	28343	News + Series
3.921	H	Animax Sout East Asi	28343	Quality Entertain.
3.921	H	Animax Sout East A	28343	Quality Entertain.
3.921	H	Animax South Asia	28343	News + Series
3.921	H	Animax Taiwan	28343	News + Series
3.921	H	Animax_HK_56	28343	News + Series
3.921	H	Animx_HK_78	28343	News + Series
3.921	H	AXN Beyond	28343	News + Series
3.921	H	AXN Beyond EA	28343	Quality Entertain.
3.921	H	AXN Beyond_A3QT	28343	Quality Entertain.
3.921	H	AXN East Asia 2	28343	News + Series
3.921	H	AXN Pakistan	28343	News + Series
3.921	H	AXN Philippines	28343	News + Series
3.921	H	AXN Rest of Asia	28343	News + Series
3.921	H	AXN South Asia	28343	Quality Entertain.
3.921	H	AXN Taiwan	28343	News + Series
3.921	H	CH 6	28343	Quality Entertain.
3.921	H	EA Business IRD	28343	News + Series
3.921	H	EA2 Business	28343	News + Series
3.921	H	Philippines Business	28343	News + Series
3.921	H	SEA Business IRD A	28343	News + Series
3.921	H	Software Download	28343	News + Series
3.921	H	SPESET_EA	28343	News + Series
3.921	H	Test	28343	News + Series
4.004	H	Channel One	4080	Quality Entertain.
4.010	H	BOISHAKHI TV	4300	Home Cinema
● 4.016	H	Desh TV	4340	Quality Entertain.
4.031	V	TVM	6312	Quality Entertain.
4.035	H	CHANNEL-I	4300	Home Cinema
4.050	H	Bangla Vision	3600	Quality Entertain.
4.057	H	Service 2	3213	Quality Entertain.
● 4.071	H	T10 Feed	13021	Quality Entertain.
● 4.085	H	SingTel	2530	News + Series
4.107	H	MNC INTERNATIONAL	3123	Quality Entertain.
● 4.146	H	DEFAULT	3598	Quality Entertain.
4.174	H	nTV DVB	7400	Quality Entertain.
4.174	H	RTV DVB	7400	Quality Entertain.

THAICOM 5

78.5 East

THA005KI

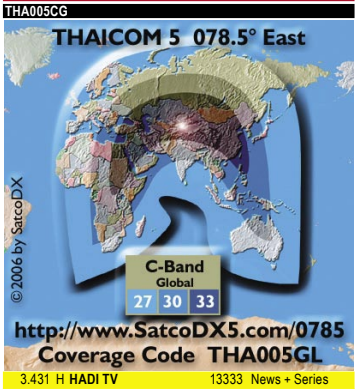


12.271	H	DLTV1	30000	Low Level
12.271	H	DLTV10	30000	Low Level
12.271	H	DLTV11	30000	Low Level
12.271	H	DLTV12	30000	Low Level
12.271	H	DLTV13	30000	News + Series
12.271	H	DLTV14	30000	Low Level
12.271	H	DLTV15	30000	Advertisement
12.271	H	DLTV2	30000	Low Level
12.271	H	DLTV3	30000	Low Level
12.271	H	DLTV4	30000	News + Series
12.271	H	DLTV5	30000	Low Level
12.271	H	DLTV6	30000	News + Series
12.271	H	DLTV7	30000	Low Level
12.271	H	DLTV8	30000	Low Level
12.271	H	DLTV9	30000	Low Level
12.271	H	ETV	30000	News + Series
12.271	H	MONY	30000	News + Series
12.271	H	TGN	30000	Quality Entertain.
●12.313	H	ACTS Channel	30000	News + Series
12.313	H	Busaba Cafe	30000	Low Level
●12.313	V	D-Channel	30000	Quality Entertain.
●12.313	H	Farm Channel	30000	Quality Entertain.
12.313	H	Future Channel	30000	Low Level
●12.313	V	GREEN Channel	30000	Low Level
●12.313	V	Modern9 TV	30000	Quality Entertain.
●12.313	H	Nation Channel1	30000	News + Series
12.313	H	NBT	30000	Quality Entertain.
12.313	H	Siam Sport Channel	30000	News + Series
●12.313	V	Thai TV3	30000	Quality Entertain.
●12.313	V	TPBS	30000	Quality Entertain.
12.313	H	TV 5	30000	Quality Entertain.
12.313	H	TV 7	30000	Quality Entertain.
●12.313	V	TV Pool	30000	Low Level
12.313	H	Dhamma	30000	Low Level
12.313	H	Future Channel	30000	Low Level
12.313	H	Parliament TV	30000	Low Level
12.355	H	Australia Television	30000	News + Series
12.355	H	Bang Channel	30000	News + Series
12.355	H	Cartoon Club	30000	News + Series
12.355	H	D-Asian	30000	Low Level
12.355	H	D-Movie	30000	News + Series
12.355	H	FOX Crime	30000	Quality Entertain.
●12.355	H	Future Channel	30000	Low Level
12.355	H	Music Lifestyle	30000	Quality Entertain.
12.355	H	Nat Geo Wild	30000	Quality Entertain.
12.355	H	Next Step Television	30000	News + Series
12.355	H	Real Metro	30000	News + Series
12.355	H	Samrujlok	30000	Quality Entertain.
12.355	H	Future Channel	30000	Low Level
12.438	H	CH-3	30000	Quality Entertain.
12.438	H	CH-5	30000	News + Series
12.438	H	CH-7	30000	News + Series
12.438	H	CH-9	30000	News + Series
12.438	H	FL A	30000	Quality Entertain.
12.438	H	HBO	30000	News + Series
12.438	H	MOVH	30000	News + Series
12.438	H	NBT	30000	News + Series
12.438	H	RS09	30000	Advertisement
●12.438	H	SHOP	30000	News + Series
12.438	H	TNN	30000	Quality Entertain.
12.438	H	TNN2	30000	News + Series
12.438	H	TPBS	30000	News + Series
12.479	H	AFMV	30000	News + Series
12.479	H	ASER	30000	News + Series
12.479	H	GSQ	30000	News + Series
12.479	H	H-HA	30000	News + Series
12.479	H	HALL	30000	News + Series
12.479	H	insE	30000	Quality Entertain.
12.479	H	MAX	30000	News + Series
12.479	H	REAL	30000	News + Series
12.479	H	RS24	30000	Low Level
12.479	H	RS25	30000	Advertisement
12.479	H	SRES	30000	News + Series
12.479	H	STMV	30000	Quality Entertain.
12.479	H	XZYT	30000	News + Series
12.521	H	ASN	30000	Quality Entertain.
12.521	H	AXN	30000	Low Level
12.521	H	AXNB	30000	News + Series
12.521	H	CH-V	30000	News + Series
12.521	H	CHIC	30000	Low Level
12.521	H	E!	30000	News + Series
12.521	H	LTNG	30000	Low Level
12.521	H	MA	30000	News + Series
12.521	H	MGM	30000	News + Series
12.521	H	MTV	30000	Low Level
12.521	H	SWLD	30000	News + Series
12.521	H	TCM	30000	News + Series
12.521	H	TMUS	30000	Quality Entertain.
12.521	H	TVB	30000	Low Level
12.562	H	ANPL	25776	News + Series
12.562	H	CNN	25776	News + Series
12.562	H	DSCV	25776	News + Series
12.562	H	EXP1	25776	News + Series
12.562	H	EXP2	25776	Low Level
12.562	H	EXP3	25776	News + Series
12.562	H	HIST	25776	Quality Entertain.
12.562	H	NGAV	25776	Quality Entertain.
12.562	H	NGC	25776	Low Level
12.562	H	NICK	25776	Low Level
12.562	H	SPRK	25776	Low Level
12.562	H	TCCN	25776	News + Series
12.604	H	BBC	30000	Low Level
12.604	H	BMBG	30000	Low Level
12.604	H	CCTV	30000	News + Series
12.604	H	CNBC	30000	Low Level
12.604	H	ESPN	30000	News + Series
12.604	H	NHK	30000	News + Series
12.604	H	SPRT	30000	Low Level
12.604	H	TSP1	30000	Quality Entertain.
12.604	H	TSP2	30000	Quality Entertain.
12.604	H	TSP3	30000	Quality Entertain.
12.604	H	TSP4	30000	News + Series
12.604	H	TSP5	30000	News + Series
12.604	H	TV5	30000	Low Level
●12.657	H	D HH	30000	Quality Entertain.
●12.657	H	D TB	30000	News + Series
●12.657	H	D TL	30000	Low Level
●12.657	H	Disn	30000	Quality Entertain.
●12.657	H	DisP	30000	Low Level
●12.657	H	DSci	30000	Low Level
●12.657	H	HBOF	30000	News + Series
●12.657	H	HBOH	30000	News + Series
●12.657	H	HBOS	30000	News + Series
12.657	H	MCT1	30000	Low Level
12.657	H	MCT2	30000	News + Series
12.657	H	TSE1	30000	News + Series
12.657	H	TSE2	30000	News + Series
●12.657	H	TSPT	30000	Low Level
12.720	H	RS100	30000	High Quality Home
●12.720	H	PHOX	30000	News + Series
12.720	H	PREV	30000	Quality Entertain.
12.720	H	RATV	30000	News + Series
12.720	H	RS101	30000	Low Level
12.720	H	RS103	30000	Low Level
12.720	H	RS108	30000	Low Level
12.720	H	TATV	30000	News + Series
12.720	H	TS A	30000	News + Series
12.720	H	TS C	30000	News + Series
12.720	H	TS L	30000	News + Series
12.720	H	TS M	30000	Quality Entertain.

C-Band: THAICOM 5

78.6 East

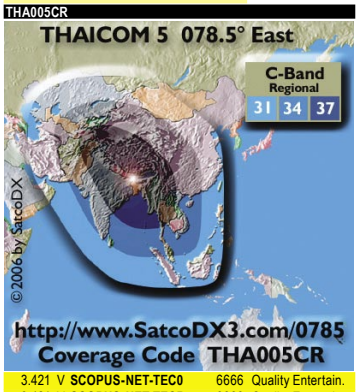
THA005CG



3.431	H	HADI TV	13333	News + Series
3.431	H	MANMIN-TV	13333	News + Series
● 3.439	V	{Empty}	3330	Quality Entertain.
3.505	H	KCTV	3363	Quality Entertain.
3.506	V	Gang Cartoon Channel	1852	News + Series
3.521	V	LaoStar Channel	2915	Quality Entertain.
3.551	H	SCI TECH TV	13333	High Quality Home
3.551	H	APOSTOLIC ONENESS	13333	News + Series
3.551	H	FTV INDIA	13333	Quality Entertain.
3.551	H	GOD Africa	13333	News + Series
3.551	H	Marine Biz TV	13333	Low Level
● 3.551	H	People_Channels	13333	News + Series
3.551	H	TRT-TURK	13333	Quality Entertain.
3.563	H	VTV	4444	Quality Entertain.
● 3.600	H	1 Variety	26670	News + Series
● 3.600	H	EARTH	26670	News + Series
● 3.600	H	Football Plus	26670	Quality Entertain.
● 3.600	H	MIRACLE	26670	News + Series
● 3.600	H	Movie Plus	26670	News + Series
● 3.600	H	POP CHANNEL	26670	News + Series
● 3.600	H	THAI CHAI YO	26670	News + Series
● 3.600	H	ACE CHANNEL	26670	Low Level
● 3.600	H	DMC	26670	Quality Entertain.
● 3.600	H	PEAK CHANNEL	26670	Advertisement
● 3.600	H	SLNTV	26670	News + Series
● 3.600	H	TV5 Global	26670	Quality Entertain.
● 3.600	H	VTV	26670	Home Cinema
● 3.609	V	MRTV,OCCA,NDS,DSN	2500	News + Series
3.618	V	5-CARTOONS	12500	Low Level
3.618	V	5-MOVIES	12500	Low Level
3.618	V	5-SERIES	12500	Low Level
3.618	V	CNN	12500	News + Series
3.618	V	ESPN	12500	Home Cinema
3.618	V	NGC WILD	12500	News + Series
3.618	V	STAR SPORTS	12500	News + Series
3.618	V	MRTV	12500	News + Series
3.618	V	MRTV-4	12500	Low Level
3.640	H	BABY TV	28062	News + Series
3.640	H	SVT World	28062	Quality Entertain.
3.640	H	3ABN International	28062	News + Series
3.640	H	BVN	28062	Quality Entertain.
3.640	H	Daystar	28062	News + Series
3.640	H	HCTV	28062	Low Level
3.640	H	KURDSAT	28062	News + Series
3.640	H	LLBN TV	28062	News + Series
3.640	H	Russia Today	28062	Quality Entertain.

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
3.640	H	TCT	28062	News + Series
3.640	H	The Word Network	28062	News + Series
3.640	H	UNIV TV	28062	Low Level
3.665	H	TVK CAMBODIA	3703	Quality Entertain.
3.711	V	HARYANA NEWS	13330	News + Series
3.711	V	PUNJAB TODAY	13330	News + Series
3.760	V	KALAIGNAR ASIA 2M	26660	High Qual. Cinema
3.760	V	7 STAR CARE	26660	News + Series
3.760	V	Sanskar	26660	Quality Entertain.
3.909	V	CAT ORG TV	2295	News + Series
4.011	V	MPEG 2	2500	News + Series

THA005CR



3.421	V	SCOPUS-NET-TEC0	6666	Quality Entertain.
3.421	V	SCOPUS-NET-TECR	6666	Quality Entertain.
3.432	V	Nepal Television 1	6664	Quality Entertain.
3.432	V	Nepal Television 2	6664	Quality Entertain.
3.454	V	AVENUESTV	3333	Quality Entertain.
3.489	V	Sagarmatha	3333	Quality Entertain.
3.501	V	DhiTV	4445	Quality Entertain.
3.545	V	Media Channel	30000	News + Series
3.545	V	THAICOM 10	30000	News + Series
3.545	V	THAICOM 11	30000	News + Series
3.545	V	THAICOM 15	30000	News + Series
3.545	V	THAICOM 7	30000	News + Series
3.545	V	THAICOM 8	30000	News + Series
3.545	V	THAICOM 9	30000	News + Series
3.545	V	ACTS Channel	30000	Quality Entertain.
3.545	V	Bang TV	30000	News + Series
3.545	V	FAN_TV	30000	News + Series
3.545	V	Green TV	30000	Quality Entertain.
3.545	V	IN TV	30000	Low Level
3.545	V	Jewelry Channel	30000	Low Level
3.545	V	Mongkol Channel	30000	News + Series
3.545	V	MV_BANGKOK TODAY	30000	News + Series
3.545	V	S Channel	30000	Low Level
3.545	V	SBB TV	30000	Low Level
3.545	V	TV Muslim Thailand	30000	Low Level
3.545	V	TV pool	30000	News + Series
3.575	H	MRTV	7495	News + Series
3.575	H	MRTV3	7495	News + Series
3.585	V	TTN	26667	Low Level
3.585	V	AI-NET CHANNEL	26667	News + Series
3.585	V	ETC	26667	Quality Entertain.
3.585	V	ETC PANJABI	26667	Quality Entertain.
3.585	V	MV_H Plus Channel	26667	Quality Entertain.
3.585	V	MV_HITSTATION	26667	Quality Entertain.
3.585	V	MV_MIX	26667	News + Series
3.585	V	MV_MV5	26667	Quality Entertain.
3.585	V	MV_MyTV	26667	Low Level
3.585	V	MV_Sabaidee TV	26667	Quality Entertain.
3.585	V	MV_STAR	26667	Quality Entertain.
3.585	V	MV_VARIETY	26667	Low Level
3.585	V	MV_You Channel	26667	Quality Entertain.
3.585	V	OHO Channel	26667	News + Series
3.585	V	P5tv	26667	News + Series
3.585	V	TST_NEWS	26667	Quality Entertain.
3.732	V	{Empty Name}	2339	News + Series
3.814	V	MHONE NEWS	6660	News + Series
3.814	V	MHONEMUSIC	6660	News + Series
3.814	V	Shraddha	6660	News + Series
3.840	V	365-DIN	26667	Quality Entertain.
3.840	V	CARE WORLD	26667	News + Series
3.840	V	Nepal1	26667	Quality Entertain.
3.840	V	Sadhana	26667	News + Series
3.840	V	SANSKAR	26667	Quality Entertain.
3.840	V	TV99	26667	News + Series
3.872	V	AP-ISB-2	2886	Advertisement
3.913	V	Dara Channel	1853	Advertisement
3.915	V	MB	2220	News + Series
3.920	V	PANYAPIWAT1	2855	News + Series
3.920	V	PANYAPIWAT2	2855	News + Series
3.959	V	APNA	30000	Quality Entertain.
3.959	V	FILMAX	30000	News + Series
3.959	V	FILMAZIA	30000	Home Cinema
3.959	V	Jan Sandesh	30000	Quality Entertain.
3.959	V	Joo Music	30000	Quality Entertain.
3.959	V	Multiple TV	30000	Low Level
3.959	V	SILVER SCREEN	30000	Home Cinema
3.959	V	Starlite	30000	Quality Entertain.
3.959	V	THAICOM 2	30000	Low Level
3.959	V	THAICOM 4	30000	News + Series
3.959	V	THAICOM 12	30000	News + Series
3.959	V	THAICOM 14	30000	Quality Entertain.
3.959	V	THAICOM 15	30000	Quality Entertain.
3.959	V	THAICOM 8	30000	
3.959	V	THAICOM 9	30000	
3.992	V	DIVYA	13330	Quality Entertain.
3.992	V	INDIASIGN TEST2	13330	News + Series
3.992	V	INDIASIGN TEST5	13330	News + Series
3.992	V	SHAKTI	13330	Quality Entertain.
3.992	V	SHOPPING ZONE	13330	Quality Entertain.
3.992	V	SUPER STAR	13330	Quality Entertain.
4.005	V	Indiasign Test	6665	Advertisement
4.005	V	TARA MUZIK	6665	Quality Entertain.
4.005	V	TV Southasia	6665	Quality Entertain.
4.107	V	ATN-Bangla	6665	Home Cinema
4.107	V	{Empty Name}	6665	Advertisement

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
4.136	V	Apsara TV	4443	News + Series
4.136	V	TV5 Cambodia	4443	News + Series
4.155	V	PSI Channel	2220	News + Series
4.158	V	Super Cheng	1852	Advertisement
4.161	V	KASIKORN TV	2000	News + Series
4.169	V	KTN-KARACHI	9600	Quality Entertain.
4.169	V	DATA	9600	Quality Entertain.
4.169	V	KTN-KARACHI-A	9600	Quality Entertain.

EXPRESS AM2

80.0 East

EXPAM2KR



10.973	V	ENISEY-REGION	4444	Home Cinema
10.992	V	OTC	4441	Quality Entertain.
11.044	H	5 Канал	44948	News + Series
11.044	H	Euronews	44948	News + Series
11.044	H	Eurosport	44948	Low Level
11.044	H	Eurosport 2	44948	Home Cinema
11.044	H	Hallmark	44948	Low Level
11.044	H	Kids Co	44948	News + Series
11.044	H	TV XXI	44948	Low Level
11.044	H	Бибигон	44948	News + Series
11.044	H	Вести 24	44948	News + Series
11.044	H	Драйв	44948	News + Series
11.044	H	Звезда	44948	Quality Entertain.
11.044	H	Культура	44948	News + Series
11.044	H	Орион Экспресс Инфо	44948	News + Series
11.044	H	Охота и Рыбалка	44948	News + Series
11.044	H	Первый канал	44948	Quality Entertain.
11.044	H	РБК-ТВ	44948	News + Series
11.044	H	РЕН ТВ	44948	Low Level
11.044	H	Россия	44948	News + Series
11.044	H	ТВ Центр	44948	News + Series
11.044	H	ТВ-3	44948	Low Level
11.044	H	Телекафе	44948	Quality Entertain.
11.044	H	Усадьба	44948	Quality Entertain.
11.044	H	Футбол	44948	Quality Entertain.
11.044	H	Music Love	44948	News + Series
11.463	V	Russya+Tomsk	3200	Quality Entertain.
11.606	V	Galaxy	44948	Quality Entertain.
11.606	V	KidsCo	44948	News + Series
11.606	V	Телекафе	44948	Quality Entertain.
11.606	V	Animal Planet	44948	Advertisement
11.606	V	AXN Sci Fi	44948	Advertisement
11.606	V	Discovery Europe Cha	44948	Advertisement
11.606	V	Discovery Science	44948	Advertisement
11.606	V	Discovery Travel & L	44948	Advertisement
11.606	V	Discovery World	44948	Advertisement
11.606	V	Dom kino	44948	Advertisement
11.606	V	Extreme Sports	44948	Advertisement
11.606	V	MTV Hits	44948	Advertisement
11.606	V	National Geographic	44948	Advertisement
11.606	V	Neo Music	44948	Quality Entertain.
11.606	V	Ocean TV	44948	Advertisement
11.606	V	Telenyanya	44948	Advertisement
11.606	V	Test-33	44948	Advertisement
11.606	V	Universal	44948	Advertisement
11.606	V	VH1 Classic	44948	Advertisement
11.606	V	Zee TV Russia	44948	Advertisement
11.606	V	Любимое Кино	44948	Advertisement
11.606	V	Спорт	44948	Advertisement
11.606	V	Феникс+Кино	44948	Advertisement

C-Band: EXPRESS MD1

80.1 East

EXPAM2CR



3.625	R	Dubl-1+RRD1	33483	Home Cinema
3.625	R	Dubl-2+RRD2	33483	Home Cinema
3.625	R	Orbita-1R+Mayak	33483	Home Cinema
3.625	R	Orbita-2R+Yunost	33483	Home Cinema
3.625	R	Kultura-1	33483	Home Cinema
3.675	R	Dubl-1+RRD1	33483	Home Cinema
3.675	R	Dubl-2+RRD2	33483	Home Cinema
3.675	R	Orbita-1R+Mayak	33483	Home Cinema
3.675	R	Orbita-2R+Yunost	33483	Home Cinema
3.675	R	Kultura-1	33483	Home Cinema

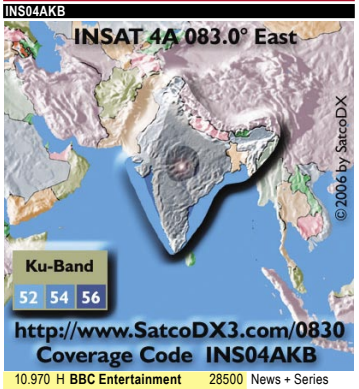
Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
3.875	R	Dubl-1+RRD1	29598	Home Cinema
3.875	R	Dubl-2+RRD2	29598	Home Cinema
3.875	R	Jetix Russia	32000	Quality Entertain.
3.875	R	Orbita-1R+Mayak	29598	Home Cinema
3.875	R	Orbita-2R+Yunost	29598	Home Cinema
3.875	R	TV 3 PLUS 2	32000	Quality Entertain.
3.875	R	Kultura-1	29598	Home Cinema
3.875	R	STRANA	32000	Quality Entertain.
3.875	R	TV 3	32000	Quality Entertain.

India

INSAT 4A

83.0 East

INS04AKB



10.970	H	BBC Entertainment	28500	News + Series
10.970	H	CBeebies	28500	News + Series
10.970	H	HBO	28500	News + Series
10.970	H	NDTV GOOD TIMES	28500	Quality Entertain.
10.970	H	REAL	28500	Low Level
10.970	H	STAR Gold	28500	News + Series
10.970	H	STAR Movies	28500	News + Series
10.970	H	Suvarna	28500	News + Series
10.970	H	WB	28500	Low Level
10.970	H	World Movies	28500	News + Series
10.970	H	Zee Cafe	28500	News + Series
10.970	H	Zee Studio	28500	Low Level
10.970	H	[illegible]	28500	News + Series
11.010	H	ACTVE TOPPER	27500	Quality Entertain.
11.010	H	Channel 100	27500	News + Series
11.010	H	DD Chandana	27500	Low Level
11.010	H	Discovery	27500	News + Series
11.010	H	ETV2	27500	Low Level
11.010	H	Fox History & Entert	27500	News + Series
11.010	H	MAA TV	27500	Quality Entertain.
11.010	H	Topper	27500	Low Level
11.010	H	Udaya Movies	27500	News + Series
11.010	H	Udaya TV	27500	News + Series
11.010	H	[illegible]	27500	News + Series
11.050	H	Animax	28500	Low Level
11.050	H	Cartoon Network	28500	News + Series
11.050	H	Chutti TV	28500	News + Series
11.050	H	Disney Channel	28500	Quality Entertain.
11.050	H	Hungama	28500	News + Series
11.050	H	Isai Aruvi	28500	Quality Entertain.
11.050	H	Kalaignar TV	28500	Quality Entertain.
11.050	H	KTV	28500	Quality Entertain.
11.050	H	Nick	28500	News + Series
11.050	H	PIX	28500	News + Series
11.050	H	Pogo	28500	Low Level
11.050	H	Raj TV	28500	News + Series
11.050	H	Sakshi TV	28500	News + Series
11.050	H	STAR Majha	28500	News + Series
11.050	H	Toon Disney	28500	News + Series
11.050	H	Udaya Varthegalu	28500	Quality Entertain.
11.050	H	[illegible]	28500	News + Series
11.090	H	9XM	28500	Quality Entertain.
11.090	H	Aastha	28500	News + Series
11.090	H	Bloomberg-UTV	28500	News + Series
11.090	H	Channel V	28500	Quality Entertain.
11.090	H	DD Punjabi	28500	Low Level
11.090	H	Fashion TV	28500	News + Series
11.090	H	Mahuaa TV	28500	News + Series
11.090	H	MTV	28500	Quality Entertain.
11.090	H	Nat Geo	28500	News + Series
11.090	H	Travel&Living	28500	Quality Entertain.
11.090	H	Zee Trendz	28500	Quality Entertain.
11.090	H	[illegible]	28500	Low Level
11.130	H	ACTVE NEWSROOM	28500	News + Series
11.130	H	ACTVE STAR NEWS	28500	Quality Entertain.
11.130	H	CNN-IBN	28500	Quality Entertain.
11.130	H	DD NE	28500	Low Level
11.130	H	Headlines Today	28500	Quality Entertain.
11.130	H	IBN7	28500	Quality Entertain.
11.130	H	NDTV 24x7	28500	Low Level
11.130	H	NEWS LIVE	28500	News + Series
11.130	H	TIMES NOW	28500	News + Series
11.130	H	[illegible]	28500	News + Series
11.170	H	Asianet News	28500	Quality Entertain.
11.170	H	BBC WORLD	28500	News + Series
11.170	H	CNBC-TV18	28500	News + Series
11.170	H	CNN	28500	News + Series
11.170	H	E24	28500	News + Series
11.170	H	ETV Rajasthan	28500	News + Series
11.170	H	Gemini News	28500	News + Series
11.170	H	Jaya	28500	News + Series
11.170	H	MH One	28500	News + Series
11.170	H	MI MARATHI	28500	Quality Entertain.
11.170	H	NDTV Profit	28500	Low Level
11.170	H	Sun Music	28500	News + Series
11.170	H	Sun News	28500	Quality Entertain.
11.170	H	TV9 - Kannada	28500	News + Series
11.170	H	Zee Business	28500	News + Series
11.170	H	[illegible]	28500	News + Series
11.470	H	ESPN	28500	Home Cinema
11.470	H	NEO Cricket	28500	News + Series
11.470	H	NEO Sports	28500	Quality Entertain.
11.470	H	Specials	28500	News + Series
11.470	H	STAR Cricket	28500	Quality Entertain.
11.470	H	STAR Sports	28500	Quality Entertain.
11.470	H	TV5	28500	News + Series
11.470	H	Zee Kannada	28500	Quality Entertain.
11.470	H	Zee Telugu	28500	Low Level
11.470	H	[illegible]	28500	Quality Entertain.
11.510	H	Aakaash Bangla	28500	Quality Entertain.
11.510	H	AXN	28500	News + Series
11.510	H	DD Oriya	28500	Quality Entertain.
11.510	H	DD Sahyadri	28500	News + Series
11.510	H	ETV Bangla	28500	Low Level
11.510	H	ETV Kannada	28500	News + Series
11.510	H	ETV Marathi	28500	Quality Entertain.
11.510	H	ETV MP	28500	News + Series
11.510	H	Kiran TV	28500	Low Level
11.510	H	OTV	28500	News + Series
11.510	H	STAR Ananda	28500	News + Series
11.510	H	STAR World	28500	News + Series
11.510	H	Surya TV	28500	Quality Entertain.
11.510	H	Zee Bangla	28500	Low Level
11.510	H	Zee Marathi	28500	News + Series
11.510	H	[illegible]	28500	News + Series
11.550	H	DD Gujarati	28500	News + Series
11.550	H	ETV Gujarati	28500	Quality Entertain.
11.550	H	ETV Oriya	28500	News + Series
11.550	H	ETV Urdu	28500	News + Series
11.550	H	MGM	28500	News + Series
11.550	H	TCM	28500	Low Level
11.550	H	Teja TV	28500	News + Series
11.550	H	Zee Gujarati	28500	Low Level
11.550	H	[illegible]	28500	Quality Entertain.
11.590	H	Amrita TV	28500	Low Level
11.590	H	Asianet	28500	Quality Entertain.
11.590	H	Colors	28500	News + Series
11.590	H	DD Malayalam	28500	Low Level
11.590	H	DD Podhigai	28500	Quality Entertain.
11.590	H	ETV Telugu	28500	News + Series
11.590	H	Gemini Music	28500	News + Series
11.590	H	Gemini TV	28500	News + Series
11.590	H	Kairali	28500	Quality Entertain.
11.590	H	NDTV Lumiere	28500	Low Level
11.590	H	NE TV	28500	News + Series
11.590	H	STAR Jalsha	28500	Quality Entertain.
11.590	H	STAR Vijay	28500	News + Series
11.590	H	Sun TV	28500	Quality Entertain.
11.590	H	TV9	28500	Quality Entertain.
11.590	H	[illegible]	28500	News + Series
11.630	H	ACTVE COOKING	28500	News + Series
11.630	H	ACTVE DARSHAN	28500	News + Series
11.630	H	ACTVE DOORDARSHAN	28500	Low Level
11.630	H	Actve Learning	28500	Low Level
11.630	H	Actve Stories	28500	Low Level
11.630	H	Actve Wizkids	28500	Low Level
11.630	H	HELPDESK	28500	Low Level
11.630	H	HOME	28500	Low Level
11.630	H	Service 2308	28500	Low Level
11.630	H	Showcase	28500	News + Series
11.630	H	Showcase Promo Cha..	28500	News + Series
11.630	H	STAR Pravah	28500	News + Series
11.630	H	Udaya 2	28500	News + Series
11.630	H	[illegible]	28500	Quality Entertain.
11.670	H	IBN Lokmat	28500	Low Level
11.670	H	NEWSX	28500	News + Series
11.670	H	SERVICE 2410	28500	Low Level
11.670	H	TEN Sports	28500	News + Series
11.670	H	VH1	28500	News + Series
11.670	H	Zoom	28500	News + Series
11.670	H	[illegible]	28500	News + Series

C-Band: INSAT 2E,3B

83.1 East

EUTW3ABA



3.656	V	INDIASIGN TEST3	13320	High Quality Home
3.656	V	INDIASIGN TEST4	13320	High Quality Home
3.656	V	INDIASIGN TEST5	13320	High Quality Home
3.656	V	INDIASIGN TEST6	13320	Cost Saving Enter.
3.656	V	INDIASIGN TEST7	13320	Cost Saving Enter.
3.656	V	ANDRA JYOTI	13320	Quality Entertain.
3.656	V	TV-5	13320	Home Cinema

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

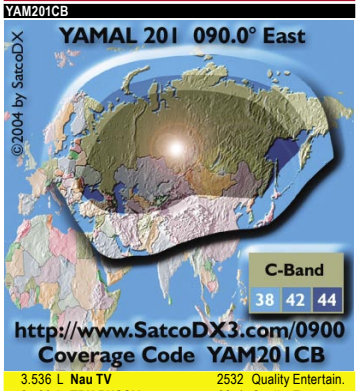
Cost Conscious Entertainment ..... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
INS02ECW				
		INSAT 2E 83.0° East		
		C-Band Wide beam 36 38 40		
		©2004 by SatcoDX		
		http://www.SatcoDX3.com/0830 Coverage Code INS02ECW		
3.550	V	TV9	3255	Quality Entertain.
3.678	V	AMRITA TV	5928	Home Cinema
3.696	V	SRI SANKARA	6110	Quality Entertain.
3.696	V	STUDIO N	6110	Quality Entertain.
● 3.774	V	RAJ DIGITAL PLUS	13020	High Quality Home
● 3.774	V	VISSA	13020	High Quality Home
3.774	V	Raj Digital Plus	13020	News + Series
3.774	V	Raj MUSIX	13020	News + Series
3.774	V	Raj News	13020	News + Series
3.774	V	Raj TV	13020	Quality Entertain.
3.844	V	MAA TV	26040	Home Cinema
3.844	V	IMAYAM TV	26040	News + Series
3.844	V	KAIRALI TV	26040	News + Series
3.844	V	MAKKAL TV	26040	Quality Entertain.
3.844	V	PEOPLE	26040	Quality Entertain.
3.844	V	TAMILAN TELEVISIO	26040	Quality Entertain.
3.844	V	WE	26040	Quality Entertain.
3.844	V	WIN TV	26040	Quality Entertain.
INS02ECZ				
		INSAT 2E 83.0° East		
		C-Band Zone beam 36 38 39		
		©2004 by SatcoDX		
		http://www.SatcoDX3.com/0830 Coverage Code INS02ECZ		
3.522	V	NE BANGLA	8640	Quality Entertain.
3.522	V	NE HIFI	8640	News + Series
3.522	V	NE TELEVISION	8640	Quality Entertain.
3.559	V	S1 TELEVISION	3363	Quality Entertain.
● 3.581	V	TV9-KANNADA	3255	Quality Entertain.
3.593	V	JAYA MAX	8670	News + Series
3.593	V	JAYA PLUS	8670	Quality Entertain.
3.593	V	JAYA TV	8670	Quality Entertain.
3.611	V	Channel-8	9630	Quality Entertain.
3.611	V	AKAASH	9630	Quality Entertain.
3.611	V	RAHUL SPRINGS	9630	Quality Entertain.
● 3.611	V	TEST	9630	News + Series
● 3.776	H	STAR	10900	Quality Entertain.
● 3.776	H	STAR ANANDA	10900	Quality Entertain.
● 3.776	H	STAR NEWS	10900	Quality Entertain.
● 3.776	H	STAR MAJHA	10900	Quality Entertain.
● 4.070	V	DD1 2E NATIONAL	5000	Home Cinema
INS04ACB				
		INSAT 4A 083.0° East		
		C-Band 39 41 43		
		©2006 by SatcoDX		
		http://www.SatcoDX3.com/0830 Coverage Code INS04ACB		
3.535	V	Focus_TV	10800	Quality Entertain.
3.535	V	Hamar_TV	10800	Quality Entertain.
● 3.535	V	HY_TV	10800	Quality Entertain.
3.689	V	MAHAA TV	2893	Quality Entertain.
3.725	H	BHOJPURIYA MAGIK	26660	High Quality Home
3.725	H	JAIN TV	26660	High Quality Home
3.725	H	P7 NEWS	26660	High Quality Home
● 3.725	H	RAFTAAR TV	26660	High Quality Home
● 3.725	H	ANGEL TV	26660	Quality Entertain.
3.725	H	ASEERVATHAM TV	26660	Quality Entertain.
3.725	H	D TV	26660	Quality Entertain.
3.725	H	ERA TV	26660	Quality Entertain.
3.725	H	POWER VISION TV	26660	Quality Entertain.
3.725	H	SOBHAGYA TV	26660	Quality Entertain.
3.725	H	SPACE TV	26660	News + Series
3.725	H	STANDARD WORLD	26660	Quality Entertain.
3.725	H	TIME TV	26660	Quality Entertain.
● 3.755	H	India News Haryana	13328	High Quality Home
3.755	H	Enterr10	13328	News + Series
3.755	H	India NEWS	13328	News + Series
● 3.755	H	INDIASIGN TEST1	13328	Low Level
3.755	H	Khoj India	13328	Low Level
3.755	H	Manoranjan TV	13328	News + Series
3.755	H	Spacetoon Kids TV	13328	News + Series
3.755	H	TV 24	13328	News + Series
3.760	V	CNBC	6500	Quality Entertain.
3.760	V	CNBC AAWAZ	6500	Quality Entertain.
3.790	V	KANAK TV	3220	Quality Entertain.
3.794	V	UTVi	3500	Quality Entertain.
● 3.798	V	POLIMER TV	3330	Quality Entertain.
● 3.804	H	NewsX	28500	High Quality Home
3.804	H	BINDASS	28500	Quality Entertain.
3.804	H	BINDASS MOVIES	28500	Quality Entertain.
3.804	H	UTV MOVIES	28500	Quality Entertain.
● 3.804	H	UTV NEWS	28500	Home Cinema
3.804	H	WORLD MOVIES	28500	Quality Entertain.
3.804	H	AZAD NEWS	28500	News + Series
3.804	H	CHANNEL 1	28500	Quality Entertain.
3.804	H	CNEB	28500	News + Series
3.804	H	OTV	28500	Quality Entertain.
3.804	H	SHALOM TV	28500	News + Series
3.804	H	SUDARSHAN TV	28500	News + Series
3.804	H	SVBC	28500	News + Series
3.804	H	YO TV	28500	News + Series
3.815	V	PTC CHAKDE	6000	High Quality Home
3.815	V	PTC NEWS	6000	High Quality Home
3.815	V	PTC PUNJABI	6000	High Quality Home
3.840	H	Tarang	6910	High Quality Home
3.840	H	Tarang music	6910	High Quality Home
3.840	H	OTV	6910	Quality Entertain.
3.852	H	CTVN AKD PLUS	3263	Quality Entertain.
3.856	H	kasthuri TV	3463	Quality Entertain.
3.874	H	KAMYAB TV	3400	Quality Entertain.
3.892	H	Vanitha	3295	Quality Entertain.
3.892	H	{Empty}	3295	Advertisement
3.899	H	Bhakti	6800	Quality Entertain.
3.899	H	NTV	6800	Quality Entertain.
3.909	H	BIKAS-365	3595	News + Series
● 3.909	H	CHANNEL 10	3595	News + Series
● 3.915	V	INDIAVISION NEWS	3000	Quality Entertain.
3.919	V	YES INDIAVISION	3000	News + Series
3.921	H	MUSIC INDIA	13000	News + Series
3.921	H	SADHANA NEWS	13000	News + Series
3.921	H	SANGEET BANGLA	13000	News + Series
3.921	H	SATSANG	13000	News + Series
3.921	H	TOTAL TV	13000	News + Series
3.921	H	TV 100	13000	News + Series
● 3.921	H	UNITY TV	13000	News + Series
3.923	V	MMINTL	3000	Quality Entertain.
3.934	V	STAR JALSHA	13020	High Quality Home
3.934	V	STAR PRAVAH	13020	High Quality Home
3.934	V	STAR VIJAY	13020	High Quality Home
3.934	V	MEGA TV	13020	Quality Entertain.
3.934	V	SUBHAVARTHA	13020	Quality Entertain.
3.936	H	9x	10100	High Quality Home
3.936	H	9xM	10100	High Quality Home
3.936	H	NewsX	10100	High Quality Home
3.950	H	DY365	3223	Quality Entertain.
● 3.957	H	Mahua News	9500	High Quality Home
3.957	H	Mahuaa	9500	High Quality Home
3.957	H	Pragya TV	9500	High Quality Home
● 3.960	V	RAJ KANADA NEWS	6650	Cost Saving Enter.
● 3.960	V	RAJ MUSIC MALAYAL	6650	High Quality Home
● 3.960	V	RAJ MUSX KANADA	6650	High Quality Home
● 3.960	V	RAJ PARIWAR	6650	High Quality Home
● 3.960	V	RAJ TELEGU NEWS	6650	High Quality Home
3.974	V	GUJRATI	13330	Quality Entertain.
3.974	V	LEHREN	13330	News + Series
3.974	V	MUMBAI	13330	Quality Entertain.
3.974	V	News9	13330	Quality Entertain.
3.974	V	TV1	13330	Quality Entertain.
3.977	H	ZEE UP NEWS	3195	High Quality Home
4.005	H	ETV 2	22210	High Quality Home
4.005	H	ETV Bengali	22210	High Quality Home
4.005	H	ETV Bihar	22210	High Quality Home
4.005	H	ETV Gujrathi	22210	High Quality Home
4.005	H	ETV Kannada	22210	High Quality Home
4.005	H	ETV Madhya Pradesh	22210	High Quality Home
4.005	H	ETV Marathi	22210	High Quality Home
4.005	H	ETV Oriya	22210	High Quality Home
4.005	H	ETV Rajasthan	22210	High Quality Home
4.005	H	ETV Telugu	22210	High Quality Home
4.005	H	ETV Urdu	22210	High Quality Home
4.005	H	ETV Uttar Pradesh	22210	High Quality Home
● 4.009	V	Test card 2	19531	High Quality Home
4.009	V	Asianet	19531	Quality Entertain.
4.009	V	Asianet News	19531	Low Level
4.009	V	Asianet Plus	19531	Quality Entertain.
4.009	V	Jeevan TV	19531	News + Series
4.009	V	Sitara	19531	Low Level
4.009	V	Suvarna	19531	Quality Entertain.
4.009	V	Suvarna News	19531	Low Level
● 4.009	V	Test card 1	19531	Low Level
4.031	V	MAA MUSIC	7440	Quality Entertain.
4.031	V	MOON TV	7440	Home Cinema
4.040	H	A2Z News	7500	News + Series
4.040	H	Saam TV	7500	Quality Entertain.
● 4.040	H	Sadhana Super	7500	News + Series
4.040	H	Sang Bhoj	7500	News + Series
● 4.042	V	God Greater China	7420	News + Series
● 4.042	V	NR TV APR	7420	News + Series
● 4.042	V	RR PROMO	7420	News + Series
4.050	V	JAI HIND	5085	News + Series
● 4.050	V	VASANTH TV	5085	Quality Entertain.
● 4.053	H	BIZZ -NEWS	13230	News + Series
● 4.053	H	JHANKAR	13230	Low Level
● 4.053	H	LAMHAS-TEST 1	13230	News + Series
● 4.053	H	LAMHAS-TEST 2	13230	Low Level
● 4.053	H	LAMHAS-TEST 3	13230	News + Series
● 4.053	H	LAMHAS-TEST 4	13230	Low Level
● 4.053	H	LEMON TV	13230	News + Series
● 4.053	H	NAXATRA NEWS	13230	News + Series
4.072	H	IBN Lokmat	6500	High Qual. Cinema
4.072	H	TOPPER	6500	News + Series
4.072	H	HSN18	6500	Quality Entertain.
4.080	V	ETV-Telugu	3280	Quality Entertain.
● 4.088	H	LIVE INDIA	3300	Quality Entertain.
4.091	V	Atv	9230	Quality Entertain.
4.091	V	INDIASIGN TEST2	9230	Quality Entertain.
4.091	V	INDIASIGN TEST3	9230	News + Series
4.091	V	INDIASIGN TEST4	9230	News + Series
4.091	V	INDIASIGN TEST5	9230	Low Level
4.091	V	INDIASIGN TEST6	9230	News + Series
4.092	H	{Empty Name}	3000	Quality Entertain.
● 4.100	V	NEWS LIVE	4693	High Quality Home
● 4.100	V	RANG	4693	High Qual. Cinema
4.100	H	BBS TV	4750	Quality Entertain.
4.114	H	MMCAL	5555	High Quality Home
4.114	H	MMCOCHIN	5555	High Quality Home
4.114	H	MMTVM	5555	High Quality Home
● 4.134	H	E24	10600	Quality Entertain.
4.134	H	NEWS24	10600	Quality Entertain.
4.151	H	ZEE KANNADA	6500	News + Series
4.151	H	ZEE TELUGU	6500	News + Series
4.151	H	24 GHANTA	6500	News + Series
4.161	H	PLAY TV	6500	News + Series
4.161	H	ZEE TALKIES	6500	News + Series
4.161	H	24 TAAS	6500	News + Series
4.170	H	LSTV	4650	Quality Entertain.
4.181	H	KOLKATATV	3230	Quality Entertain.
		INTELSAT 709		
		85.0 East		
INT709ME				
		INTELSAT 709 085.0° East		
		Ku-Band Middle East 41 45 50		
		©2005 by SatcoDX		
		http://www.SatcoDX3.com/0850 Coverage Code INT709ME		
11.584	H	Kurdsat	3254	
11.599	H	Feeds (2XG-EN2)	3000	
11.599	H	RRSat Promo	3255	
11.605	H	Feeds (2XG-EN2)	3600	
11.679	H	Feeds (SNG-006B)	3255	
		C-Band: CHINASTAR 1		
		87.5 East		
CHI001CB				
		CHINASTAR 1 087.5° East		
		C-Band China 30 37 39		
		©2009 by SatcoDX		
		http://www.SatcoDX3.com/0875 Coverage Code CHI001CB		
3.733	H	MYAWADY TV	5925	Home Cinema
		C-Band: ST 1		
		88.0 East		
STC001CB				
		ST 1 088.0° East		
		C-Band 38 40		
		©2004 by SatcoDX		
		http://www.SatcoDX3.com/0880 Coverage Code STC001CB		
3.415	V	UBC Thailand	3615	Quality Entertain.
3.470	V	Ch_1 GTV 27	30000	Quality Entertain.
3.470	V	Ch_2 GTV 28	30000	Quality Entertain.
3.470	V	Ch_3 GTV 41	30000	Quality Entertain.
3.470	V	Ch_4 GTV K	30000	Quality Entertain.
3.470	V	CH_5	30000	Quality Entertain.
3.470	V	CH_6	30000	Quality Entertain.
3.470	V	N01	30000	Quality Entertain.
3.470	V	N02	30000	Quality Entertain.
3.470	V	N03	30000	News + Series
3.470	V	N04	30000	Low Level
3.523	H	ABTV2	8330	News + Series
3.523	H	ABTV3	8330	News + Series
3.523	H	ABTV4	8330	Low Level
3.523	H	ABTV1	8330	News + Series
3.523	H	ABTV5	8330	News + Series
3.523	H	ABTV6	8330	Low Level
3.523	H	ABTV7	8330	Advertisement
3.550	V	1_VL Cinema	30000	Quality Entertain.
3.550	V	2_VL Nipponese	30000	Quality Entertain.
3.550	V	3_VL Drama	30000	Quality Entertain.
3.550	V	4_VL Ensemble	30000	Quality Entertain.
3.550	V	7_ch7	30000	Quality Entertain.
3.550	V	9_Ad hoc feed	30000	Quality Entertain.
3.550	V	CH 10	30000	Quality Entertain.
3.550	V	5_VL Sports	30000	Quality Entertain.
3.550	V	6_VL Edu & Ent	30000	Quality Entertain.
3.550	V	8_UTV MOMO	30000	Quality Entertain.
3.591	H	Ch_1 GTV 27	30000	Quality Entertain.
3.591	H	Ch_2 GTV 28	30000	Quality Entertain.
3.591	H	Ch_3 GTV 41	30000	Quality Entertain.
3.591	H	Ch_4 GTV K	30000	Quality Entertain.
3.591	H	CH_5	30000	Quality Entertain.
3.591	H	CH_6	30000	Quality Entertain.
3.591	H	N01	30000	Quality Entertain.
3.591	H	N02	30000	Quality Entertain.
3.591	H	N03	30000	News + Series
3.591	H	N04	30000	Low Level
3.633	V	1_VL Cinema	30000	Quality Entertain.
3.633	V	2_VL Nipponese	30000	Quality Entertain.
3.633	V	3_VL Drama	30000	Quality Entertain.
3.633	V	4_VL Ensemble	30000	Quality Entertain.
3.633	V	7_ch7	30000	Quality Entertain.
3.633	V	9_Ad hoc feed	30000	Quality Entertain.
3.633	V	CH 10	30000	Quality Entertain.
3.633	V	5_VL Sports	30000	Quality Entertain.
3.633	V	6_VL Edu & Ent	30000	Quality Entertain.
3.633	V	8_UTV MOMO	30000	Quality Entertain.
3.671	H	Ch_1 BTS	9255	Quality Entertain.
3.671	H	Ch_2 Life TV	9255	Quality Entertain.
3.671	H	Ch_3	9255	News + Series
3.671	H	Ch_4 TEST	9255	Low Level
3.690	H	Service 2	3000	Quality Entertain.
		India		
		ST 1		
		88.1 East		
STC001K2				
		ST 1 088.0° East		
		Ku-Band K-2 42 49 53		
		©2004 by SatcoDX		
		http://www.SatcoDX3.com/0880 Coverage Code STC001K2		
● 11.585	H	DTV DSNG5 Karachi	1500	Low Level
● 11.585	H	PCR Lahore	1585	Advertisement
● 11.585	H	{Empty Name}	1500	Advertisement
● 11.588	H	Islamabad Bureau	1500	Advertisement
● 11.590	H	ADVENT ISB 1488	1500	Advertisement
● 11.607	H	News1Islamabad	1783	Advertisement
		YAMAL 201		
		90.0 East		
YAM201KB				
		YAMAL 201 090.0° East		
		©2004 by SatcoDX		
		ku-Band 47 49		
		http://www.SatcoDX3.com/0900 Coverage Code YAM201KB		
10.995	V	YAMAL	4285	Quality Entertain.
11.057	V	CTC+7	26470	Quality Entertain.
11.057	V	Home+7	26470	Quality Entertain.
11.057	V	NTV2	26470	Home Cinema
11.057	V	NTV4	26470	Home Cinema
11.057	V	SHKOLNIK	26470	News + Series
11.057	V	TNT 2	26470	Quality Entertain.
11.057	V	TNT 4	26470	Quality Entertain.
11.092	V	CHANSON	26470	News + Series
11.092	V	CTC+4	26470	Quality Entertain.
11.092	V	FOOTBALL	26470	Quality Entertain.
11.092	V	Home+4	26470	Quality Entertain.
11.092	V	PARK RAZVL	26470	News + Series
11.092	V	SOVSEKRETNO	26470	Quality Entertain.
11.092	V	BIBIGON	26470	News + Series
11.092	V	RENTV4	26470	Low Level
11.092	V	RENTV7	26470	Quality Entertain.
11.092	V	RIK	26470	News + Series

C-Band: YAMAL 201

90.1 East

YAM201CB



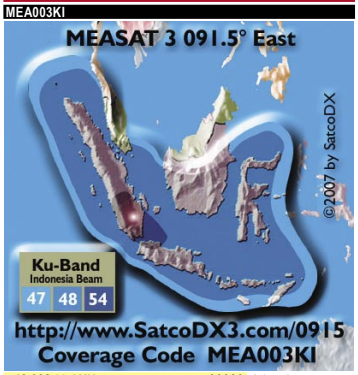
Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
3.536	L	Nau TV	2532	Quality Entertain.
3.539	L	TBN RUSSIA	3274	Quality Entertain.
3.553	L	Altyn Asyr	20000	Home Cinema
3.553	L	Miras	20000	Home Cinema
3.553	L	TV-4	20000	Home Cinema
3.553	L	Yaslyk	20000	Home Cinema
● 3.577	L	CNL-EUROPE	2626	Quality Entertain.
3.582	L	Chita TV	4275	Home Cinema
3.588	L	TV-NORD	4285	Home Cinema
● 3.594	L	GTRK-BIRA 2	4275	Home Cinema
3.600	L	OTV	4285	Home Cinema
● 3.605	L	CNL	2626	Advertisement
3.623	L	TurkmenOwazy	4285	Home Cinema
3.645	L	Sport	28000	Home Cinema
3.645	L	DTV +7	28000	Home Cinema
3.645	L	NTV7	28000	Home Cinema
3.645	L	TNT	28000	Quality Entertain.
3.645	L	TV ZVEZDA +2	28000	Home Cinema
3.645	L	TV ZVEZDA +7	28000	Home Cinema
3.645	L	TV3	28000	Home Cinema
3.674	L	MTV	17500	Quality Entertain.
3.674	L	RADOST MOYA	17500	Quality Entertain.
3.674	L	SGU TV	17500	Quality Entertain.
3.674	L	TV-3 PLUS 2	17500	Quality Entertain.
3.674	L	TV-3 PLUS 7	17500	Quality Entertain.
3.725	L	SKVORTSOVO	3200	Advertisement
3.730	L	RTR + DVTRK	4285	Home Cinema
● 3.764	L	K PLUS	2531	Advertisement
3.903	L	TV SPORT	8888	Quality Entertain.
3.903	L	TV ROSTOV	8888	Quality Entertain.
3.903	L	TV ZVEZDA	8888	Quality Entertain.
3.912	L	ORTRK-12	4295	Home Cinema
● 3.918	L	GTRK EL-ALTAI	4275	Home Cinema
3.922	L	TRT	3570	Quality Entertain.
3.925	L	TV-NORD	1116	Home Cinema
3.954	L	AGRO TV	29500	Quality Entertain.
3.954	L	AM LIFE	29500	Quality Entertain.
3.954	L	O2TV	29500	Quality Entertain.
3.954	L	RUTV	29500	Quality Entertain.
3.954	L	STYLE TV	29500	News + Series
3.954	L	Test only	29500	Quality Entertain.
3.954	L	TOPSHOP TV	29500	Quality Entertain.
3.954	L	TV ZVEZDA +4	29500	Quality Entertain.
3.954	L	TV-NORD	1116	Home Cinema
3.954	L	TVC Siberia	29500	Quality Entertain.
3.954	L	TVC Ural	29500	Quality Entertain.
3.990	L	PLANETA SPORT	24050	Quality Entertain.
3.990	L	rentv0	24050	Quality Entertain.
3.990	L	rentv2	24050	Quality Entertain.
3.990	L	RIK	24050	Quality Entertain.
3.990	L	RTR PLANETA	24050	Quality Entertain.
4.042	R	AGRO TV	8679	Quality Entertain.
4.042	R	AM LIFE	8679	Low Level
4.042	R	HUMOR TV	8679	Quality Entertain.
4.042	R	MUSIC BOX RU	8679	Quality Entertain.
4.042	R	MUSIC BOX TV	8679	Quality Entertain.
4.042	R	O2TV	8679	Home Cinema
4.042	R	RUTV	8679	Quality Entertain.
4.042	R	STYLE TV	8679	News + Series
4.042	R	Test only	8679	Advertisement
4.042	R	TOPSHOP TV	8679	Quality Entertain.
4.042	R	TV ZVEZDA +4	8679	News + Series
4.042	R	TVC Siberia	8679	Home Cinema
4.042	R	TVC Ural	8679	News + Series
4.085	R	AGRO TV	2500	Quality Entertain.
4.085	R	AM LIFE	2500	Quality Entertain.
4.085	R	O2TV	2500	Quality Entertain.
4.085	R	RUTV	2500	Quality Entertain.
4.085	R	STYLE TV	2500	Quality Entertain.
4.085	R	Test only	2500	Quality Entertain.
4.085	R	TOPSHOP TV	2500	News + Series
4.085	R	TV ZVEZDA +4	2500	Quality Entertain.
4.085	R	TVC Siberia	2500	Quality Entertain.
4.085	R	TVC Ural	2500	Quality Entertain.

Indonesia

MEASAT 3

91.5 East

MEA003KI



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
10.982	V	AXN	30000	Advertisement
10.982	V	DISN	30000	Advertisement
10.982	V	HBO	30000	News + Series
10.982	V	HHD	30000	Advertisement
10.982	V	NGEO	30000	Advertisement
10.982	V	SMV	30000	Advertisement
● 10.982	V	TEST	30000	Advertisement
10.982	V	TVBS	30000	Advertisement
10.982	V	VAAN	30000	Advertisement
10.982	V	WLT	30000	News + Series
10.982	V	PHDC	30000	Advertisement
11.062	V	AEC	30000	News + Series
● 11.062	V	ASP+	30000	News + Series
11.062	V	CER	30000	News + Series
11.062	V	CNN	30000	News + Series
11.062	V	DISC	30000	News + Series
11.062	V	MAX	30000	News + Series
11.062	V	PHNX	30000	News + Series
11.062	V	PRIMA	30000	News + Series
11.062	V	SUN	30000	Low Level
11.062	V	TVB8	30000	News + Series
11.062	V	VT	30000	News + Series
11.062	V	XHE	30000	Low Level
11.102	V	ABO	30000	News + Series
11.102	V	ANIM	30000	Low Level
11.102	V	B4U	30000	News + Series
11.102	V	CEL	30000	Low Level
11.102	V	ESPN	30000	News + Series
11.102	V	HITZ	30000	Quality Entertain.
11.102	V	RIA	30000	News + Series
11.102	V	RMA	30000	News + Series
11.102	V	SHX	30000	News + Series
11.102	V	SPRT	30000	News + Series
11.102	V	TEST	30000	Advertisement
11.182	V	@15	30000	News + Series
11.182	V	ASSP	30000	News + Series
11.182	V	BBCE	30000	News + Series
11.182	V	BTV	30000	Low Level
11.182	V	CTV4	30000	News + Series
11.182	V	DH&H	30000	Low Level
11.182	V	E!	30000	News + Series
11.182	V	HMK	30000	News + Series
11.182	V	JYU	30000	News + Series
11.182	V	SM	30000	News + Series
11.182	V	SWR	30000	News + Series
11.182	V	TURBO	30000	News + Series
11.182	V	TVIQ	30000	Low Level
11.482	V	AOD	30000	News + Series
11.482	V	APL	30000	News + Series
11.482	V	ART	30000	News + Series
11.482	V	BBC	30000	News + Series
11.482	V	CNBC	30000	Low Level
11.482	V	CTV9	30000	Low Level
11.482	V	DSCI	30000	Low Level
11.482	V	ES	30000	Quality Entertain.
11.482	V	MTV	30000	News + Series
11.482	V	PIN	30000	News + Series
11.522	V	[V]	30000	News + Series
11.522	V	ABO	30000	News + Series
11.522	V	AFC	30000	News + Series
11.522	V	AOD	30000	Low Level
● 11.522	V	APL	30000	News + Series
● 11.522	V	ART	30000	Quality Entertain.
● 11.522	V	BBC	30000	Advertisement
● 11.522	V	CTV9	30000	Low Level
● 11.522	V	ES	30000	Low Level
11.522	V	GC	30000	News + Series
● 11.522	V	MTV	30000	Low Level
11.522	V	NTV7	30000	News + Series
● 11.522	V	PIN	30000	News + Series
11.522	V	TEST1	30000	News + Series
11.522	V	TEST2	30000	Quality Entertain.
11.522	V	TV1	30000	Quality Entertain.
● 11.522	V	CNBC	30000	Advertisement
● 11.522	V	DSCI	30000	Advertisement
11.562	V	ABO	30000	News + Series
● 11.562	V	AOD	30000	News + Series
● 11.562	V	APL	30000	News + Series
● 11.562	V	ART	30000	News + Series
11.562	V	AUSN	30000	Low Level
● 11.562	V	BBC	30000	News + Series
11.562	V	CHTV	30000	News + Series
● 11.562	V	CNBC	30000	News + Series
● 11.562	V	CTV9	30000	News + Series
● 11.562	V	DSCI	30000	News + Series
● 11.562	V	ES	30000	News + Series
11.562	V	iMUS	30000	News + Series
11.562	V	KBSW	30000	News + Series
11.562	V	MAK	30000	News + Series
● 11.562	V	MTV	30000	Low Level
11.562	V	NICK	30000	News + Series
● 11.562	V	PIN	30000	News + Series
11.562	V	TEST	30000	Low Level
11.562	V	TV9	30000	News + Series
11.562	V	XTY	30000	News + Series
11.562	V	WRNA	30000	Advertisement
11.563	V	ABO	30000	Quality Entertain.
● 11.563	V	AOD	30000	News + Series
● 11.563	V	APL	30000	Low Level
● 11.563	V	ART	30000	News + Series
11.563	V	AUSN	30000	Low Level
● 11.563	V	BBC	30000	Low Level
11.563	V	CHTV	30000	Low Level
● 11.563	V	CNBC	30000	Low Level
● 11.563	V	CTV9	30000	Low Level
● 11.563	V	DSCI	30000	News + Series
11.563	V	iMUS	30000	News + Series
11.563	V	KBSW	30000	News + Series
11.563	V	MAK	30000	News + Series
● 11.563	V	MTV	30000	News + Series
11.563	V	NICK	30000	Quality Entertain.
● 11.563	V	PIN	30000	News + Series
11.563	V	TEST	30000	Low Level
11.563	V	TV9	30000	Low Level
11.563	V	WRNA	30000	News + Series
11.563	V	XTY	30000	News + Series
● 11.563	V	AOD	30000	Advertisement
● 11.563	V	ES	30000	Advertisement
● 11.602	V	ABO	30000	News + Series
11.602	V	AJE	30000	Low Level
● 11.602	V	AOD	30000	News + Series
● 11.602	V	APL	30000	Low Level
● 11.602	V	ART	30000	News + Series
11.602	V	ARU	30000	Low Level
● 11.602	V	AUSN	30000	News + Series
11.602	V	AWANI	30000	Low Level
● 11.602	V	BBC	30000	News + Series
● 11.602	V	CHTV	30000	Low Level
11.602	V	CI	30000	News + Series
● 11.602	V	CNBC	30000	News + Series
● 11.602	V	CTV9	30000	Low Level
● 11.602	V	DSCI	30000	Low Level
● 11.602	V	ES	30000	Low Level
11.602	V	ETVA	30000	News + Series
● 11.602	V	iMUS	30000	News + Series
● 11.602	V	iVIEW	30000	News + Series
● 11.602	V	KBSW	30000	News + Series
● 11.602	V	MAK	30000	Quality Entertain.
● 11.602	V	MTV	30000	Advertisement
● 11.602	V	NICK	30000	News + Series
11.602	V	OAS	30000	News + Series
● 11.602	V	PIN	30000	Low Level
● 11.602	V	TEST	30000	Low Level
11.602	V	TRAV	30000	News + Series
11.602	V	TV2	30000	News + Series
11.602	V	TV3	30000	News + Series
● 11.602	V	TV9	30000	News + Series
11.602	V	WATV	30000	News + Series
● 11.602	V	WRNA	30000	News + Series
● 11.602	V	XTY	30000	News + Series
11.602	V	ZEE	30000	News + Series
● 11.642	V	ABO	30000	Low Level
11.642	V	AJE	30000	News + Series
11.642	V	AOD	30000	News + Series
● 11.642	V	APL	30000	News + Series
● 11.642	V	ART	30000	News + Series
● 11.642	V	ARU	30000	News + Series
● 11.642	V	AUSN	30000	Low Level
● 11.642	V	AWANI	30000	News + Series
● 11.642	V	BBC	30000	Low Level
● 11.642	V	CHTV	30000	Low Level
● 11.642	V	CI	30000	News + Series
● 11.642	V	CNBC	30000	Low Level
11.642	V	CTRA	30000	News + Series
● 11.642	V	CTV9	30000	Low Level
11.642	V	CTWK	30000	News + Series
● 11.642	V	DSCI	30000	News + Series
● 11.642	V	ES	30000	News + Series
● 11.642	V	ETVA	30000	News + Series
● 11.642	V	iMUS	30000	Quality Entertain.
● 11.642	V	iVIEW	30000	Quality Entertain.
● 11.642	V	KBSW	30000	News + Series
● 11.642	V	MAK	30000	News + Series
● 11.642	V	MTV	30000	News + Series
● 11.642	V	NICK	30000	News + Series
● 11.642	V	OAS	30000	Low Level
● 11.642	V	PIN	30000	News + Series
● 11.642	V	TEST	30000	Low Level
● 11.642	V	TRAV	30000	Low Level
● 11.642	V	TV2	30000	News + Series
● 11.642	V	TV3	30000	News + Series
● 11.642	V	TV9	30000	Low Level
● 11.642	V	WATV	30000	News + Series
● 11.642	V	WRNA	30000	News + Series
● 11.642	V	ZEE	30000	News + Series
● 11.642	V	XTY	30000	Advertisement
11.682	V	8TV	30000	Low Level
● 11.682	V	ABO	30000	News + Series
● 11.682	V	AJE	30000	News + Series
● 11.682	V	AOD	30000	Low Level
● 11.682	V	APL	30000	News + Series
● 11.682	V	ART	30000	News + Series
● 11.682	V	ARU	30000	News + Series
● 11.682	V	AWANI	30000	News + Series
● 11.682	V	BBC	30000	News + Series
11.682	V	BRTV	30000	News + Series
● 11.682	V	CHTV	30000	News + Series
● 11.682	V	CI	30000	Low Level
● 11.682	V	CNBC	30000	News + Series
● 11.682	V	CTV9	30000	Low Level
● 11.682	V	DSCI	30000	Low Level
● 11.682	V	ES	30000	Low Level
● 11.682	V	ETVA	30000	News + Series
11.682	V	HIST	30000	News + Series
● 11.682	V	iMUS	30000	News + Series
● 11.682	V	iVIEW	30000	News + Series
● 11.682	V	MAK	30000	News + Series
● 11.682	V	MTV	30000	News + Series
11.682	V	NHK	30000	Low Level
● 11.682	V	NICK	30000	News + Series
● 11.682	V	OAS	30000	News + Series
● 11.682	V	PIN	30000	News + Series
● 11.682	V	TEST	30000	News + Series
● 11.682	V	TRAV	30000	News + Series
● 11.682	V	TV2	30000	News + Series
● 11.682	V	TV3	30000	News + Series
● 11.682	V	TV9	30000	News + Series
● 11.682	V	WATV	30000	Quality Entertain.
● 11.682	V	WRNA	30000	Advertisement
● 11.682	V	XTY	30000	News + Series
● 11.682	V	ZEE	30000	News + Series
● 11.682	V	AUSN	30000	Advertisement
● 11.682	V	KBSW	30000	Advertisement
11.682	V	MAL	30000	Advertisement
● 11.833	V	8TV	30000	Low Level
● 11.833	V	ABO	30000	Low Level
● 11.833	V	AJE	30000	News + Series
● 11.833	V	AOD	30000	News + Series
● 11.833	V	APL	30000	News + Series
● 11.833	V	ART	30000	Quality Entertain.
● 11.833	V	ARU	30000	News + Series
● 11.833	V	AUSN	30000	News + Series
● 11.833	V	AWANI	30000	News + Series
● 11.833	V	AXN	30000	Quality Entertain.
● 11.833	V	BBC	30000	News + Series
● 11.833	V	BRTV	30000	Low Level
● 11.833	V	CHTV	30000	News + Series
● 11.833	V	CI	30000	Low Level
● 11.833	V	CNBC	30000	News + Series
● 11.833	V	CTV9	30000	News + Series
● 11.833	V	DISN	30000	Low Level
● 11.833	V	DSCI	30000	Low Level
● 11.833	V	ES	30000	Low Level
● 11.833	V	ETVA	30000	News + Series
● 11.833	V	HBO	30000	News + Series
● 11.833	V	HHD	30000	News + Series
● 11.833	V	HIST	30000	News + Series
● 11.833	V	iMUS	30000	News + Series
● 11.833	V	KBSW	30000	News + Series
● 11.833	V	MAK	30000	News + Series
● 11.833	V	MTV	30000	Low Level
● 11.833	V	NGEO	30000	Low Level
● 11.833	V	NHK	30000	Low Level
● 11.833	V	NICK	30000	News + Series
● 11.833	V	OAS	30000	News + Series
● 11.833	V	PHDC	30000	Low Level
● 11.833	V	PIN	30000	News + Series
● 11.833	V	SMV	30000	News + Series
● 11.833	V	TEST	30000	News + Series
● 11.833	V	TRAV	30000	News + Series
● 11.833	V	TV2	30000	Quality Entertain.
● 11.833	V	TV3	30000	News + Series
● 11.833	V	TV9	30000	News + Series
● 11.833	V	TVBS	30000	News + Series
● 11.833	V	VAAN	30000	Quality Entertain.
● 11.833	V	WATV	30000	Quality Entertain.
● 11.833	V	WLT	30000	News + Series
● 11.833	V	WRNA	30000	News + Series
● 11.833	V	XTY	30000	News + Series
● 11.833	V	ZEE	30000	News + Series
● 11.833	V	iVIEW	30000	Advertisement
● 11.833	V	MAL	30000	Advertisement
● 11.957	V	8TV	30000	News + Series
● 11.957	V	ABO	30000	News + Series
● 11.957	V	AJE	30000	News + Series
● 11.957	V	ANIM	30000	Low Level
● 11.957	V	AOD	30000	News + Series
● 11.957	V	APL	30000	News + Series
● 11.957	V	ART	30000	Quality Entertain.
● 11.957	V	ARU	30000	News + Series
● 11.957	V	AUSN	30000	Low Level
● 11.957	V	AWANI	30000	News + Series
● 11.957	V	AXN	30000	News + Series
● 11.957	V	B4U	30000	Quality Entertain.
● 11.957	V	BBC	30000	News + Series
● 11.957	V	BRTV	30000	News + Series
● 11.957	V	CEL	30000	News + Series
● 11.957	V	CHTV	30000	News + Series
● 11.957	V	CI	30000	Low Level
● 11.957	V	CNBC	30000	Quality Entertain.
● 11.957	V	CTV9	30000	News + Series
● 11.957	V	DISN	30000	News + Series
● 11.957	V	DSCI	30000	News + Series
● 11.957	V	ES	30000	Low Level
● 11.957	V	ESPN	30000	News + Series
● 11.957	V	ETVA	30000	News + Series
● 11.957	V	HBO	30000	News + Series
● 11.957	V	HHD	30000	Quality Entertain.
● 11.957	V	HIST	30000	News + Series
● 11.957	V	HITZ	30000	Quality Entertain.
● 11.957	V	iMUS	30000	News + Series
● 11.957	V	iVIEW	30000	News + Series
● 11.957	V	KBSW	30000	News + Series
● 11.957	V	MAK	30000	Quality Entertain.
● 11.957	V	MTV	30000	Low Level
● 11.957	V	NGEO	30000	News + Series
● 11.957	V	NHK	30000	Low Level
● 11.957	V	NICK	30000	News + Series
● 11.957	V	OAS	30000	News + Series
● 11.957	V	PHDC	30000	News + Series
● 11.957	V	PIN	30000	News + Series
● 11.957	V	RIA	30000	News + Series
● 11.957	V	RMA	30000	Quality Entertain.
● 11.957	V	SHX	30000	Low Level
● 11.957	V	SMV	30000	News + Series
● 11.957	V	SPRT	30000	News + Series
● 11.957	V	TEST	30000	Low Level
● 11.957	V	TV2	30000	News + Series
● 11.957	V	TV3	30000	News + Series
● 11.957	V	TV9	30000	News + Series
● 11.957	V	TVBS	30000	News + Series
● 11.957	V	VAAN	30000	Quality Entertain.
● 11.957	V	WATV	30000	Quality Entertain.
● 11.957	V	WLT	30000	News + Series
● 11.957	V	WRNA	30000	News + Series
● 11.957	V	XTY	30000	News + Series
● 11.957	V	ZEE	30000	News + Series

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

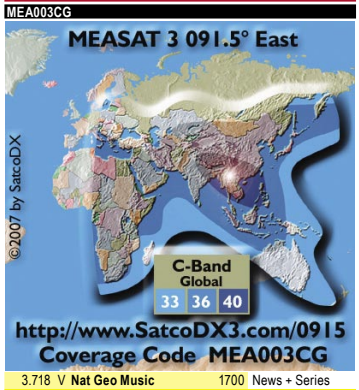
Cost Conscious Entertainment .... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.957	V	MAL	30000	Advertisement
11.957	V	TRAV	30000	Advertisement
11.976	V	ABO	6520	News + Series
11.976	V	AOD	6520	News + Series
11.976	V	APL	6520	Advertisement
11.976	V	AUSN	6520	Low Level
11.976	V	CHTV	6520	Low Level
11.976	V	ES	6520	Advertisement
11.976	V	iMUS	6520	News + Series
11.976	V	KBSW	6520	News + Series
11.976	V	MAK	6520	News + Series
11.976	V	MTV	6520	Advertisement
11.976	V	NICK	6520	Low Level
11.976	V	TEST	6520	Low Level
11.976	V	TV9	6520	News + Series
11.976	V	WRNA	6520	News + Series
11.976	V	XTY	6520	Low Level
11.976	V	ART	6520	Advertisement
11.976	V	BBC	6520	Advertisement
11.976	V	CNBC	6520	Advertisement
11.976	V	CTV9	6520	Advertisement
11.976	V	DSCI	6520	Advertisement
11.976	V	PIN	6520	Advertisement
11.976	V	rcti	6520	Home Cinema
11.976	V	rcti2	6520	Home Cinema
11.976	V	TEST	6520	Advertisement
12.120	V	8TV	7234	Low Level
12.120	V	ABO	7234	News + Series
12.120	V	AOD	7234	Low Level
12.120	V	AUSN	7234	News + Series
12.120	V	BRTV	7234	News + Series
12.120	V	CHTV	7234	Low Level
12.120	V	HIST	7234	News + Series
12.120	V	iMUS	7234	News + Series
12.120	V	KBSW	7234	News + Series
12.120	V	MAK	7234	News + Series
12.120	V	NHK	7234	Low Level
12.120	V	NICK	7234	News + Series
12.120	V	TEST	7234	News + Series
12.120	V	TV9	7234	News + Series
12.120	V	WRNA	7234	News + Series
12.120	V	XTY	7234	Low Level
12.120	V	MAL	7234	Advertisement
12.333	V	8TV	30000	News + Series
12.333	V	ABO	30000	News + Series
12.333	V	AJE	30000	News + Series
12.333	V	AOD	30000	Low Level
12.333	V	APL	30000	Low Level
12.333	V	ART	30000	Low Level
12.333	V	ARU	30000	News + Series
12.333	V	AUSN	30000	News + Series
12.333	V	AWANI	30000	News + Series
12.333	V	AXN	30000	News + Series
12.333	V	BBC	30000	News + Series
12.333	V	BRTV	30000	Low Level
12.333	V	CHTV	30000	Low Level
12.333	V	CI	30000	Low Level
12.333	V	CNBC	30000	News + Series
12.333	V	CTV9	30000	News + Series
12.333	V	DISN	30000	News + Series
12.333	V	DSCI	30000	News + Series
12.333	V	ES	30000	News + Series
12.333	V	ETVA	30000	News + Series
12.333	V	HBO	30000	News + Series
12.333	V	HHD	30000	Quality Entertain.
12.333	V	HIST	30000	News + Series
12.333	V	iMUS	30000	News + Series
12.333	V	iVIEW	30000	News + Series
12.333	V	MAK	30000	News + Series
12.333	V	MTV	30000	News + Series
12.333	V	NGEO	30000	Quality Entertain.
12.333	V	NHK	30000	News + Series
12.333	V	OAS	30000	Low Level
12.333	V	PHDC	30000	Low Level
12.333	V	PIN	30000	News + Series
12.333	V	SMV	30000	News + Series
12.333	V	TEST	30000	Low Level
12.333	V	TRAV	30000	News + Series
12.333	V	TV2	30000	Low Level
12.333	V	TV3	30000	Low Level
12.333	V	TV9	30000	News + Series
12.333	V	TVBS	30000	News + Series
12.333	V	VAAN	30000	News + Series
12.333	V	WATV	30000	Quality Entertain.
12.333	V	WLT	30000	News + Series
12.333	V	WRNA	30000	News + Series
12.333	V	ZEE	30000	News + Series
12.333	V	AOD	30000	Advertisement
12.333	V	KBSW	30000	Advertisement
12.333	V	MAL	30000	Advertisement
12.333	V	NICK	30000	Advertisement
12.333	V	TEST	30000	Advertisement
12.333	V	XTY	30000	Advertisement
12.414	V	ABO	30000	News + Series
12.414	V	AJE	30000	Low Level
12.414	V	AOD	30000	Low Level
12.414	V	ARU	30000	News + Series
12.414	V	AUSN	30000	Low Level
12.414	V	AWANI	30000	News + Series
12.414	V	AXN	30000	News + Series
12.414	V	CHTV	30000	Low Level
12.414	V	CI	30000	News + Series
12.414	V	DISN	30000	Low Level
12.414	V	ETVA	30000	News + Series
12.414	V	HBO	30000	News + Series
12.414	V	HHD	30000	Quality Entertain.
12.414	V	iMUS	30000	News + Series
12.414	V	iVIEW	30000	Quality Entertain.
12.414	V	KBSW	30000	News + Series
12.414	V	MAK	30000	Quality Entertain.
12.414	V	NGEO	30000	News + Series
12.414	V	NICK	30000	News + Series
12.414	V	OAS	30000	News + Series
12.414	V	PHDC	30000	News + Series
12.414	V	SMV	30000	News + Series
12.414	V	TEST	30000	Low Level
12.414	V	TRAV	30000	News + Series
12.414	V	TV2	30000	Quality Entertain.
12.414	V	TV3	30000	Low Level
12.414	V	TV9	30000	Low Level
12.414	V	TVBS	30000	News + Series
12.414	V	VAAN	30000	News + Series
12.414	V	WATV	30000	News + Series
12.414	V	WLT	30000	News + Series
12.414	V	WRNA	30000	News + Series
12.414	V	XTY	30000	News + Series
12.414	V	ZEE	30000	News + Series
12.493	V	ABO	30000	News + Series
12.493	V	AOD	30000	Quality Entertain.
12.493	V	AUSN	30000	News + Series
12.493	V	AXN	30000	News + Series
12.493	V	CHTV	30000	Low Level
12.493	V	CTRA	30000	Quality Entertain.
12.493	V	CTWK	30000	Quality Entertain.
12.493	V	DISN	30000	Low Level
12.493	V	HBO	30000	News + Series
12.493	V	HHD	30000	Quality Entertain.
12.493	V	iMUS	30000	News + Series
12.493	V	KBSW	30000	News + Series
12.493	V	MAK	30000	News + Series
12.493	V	NGEO	30000	News + Series
12.493	V	NICK	30000	News + Series
12.493	V	PHDC	30000	News + Series
12.493	V	SMV	30000	News + Series
12.493	V	TEST	30000	News + Series
12.493	V	TV9	30000	Low Level
12.493	V	TVBS	30000	Low Level
12.493	V	VAAN	30000	News + Series
12.493	V	WLT	30000	News + Series
12.493	V	WRNA	30000	News + Series
12.493	V	XTY	30000	News + Series
12.493	V	AOD	30000	Advertisement

C-Band: MEASAT 3

91.6 East

MEA003CG



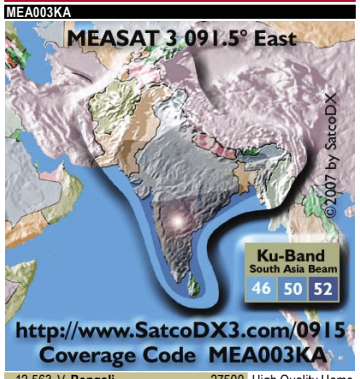
Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.718	V	Nat Geo Music	1700	News + Series
3.721	V	TV NATIN	2170	News + Series
3.769	V	KIX	14000	High Quality Home
3.769	V	Thrill	14000	High Quality Home
3.769	V	History Channel HD	14000	High Quality Home
3.769	V	NGC HD	14000	High Quality Home
3.787	V	TV 3 DIGITAL	7030	Home Cinema
3.806	V	Aruna MP4	7500	High Quality Home
3.806	V	RIA MP4	7500	High Quality Home
3.806	V	Jim Jam MP4	7500	High Quality Home
3.806	V	Classica HD	7500	High Qual. Cinema
3.814	V	SKY2	6661	High Quality Home
3.814	V	SKY3	6661	High Quality Home
3.814	V	SKY1	6661	Quality Entertain.
3.840	V	AFC	30000	Quality Entertain.
3.840	V	BBC Entertainment	30000	Quality Entertain.
3.840	V	BIOGRAPHY	30000	Quality Entertain.
3.840	V	CCM	30000	Quality Entertain.
3.840	V	Celestial 1	30000	Quality Entertain.
3.840	V	Celestial 2	30000	Quality Entertain.
3.840	V	CRIME&INVESTIGATI	30000	Quality Entertain.
3.840	V	GOLF	30000	Quality Entertain.
3.840	V	HISTORY	30000	Quality Entertain.
3.840	V	JIA YU	30000	Quality Entertain.
3.865	V	Sabah TV	3835	Quality Entertain.
3.877	V	RTM 2	12520	Quality Entertain.
3.877	V	RTM FEED 2	12520	Quality Entertain.
3.877	V	RTM 1	12520	Quality Entertain.
3.877	V	RTM FEED 1	12520	Quality Entertain.
3.888	V	RTM Sarawak TV	3975	Quality Entertain.
3.920	V	AXN KOREA HD	28000	High Qual. Cinema
3.920	V	AXN Software Downloa	28000	High Qual. Cinema
3.920	V	321 FOX Crime	28000	Low Level
3.920	V	322 NG Wild	28000	Quality Entertain.
3.920	V	323 Fox FX	28000	News + Series
3.920	V	324 Nat Geo Philippi	28000	Quality Entertain.
3.920	V	TESTING	28000	News + Series
4.114	V	GINX	2960	Quality Entertain.
4.134	V	ASN	7200	High Qual. Cinema
4.147	H	Lease 3	6665	Home Cinema
4.147	H	Service 2	6665	Home Cinema

India

MEASAT 3

91.7 East

MEA003KA

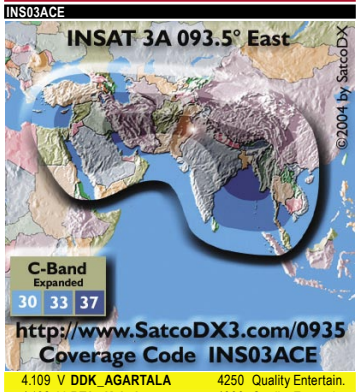


Freq	Pol	Channel Name	Symbol Rate	Programming Type
12.563	V	Bengali	27500	High Quality Home
12.563	V	Bhojpuri	27500	High Quality Home
12.563	V	Choice Pay 1	27500	High Quality Home
12.563	V	Choice Pay 2	27500	High Quality Home
12.563	V	Choice Pay 3	27500	High Quality Home
12.563	V	Choice Pay 4	27500	High Quality Home
12.563	V	Choice Pay 5	27500	High Quality Home
12.563	V	Choice Pay 6	27500	High Quality Home
12.563	V	Gujarati	27500	High Quality Home
12.563	V	Hindi Action	27500	High Quality Home
12.563	V	Hindi Blockbuster	27500	High Quality Home
12.563	V	Hindi Comedy	27500	High Quality Home
12.563	V	Hindi Drama	27500	High Quality Home
12.563	V	Hindi Family	27500	High Quality Home
12.563	V	Hindi Romance	27500	High Quality Home
12.563	V	Hindi Suspense	27500	High Quality Home
12.563	V	ISP Video	27500	High Quality Home
12.563	V	Kannada	27500	High Quality Home
12.563	V	Marathi	27500	High Quality Home
12.563	V	Regional Blockbuster	27500	High Quality Home
12.563	V	Tamil	27500	High Quality Home
12.563	V	Telugu	27500	High Quality Home
12.683	H	Preview	27500	High Quality Home
12.683	H	What's On Big TV	27500	High Quality Home
12.723	V	Help Channel	27500	High Quality Home
12.723	V	iCare	27500	High Quality Home
12.723	V	iCooking	27500	High Quality Home
12.723	V	iNews	27500	High Quality Home
12.723	V	My Account	27500	High Quality Home

C-Band: INSAT 3A,4B

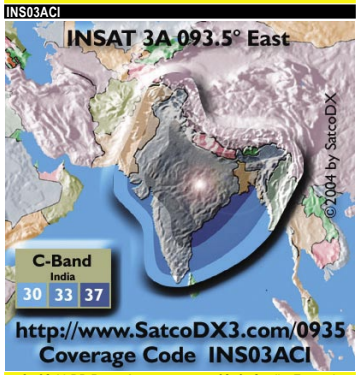
93.5 East

INS03ACE



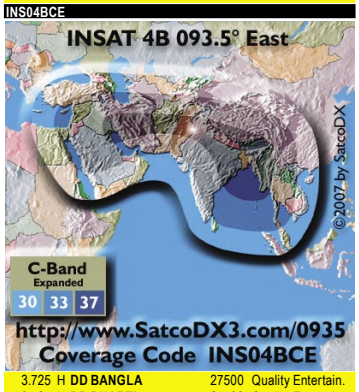
Freq	Pol	Channel Name	Symbol Rate	Programming Type
4.109	V	DDK_AGARTALA	4250	Quality Entertain.
4.132	V	RTA - Kabul	4000	Quality Entertain.
4.137	V	RTA Service	2000	Advertisement
4.141	V	ARIANA INT'L	5148	News + Series
4.141	V	ARIANA NATIONAL	5148	News + Series

INS03ACI



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.732	V	DD Bangala	6250	Quality Entertain.
3.732	V	Kolkata Feed	6250	Quality Entertain.
3.740	V	DD PUNJABI	6250	Quality Entertain.
3.740	V	JALANDHAR FEED	6250	News + Series
3.749	V	Ahmedabad Feed	6250	News + Series
3.749	V	DD Gujrati	6250	Quality Entertain.
3.759	V	DD BANGALORE NEWS	6250	News + Series
3.759	V	DD CHANDANA	6250	Quality Entertain.
3.771	V	DD Feed - BBSR	6250	Quality Entertain.
3.771	V	DD Oriya	6250	Quality Entertain.
3.781	V	DD-KASHIR (SRINAG	6250	Quality Entertain.
3.781	V	DD-News feed(SRIN	6250	News + Series
3.792	V	NEWS-FEED	8600	News + Series
3.792	V	DD SAHYADRI	8600	Home Cinema
3.792	V	MUMBAI-FEED	8600	News + Series
3.811	V	DD Malayalam RLSS	6250	Quality Entertain.
3.811	V	NEWS DDK Trivandru	6250	Quality Entertain.
3.820	V	News feed hyd (News	6250	Quality Entertain.
3.820	V	News feed hyd (Sapth	6250	Quality Entertain.
3.832	V	Chennai feed - 1	8600	Home Cinema
3.832	V	Podhigai	8600	Quality Entertain.
3.842	H	{Empty Name}	6250	News + Series
3.932	V	DD-News feed(Shimla)	6250	Quality Entertain.
3.932	V	DD-Shimla	6250	Quality Entertain.
3.941	V	DD-N/FeedJaipur (D	6250	Quality Entertain.
3.941	V	DD-N/FeedJaipur (D	6250	Quality Entertain.
3.950	V	DD-Bhopal	6250	Quality Entertain.
3.950	V	DD-News feed(Bhopal)	6250	Quality Entertain.
3.959	V	DD-Lucknow	6250	Quality Entertain.
3.959	V	DD-News feed(Lucknow	6250	Quality Entertain.
4.093	V	DDSHG-NEWSFEED	6250	Low Level
4.093	V	DDSHG-REGIONAL	6250	Home Cinema
4.101	V	AIZAWL-REGIONAL	6250	Quality Entertain.
4.101	V	DD-AZL-NEWSFEED	6250	News + Series

INS04BCE



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.725	H	DD BANGLA	27500	Quality Entertain.
3.725	H	DD BHARTI	27500	Quality Entertain.
3.725	H	DD FEED	27500	Quality Entertain.
3.725	H	DD NATIONAL	27500	Home Cinema
3.725	H	DD NEWS	27500	Home Cinema
3.725	H	DD RAJYASABHA	27500	Low Level
3.725	H	DD SPORTS	27500	Home Cinema
3.725	H	DD URDU	27500	Quality Entertain.
3.751	H	DD Dehradun	4250	Quality Entertain.
3.763	H	DD Chhattisgarh	4250	Quality Entertain.
3.769	H	DDK RANCHI	4250	Quality Entertain.
3.775	H	DDK JAMMU	4250	Quality Entertain.
3.803	H	DDK HISAR	4250	Quality Entertain.
3.809	H	DDK CHANDIGARH	4250	Quality Entertain.
3.821	H	PODHIGAI	4250	Home Cinema
3.833	H	DD Patna	6250	News + Series
3.833	H	Feed DD Patna	6250	Advertisement
3.851	H	Enc1	6250	Quality Entertain.
3.851	H	Enc2	6250	Quality Entertain.
3.885	H	CHINTU TEST	28000	High Quality Home
3.885	H	GEMINI MUSIC TEST	28000	High Quality Home
3.885	H	GEMINI TV TEST	28000	High Quality Home
3.885	H	NAVVULU TEST	28000	High Quality Home
3.885	H	TEJA TV TEST	28000	High Quality Home
3.885	H	UDAYA MOVIES TEST	28000	High Quality Home
3.885	H	UDAYA TV II TEST	28000	High Quality Home
3.885	H	UDAYA TV TEST	28000	High Quality Home
3.885	H	UDAYA VARTHEGALU	28000	High Quality Home
3.885	H	USHE TV TEST	28000	High Quality Home
3.885	H	GEMINI MUSIC	28000	News + Series
3.885	H	GEMINI NEWS	28000	Low Level
3.885	H	GEMINI TV	28000	Home Cinema
3.885	H	TEJA TV	28000	News + Series
3.885	H	NAVVULU TV	28000	News + Series
3.926	H	DD Bangla	27500	News + Series
3.926	H	DD Bharti	27500	Home Cinema
3.926	H	DD Malayalam	27500	Quality Entertain.
3.926	H	DD National	27500	Quality Entertain.
3.926	H	DD News	27500	News + Series
3.926	H	DD Podhigai	27500	News + Series
3.926	H	DD Portblair	27500	Low Level
3.926	H	DD Saptagiri	27500	News + Series
3.926	H	DD Sports	27500	Home Cinema
3.926	H	DD Urdu	27500	News + Series
3.950	H	Sakshi TV	4435	High Quality Home
4.005	H	RUPASI BANGLA	25430	High Quality Home
4.005	H	HMTV	25430	Quality Entertain.
4.005	H	iNEWS	25430	Quality Entertain.
4.005	H	ISAI ARUVI	25430	Quality Entertain.
4.005	H	KALAIGNAR SEITHIG	25430	News + Series
4.005	H	KALAIGNAR SIRIPPO	25430	Quality Entertain.
4.005	H	KALAIGNAR TV	25430	Quality Entertain.
4.005	H	R TV	25430	Quality Entertain.
4.005	H	SS ENTERTAINMENT	25430	Quality Entertain.
4.005	H	SS MUSIC	25430	Quality Entertain.
4.045	H	GEMINI NEWS TEST	28000	High Quality Home
4.045	H	KTV TEST	28000	High Quality Home
4.045	H	SUN MUSIC TEST	28000	High Quality Home
4.045	H	SUN NEWS TEST	28000	High Quality Home
4.045	H	SUN TV Test	28000	High Quality Home
4.045	H	unknown	28000	High Quality Home
4.045	H	ADITHYA TEST	28000	High Quality Home
4.045	H	CHUTTI TV TEST	28000	High Quality Home
4.045	H	Kiran TV TEST	28000	High Quality Home
4.045	H	Surya TV TEST	28000	High Quality Home
4.045	H	ADITHYA TV	28000	News + Series
4.045	H	KUSHI	28000	Quality Entertain.
4.045	H	TEST 18	28000	Quality Entertain.
4.045	H	TEST 20	28000	News + Series
4.069	H	ARADANA TV	1481	High Quality Home
4.085	H	9MHz, PAL, 1 Audio	2200	News + Series
4.085	H	ASTHA TV HARIDWAR	2200	News + Series

India

INSAT 4B, NSS 6

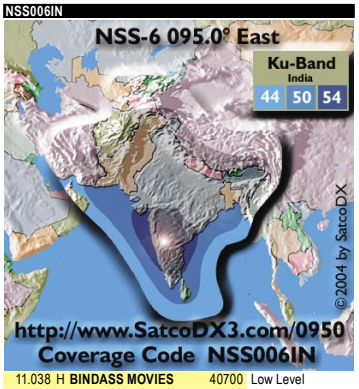
95.0 East

INS04BKB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
10.990	V	LOK SABHA TV	27500	Low Level
10.990	V	DD BANGLA	27500	News + Series
10.990	V	DD BHARATI	27500	News + Series
● 10.990	V	DD CHANDANA	27500	Low Level
● 10.990	V	DD GIRNAR	27500	News + Series
10.990	V	DD INDIA	27500	Low Level
10.990	V	DD KASHIR	27500	Low Level
10.990	V	DD NATIONAL	27500	Quality Entertain.
10.990	V	DD NEWS	27500	Quality Entertain.
10.990	V	DD SPORTS	27500	Quality Entertain.
10.990	V	TEST 111	27500	Low Level
10.990	V	TEST 112	27500	News + Series
10.990	V	VYAS TV	27500	News + Series
11.030	V	Chirithira	27500	High Quality Home
11.030	V	ETV Gujarathi	27500	High Quality Home
11.030	V	ETV Oriya	27500	High Quality Home
11.030	V	Gemini TV	27500	High Quality Home
11.030	V	Jaya TV	27500	High Quality Home
11.030	V	K TV	27500	High Quality Home
11.030	V	Kalaignar TV	27500	High Quality Home
11.030	V	Kiran TV	27500	High Quality Home
11.030	V	M TV	27500	High Quality Home
11.030	V	Russia Today	27500	High Quality Home
11.030	V	Set Max	27500	High Quality Home
11.030	V	SS Music	27500	High Quality Home
11.030	V	Star Movies	27500	High Quality Home
11.030	V	Sun TV	27500	High Quality Home
11.030	V	Surya TV	27500	High Quality Home
11.030	V	Teja TV	27500	High Quality Home
11.030	V	Udaya Movies	27500	High Quality Home
11.030	V	Udaya TV	27500	High Quality Home
11.030	V	Vijay TV	27500	High Quality Home
11.030	V	Zee Marathi	27500	High Quality Home
11.030	V	Info Channel	27500	High Quality Home
11.070	V	9 X	27500	News + Series
11.070	V	DD MALAYALAM	27500	News + Series
11.070	V	DD NORTH EAST	27500	Quality Entertain.
11.070	V	DD ORIYA	27500	Quality Entertain.
11.070	V	DD PODHIGAI	27500	Quality Entertain.
11.070	V	DD PUNJABI	27500	News + Series
11.070	V	DD RAJYA SABHA	27500	News + Series
11.070	V	DD SAHYADRI	27500	News + Series
11.070	V	DD SAPTAGIRI	27500	Quality Entertain.
11.070	V	IBN LOKMAT	27500	News + Series
11.070	V	N TV	27500	News + Series
11.070	V	SHAKTI TV	27500	News + Series
11.070	V	SHRADDHA	27500	News + Series
11.110	V	Bindass Movies	27500	High Quality Home
11.110	V	Channel V	27500	High Quality Home
11.110	V	Chutti TV	27500	High Quality Home
11.110	V	ESPN	27500	High Quality Home
11.110	V	ETC Punjabi	27500	High Quality Home
11.110	V	ETV 2	27500	High Quality Home
11.110	V	ETV Telugu	27500	High Quality Home
11.110	V	Gemini Music	27500	High Quality Home
11.110	V	Gemini News	27500	High Quality Home
11.110	V	Jetix	27500	High Quality Home
11.110	V	Kalaignar Seithigal	27500	High Quality Home
11.110	V	Maa TV	27500	High Quality Home
11.110	V	Pogo	27500	High Quality Home
11.110	V	Raj TV	27500	High Quality Home
11.110	V	Real TV	27500	High Quality Home
11.110	V	Sahara One	27500	High Quality Home
● 11.110	V	Shalom TV	27500	High Quality Home
11.110	V	Star Majaa	27500	High Quality Home
11.110	V	Sun Music	27500	High Quality Home
11.110	V	Sun News	27500	High Quality Home
11.110	V	TV9	27500	High Quality Home
11.110	V	World Movies	27500	High Quality Home
11.110	V	Zee Punjabi	27500	High Quality Home
11.110	V	Zee Telugu	27500	High Quality Home
11.150	V	AASTHA	27500	News + Series
11.150	V	9XM	27500	News + Series
11.150	V	CARE WORLD	27500	News + Series
11.150	V	E 24	27500	News + Series
11.150	V	ETC	27500	News + Series
11.150	V	MAKKAL TV	27500	News + Series
11.150	V	MH One	27500	News + Series
11.150	V	P-7 NEWS	27500	News + Series
11.150	V	PTC NEWS	27500	News + Series
11.150	V	STAR JALSHA	27500	News + Series
11.150	V	TIME TV	27500	News + Series
11.150	V	TOTAL TV	27500	News + Series
11.150	V	ZEE JAGRAN	27500	News + Series
11.185	V	Adithya TV	20000	High Quality Home
11.185	V	Angel TV	20000	High Quality Home
11.185	V	CNBC	20000	High Quality Home
11.185	V	ETV Bengali	20000	High Quality Home
11.185	V	ETV Urdu	20000	High Quality Home
11.185	V	Fox Crime	20000	High Quality Home
11.185	V	HBO	20000	High Quality Home
11.185	V	Hungama	20000	High Quality Home
11.185	V	Kushi	20000	High Quality Home
11.185	V	Makkal TV	20000	High Quality Home
11.185	V	Mega TV	20000	High Quality Home
11.185	V	Podhigai	20000	High Quality Home
11.185	V	Star Gold	20000	High Quality Home
11.185	V	Star One	20000	High Quality Home
11.185	V	Zee Cafe	20000	High Quality Home
11.185	V	Zee Music	20000	High Quality Home
11.185	V	Zee TV	20000	High Quality Home
11.185	V	Zoom TV	20000	High Quality Home
11.490	V	Amrita TV	27500	Home Cinema
11.490	V	AZAD NEWS	27500	Home Cinema
11.490	V	DW-TV	27500	Low Level
11.490	V	Enter 10	27500	Quality Entertain.
11.490	V	INDIA NEWS	27500	News + Series
11.490	V	KAIRALI TV	27500	Quality Entertain.
11.490	V	NEWS 24	27500	News + Series
11.490	V	NEWS LIVE	27500	News + Series
11.490	V	NHK WORLD	27500	Home Cinema
11.490	V	SVBC	27500	Quality Entertain.
11.530	V	Asianet Suvarna	27500	High Quality Home
11.530	V	Baby TV	27500	High Quality Home
11.530	V	Cartoon Network	27500	High Quality Home
11.530	V	Chintu	27500	High Quality Home
11.530	V	CNN IBN	27500	High Quality Home
11.530	V	Disney English	27500	High Quality Home
11.530	V	ETV Kannada	27500	High Quality Home
11.530	V	MI Marathi	27500	High Quality Home
11.530	V	NDTV Good Times	27500	High Quality Home
11.530	V	NDTV Imagine	27500	High Quality Home
11.530	V	Neo Cricket	27500	High Quality Home
11.530	V	PTC Punjabi	27500	High Quality Home
11.530	V	Sakshi TV	27500	High Quality Home
11.530	V	Star Ananda	27500	High Quality Home
11.530	V	Star Plus	27500	High Quality Home
11.530	V	Star World	27500	High Quality Home
11.530	V	TV 9 Kannada	27500	High Quality Home
11.530	V	Udaya 2	27500	High Quality Home
11.530	V	Udaya Varthegalu	27500	High Quality Home
11.530	V	Vasanth TV	27500	High Quality Home
11.530	V	WB	27500	High Quality Home
11.530	V	Zee Cinema	27500	High Quality Home
11.530	V	Zee Studio	27500	High Quality Home
11.570	V	B4U Music	27500	Quality Entertain.
11.570	V	DD Urdu	27500	Quality Entertain.
11.570	V	Gyandarshan-1	27500	Quality Entertain.
11.570	V	Gyandarshan-2	27500	Low Level
11.570	V	JAIHIND TV	27500	Quality Entertain.
11.570	V	Kalaignar TV	27500	Quality Entertain.
11.570	V	MEGA TV	27500	News + Series
11.570	V	Music India	27500	Quality Entertain.
11.570	V	Smile TV	27500	News + Series
11.570	V	Star Utsav	27500	Low Level
11.610	V	Aaj Tak	27500	High Quality Home
11.610	V	Akash Bangla	27500	High Quality Home
11.610	V	Animax	27500	High Quality Home
11.610	V	Asianet	27500	High Quality Home
11.610	V	Asianet News	27500	High Quality Home
11.610	V	Asianet Plus	27500	High Quality Home
11.610	V	Bindass	27500	High Quality Home
● 11.610	V	Bloomberg UTV	27500	High Quality Home
11.610	V	Colors	27500	High Quality Home
11.610	V	ETV Marathi	27500	High Quality Home
11.610	V	FX	27500	High Quality Home
11.610	V	History Channel	27500	High Quality Home
11.610	V	India Vision	27500	High Quality Home
11.610	V	Kairali We	27500	High Quality Home
11.610	V	NGC	27500	High Quality Home
● 11.610	V	NGC Wild	27500	High Quality Home
11.610	V	O TV	27500	High Quality Home
11.610	V	Sahara Filmy	27500	High Quality Home
11.610	V	Star Cricket	27500	High Quality Home
11.610	V	Times Now	27500	High Quality Home
11.610	V	UTV Movies	27500	High Quality Home
11.610	V	Zee Bengali	27500	High Quality Home
11.610	V	Zee Sports	27500	High Quality Home
11.645	V	AXN	20000	High Quality Home
11.645	V	CNN	20000	High Quality Home
11.645	V	Fashion TV	20000	High Quality Home
11.645	V	Jaya Plus	20000	High Quality Home
11.645	V	Manorama News	20000	High Quality Home
● 11.645	V	Navvulu TV	20000	High Quality Home
11.645	V	NDTV 24x7	20000	High Quality Home
11.645	V	NDTV India	20000	High Quality Home
11.645	V	NDTV Profit	20000	High Quality Home
11.645	V	Neo Sports	20000	High Quality Home
11.645	V	Raj Vissa	20000	High Quality Home
11.645	V	Star Jalsha	20000	High Quality Home
11.645	V	Star Sports	20000	High Quality Home
11.645	V	Ten Sports	20000	High Quality Home
11.645	V	Ushe TV	20000	High Quality Home
11.645	V	VH1	20000	High Quality Home
11.645	V	Zee Classic	20000	High Quality Home
11.645	V	Zee Kannada	20000	High Quality Home
11.668	V	HD Service	9500	High Qual. Cinema
11.668	V	NGC HD	9500	High Qual. Cinema
11.682	V	Animal Planet	9500	High Quality Home
11.682	V	CNBC Awaaz	9500	High Quality Home
11.682	V	Discovery	9500	High Quality Home
11.682	V	Nickelodeon	9500	High Quality Home
11.682	V	SAB	9500	High Quality Home
11.682	V	Sony	9500	High Quality Home
11.682	V	Sony Pix	9500	High Quality Home
11.682	V	Star News	9500	High Quality Home

NSS006IN



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.038	H	BINDASS MOVIES	40700	Low Level
11.038	H	CHANNEL V	40700	Home Cinema
11.038	H	CNBC AWAAZ	40700	News + Series
11.038	H	CNN IBN	40700	News + Series
11.038	H	DISNEY CHANNEL	40700	Low Level
11.038	H	ETV 2	40700	Low Level
11.038	H	ETV BANGLA	40700	Low Level
● 11.038	H	ETV BIHAR	40700	News + Series
11.038	H	ETV GUJARATI	40700	Low Level
11.038	H	ETV KANNADA	40700	Low Level
11.038	H	ETV ORIYA	40700	News + Series
11.038	H	ETV TELUGU	40700	Quality Entertain.
11.038	H	ETV UP	40700	News + Series
11.038	H	ETV URDU	40700	Low Level
11.038	H	FOX HISTORY	40700	News + Series
11.038	H	HUNGAMA	40700	News + Series
11.038	H	KASTURI TV	40700	News + Series
11.038	H	NAT GEO	40700	News + Series
11.038	H	NE TV	40700	Quality Entertain.
11.038	H	TOON DISNEY	40700	News + Series
11.038	H	TV 5 MONDE	40700	News + Series
11.038	H	UTV MOVIES	40700	News + Series
11.091	H	CGNTV	29500	Quality Entertain.
11.172	H	POGO	27500	News + Series
11.172	H	STAR GOLD	27500	News + Series
11.172	H	STAR MOVIES	27500	News + Series
11.172	H	STAR NEWS	27500	News + Series
11.172	H	STAR SPORTS	27500	News + Series
11.172	H	STAR WORLD	27500	News + Series
11.172	H	TIMES NOW	27500	News + Series
11.172	H	VH1	27500	News + Series
11.172	H	ZEE ACTION	27500	News + Series
11.172	H	ZEE CLASSIC	27500	News + Series
11.172	H	ZEE PREMIERE	27500	News + Series
11.172	H	DISH INTERACTIVE	27500	News + Series
11.172	H	ETC PUNJABI	27500	News + Series
12.534	V	BBC WORLD	40700	Low Level
12.534	V	ESPN	40700	Low Level
12.534	V	ETV RAJASTHAN	40700	News + Series
12.534	V	FILMY	40700	Low Level
12.534	V	FOCUS TV	40700	News + Series
12.534	V	GEMINI NEWS	40700	Low Level
12.534	V	ISAI ARUVI	40700	News + Series
12.534	V	MAA TV	40700	Low Level
12.534	V	MANORAMA NEWS	40700	News + Series
12.534	V	MGM	40700	Low Level
12.534	V	NDTV GOOD TIMES	40700	News + Series
12.534	V	NDTV IMAGINE	40700	Low Level
12.534	V	RAJ DIGITAL	40700	News + Series
12.534	V	RAJ TV	40700	Quality Entertain.
12.534	V	SAHARA ONE	40700	News + Series
12.534	V	SAMAY TV	40700	News + Series
12.534	V	SHALOM	40700	News + Series
12.534	V	STAR PRAVAH	40700	Low Level
12.534	V	STAR ONE	40700	News + Series
12.534	V	STAR PLUS	40700	Quality Entertain.
12.534	V	ZEE TELUGU	40700	News + Series
12.534	V	ZOOM TV	40700	News + Series
12.534	V	ZEE JAGRAN	40700	News + Series
12.595	V	24 GHANTA	40700	Quality Entertain.
12.595	V	AAKAASH BANGLA	40700	News + Series
12.595	V	ASIANET	40700	Low Level
12.595	H	ASIANET NEWS	40700	News + Series
12.595	H	ASIANET PLUS	40700	News + Series
12.595	V	CNEB	40700	News + Series
12.595	H	DISH NEWS ACTIVE	40700	News + Series
● 12.595	V	ET NOW	40700	News + Series
12.595	H	ETV MARATHI	40700	News + Series
12.595	V	FASHION TV	40700	News + Series
12.595	H	GAMES ACTIVE	40700	Low Level
12.595	H	HAMAR TV	40700	News + Series
12.595	V	INDIA TV	40700	Low Level
12.595	V	JAYA TV	40700	News + Series
12.595	V	LIVE INDIA	40700	News + Series
12.595	H	MAHUA	40700	News + Series
12.595	V	MI MARATHI	40700	Low Level
12.595	H	MOVIE ON DEMAND 1	40700	News + Series
12.595	H	MOVIE ON DEMAND 2	40700	News + Series
12.595	H	MOVIE ON DEMAND 3	40700	News + Series
12.595	H	MOVIE ON DEMAND 4	40700	News + Series
12.595	H	MOVIE ON DEMAND 5	40700	News + Series
12.595	H	MOVIE ON DEMAND 6	40700	News + Series
12.595	H	NDTV PROFIT	40700	News + Series
12.595	V	NEPAL1	40700	News + Series
12.595	V	PLAY TV	40700	News + Series
12.595	V	REAL	40700	Low Level
● 12.595	V	RUSSIA TODAY	40700	News + Series
12.595	V	SS MUSIC	40700	Low Level
12.595	V	STAR ANANDA	40700	News + Series
12.595	H	STAR VIJAY	40700	News + Series
12.595	V	SUVARNA	40700	News + Series
12.595	V	TBN	40700	News + Series
12.595	H	TV 5	40700	News + Series
12.595	V	TV9 KANNADA	40700	Quality Entertain.
12.595	V	TV9 TELUGU	40700	Quality Entertain.
12.595	H	WB	40700	News + Series
12.595	H	ZEE NEWS UP	40700	News + Series
12.595	V	ZEE 24 TAAS	40700	Low Level
12.595	H	ZEE NEWS	40700	News + Series
12.595	V	ZEE TALKIES	40700	News + Series
12.595	H	BHAKTI Mosaic	40700	News + Series
12.595	V	ZEE TAMIL	40700	News + Series
12.638	V	AAJ TAK	13300	Low Level
12.638	V	COLORS	13300	Low Level
12.638	V	OTV	13300	News + Series
12.638	V	PTC PUNJABI	13300	News + Series
12.638	V	STAR MAJHA	13300	Low Level
12.638	V	ZEE 24G CHHATTISG	13300	News + Series
12.647	H	ANIMAL PLANET	27500	News + Series
12.647	H	ANIMAX	27500	Advertisement
12.647	H	AXN	27500	News + Series
● 12.647	H	BLOOMBERG-UTV	27500	News + Series
12.647	H	DISCOVERY	27500	News + Series
12.647	H	M TV	27500	News + Series
12.647	H	NAXATRA NEWS	27500	News + Series
12.647	H	NDTV INDIA	27500	Quality Entertain.
12.647	H	NICK	27500	Advertisement
12.647	H	PIX	27500	News + Series
12.647	H	SAB TV	27500	News + Series
12.647	H	SONY	27500	News + Series
12.647	H	TEN SPORTS	27500	News + Series
● 12.647	H	TRAVEL & LIVING	27500	Low Level
12.688	H	CHUTTI TV	27500	Low Level
● 12.688	V	DISH INTERACTIVE	27500	News + Series
12.688	H	GEMINI MUSIC	27500	News + Series
12.688	H	GEMINI TV	27500	News + Series
12.688	H	K TV	27500	News + Series
12.688	H	KIRAN TV	27500	News + Series
12.688	H	SUN MUSIC	27500	Low Level
12.688	H	SUN NEWS	27500	News + Series
12.688	H	SUN TV	27500	Low Level
12.688	H	SURYA TV	27500	Low Level
12.688	H	TEJA TV	27500	News + Series
12.688	H	U2	27500	News + Series
12.688	H	UDAYA MOVIES	27500	News + Series
12.688	H	UDAYA TV	27500	Quality Entertain.
12.688	H	UDAYA VARTHEGALU	27500	Low Level
12.688	V	ZEE BANGLA	27500	Quality Entertain.
12.688	V	ZEE CAFE	27500	Low Level
12.688	V	ZEE KANNADA	27500	News + Series
12.688	V	ZEE MARATHI	27500	Quality Entertain.
12.688	V	ZEE PUNJABI	27500	Quality Entertain.
12.688	V	ZEE STUDIO	27500	News + Series
12.688	V	ZEE TV	27500	Low Level
12.688	V	ZING	27500	Quality Entertain.
12.688	V	Playjam	27500	Advertisement
12.729	V	CARTOON NETWORK	27500	News + Series
12.729	V	CNBC TV 18	27500	News + Series
12.729	V	CNN	27500	News + Series
12.729	V	HBO	27500	News + Series
12.729	V	MAX	27500	News + Series
12.729	V	NDTV 24x7	27500	News + Series
12.729	V	STAR CRICKET	27500	Quality Entertain.
12.729	V	ZEE 24 GANTALU	27500	News + Series
12.729	V	ZEE BUSINESS	27500	News + Series
12.729	V	ZEE CINEMA	27500	News + Series
12.729	V	ZEE SPORTS	27500	News + Series
12.729	V	ZEE TRENDZ	27500	News + Series

South East Asia

NSS 6

95.1 East

NSS006SE



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.135	V	IPM-01	27500	News + Series
11.135	V	IPM-02	27500	Low Level
11.135	V	IPM-03	27500	News + Series
11.135	V	IPM-04	27500	News + Series
11.135	V	IPM-05	27500	News + Series
11.135	V	IPM-06	27500	News + Series
● 11.135	V	IPM-07	27500	News + Series
● 11.135	V	IPM-09	27500	Low Level
● 11.135	V	IPM-10	27500	Low Level
● 11.135	V	IPM-11	27500	News + Series
● 11.135	V	IPM-12	27500	News + Series
● 11.135	V	AM Fine	27500	News + Series
● 11.135	V	AsiaTV	27500	News + Series
● 11.135	V	Farm Channel	27500	News + Series
● 11.135	V	I Channel	27500	News + Series
● 11.135	V	IN Channel	27500	News + Series
● 11.135	V	IPM-34	27500	Advertisement
● 11.135	V	IPM-35	27500	Advertisement
● 11.135	V	IPM-36	27500	Advertisement
● 11.135	V	IPM-37	27500	Advertisement
● 11.135	V	IPM-38	27500	Advertisement
● 11.135	V	IPM-39	27500	Advertisement
● 11.135	V	IPM-Motor	27500	Low Level
● 11.135	V	IPM-Party	27500	Low Level
● 11.135	V	IPM-Preview	27500	Advertisement
● 11.135	V	OKTV	27500	News + Series
● 11.135	V	Super Hit	27500	Advertisement
● 11.135	V	Ten-Happy	27500	Low Level
● 11.135	V	TTTTV	27500	News + Series

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

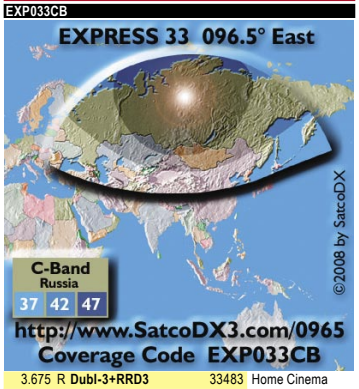
Cost Conscious Entertainment ..... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.135	V	TV Kasat	27500	Advertisement
11.635	H	ACE CHANNEL	27500	Low Level
11.635	H	CGNTV	27500	Quality Entertain.
11.635	H	D Station	27500	News + Series
11.635	H	DMC	27500	News + Series
11.635	H	For Mankind TV	27500	News + Series
11.635	H	Nation Channel	27500	News + Series
11.635	H	PEAK CHANNEL	27500	Advertisement
11.635	H	Suwannabhumi Ch	27500	News + Series
11.635	H	TCC	27500	News + Series
11.635	H	TCCTV	27500	News + Series
11.635	H	TNN 24	27500	News + Series
11.635	H	WBTV	27500	News + Series
11.676	H	Body and Mind	27500	Advertisement
11.676	H	e-San Discovery	27500	Quality Entertain.
11.676	H	For the Earth TV	27500	Quality Entertain.
11.676	H	News 1	27500	News + Series
11.676	H	Suwannabhumi Channel	27500	News + Series
11.676	H	TOC	27500	News + Series
11.676	H	Variety	27500	News + Series

C-Band: EXPRESS AM 33

96.5 East

EXP033CB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.675	R	Dubl-3+RRD3	33483	Home Cinema
3.675	R	Orbita-3R+Mayak	33483	Home Cinema
3.675	R	7TV	33483	Quality Entertain.
3.675	R	Kultura-2+Vesti-FM	33483	Home Cinema
3.675	R	TRK5_Sibir	33483	Home Cinema
3.758	R	TK Rossia NGTRK	4340	Quality Entertain.
3.795	R	Alt TV	1478	News + Series
3.808	R	TPK-CEBEP	3215	Quality Entertain.
3.817	R	GTRK Altai	4270	Quality Entertain.
3.838	R	GTRK Perm	3230	Quality Entertain.
3.843	R	GTRK_KURGAN	3220	Quality Entertain.
3.925	R	1TVRUS vostok	4883	Quality Entertain.
4.108	R	BGTRK	4275	Home Cinema
4.114	R	RTPC Irkutsk	4285	Home Cinema
4.143	R	TRV Muzhi	3210	Quality Entertain.
4.175	R	Krasnoyarsk	3294	Quality Entertain.

C-Band: ASIASAT 5

100.5 East

ASI005CB



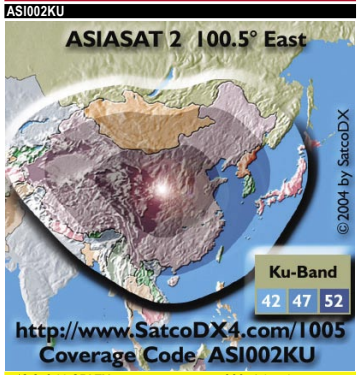
Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.660	V	AL EMARAT	27500	Quality Entertain.
3.660	V	AL-ALAM	27500	Quality Entertain.
3.660	V	ALKASS	27500	Home Cinema
3.660	V	IQRAA	27500	News + Series
3.660	V	IRIB3 ENG	27500	Quality Entertain.
3.660	V	IRIB3 PER	27500	Quality Entertain.
3.660	V	NILE NEWS	27500	News + Series
3.660	V	PRESS TV	27500	Quality Entertain.
3.706	H	UP4	4165	Home Cinema
3.732	H	AP GVW +442074827575	8888	Home Cinema
3.767	V	AsiaPacific	6525	News + Series
3.779	V	AJK-TV.	3333	News + Series
3.786	H	BRUNEI INTERNATIO	6000	Home Cinema
3.792	V	Shamshad TV	2443	Quality Entertain.
3.794	H	FTV HD	4640	High Quality Home
3.806	H	TDM Macau Satellite	3255	Quality Entertain.
3.820	V	Abu Dhabi TV	27500	News + Series
3.820	V	Aljazeera Channel	27500	Quality Entertain.
3.820	V	KUWAIT	27500	News + Series
3.820	V	Libiya TV	27500	News + Series
3.820	V	Oman TV	27500	News + Series
3.820	V	Qatar TV	27500	Quality Entertain.
3.820	V	SAUDI TV	27500	News + Series
3.820	V	Saudi-2	27500	News + Series
3.820	V	Sharjah TV	27500	News + Series
3.820	V	Sudan TV	27500	News + Series
3.820	V	Syria TV	27500	News + Series
3.820	V	Yemen TV	27500	News + Series
3.880	H	E! Asia	27500	Quality Entertain.
3.880	H	The Style Network As	27500	Quality Entertain.
3.906	H	Reuters WNS	4000	Low Level

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
3.960	H	TRACE TV	27500	News + Series
3.960	H	AL Malakoot TV	27500	News + Series
3.960	H	DAYSTAR TV	27500	News + Series
3.960	H	EURONEWS-ASIA	27500	News + Series
3.960	H	GLC	27500	News + Series
3.960	H	RECORD INTERNATIO	27500	Quality Entertain.
3.960	H	Supreme Master TV	27500	Quality Entertain.
3.960	H	VISION2	27500	Quality Entertain.
3.980	V	422 NG Wild	28100	Quality Entertain.
3.980	V	511	28100	Quality Entertain.
3.980	V	702 STAR PLUS	28100	News + Series
3.980	V	704 STAR Movies	28100	Quality Entertain.
3.980	V	707 STAR GOLD	28100	News + Series
3.980	V	736 Adventure	28100	Quality Entertain.
3.980	V	737 Adventure	28100	News + Series
3.980	V	741 History/Adventur	28100	News + Series
3.980	V	751 Star World India	28100	Quality Entertain.
3.980	V	752 Channel [V] Indi	28100	Quality Entertain.
3.980	V	777 STAR One India	28100	News + Series
3.980	V	794 Baby TV	28100	News + Series
3.980	V	Adventure	28100	Quality Entertain.
3.980	V	CHanneL [V]	28100	Quality Entertain.
3.980	V	History/Adventure	28100	News + Series
3.980	V	STAR Gold	28100	News + Series
3.980	V	STAR Movies	28100	Quality Entertain.
3.980	V	STAR One India	28100	News + Series
3.980	V	STAR Plus	28100	News + Series
3.980	V	STAR World	28100	News + Series
3.980	V	735 STAR Utsav	28100	News + Series
4.000	H	LUXE-TV-HD	28120	High Quality Home
4.000	H	Cubavision	28120	Quality Entertain.
4.000	H	France 24	28120	Quality Entertain.
4.000	H	LUXE-TV-SD	28120	Quality Entertain.
4.000	H	RAI International	28120	Quality Entertain.
4.000	H	RTPi	28120	Quality Entertain.
4.000	H	RTR Planeta	28120	Quality Entertain.
4.000	H	TVE	28120	Quality Entertain.
4.149	V	KungFu	11850	News + Series
4.149	V	MACAU1	11850	News + Series
4.149	V	MACAU2	11850	Advertisement
4.149	V	MACAU3	11850	News + Series
4.149	V	MACAU4	11850	News + Series
4.149	V	MASTV	11850	Quality Entertain.
4.162	H	GDTV	4680	Home Cinema

ASIASAT 2

100.6 East

ASI002KU



Freq	Pol	Channel Name	Symbol Rate	Programming Type
12.259	V	CRI TV	7000	Advertisement
12.267	V	XHTV	5400	Home Cinema
12.303	H	CRI TV	6656	Advertisement

EXPRESS A2, KAZSAT 1

103.0 East

EXPA02C2

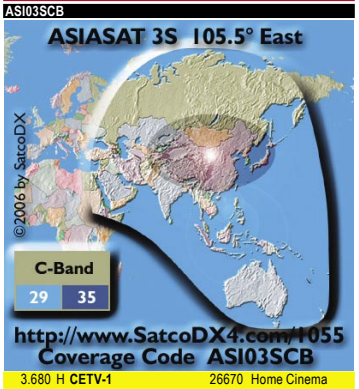


Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.675	R	7TV	33469	
3.675	R	Dubl-3+RRD3	33469	
3.675	R	Orbita-1+Mayak		
3.675	R	Orbita-3R+Mayak	33469	
3.675	R	Kultura-2+Vesti-FM	33469	
3.675	R	TRK5_Kamchatka	33469	
3.675	R	TRK5_MSK	33469	
3.675	R	TRK5_Sibir	33469	
3.758	R	TK Rossia NGTRK	4340	
3.808	R	TPK-CEBEP	3210	
3.840	R	GTRK Perm	3230	
3.843	R	GTRK_KURGAN	3220	
3.924	R	1TVRUS vostok	4882	
4.108	R	BGTRK	4275	
4.114	R	RTPC Irkutsk	4285	

C-Band: ASIASAT 3S

105.5 East

ASI03SCB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.680	H	CETV-1	26670	Home Cinema
3.680	H	Maharish	26670	News + Series
3.706	H	CNAI NTSC	6000	Quality Entertain.
3.706	H	CNAI PAL	6000	Quality Entertain.
3.725	V	BTV WORLD	4450	Home Cinema
3.729	H	Celestial CMC	13650	News + Series
3.729	H	Celestial CMV	13650	News + Series
3.729	H	AZIO ASIA PLUS	13650	News + Series
3.729	H	TVB8	13650	Quality Entertain.
3.733	V	ZEE CAFE-NEW	6500	News + Series
3.733	V	ZEE STUDIO-NEW	6500	News + Series
3.733	V	ZEE TRENDZ-NEW	6500	News + Series
3.740	V	{Empty Name}	2815	Quality Entertain.
3.746	V	FASHION TV	2625	News + Series
3.751	V	AAJ TV	2820	News + Series
3.755	V	Arirang Arab	4418	Quality Entertain.
3.760	H	Eurosport Asia	26000	Quality Entertain.
3.760	H	EurosportNews	26000	Quality Entertain.
3.760	H	Al Jazeera Internati	26000	Quality Entertain.
3.760	H	Bloomberg	26000	Quality Entertain.
3.760	H	DW-TV ASIEN	26000	Quality Entertain.
3.760	H	Muslim TV1	26000	Quality Entertain.
3.760	H	Muslim TV2	26000	Quality Entertain.
3.760	H	NOW	26000	News + Series
3.760	H	Russia Today	26000	Quality Entertain.
3.760	H	Supreme Master TV	26000	Quality Entertain.
3.760	H	TV5	26000	Quality Entertain.
3.780	V	709 STAR Movies	28100	Home Cinema
3.780	V	508	28100	Quality Entertain.
3.780	V	708 Nat. Geo	28100	Quality Entertain.
3.780	V	711 History/Adventur	28100	Quality Entertain.
3.780	V	712 Adventure	28100	News + Series
3.780	V	713 Adventure	28100	Quality Entertain.
3.780	V	722 STAR Chinese M	28100	News + Series
3.780	V	767 Movies ME	28100	Quality Entertain.
3.780	V	773 Movies ME	28100	News + Series
3.780	V	779 World ME	28100	Quality Entertain.
3.780	V	780 World PH	28100	News + Series
3.780	V	793 STAR Chinese M	28100	News + Series
3.780	V	Nat. Geo	28100	News + Series
3.780	V	STAR Movies ME	28100	Home Cinema
3.780	V	STAR World	28100	News + Series
3.780	V	769 STAR Utsav	28100	News + Series
3.780	V	STAR UTSAV	28100	Quality Entertain.
3.786	H	News One	5700	News + Series
3.786	H	Tv One	5700	News + Series
3.786	H	WASEB_TV	5700	News + Series
3.817	H	DVB-Server	2309	News + Series
3.820	V	Zee MALAY-New	27500	Home Cinema
3.820	V	Zee ME-New	27500	Home Cinema
3.820	V	Zee SEA-New	27500	Home Cinema
3.820	V	Test-Nod	27500	Low Level
3.820	V	Zee Action-New	27500	Quality Entertain.
3.820	V	Zee Classic-New	27500	Quality Entertain.
3.820	V	Zee Premier-New	27500	Quality Entertain.
3.840	H	750 [V] Taiwan	26850	Home Cinema
3.840	H	609 Sky News	26850	Quality Entertain.
3.840	H	610 Fox News	26850	Quality Entertain.
3.840	H	756 STAR Chinese C	26850	Home Cinema
3.840	H	757 Star Chinese Mov	26850	Quality Entertain.
3.840	H	758 Star Movies	26850	News + Series
3.840	H	759 Nat Geo T	26850	News + Series
3.840	H	760 [V] TAIWAN	26850	News + Series
3.840	H	761 Sky News	26850	News + Series
3.840	H	762 Fox News	26850	Quality Entertain.
3.840	H	790 STAR Chinese I	26850	Home Cinema
3.860	V	401 ESPN Taiwan	27500	News + Series
3.860	V	402 ESPN Taiwan	27500	Quality Entertain.
3.860	V	405 ESPN Asia	27500	Quality Entertain.
3.860	V	406 ESPN Asia	27500	Quality Entertain.
3.860	V	407 ESPN Asia	27500	Home Cinema
3.860	V	408 ESPN Asia	27500	Home Cinema
3.860	V	409 STAR Sports So	27500	Quality Entertain.
3.860	V	410 STAR Sports So	27500	Quality Entertain.
3.860	V	411 STAR Sports In	27500	Quality Entertain.
3.860	V	412 STAR Sports In	27500	Home Cinema
3.860	V	420 STAR Sports So	27500	Quality Entertain.
3.860	V	423 STAR Cricket	27500	Quality Entertain.
3.860	V	424 STAR Cricket	27500	Quality Entertain.
3.860	V	430 ESPNews	27500	News + Series
3.860	V	441 STAR Sports	27500	Quality Entertain.
3.860	V	442 STAR Sports	27500	Home Cinema
3.860	V	481 STAR Sports	27500	Home Cinema
3.860	V	482 STAR Sports	27500	Quality Entertain.
3.860	V	705 STAR Sports	27500	Quality Entertain.
3.860	V	706 STAR Sports	27500	Quality Entertain.
3.860	V	717 STAR Cricket	27500	News + Series
3.860	V	718 STAR Cricket	27500	News + Series
3.860	V	719 ESPN India	27500	Quality Entertain.
3.860	V	720 ESPN India	27500	Quality Entertain.
3.860	V	723 STAR Sports	27500	Quality Entertain.
3.860	V	742 STAR Sports	27500	News + Series
3.860	V	755 ESPN	27500	Quality Entertain.
3.860	V	763 STAR Sports	27500	Quality Entertain.
3.860	V	772 ESPN India	27500	Quality Entertain.
3.860	V	792 ESPN India	27500	Home Cinema
3.860	V	ESPN Asia	27500	Quality Entertain.
3.860	V	ESPN India	27500	Quality Entertain.
3.860	V	Sport Pakistan	27500	Quality Entertain.
3.860	V	STAR Cricket	27500	Quality Entertain.
3.860	V	STAR Sports	27500	Quality Entertain.
3.860	V	STAR Sports SEA	27500	Home Cinema
3.880	H	9X_A	27500	High Quality Home
3.880	H	9XM_A	27500	High Quality Home
3.880	H	B4U_MOVIES_INDIA	27500	High Quality Home
3.880	H	B4U_MUSIC_INDIA	27500	High Quality Home
3.880	H	CHTV	27500	Home Cinema
3.880	H	NHK English	27500	Quality Entertain.
3.920	H	ESPN Asia	26666	High Quality Home
3.920	H	ESPN CHN	26666	High Quality Home
3.920	H	ESPN MYS	26666	High Quality Home
3.920	H	ESPN Phil	26666	High Quality Home
3.920	H	ESS CON 1	26666	High Quality Home
3.920	H	Service 12	26666	High Quality Home
3.920	H	Service 13	26666	High Quality Home
3.920	H	Star Sports THA	26666	High Quality Home
3.920	H	StarSports CHN	26666	High Quality Home
3.920	H	StarSports MYS	26666	High Quality Home
3.920	H	StarSports SEA	26666	High Quality Home
3.920	H	StarSports TWN	26666	High Quality Home
3.920	H	Service 11	26666	High Quality Home
3.940	V	STAR Plus	28100	Home Cinema
3.940	V	703 STAR PLUS ME	28100	Home Cinema
3.940	V	714 STAR One ME	28100	News + Series
3.940	V	725 STAR Gold Int'	28100	News + Series
3.940	V	729 SKY News	28100	News + Series
3.940	V	730 FOX News	28100	News + Series
3.940	V	764 Star Cont.	28100	News + Series
3.940	V	785 STAR Plus ME	28100	Home Cinema
3.940	V	786 STAR One	28100	News + Series
3.940	V	787 Vijay US	28100	News + Series
3.940	V	788 STAR Chinese M	28100	News + Series
3.940	V	789 STAR News HK	28100	Quality Entertain.
3.940	V	FOX News	28100	News + Series
3.940	V	Sky News	28100	News + Series
3.940	V	STAR Gold Int'l	28100	Quality Entertain.
3.940	V	STAR News	28100	Quality Entertain.
3.960	H	Boomerang	27500	News + Series
3.960	H	Boomerang SE Asia	27500	Quality Entertain.
3.960	H	Cartoon Asia	27500	News + Series
3.960	H	Cartoon Australia	27500	Quality Entertain.
3.960	H	Cartoon Philippines	27500	Quality Entertain.
3.960	H	Cartoon Taiwan	27500	News + Series
3.960	H	CNNI Asia	27500	Quality Entertain.
3.960	H	Newsource DNEW	27500	News + Series
3.960	H	TCM Australia	27500	Quality Entertain.
3.980	V	422 NG Wild	28100	Quality Entertain.
3.980	V	511	28100	Quality Entertain.
3.980	V	702 STAR PLUS	28100	Quality Entertain.
3.980	V	704 STAR Movies	28100	Quality Entertain.
3.980	V	707 STAR GOLD	28100	News + Series
3.980	V	736 Adventure	28100	Low Level
3.980	V	737 Adventure	28100	News + Series
3.980	V	741 History/Adventur	28100	News + Series
3.980	V	751 Star World India	28100	Quality Entertain.
3.980	V	752 Channel [V] Indi	28100	Home Cinema
3.980	V	777 STAR One India	28100	Quality Entertain.
3.980	V	794 Baby TV	28100	News + Series
3.980	V	Adventure	28100	News + Series
3.980	V	CHanneL [V]	28100	Quality Entertain.
3.980	V	History/Adventure	28100	Quality Entertain.
3.980	V	STAR Gold	28100	News + Series
3.980	V	STAR Movies	28100	Quality Entertain.
3.980	V	STAR One India	28100	News + Series
3.980	V	STAR Plus	28100	News + Series
3.980	V	STAR World	28100	Quality Entertain.
3.980	V	735 STAR Utsav	28100	Quality Entertain.
4.000	H	604 Channel [V] Int'	26850	News + Series
4.000	H	715 Ph'x Movies	26850	News + Series
4.000	H	716 STAR Chinese M	26850	Quality Entertain.
4.000	H	721 Movies Int'l	26850	News + Series
4.000	H	739 Movies Int'l	26850	News + Series
4.000	H	748 Star World Asia	26850	Quality Entertain.
4.000	H	749 Star World	26850	Quality Entertain.
4.000	H	765 Nat. Geo	26850	News + Series
4.000	H	766 Channel [V] Int'	26850	News + Series
4.000	H	771 Movies Int'l	26850	Quality Entertain.
4.000	H	775 Movies Int'l	26850	News + Series
4.000	H	776 Nat. Geo	26850	News + Series
4.000	H	778 Xing Kong Region	26850	News + Series
4.000	H	791 STARCon	26850	News + Series
4.000	H	Channel [V] Int'l	26850	News + Series
4.000	H	Nat. Geo	26850	News + Series
4.000	H	STAR Movies Int'l	26850	News + Series
4.000	H	STAR World	26850	Quality Entertain.
4.000	H	Subtitle-Test.	26850	News + Series
4.000	H	726 Ph'x Info	26850	News + Series
4.000	H	743 Phoenix Chinese	26850	Quality Entertain.
4.000	H	745 XING KONG	26850	Quality Entertain.
4.000	H	747 Channel [V] Chin	26850	Quality Entertain.
4.020	V	FIRANGI	27250	News + Series
4.020	V	Sahara FILMI	27250	News + Series
4.020	V	Sahara ONE	27250	Home Cinema
4.020	V	Aalami Sahara	27250	Quality Entertain.
4.020	V	Sahara BIH	27250	News + Series
4.020	V	Sahara MP	27250	News + Series
4.020	V	Sahara MUM	27250	News + Series
4.020	V	Sahara NAT	27250	Quality Entertain.
4.020	V	Sahara NCR	27250	News + Series
4.020	V	Sahara UP	27250	Quality Entertain.
4.040	H	AETN TV 340	26500	News + Series
4.040	H	Farda Radio 404	26500	Quality Entertain.
4.040	H	Farda/VOA/RFE Radi	26500	Quality Entertain.
4.040	H	IBB OS Download 8	26500	Quality Entertain.
4.040	H	IBB OS Download 9	26500	Quality Entertain.
4.040	H	IBB VOA RFE/RL Ra	26500	Quality Entertain.
4.040	H	IBB VOA RFE/RL Ra	26500	Quality Entertain.
4.040	H	IBB VOA RFE/RL Ra	26500	Quality Entertain.
4.040	H	IBB VOA RFE/RL Ra	26500	Quality Entertain.
4.040	H	IBB VOA RFE/RL Ra	26500	Quality Entertain.

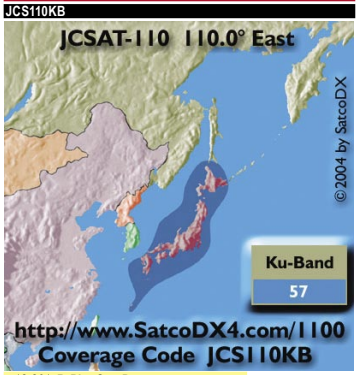
Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
4.040	H	IBB VOA RFE/RL Ra	26500	Quality Entertain.

GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
11.727	R	BS Asahi (Ch 151)		
11.727	R	BS Asahi (Ch 152)		
11.727	R	BS Asahi (Ch 153)		
11.727	R	BS-i		
11.766	R	Wowow		
11.766	R	Wowow 2		
11.766	R	BS Japan		
11.958	R	BS Fuji		
11.958	R	BS Nippon		
11.996	R	BS Asahi		
11.996	R	Star Channel		
11.996	R	NHK BS-1		
11.996	R	NHK BS-2		

N-SAT 110

110.1 East

JCS110KB

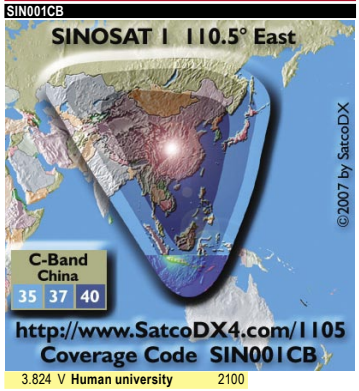


GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
12.291	R	Plat One Promo		
12.331	R	Cartoon Network Japa		
12.331	R	Fighting TV Samurai!		
12.331	R	Fox Channel		
12.331	R	Space Shower TV		
12.331	R	Sky Perfect TV Promo		
12.371	R	AXN Japan		
12.371	R	Channel Neco		
12.371	R	Cinefil Imagica		
12.371	R	Eisei Gekijo		
12.371	R	Nihon Eiga		
12.371	R	Super Channel		
12.371	R	Toei Channel		
12.411	R	EP 56		
12.411	R	EP Promo		
12.451	R	BBTV		
12.451	R	Belmeson TV		
12.451	R	Wowow PPV1		
12.451	R	Wowow PPV2		
12.451	R	Wowow PPV3		
12.451	R	Wowow PPV4		
12.491	R	Asahi NewStar		
12.491	R	BBC World		
12.491	R	CNN International As		
12.491	R	Comin' Soon TV		
12.491	R	FavoriTV		
12.491	R	MTV Japan		
12.491	R	The Golf Channel		
12.531	R	J Sky Sports 1		
12.531	R	J Sky Sports 2		
12.531	R	J Sky Sports 3		
12.531	R	Sky A		
12.531	R	Sports-i ESPN		
12.531	R	Active! Sports Chann		
12.551	L	U-One TV	29915	
12.551	L	SCC Promo	29915	
12.571	R	AT-X		
12.571	R	CSN 1 Movie Channel		
12.571	R	Takarazuka Sky Stage		
12.571	R	The History Channel		
12.571	R	Takarazuka Sky Stage		
12.611	R	Golf Network		
12.611	R	LaLa TV		
12.611	R	Nikkei CNBC		
12.611	R	Shop Channel		
12.651	R	Animal Planet Japan		
12.651	R	Animax		
12.651	R	Discovery Channel Ja		
12.651	R	Fuji TV 721		
12.651	R	Fuji TV 739		
12.691	R	Family Gekijyo		
12.691	R	Kids Station		
12.691	R	TBS Channel		
12.691	R	Viewsic		
12.691	R	C-TBS Welcome Chan		
12.691	R	QVC Japan		
12.730	R	Bloomberg TV Japan		
12.730	R	Data College		
12.730	R	DPSTV		
12.730	R	G + Sport&News		
12.730	R	Music Japan TV		
12.730	R	NNN 24		
12.730	R	Science Channel		

C-Band: SINOSAT 1

110.5 East

SIN001CB



GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
3.824	V	Human university	2100	

C-Band: PALAPA C2

112.9 East

PAL0C2CE

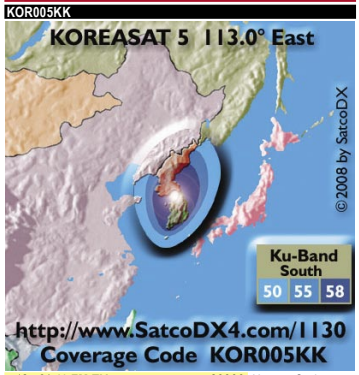


GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
3.752	H	SCTV IDJKT 02	4470	Advertisement
3.752	H	INB0X SERP0NG	4470	Home Cinema
3.756	H	SCTV	6250	Home Cinema
3.774	H	rcti	6520	Home Cinema
3.774	H	rcti2	6520	Home Cinema
4.000	H	rcti	6620	Home Cinema
4.000	H	rcti2	6620	Home Cinema
4.053	V	ANTEVE	6510	Home Cinema
4.054	H	ASIALINK	5632	Home Cinema
4.056	V	ANTEVE	6510	Home Cinema
4.080	H	CH10	28125	High Quality Home
4.080	H	CH11	28125	High Quality Home
4.080	H	CH3	28125	News + Series
4.080	H	CH6	28125	Quality Entertain.
4.080	H	CH7	28125	News + Series
4.080	H	Global TV	28125	Home Cinema
4.080	H	MetroTV	28125	Home Cinema
4.080	H	NHK	28125	News + Series
4.080	H	Spacetoon	28125	Quality Entertain.
4.107	V	ANTEVE	3000	Home Cinema
4.185	V	TPI TV Makin Asyik	6700	Home Cinema

KOREASAT 5

113.1 East

KOR005KK

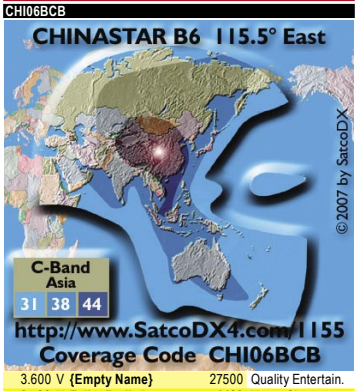


GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
12.531	H	FM-TV	26000	News + Series
12.622	V	BeTV	13328	Quality Entertain.
12.622	V	CH 02	13328	News + Series
12.622	V	CH 05	13328	News + Series
12.622	V	CH 06	13328	News + Series
12.622	V	test 01(CH 01)	13328	Advertisement
12.622	V	test 02(CH 03)	13328	Advertisement
12.731	H	FSTV	28187	Quality Entertain.
12.731	H	SANG S TV	28187	Quality Entertain.
12.731	H	SkyCast 06	28187	Quality Entertain.
12.731	H	SkyCast 09	28187	Quality Entertain.
12.731	H	SkyCast 11	28187	Quality Entertain.
12.731	H	SkyCast 12	28187	Quality Entertain.
12.731	H	SkyCast 2	28187	Quality Entertain.
12.731	H	SkyCast 4	28187	Quality Entertain.
12.731	H	SkyCast 07	28187	Quality Entertain.
12.731	H	SkyCast 08	28187	Quality Entertain.
12.731	H	SkyCast 1	28187	Quality Entertain.
12.731	H	SkyCast 10	28187	Quality Entertain.

C-Band: CHINASAT 6B

115.5 East

CHI06BCB

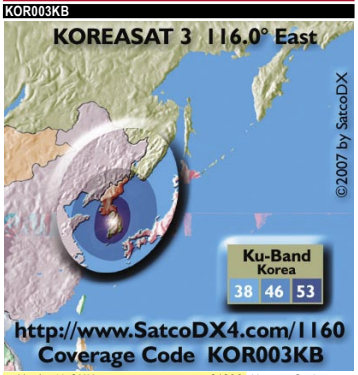


GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
3.600	V	{Empty Name}	27500	Quality Entertain.
3.706	H	FujianRadio1	4420	Home Cinema
3.706	H	FujianTV1	4420	Home Cinema
3.730	H	PhoC	10720	Quality Entertain.
3.730	H	Phol	10720	Quality Entertain.
3.730	H	PhoM	10720	Quality Entertain.
3.740	V	HD	27500	Home Cinema
3.740	V	CHC	27500	Quality Entertain.
3.740	V	CMC	27500	Quality Entertain.
3.740	V	MOTION	27500	Home Cinema
3.750	H	hnstv	10490	Home Cinema
3.750	H	jykaton	10490	Home Cinema
3.769	H	DONG FANG	13400	Home Cinema
3.780	V	DONGMAN	27500	News + Series
3.780	V	DOXTV	27500	Quality Entertain.
3.780	V	English	27500	Quality Entertain.
3.780	V	Food	27500	Quality Entertain.
3.780	V	FOOTBALL1	27500	Quality Entertain.
3.780	V	Pingyu	27500	Quality Entertain.
3.780	V	Qipai	27500	Quality Entertain.
3.786	H	sichuan	5440	Quality Entertain.
3.796	H	GZTV	6930	Quality Entertain.
3.807	V	CQTV	6000	Home Cinema
3.808	H	OTV6	8800	Quality Entertain.
3.808	H	SBN	8800	Home Cinema
3.825	V	ZJTV	6780	Quality Entertain.
3.834	V	ShanDongTV	5400	Quality Entertain.
3.840	H	CCTV-1	27500	Quality Entertain.
3.840	H	CCTV-10	27500	News + Series
3.840	H	CCTV-11	27500	Quality Entertain.
3.840	H	CCTV-12	27500	News + Series
3.840	H	CCTV-2	27500	Quality Entertain.
3.840	H	CCTV-7	27500	News + Series
3.840	H	CCTV-MUSIC	27500	Home Cinema
3.846	V	SHANXI TV	5950	Quality Entertain.
3.854	V	Henan TV	4420	Quality Entertain.
3.854	V	HN Radio1	4420	Quality Entertain.
3.854	V	HN Radio2	4420	Quality Entertain.
3.854	V	HN Radio4	4420	Quality Entertain.
3.854	V	HN Radio5	4420	Quality Entertain.
3.861	V	Ningxia TV	4800	Quality Entertain.
3.871	V	NLTV	9080	Quality Entertain.
3.871	V	SXTVS	9080	Home Cinema
3.880	H	CCTV-3	27500	News + Series
3.880	H	CCTV-5	27500	Home Cinema
3.880	H	CCTV-6	27500	Quality Entertain.
3.880	H	CCTV-8	27500	Home Cinema
3.880	H	CCTV-少儿	27500	Home Cinema
3.880	H	CCTV-新闻	27500	News + Series
3.885	V	SDETV	4340	Quality Entertain.
3.892	V	JXTV1	4420	Quality Entertain.
3.892	V	JXTV2	4420	Quality Entertain.
3.892	V	JXTV3	4420	Quality Entertain.
3.892	V	JXTV4	4420	Quality Entertain.
3.900	V	JSTV	6670	Home Cinema
3.910	V	GSTV	6400	Quality Entertain.
3.920	H	说文解字	27500	Quality Entertain.
3.920	H	文物宝库	27500	Quality Entertain.
3.920	H	新科动漫	27500	News + Series
3.920	H	幼儿教育	27500	Quality Entertain.
3.920	H	中学生	27500	Quality Entertain.
3.929	V	Ahtv Service	8835	Home Cinema
3.940	V	Tianjin TV	5950	Home Cinema
3.950	H	Guangdong 1	11400	Home Cinema
3.950	H	GXTV	11400	Quality Entertain.
3.950	H	SZTV	11400	Quality Entertain.
3.952	V	BTV	9523	Home Cinema
3.952	V	BTV KAKU	9523	Quality Entertain.
3.961	H	DVT	3570	Quality Entertain.
3.980	V	城市建设	27500	Quality Entertain.
3.980	V	发现之旅	27500	Quality Entertain.
3.980	V	环球奇观	27500	News + Series
3.980	V	老故事	27500	Quality Entertain.
3.980	V	女性时尚	27500	News + Series
3.980	V	书画	27500	Quality Entertain.
3.980	V	现代女性	27500	Quality Entertain.
3.980	V	育婴宝典	27500	Quality Entertain.
3.980	V	中视购物	27500	News + Series
3.980	V	中小学同步辅导	27500	News + Series
4.000	H	CETV1	27500	Home Cinema
4.020	V	百姓健康	27500	News + Series
4.020	V	彩民在线	27500	Quality Entertain.
4.020	V	高尔夫	27500	Quality Entertain.
4.020	V	快乐购物	27500	Quality Entertain.
4.020	V	老年福	27500	Quality Entertain.
4.020	V	摄影频道	27500	Quality Entertain.
4.020	V	武术世界	27500	Quality Entertain.
4.020	V	英语辅导	27500	Quality Entertain.
4.020	V	早期教育	27500	Quality Entertain.
4.040	H	东方财经	27500	Quality Entertain.
4.040	H	东方健康	27500	Quality Entertain.
4.040	H	东方卫视海外版	27500	Quality Entertain.
4.040	H	动漫秀场	27500	Quality Entertain.
4.040	H	劲爆体育	27500	Quality Entertain.
4.040	H	全纪实	27500	Quality Entertain.
4.040	H	幸福彩	27500	Quality Entertain.
4.040	H	游戏风云	27500	Quality Entertain.
4.060	V	第一剧场	27500	News + Series
4.060	V	风云剧场	27500	News + Series
4.060	V	风云音乐	27500	Home Cinema
4.060	V	风云足球	27500	Home Cinema
4.060	V	高尔夫网球	27500	Quality Entertain.
4.060	V	国防军事	27500	News + Series
4.060	V	怀旧剧场	27500	News + Series
4.060	V	世界地理	27500	Quality Entertain.
4.060	V	央视精品	27500	News + Series
4.060	V	电视指南	27500	Home Cinema
4.080	H	都市剧场	27500	Quality Entertain.
4.080	H	法治天地	27500	Quality Entertain.
4.080	H	欢笑剧场	27500	Quality Entertain.
4.080	H	极速汽车	27500	Quality Entertain.
4.080	H	金色频道	27500	Quality Entertain.
4.080	H	七彩戏剧	27500	Quality Entertain.
4.080	H	生活时尚	27500	Quality Entertain.
4.080	H	魅力音乐	27500	Quality Entertain.
4.100	V	CCTV1-HD	27500	Home Cinema
4.100	V	CCTV-HD	27500	Home Cinema
4.115	H	CCTV 4A	21370	News + Series
4.115	H	CCTV 9	21370	News + Series
4.115	H	CCTV A	21370	News + Series
4.115	H	CCTV E	21370	News + Series
4.115	H	CCTV F	21370	News + Series
4.115	H	CCTV R	21370	News + Series
4.140	V	DV生活	27500	Quality Entertain.
4.140	V	梨园	27500	News + Series
4.140	V	留学世界	27500	Quality Entertain.
4.140	V	汽摩	27500	Quality Entertain.
4.140	V	青年学苑	27500	Quality Entertain.
4.140	V	天元围棋	27500	News + Series
4.140	V	先锋纪录	27500	Quality Entertain.
4.140	V	游戏竞技	27500	News + Series
4.140	V	孕育指南	27500	Quality Entertain.
4.140	V	靓妆	27500	Quality Entertain.
4.147	H	HubeiTV	6150	Quality Entertain.
4.158	H	CHINIC 10K101	8680	Quality Entertain.
4.158	H	DVT	8680	Quality Entertain.
4.171	H	NMTV-H	9200	Quality Entertain.
4.171	H	NMTV-M	9200	Quality Entertain.
4.192	V	Hebei_TV	6000	Quality Entertain.

KOREASAT 3

116.0 East

KOR003KB



GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
11.747	H	CNN	21296	News + Series
11.785	R	[illegible]	21296	News + Series
11.785	R	[illegible]	21296	Low Level
11.785	R	[illegible]	21296	News + Series
11.785	R	[illegible]	21296	Low Level
11.785	R	[illegible]	21296	News + Series
11.785	R	[illegible]	21296	News + Series
11.785	R	[illegible]	21296	Low Level
11.785	R	[illegible]	21296	News + Series
11.785	R	[illegible]	21296	News + Series
11.785	R	[illegible]	21296	News + Series
11.785	R	[illegible]	21296	News + Series
11.785	R	[illegible]	21296	
11.785	R	[illegible]	21296	News + Series

THAICOM 1A

120.0 East

THA01ACR



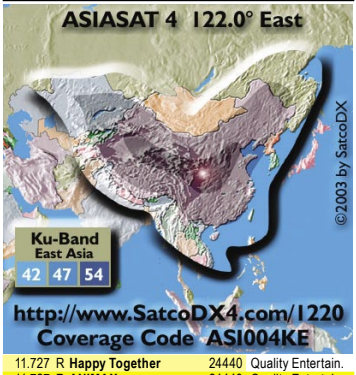
GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
3.758	V	Laos TV	3033	
3.855	V	CTN 1	5926	News + Series
3.855	V	CTN 2	5926	Quality Entertain.
3.886	V	Thai Society Channel	3000	
3.916	V	BAYON/TKM, 2 Audio	3359	News + Series
12.602	H	Test card	29000	

ASIASAT 4
122.0 East
ASI004KA



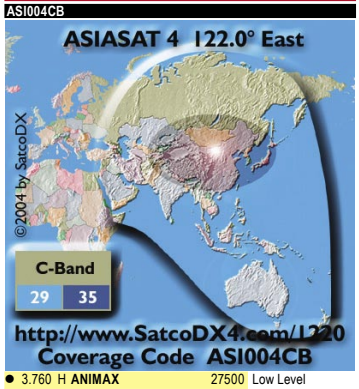
Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
12.361	V	NDTV Imagine	9404	High Quality Home
12.361	V	ATN RTV	9404	Low Level
12.361	V	Channel I	9404	Low Level
12.361	V	Channel One	9404	Low Level
12.361	V	MAA	9404	Low Level
12.361	V	S21 Network	9404	Low Level
12.361	V	Star Plus	9404	Low Level
12.361	V	Zee SEA	9404	Low Level
12.361	V	B4U	9404	Low Level
12.429	V	NTV Mir	20000	News + Series
12.429	V	NTV7	20000	News + Series
12.429	V	ORT CHANNEL	20000	Low Level
12.429	V	Pacific TV1	20000	Low Level
12.429	V	Pacific TV2	20000	Low Level
12.429	V	Pacific TV3	20000	Low Level
12.429	V	RTR PLANETA	20000	Low Level
12.429	V	RTVi	20000	Low Level
12.429	V	DAAI	20000	News + Series
12.429	V	HZ	20000	News + Series
12.429	V	Pacific TV4	20000	Low Level
12.453	V	ABC FM	7731	News + Series
12.453	V	ABC RR	7731	News + Series
12.453	V	ABC W TV , RR, RN	7731	News + Series
12.453	V	ABC-W + RR	7731	News + Series
12.453	V	GWN TV (WA)	7731	News + Series
12.453	V	JJJ	7731	News + Series
12.453	V	SBS TV (WA)	7731	News + Series
12.453	V	WINWEST	7731	News + Series
12.480	V	Astralinks SNG	6620	Home Cinema

ASI004KE



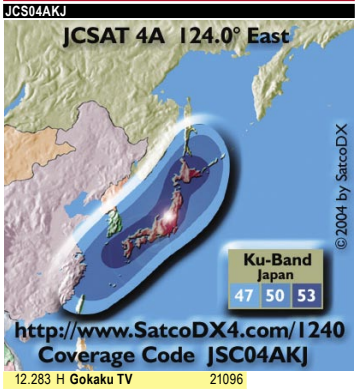
Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.727	R	Happy Together	24440	Quality Entertain.
11.727	R	ANIMAX	24440	Quality Entertain.
11.727	R	AXN	24440	Quality Entertain.
11.727	R	BBC	24440	Quality Entertain.
11.727	R	Bloomberg	24437	Quality Entertain.
11.727	R	CCTV-4	24440	News + Series
11.727	R	CCTV-9	24440	News + Series
11.727	R	ETTV Asia	24437	News + Series
11.727	R	Phoenix Info	24440	Quality Entertain.
11.804	R	National Geographic	24440	Quality Entertain.
11.804	R	Asia Plus	24440	News + Series
11.804	R	Hallmark	24440	Quality Entertain.
11.804	R	Phoenix Chinese	24440	Quality Entertain.
11.804	R	Shanghai Dragon TV	24440	Quality Entertain.
11.804	R	Southern TV	24440	Quality Entertain.
11.804	R	TVB-8	24440	Quality Entertain.
11.804	R	TVB-Xinghe	24440	Quality Entertain.
11.804	R	TVBS-News	24440	Quality Entertain.
11.804	R	Xing Kong	24440	Quality Entertain.
11.881	R	DaAi SD Program	24440	Quality Entertain.
11.881	R	Dish H	24440	Quality Entertain.
11.881	H	{Empty}	24437	News + Series
11.958	R	Channel News Asia	24440	Quality Entertain.
11.958	R	ETTV Movie	24440	Quality Entertain.
11.958	R	Fashion TV	24440	News + Series
11.958	R	Football Channel	24440	Quality Entertain.
11.958	R	NHK Premium	24440	Quality Entertain.
11.958	R	Skywave Info	24440	News + Series
11.958	R	Sport Channel	24440	Quality Entertain.
11.958	R	Goal 2	24440	Advertisement
11.958	R	Test	24440	Advertisement

C-Band: ASIASAT 4
122.1 East
ASI004CB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.760	H	ANIMAX	27500	Low Level
3.760	H	CNBC TV18	27500	News + Series
3.760	H	DD PUNJABI	27500	Low Level
3.760	H	DD SAHYADRI	27500	News + Series
3.760	H	NDTV INDIA	27500	News + Series
3.760	H	NDTV PROFIT	27500	News + Series
3.760	H	ZEE 24 TAAS	27500	News + Series
3.760	H	ZEE CINEMA	27500	News + Series
3.760	H	ZEE TALKIES	27500	News + Series
3.760	H	ZEE TELUGU	27500	News + Series
3.760	H	CHUTTI TV	27500	Low Level
3.760	H	MH-1 SHRADDHA	27500	News + Series
3.760	H	RUSSIA TODAY	27500	Quality Entertain.
3.760	H	SAHARA MUMBAI	27500	News + Series
3.760	H	SURYA TV	27500	News + Series
3.820	V	24 GHANTA	27500	Low Level
3.820	V	9X ENT	27500	News + Series
3.820	V	DISCOVERY	27500	Low Level
3.820	V	NDTV IMAGINE	27500	Low Level
3.820	V	PLAY TV	27500	Low Level
3.820	V	POGO	27500	Quality Entertain.
3.820	V	STAR ONE	27500	News + Series
3.820	V	ZEE BUSINESS	27500	News + Series
3.820	V	ZEE NEWS	27500	News + Series
3.820	V	JEEVAN TV	27500	News + Series
3.820	V	MAHUAA	27500	Low Level
3.820	V	NEPAL-1	27500	News + Series
3.820	V	SAHARA SAMAY	27500	News + Series
3.820	V	SAHARA UP	27500	News + Series
3.820	V	SATSANG	27500	News + Series
3.820	V	TV-5 MONDE	27500	News + Series
3.880	H	AASTHA BHAJAN	27500	News + Series
3.880	H	ANIMAL PLANET	27500	Low Level
3.880	H	AXN	27500	Quality Entertain.
3.880	H	CNN	27500	Quality Entertain.
3.880	H	CNN IBN	27500	News + Series
3.880	H	ETV GUJRATI	27500	Low Level
3.880	H	ETV ORIYA	27500	News + Series
3.880	H	ZEE BANGLA	27500	News + Series
3.880	H	ZEE CAFE	27500	News + Series
3.880	H	ZEE TRENDZ	27500	News + Series
3.880	H	AAKASH BANGLA	27500	News + Series
3.880	H	DIVYA	27500	News + Series
3.880	H	IBN LOKMAT	27500	News + Series
3.880	H	MANORAMA COCHIN	27500	News + Series
3.880	H	SPACETOON KIDS TV	27500	News + Series
3.880	H	TIME TV	27500	Low Level
3.920	H	9X NEWS	27500	News + Series
3.920	H	ETV BANGLA	27500	News + Series
3.920	H	ETV TELUGU	27500	News + Series
3.920	H	HBO	27500	News + Series
3.920	H	NDTV SHOWBIZ	27500	Quality Entertain.
3.920	H	ZEE ACTION	27500	Low Level
3.920	H	ZEE CLASSIC	27500	News + Series
3.920	H	ZEE MARATHI	27500	Quality Entertain.
3.920	H	ZEE PREMIER	27500	Low Level
3.920	H	ZEE PUNJABI	27500	News + Series
3.920	H	ZEE STUDIO	27500	Low Level
3.920	H	NETV	27500	News + Series
3.920	H	TV-9 KANNADA	27500	News + Series
3.920	H	UDAYA-2	27500	News + Series
3.920	H	ZING	27500	News + Series
3.960	H	CARTOON NETWORK	27500	Low Level
3.960	H	ETV BIHAR	27500	News + Series
3.960	H	JAYA TV	27500	News + Series
3.960	H	NDTV GOOD TIMES	27500	News + Series
3.960	H	PIX	27500	News + Series
3.960	H	ZEE KANNADA	27500	News + Series
3.960	H	ZEE SPORTS	27500	Quality Entertain.
3.960	H	CHANNEL NEWS ASIA	27500	Low Level
3.960	H	DD NATIONAL	27500	Quality Entertain.
3.960	H	ETC PUNJABI	27500	News + Series
3.960	H	JAYA MAX	27500	News + Series
3.960	H	PTC PUNJABI	27500	News + Series
3.960	H	TARA MUSIX	27500	Low Level
3.960	H	TV 5 ASIA	27500	Quality Entertain.
3.960	H	TV-9 TELUGU	27500	News + Series
4.180	V	ASIANET PLUS	27500	Low Level
4.180	V	CNEB	27500	Quality Entertain.
4.180	V	ETC	27500	News + Series
4.180	V	ETV URDU	27500	News + Series
4.180	V	FTV	27500	News + Series
4.180	V	INDIA TV	27500	News + Series
4.180	V	JAYA PLUS	27500	News + Series
4.180	V	KIRAN TV	27500	News + Series
4.180	V	LIVE INDIA	27500	News + Series
4.180	V	MH-1 NEWS	27500	News + Series
4.180	V	SADHNA	27500	News + Series
4.180	V	SANSKAR	27500	News + Series
4.180	V	SITI CARE	27500	News + Series
4.180	V	SS MUSIC	27500	Quality Entertain.
4.180	V	ZEE JAGARAN	27500	Low Level

JCSAT 4A
124.0 East
JCS04AKJ



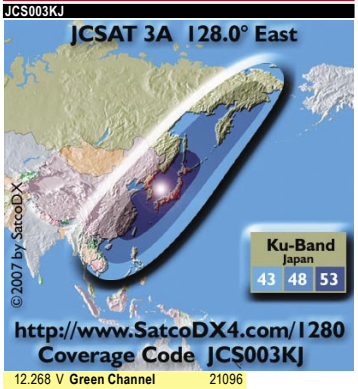
Freq	Pol	Channel Name	Symbol Rate	Programming Type
12.283	H	Gokaku TV	21096	
12.283	H	Medical Sat	21096	
12.283	H	Success TV	21096	
12.283	H	SVML	21096	
12.403	H	Star Stream Channel	21096	
12.523	H	Sky PerfecTV	21096	
12.538	V	Fuji TV	21096	
12.538	V	Toei Channel	21096	
12.538	V	Viewsic	21096	
12.538	V	Channel BB	21096	
12.553	H	Health & Welfare Cha	21096	
12.553	H	Manzox Channel	21096	
12.553	H	Pachinko Pachislot C	21096	
12.553	H	Queen Bee	21096	
12.553	H	Zap TV	21096	
12.568	V	Perfect Choice	21096	
12.568	V	Perfect Choice Premi	21096	
12.568	V	Perfect Choice	21096	
12.643	H	Sky PerfecTV	21096	
12.658	V	Sky Perfect Info Cha	21096	
12.673	H	Sky PerfecTV	21096	
12.688	V	Cinema R	21096	
12.688	V	Paradise TV	21096	
12.688	V	Pink Cherry Bomb	21096	
12.688	V	Sakura Channel	21096	
12.688	V	Yellow Cherry Bomb	21096	
12.703	H	Sky PerfecTV	21096	
12.718	V	Classica Japan	21096	
12.718	V	Coming Soon TV	21096	
12.718	V	The Mistery Channel	21096	
12.718	V	Japanet Studio 242	21096	
12.718	V	Reform Senmon Channe	21096	
12.718	V	ViTV	21096	
12.733	H	Sky PerfecTV	21096	

C-Band: SINOSAT 3
125.0 East
SIN003CB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.827	H	Guangxi TV	5720	
3.845	H	Guangdong	17780	
3.893	H	HLJ	6880	
3.909	H	Jillin	8934	
3.922	H	Yunnan	7250	
3.933	H	Travel TV	6590	
3.989	H	Xizang	5660	
4.006	H	Liaoning	4420	
4.080	H	CCTV	27500	
4.120	H	XinJiang	27500	
4.160	H	CCTV	27500	

JCSAT 3A
128.0 East
JCS003KJ



Freq	Pol	Channel Name	Symbol Rate	Programming Type
12.268	V	Green Channel	21096	
12.268	V	Kit Manzox Club	21096	
12.268	V	The University of th	21096	
12.268	V	TVE International	21096	
12.268	V	Yozemi TV Net	21096	
12.348	V	J Sky Sport 1	21096	
12.348	V	J Sky Sport 2	21096	
12.348	V	J Sky Sport 3	21096	
12.348	V	Perfect Choice	21096	
12.368	H	Blue Cherry Bomb	21096	
12.368	H	Enjoy TV	21096	
12.368	H	Flamingo	21096	
12.368	H	Gaora	21096	
12.368	H	Milk 906	21096	
12.368	H	Music Japan TV	21096	
12.408	H	Channel Ruby	21096	
12.408	H	Family Gekijyo	21096	
12.408	H	Perfect Choice	21096	
12.408	H	Playboy Channel	21096	
12.408	H	Star Channel	21096	
12.408	H	Supper Channel	21096	
12.428	V	Perfect Choice	21096	
12.523	H	Access!	21096	
12.523	H	Global Learning Chan	21096	
12.523	H	Sky A	21096	
12.523	H	Splash	21096	
12.523	H	Travelers Channel	21096	
12.523	H	Victory Channel	21096	
12.538	V	Japan Leisure Channe	21096	
12.538	V	JNN News Bird	21096	
12.538	V	Nickelodeon Japan	21096	
12.538	V	Pioneer Karaoke Chan	21096	
12.538	V	Tabi Channel	21096	
12.538	V	Mondo 21	21096	
12.553	H	Bloomberg TV Japan	21096	
12.553	H	E-Tenki Net	21096	
12.553	H	MTV Japan	21096	
12.553	H	Space Shower TV	21096	
12.553	H	Speed Channel 1	21096	
12.553	H	Speed Channel 2	21096	
12.568	V	Asahi NewStar	21096	
12.568	V	Cartoon Network Japa	21096	
12.568	V	DK Star Karaoke	21096	
12.568	V	Eco Music TV	21096	
12.568	V	Igo Shogi Channel	21096	
12.568	V	Rainbow Channel	21096	
12.583	H	Discovery Channel Ja	21096	
12.583	H	Golf Network	21096	
12.583	H	Lala TV	21096	
12.583	H	Movie Plus	21096	
12.583	H	Shop Channel	21096	
12.598	V	Fighting TV Samurai!	21096	
12.598	V	Keiko to Manabu Chan	21096	
12.598	V	She TV	21096	
12.598	V	The Music 272	21096	
12.613	H	CNN International	21096	
12.613	H	Japan Leisure Ch2	21096	
12.613	H	The Golf Channel	21096	
12.613	H	The History Channel	21096	
12.613	H	V Paradise	21096	
12.613	H	QVC Japan	21096	
12.643	H	BBC World	21096	
12.643	H	G+ Sport & News	21096	
12.643	H	Kids Station	21096	
12.643	H	Speed Channel 5	21096	
12.643	H	Sports-i ESPN	21096	
12.643	H	Better Life Channel	21096	
12.643	H	Rakuten Shopping	21096	
12.643	H	Rakuten Shopping Cha	21096	
12.658	V	Power Plat	21096	
12.658	V	Power Plats PPV	21096	
12.658	V	Club Sukapa! TV	21096	
12.673	H	Dento Bunka Housou	21096	
12.673	H	Eisei Gekijo	21096	
12.673	H	Home Drama Channel	21096	
12.673	H	Power Movie Plus 1	21096	
12.673	H	Power Movie Plus 2	21096	
12.673	H	Power Movie Plus 4	21096	
12.673	H	Power Plat	21096	
12.688	V	Channel Neco	21096	
12.688	V	Cinefil Imagica	21096	
12.688	V	Foodies TV	21096	
12.688	V	Music Air Networks	21096	
12.688	V	Nikkei CNBC	21096	
12.688	V	Speed Ch 4	21096	
12.688	V	Theater TV	21096	
12.688	V	V Theater 135	21096	
12.703	H	IPC Brasil	21096	
12.703	H	IPC Latin America	21096	
12.703	H	Korea Now TV	21096	
12.703	H	Midnight Blue	21096	
12.703	H	Speed Channel 3	21096	
12.703	H	Mall of TV	21096	

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

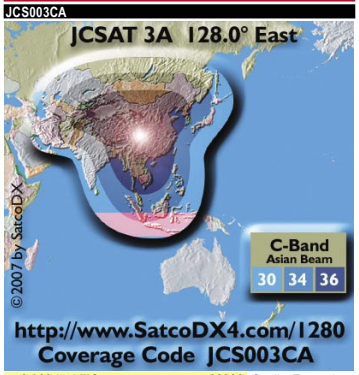
Cost Conscious Entertainment ..... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
12.718	V	Japan Leisure Channe	21096	
12.718	V	Perfect Choice	21096	
12.718	V	Power Plats PPV	21096	
12.718	V	Star Channel 2	21096	
12.718	V	Star Channel 3	21096	
12.718	V	Toshin School D1	21096	

C-Band: JCSAT 3A

128.1 East

JCS003CA

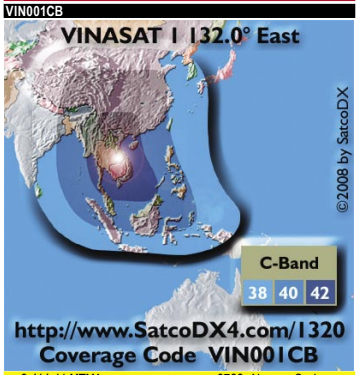


	Freq	Pol	Channel Name	Symbol Rate	Programming Type
	3.960	V	AZIO	30000	Quality Entertain.
	3.960	V	CTI-I	30000	Quality Entertain.
	3.960	V	ERA News	30000	Quality Entertain.
●	3.960	V	ERA-E	30000	Quality Entertain.
	3.960	V	MUCH TV	30000	Quality Entertain.
	3.960	V	PILI	30000	Quality Entertain.
	3.960	V	Z	30000	Quality Entertain.
	3.960	V	BLTV-I	30000	Quality Entertain.
●	3.960	V	Good2	30000	Quality Entertain.
●	3.960	V	STC	30000	News + Series
●	3.960	V	Z2/AD-HOC	30000	News + Series
●	4.000	V	CTI-36	30000	Quality Entertain.
●	4.000	V	CTI-39	30000	Quality Entertain.
●	4.000	V	CTI-52	30000	Quality Entertain.
	4.000	V	ERA-E	30000	News + Series
●	4.000	V	ETTV Drama	30000	Quality Entertain.
	4.000	V	JET_I	30000	News + Series
●	4.000	V	LS Time	30000	News + Series
	4.000	V	MTV	30000	Quality Entertain.
	4.000	V	STV	30000	Quality Entertain.
	4.000	V	UBN	30000	News + Series
	4.000	V	UBNNews	30000	Quality Entertain.
	4.000	V	DAAI	30000	Quality Entertain.
	4.000	V	MAC_TV	30000	News + Series
	4.057	V	{Empty Name}	3332	News + Series
	4.120	V	EBC Financial News	30000	Quality Entertain.
●	4.120	V	ET E MOVIE	30000	Quality Entertain.
●	4.120	V	ETTV MOVIE	30000	News + Series
●	4.120	V	ETTV News	30000	Quality Entertain.
●	4.120	V	ETTV Variety	30000	News + Series
	4.120	V	SET-29	30000	Quality Entertain.
	4.120	V	SET-30	30000	News + Series
	4.120	V	SET-54	30000	Quality Entertain.
	4.120	V	SET-I	30000	News + Series
●	4.120	V	Yo Yo TV	30000	News + Series
	4.120	V	FTV	30000	Quality Entertain.
	4.120	V	FTVN	30000	Quality Entertain.

C-Band:VINASAT

132.0 East

VIN001CB

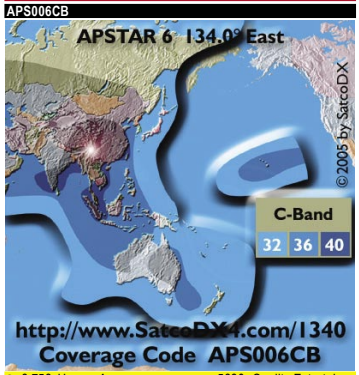


	3.414	V	VTV1	9768	News + Series
	3.414	V	VTV2	9768	News + Series
	3.414	V	VTV3	9768	News + Series
	3.414	V	VTV4	9768	News + Series
	3.414	V	VTV6	9768	News + Series
●	3.558	V	VOVTV	3000	Quality Entertain.

C-Band: APSTAR 6

134.0 East

APS006CB



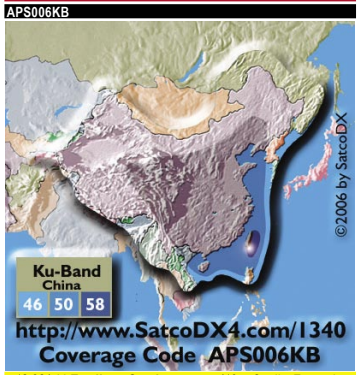
●	3.756	H	cspn1	5630	Quality Entertain.
	3.766	H	first_service	4285	Home Cinema
●	3.773	H	{Empty Name}	5630	Home Cinema
	3.840	H	Media Bridge	27500	Home Cinema
	3.840	H	Test	27500	Quality Entertain.
●	3.840	H	APT	27500	Quality Entertain.
●	3.840	H	CECTV	27500	Home Cinema
●	3.906	H	TVN-1	6090	Home Cinema

Asia

APSTAR 6

134.1 East

APS006KB

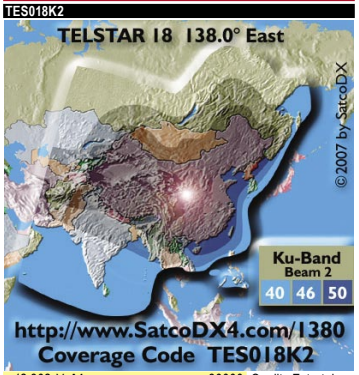


	12.324	V	Tandberg Service	4195	Quality Entertain.
	12.395	V	CETV-1	27500	Quality Entertain.
	12.395	V	CETV-2	27500	Quality Entertain.
	12.395	V	CETV-Sky	27500	Quality Entertain.
	12.435	V	AXN	27500	News + Series
	12.435	V	CIN	27500	Quality Entertain.
	12.435	V	CNBC	27500	News + Series
	12.435	V	CNN	27500	Quality Entertain.
	12.435	V	DIS	27500	Quality Entertain.
	12.435	V	ESPN	27500	Home Cinema
	12.435	V	HALL	27500	Quality Entertain.
	12.435	V	HBO	27500	News + Series
	12.435	V	NGC	27500	News + Series
	12.435	V	STAR1	27500	News + Series
	12.435	V	TEST-1	27500	Advertisement
	12.515	V	BBC	27500	Quality Entertain.
	12.515	V	CELES	27500	News + Series
	12.515	V	CETV	27500	News + Series
	12.515	V	CNAI	27500	Quality Entertain.
	12.515	V	HOR	27500	Home Cinema
	12.515	V	NHK	27500	Low Level
	12.515	V	NOW	27500	Quality Entertain.
	12.515	V	PHOE1	27500	Quality Entertain.
	12.515	V	TEST-2	27500	Advertisement
	12.515	V	TVB	27500	Quality Entertain.
	12.515	V	TVB8	27500	Quality Entertain.
	12.595	V	[V]	27500	News + Series
	12.595	V	BLOOM	27500	News + Series
	12.595	V	EUROS	27500	Quality Entertain.
	12.595	V	MAS	27500	Quality Entertain.
	12.595	V	MTV	27500	News + Series
	12.595	V	PHOEC	27500	News + Series
	12.595	V	PHOEN	27500	News + Series
	12.595	V	STARS	27500	News + Series
	12.595	V	TEST-3	27500	News + Series
	12.595	V	TV5	27500	News + Series
	12.595	V	XINGK	27500	News + Series
	12.675	V	CUBA	27500	Home Cinema
	12.675	V	EAST	27500	Advertisement
	12.675	V	KBS	27500	News + Series
	12.675	V	LIVE1	27500	News + Series
	12.675	V	SUN	27500	News + Series
	12.675	V	TEST-5	27500	Quality Entertain.
	12.675	V	TEST-6	27500	News + Series
	12.675	V	TEST-7	27500	News + Series
	12.675	V	TEST-8	27500	Low Level
	12.675	V	TEST-9	27500	Low Level

TELSTAR 18

138.0 East

TES018K2

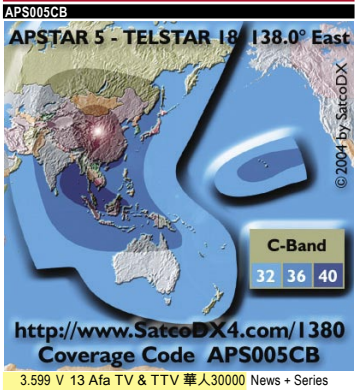


	12.302	V	A1	30000	Quality Entertain.
	12.302	V	A10	30000	Quality Entertain.
	12.302	V	A11	30000	News + Series
	12.302	V	A12	30000	News + Series
	12.302	V	A13	30000	News + Series
	12.302	V	A14	30000	News + Series
	12.302	V	A2	30000	Quality Entertain.
	12.302	V	A3	30000	Quality Entertain.
	12.302	V	A4	30000	Quality Entertain.
	12.302	V	A5	30000	News + Series
	12.302	V	A6	30000	Quality Entertain.
	12.302	V	A7	30000	News + Series
	12.302	V	A8	30000	News + Series
	12.302	V	A9	30000	Quality Entertain.
●	12.354	V	01-CCTV-1	43000	News + Series
●	12.354	V	02-PHOENIX INFO	43000	Low Level
●	12.354	V	03-PHOENIX CHANNE	43000	Low Level
●	12.354	V	04-FASHION TV	43000	Low Level
●	12.354	V	05-Channel	43000	Low Level
●	12.354	V	06-MASTV	43000	Low Level
●	12.354	V	07-ATV	43000	News + Series
●	12.354	V	08-ATV	43000	News + Series
●	12.354	V	09-TVB8	43000	Quality Entertain.
●	12.354	V	10-TVB XINGHE	43000	Low Level
●	12.354	V	11-TVBS	43000	Low Level
●	12.354	V	12-TVBSG	43000	News + Series
●	12.354	V	13-TVBSN	43000	News + Series
●	12.354	V	15-HALLLMARK CHAN	43000	Low Level
●	12.354	V	16-ZHUJIANG	43000	Quality Entertain.
●	12.354	V	17-CCTV-NEWS	43000	News + Series
●	12.354	V	18-CMC	43000	Quality Entertain.
●	12.354	V	19-CETV	43000	News + Series
●	12.354	V	20-MTV	43000	Low Level
●	12.354	V	21-CCTV-10	43000	Low Level
●	12.354	V	22-LOVE TV	43000	Low Level
●	12.354	V	23-CCTV	43000	Quality Entertain.
●	12.354	V	24-CELESTIAL TV	43000	News + Series
●	12.354	V	33-Channel TVBJ 3001	43000	Home Cinema
●	12.354	V	A1	43000	News + Series
●	12.354	V	A10	43000	Quality Entertain.
●	12.354	V	A11	43000	News + Series
●	12.354	V	A12	43000	News + Series
●	12.354	V	A13	43000	News + Series
●	12.354	V	A14	43000	Quality Entertain.
●	12.354	V	A2	43000	Quality Entertain.
●	12.354	V	A3	43000	Quality Entertain.
●	12.354	V	A4	43000	Quality Entertain.
●	12.354	V	A5	43000	News + Series
●	12.354	V	A6	43000	News + Series
●	12.354	V	A7	43000	Quality Entertain.
●	12.354	V	A8	43000	News + Series
●	12.354	V	A9	43000	Quality Entertain.
●	12.354	V	14-UBNNEWS	43000	Quality Entertain.
●	12.358	V	01-CCTV-1	43000	News + Series
●	12.358	V	02-PHOENIX INFO	43000	News + Series
●	12.358	V	03-PHOENIX CHANNE	43000	News + Series
●	12.358	V	04-FASHION TV	43000	News + Series
●	12.358	V	05-Channel	43000	News + Series
●	12.358	V	06-MASTV	43000	News + Series
●	12.358	V	07-ATV	43000	Low Level
●	12.358	V	08-ATV	43000	News + Series
●	12.358	V	09-TVB8	43000	News + Series
●	12.358	V	10-TVB XINGHE	43000	News + Series
●	12.358	V	11-TVBS	43000	News + Series
●	12.358	V	12-TVBSG	43000	News + Series
●	12.358	V	13-TVBSN	43000	News + Series
●	12.358	V	15-HALLLMARK CHAN	43000	Low Level
●	12.358	V	16-ZHUJIANG	43000	News + Series
●	12.358	V	17-CCTV-NEWS	43000	Low Level
●	12.358	V	18-CMC	43000	Low Level
●	12.358	V	19-CETV	43000	News + Series
●	12.358	V	20-MTV	43000	News + Series
●	12.358	V	21-CCTV-10	43000	Low Level
●	12.358	V	22-LOVE TV	43000	News + Series
●	12.358	V	23-CCTV	43000	Low Level
●	12.358	V	24-CELESTIAL TV	43000	Low Level
●	12.358	V	33-Channel TVBJ 3001	43000	Home Cinema
●	12.358	V	14-UBNNEWS	43000	Quality Entertain.
	12.401	V	B1	22425	Quality Entertain.
	12.401	V	B10	22425	Quality Entertain.
	12.401	V	B2	22425	Quality Entertain.
	12.401	V	B3	22425	News + Series
	12.401	V	B4	22425	News + Series
	12.401	V	B5	22425	News + Series
	12.401	V	B6	22425	News + Series
	12.401	V	B7	22425	News + Series
	12.401	V	B8	22425	Quality Entertain.
	12.401	V	B9	22425	Quality Entertain.
●	12.430	V	C1	22430	News + Series
●	12.430	V	C10	22430	Quality Entertain.
	12.430	V	C2	22425	News + Series
	12.430	V	C3	22425	News + Series
●	12.430	V	C4	22430	News + Series
●	12.430	V	C5	22430	Quality Entertain.
	12.430	V	C6	22425	Quality Entertain.
●	12.430	V	C7	22430	News + Series
	12.430	V	C8	22425	Quality Entertain.
●	12.430	V	C9	22430	Quality Entertain.
●	12.460	V	30008 SD3	21600	High Qual. Cinema
●	12.460	V	39-LUXE-TV-HD	21600	High Quality Home
●	12.460	V	40-HD	21600	High Quality Home
●	12.460	V	41-COMBO HD Channe	21600	High Quality Home
●	12.460	V	Channel 47	21600	High Quality Home
●	12.460	V	Channel 48	21600	High Quality Home
●	12.460	V	Channel 50	21600	High Quality Home
●	12.460	V	H264 Encoded	21600	High Qual. Cinema
●	12.501	V	DimSum Service	3601	Quality Entertain.
●	12.538	V	BEIJING	41250	News + Series
●	12.538	V	CCTV 4	41250	Quality Entertain.
●	12.538	V	CCTV 9	41218	Quality Entertain.
●	12.538	V	CCTV OPERA	41218	Quality Entertain.
●	12.538	V	FUJIAN	41250	News + Series
●	12.538	V	GUANGDONG	41250	News + Series
●	12.538	V	HUNAN	41218	News + Series
●	12.538	V	JIANGSU	41218	News + Series
●	12.538	V	SHANGHAI	41250	News + Series
●	12.538	V	SHENZHENG	41218	News + Series
●	12.538	V	XIAMEN	41218	News + Series
●	12.598	V	Asia Plus	43000	Quality Entertain.
●	12.598	V	AXN	43000	Quality Entertain.
●	12.598	V	Cartoon NetWk	43000	Quality Entertain.
●	12.598	V	CEN	43000	Quality Entertain.
●	12.598	V	Channel 18	43000	Quality Entertain.
●	12.598	V	DimSum Service	43000	Quality Entertain.
●	12.598	V	Discovery	43000	Quality Entertain.
●	12.598	V	Entertainment	43000	Quality Entertain.
●	12.598	V	Finance Info Ch	43000	Quality Entertain.
●	12.598	V	Live News Ch	43000	Quality Entertain.
●	12.598	V	Movies 1	43000	Quality Entertain.
●	12.598	V	News Channel	43000	Quality Entertain.
●	12.598	V	NGC	43000	Quality Entertain.
●	12.598	V	Odds Express	43000	News + Series
●	12.646	V	P1	22425	News + Series
●	12.646	V	P10	22437	News + Series
●	12.646	V	P2	22437	News + Series
●	12.646	V	P3	22425	News + Series
●	12.646	V	P4	22425	News + Series
●	12.646	V	P5	22425	News + Series
●	12.646	V	P6	22437	Quality Entertain.
●	12.646	V	P7	22425	Quality Entertain.
●	12.646	V	P8	22437	Quality Entertain.
●	12.646	V	P9	22437	Quality Entertain.
●	12.685	V	tvbsn	3000	Advertisement
●	12.690	H	TV5	43200	Home Cinema
●	12.690	H	BBC	43200	News + Series
●	12.690	H	C1	43200	Quality Entertain.
●	12.690	H	Education	43200	News + Series
●	12.690	H	FTV	43200	Quality Entertain.
●	12.690	H	HBO	43200	Quality Entertain.
●	12.690	H	max	43200	Quality Entertain.
●	12.690	H	MN TV	43200	Quality Entertain.
●	12.690	H	MN TV11	43200	Quality Entertain.
●	12.690	H	MN TV12	43200	Quality Entertain.
●	12.690	H	MN TV14	43200	Quality Entertain.
●	12.690	H	MNB	43200	News + Series
●	12.690	H	TM	43200	News + Series
●	12.690	H	TV25	43200	News + Series
●	12.690	H	TV9	43200	News + Series
●	12.690	H	UBS	43200	News + Series

C-Band: TELSTAR 18

138.1 East

APS005CB



	3.599	V	13 Afa TV & TTV 華人	30000	News + Series
	3.599	V	15 CTV mylife 中視綜	30000	News + Series
	3.599	V	16 FTV 民視	30000	News + Series
	3.599	V	17 ETTV-N 東森亞洲	30000	News + Series
	3.599	V	18 ETTV-Asia 東森亞	30000	News + Series
	3.599	V	19 TTV World 台視國	30000	News + Series
	3.599	V	20 CTI-I中天亞洲台	30000	News + Series
	3.599	V	21 ET YoYo 東森幼幼	30000	Quality Entertain.
	3.599	V	22 Test1	30000	News + Series
	3.599	V	23 Test2	30000	News + Series
	3.599	V	24 Test3	30000	News + Series
	3.599	V	25 Test4	30000	News + Series
	3.599	V	14 TZUCHI 慈濟大愛	30000	News + Series
●	3.660	V	ASIA TRAVEL	30000	High Quality Home
●	3.660	V	CTI-I	30000	High Quality Home
●	3.660	V	ET YoYo	30000	High Quality Home
●	3.660	V	ET-ASIA	30000	High Quality Home
●	3.660	V	ET-NEWS	30000	High Quality Home
●	3.660	V	FTV	30000	High Quality Home
●	3.660	V	SKY DRAMA	30000	High Quality Home
●	3.660	V	SKY LIFE	30000	High Quality Home
●	3.660	V	SKY MOVIE	30000	High Quality Home
●	3.660	V	TTV-I	30000	High Quality Home
●	3.660	V	DAAI JKT	30000	High Quality Home
●	3.660	V	TVRI	30000	High Quality Home
●	3.660	V	CH201	30000	News + Series
●	3.660	V	CH202	30000	News + Series

TV FTA | DVB-S MPEG-2 | DVB-S MPEG-4 | DVB-S2 MPEG-2 | DVB-S2 MPEG-4

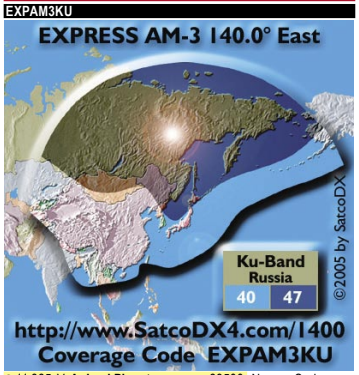
TV CRYPT | DVB-S MPEG-2 | DVB-S MPEG-4 | DVB-S2 MPEG-2 | DVB-S2 MPEG-4

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
3.660	V	CH203	30000	News + Series
3.660	V	CH204	30000	News + Series
3.660	V	CH205	30000	News + Series
3.660	V	CH207	30000	News + Series
3.660	V	CH206	30000	News + Series
3.705	V	LTV	3033	Quality Entertain.

EXPRESS AM3

140.0 East

EXPAM3KU

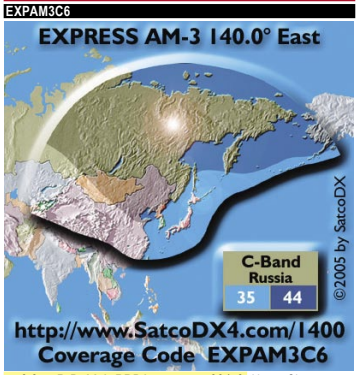


Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.665	V	Animal Planet	39500	News + Series
11.665	V	AXN Sci Fi	39500	News + Series
11.665	V	Discovery Channel	39500	News + Series
11.665	V	Discovery Science	39500	News + Series
11.665	V	Discovery TraveL & L	39500	News + Series
11.665	V	Discovery World	39500	Quality Entertain.
11.665	V	Extreme Sports	39500	Quality Entertain.
11.665	V	Galaxy	39500	News + Series
11.665	V	Kids Co	39500	News + Series
11.665	V	MTV Hits	39500	Low Level
11.665	V	National Geographic	39500	News + Series
11.665	V	Ocean TV	39500	News + Series
11.665	V	Universal	39500	News + Series
11.665	V	Zee TV Russia	39500	News + Series
11.665	V	КХЛ ТВ	39500	Quality Entertain.
11.665	V	Любимое Кино	39500	News + Series
11.665	V	Спорт	39500	Quality Entertain.
11.665	V	Телекафе	39500	News + Series
11.665	V	Феникс+Кино	39500	Low Level
11.665	V	VH1 Classic	39500	Low Level
11.665	V	Эксперт ТВ	39500	Quality Entertain.

C-Band: EXPRESS AM3

140.1 East

EXPAM3C6



3.675	R	Dubl-1+RRD1	33470	Home Cinema
3.675	R	Dubl-2+RRD2	33470	Home Cinema
3.675	R	Orbita-1R+Mayak	33470	Home Cinema
3.675	R	Orbita-2R+Yunost	33470	Home Cinema
3.675	R	RTR Sport	33470	Home Cinema
3.675	R	Kultura-1	33470	Home Cinema
3.675	R	NTV+7	33470	Home Cinema
3.675	R	TRK5_Sibir	33470	Home Cinema

SUPERBIRD 7,C2

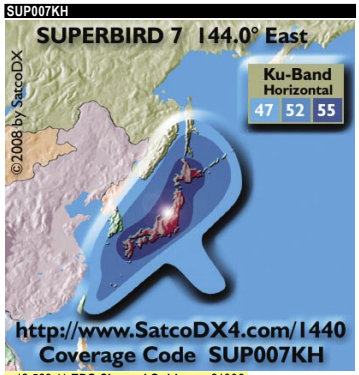
144.0 East

SUP007KA



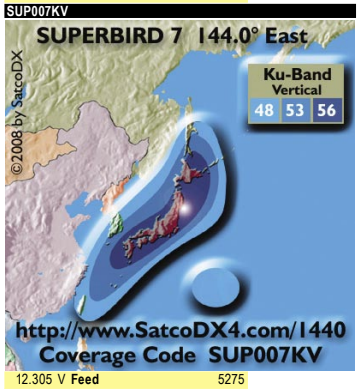
12.683	V	Feeds (CTS)	3400	
12.688	V	Da Ai	2900	
12.693	V	CTS IQ Channel	2000	
12.698	V	CTS	1780	

SUP007KH



12.523	H	EPG Channel Guide	21096	
12.553	H	ST1	21096	Quality Entertain.
12.583	H	EPG Channel Guide	21096	
12.613	H	VPR	21096	News + Series
12.643	H	KID	21096	News + Series

SUP007KV

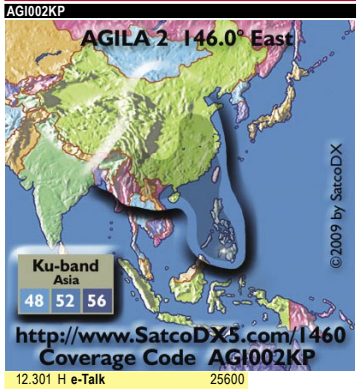


12.305	V	Feed	5275	
12.628	V	Test Card	21096	
12.718	V	The Mabuhay Channel	21096	

AGILA 2

146.0 East

AGI002KP

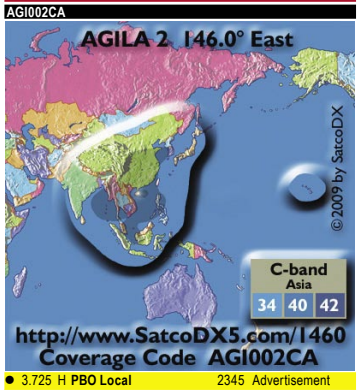


12.301	H	e-Talk	25600	

C-Band: AGILA 2

146.1 East

AGI002CA

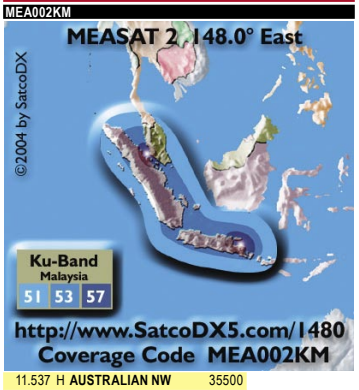


3.725	H	PBO Local	2345	Advertisement
3.725	H	testing	2345	News + Series
3.726	H	SLBN-MJC	2611	News + Series
3.764	V		3300	Quality Entertain.
3.764	V	CHANNEL 1	3300	Quality Entertain.
3.773	V	Channel 11	3300	Quality Entertain.
3.791	V	CHANNEL 1	10091	Quality Entertain.
3.791	V	CHANNEL 2	10091	Quality Entertain.
3.791	V	CHANNEL 3	10091	Quality Entertain.
3.791	V	CHANNEL 4	10091	Quality Entertain.
3.791	H	DAAI-TV	3100	Quality Entertain.
3.796	H	BAYON TV	3360	Quality Entertain.
3.808	V	CHANNEL 1	3300	Quality Entertain.
3.808	V	CHANNEL 2	3300	Quality Entertain.
3.808	V	CHANNEL 3	3300	Quality Entertain.
3.808	V	CHANNEL 4	3300	Quality Entertain.
3.873	V	{Empty Name}	2532	Quality Entertain.
3.875	H	NBN 4 RADIO	3000	Quality Entertain.
3.875	H	NBN PHILIPPINES	3000	Quality Entertain.
3.877	V	SONSHINE-TV ACQKB	2200	News + Series
3.880	H	Channel 11	2000	Advertisement
3.886	H	PBO Local	8955	News + Series
3.886	H	Viva Cinema	8955	News + Series
3.886	H	MMDA	8955	News + Series
3.886	H	Viva Prime	8955	News + Series
3.887	H	PBO Local	6716	News + Series
3.887	H	Viva Cinema	6716	News + Series
3.887	H	Viva Prime	6716	News + Series
3.896	H	IBC 13	3000	Quality Entertain.
3.898	V	ADVENT	3280	Quality Entertain.
3.905	V	GLTV US	6400	Quality Entertain.
3.905	V	International 1 - AC	6400	Quality Entertain.
3.915	V	GMA 7	6700	Quality Entertain.
3.915	V	QTV 11	6700	Quality Entertain.
3.979	V	CTN 1	9628	News + Series
3.979	V	CTN 2	9628	Quality Entertain.
3.979	V	CTN 3	9628	Home Cinema
4.165	V	FLTV NETWORK	3735	News + Series
4.171	V	MTV PHILS&	3213	Quality Entertain.
4.183	V	{Empty Name}	2170	Advertisement
4.188	V	Digital TV1	2170	News + Series

MEASAT 2

148.0 East

MEA002KM

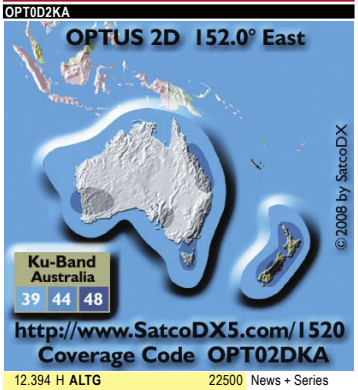


11.537	H	AUSTRALIAN NW	35500	
11.537	H	BIBI	35500	
11.537	H	DISNEY	35500	
11.537	H	GOALTV1	35500	
11.537	H	GOALTV2	35500	
11.537	H	HALLMARK	35500	
11.537	H	HTV	35500	
11.537	H	INFO-TV	35500	
11.537	H	MTV ASIA	35500	
11.537	H	THIEN ANH	35500	
11.537	H	VCTV1	35500	
11.537	H	VCTV2	35500	
11.537	H	VCTV3	35500	
11.537	H	VCTV4	35500	
11.537	H	VCTV6	35500	
11.537	H	VCTV7	35500	
11.537	H	VTV1	35500	
11.537	H	VTV2	35500	
11.537	H	VTV3	35500	
11.537	H	VTV4	35500	
11.537	H	VTV5	35500	
11.537	H	VTV6	35500	
12.407	H	ASTRO SUPERSPORT	30000	
12.407	H	ASTRO WAH LAI TOI	30000	
12.407	H	ASTRO XPRESI	30000	
12.407	H	CARTOON NTWK	30000	
12.407	H	CCTV-9	30000	
12.407	H	DISNEY	30000	
12.407	H	GOAL TV1	30000	
12.407	H	HBO	30000	
12.407	H	PLAYHOUSE	30000	
12.407	H	STAR WORLD	30000	
12.407	H	TVB XING HE	30000	
12.407	H	ZEE	30000	
12.470	H	ASTRO ARUNA	30000	
12.470	H	ASTRO KIRANA	30000	
12.470	H	ASTRO TVIQ	30000	
12.470	H	GOAL TV2	30000	
12.470	H	NATIONAL GEOGRAPH	30000	
12.470	H	NHK WORLD	30000	
12.470	H	PHOENIX	30000	
12.470	H	STAR MOVIES	30000	
12.470	H	STAR SPORTS	30000	
12.470	H	ALJAZEERA INTERNA	30000	
12.470	H	ASTRO SHUANG XING	30000	
12.470	H	DISCOVERY	30000	
12.470	H	NICKELODEON	30000	
12.532	H	ANIMAL PLANET	30000	
12.532	H	ANIMAX	30000	
12.532	H	ASTRO AWANI	30000	
12.532	H	ASTRO CERIA	30000	
12.532	H	ASTRO OASIS	30000	
12.532	H	BLOOMBERG	30000	
12.532	H	CELESTIAL MOVIES	30000	
12.532	H	CHANNEL [V]	30000	
12.532	H	CINEMAX	30000	
12.532	H	ESPN	30000	
12.532	H	INDOSIAR	30000	
12.532	H	WA TV	30000	
12.594	H	AXN	30000	
12.594	H	BBC WORLD	30000	
12.594	H	CCTV-4	30000	
12.594	H	CNN	30000	
12.594	H	DISCOVERY TRAVEL	30000	
12.594	H	E! ENTERTAINMENT	30000	
12.594	H	METRO TV	30000	
12.594	H	MTV ASIA	30000	
12.594	H	SCTV	30000	
12.594	H	TRANS 7	30000	
12.594	H	TRANS TV	30000	
12.594	H	TVRI	30000	

OPTUS D2

152.0 East

OPT0D2KA



12.394	H	ALTG	22500	News + Series
12.394	H	BOM	22500	News + Series
12.394	H	DYES	22500	News + Series
12.394	H	GMAL	22500	News + Series
12.394	H	HYAT	22500	Low Level
12.394	H	K15	22500	Low Level
12.394	H	MAD	22500	News + Series
12.394	H	MKTV	22500	News + Series
12.394	H	PLAN	22500	Quality Entertain.
12.394	H	RIKS	22500	Low Level
12.394	H	RTCG	22500	Low Level
12.394	H	SETS	22500	Quality Entertain.
12.394	H	STAR	22500	Low Level
12.407	V	BTV2	30000	Quality Entertain.
12.407	V	BTV3	30000	Quality Entertain.
12.407	V	SKY1	30000	Home Cinema
12.407	V	SKY10	30000	News + Series
12.407	V	SKY2	30000	Home Cinema
12.407	V	SKY3	30000	Home Cinema
12.407	V	SKY4	30000	Home Cinema
12.407	V	SKY5	30000	Home Cinema
12.407	V	SKY6	30000	Home Cinema
12.407	V	SKY7	30000	News + Series
12.407	V	SKY8	30000	Low Level
12.407	V	TUNE 152°E	30000	Low Level
12.421	H	4E	22500	News + Series
12.421	H	AJE	22500	News + Series
12.421	H	ALSH	22500	Low Level
12.421	H	BHTV	22500	News + Series
12.421	H	CDF	22500	News + Series
12.421	H	CHV	22500	News + Series
12.421	H	DSPT	22500	Low Level
12.421	H	DTV	22500	News + Series
12.421	H	KAN7	22500	Quality Entertain.
12.421	H	MAZZ	22500	Quality Entertain.
12.421	H	AGPY	22500	Low Level
12.421	H	CTV	22500	News + Series
12.421	H	PACE	22500	Low Level
12.519	V	MTV India	22500	News + Series
12.519	V	NDTV	22500	News + Series
12.519	V	PolSat	22500	News + Series
12.519	V	SET	22500	News + Series
12.519	V	SET Max	22500	Low Level
12.519	V	Star Gold	22500	News + Series
12.519	V	Star One	22500	News + Series
12.519	V	Star Plus	22500	News + Series
12.519	V	Zee TV	22500	News + Series
12.519	V	Al Hayat	22500	News + Series
12.519	V	aon	22500	News + Series
12.519	V	SMTV	22500	News + Series
12.546	V	GC1 TV	22500	Quality Entertain.
12.546	V	NAB TV	22500	Quality Entertain.
12.546	V	PUNJJABI TV	22500	Quality Entertain.
12.546	V	3ABN	22500	News + Series
12.546	V	ADHOC	22500	Quality Entertain.
12.546	V	AL IRAQIYA	22500	Home Cinema
12.546	V	NHK World TV	22500	News + Series
12.581	H	ALNA	22500	Quality Entertain.
12.581	H	ATV	22500	News + Series
12.581	H	EURD	22500	News + Series
12.581	H	EURS	22500	Low Level
12.581	H	IRQY	22500	Low Level
12.581	H	JAJM	22500	Low Level
12.581	H	KRAL	22500	News + Series
12.581	H	LATV	22500	News + Series
12.581	H	NTV	22500	Low Level
12.581	H	STV	22500	News + Series
12.581	H	TRTI	22500	Low Level
12.581	H	TVGL	22500	Quality Entertain.
12.581	H	VZYN	22500	News + Series
12.608	H	ALPH	22500	News + Series
12.608	H	CEST	22500	Quality Entertain.
12.608	H	COLM	22500	News + Series
12.608	H	GMAP	22500	Quality Entertain.
12.608	H	MEGA	22500	News + Series
12.608	H	PELI	22500	Low Level
12.608	H	RITL	22500	News + Series
12.608	H	TEFE	22500	News + Series
12.608	H	TNOV	22500	Quality Entertain.
12.608	H	TVE	22500	Low Level
12.608	H	ERT	22500	Low Level
12.608	H	KTV	22500	Low Level
12.608	H	SCTV	22500	Low Level
12.644	H	ALJD	22500	News + Series
12.644	H	ALYM	22500	News + Series
12.644	H	ANA	22500	Low Level
12.644	H	CIN1	22500	News + Series
12.644	V	CMC	22500	Low Level

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

Cost Conscious Entertainment .... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
12.644	H	INFY	22500	Low Level
12.644	H	MSLT	22500	News + Series
12.644	H	MWER	22500	Low Level
12.644	H	NDM	22500	News + Series
12.644	H	NNEW	22500	News + Series
12.644	H	NVAR	22500	Low Level
12.644	H	PARS	22500	News + Series
12.644	V	Picture Of Croatia	22500	News + Series
12.644	H	ROTC	22500	News + Series
12.644	H	RTPI	22500	Quality Entertain.
12.644	V	BVN	22500	News + Series
12.644	V	Church TV	22500	News + Series
12.644	V	Daystar	22500	News + Series
12.644	V	EWTN	22500	News + Series
12.644	V	GOD TV	22500	News + Series
12.644	V	Inspiration	22500	News + Series
12.644	V	JCTV	22500	News + Series
12.644	V	Smile of a Child	22500	News + Series
12.644	V	Trinity	22500	News + Series
12.644	V	TRT-TURK	22500	Low Level
12.671	H	ALMJ	22500	News + Series
● 12.671	H	CH42	22500	Low Level
12.671	H	ESC	22500	News + Series
12.671	H	JSC	22500	Low Level
12.671	H	NSPT	22500	News + Series
12.671	H	ROTM	22500	News + Series
12.671	H	ROTZ	22500	News + Series
12.671	H	SAT7	22500	News + Series
12.671	H	SHRQ	22500	News + Series
12.671	H	SIC	22500	Quality Entertain.
12.671	H	TASH	22500	News + Series
12.671	H	TLHY	22500	Low Level
12.671	H	TVS	22500	Low Level
12.707	V	Colors	22500	News + Series
12.707	V	GTV	22500	News + Series
12.707	V	ITVN	22500	Low Level
12.707	V	Setanta Sports	22500	Quality Entertain.
12.707	V	TV Polonia	22500	Low Level
12.707	V	TVK 1	22500	Quality Entertain.
12.707	V	TVK 2	22500	News + Series
12.707	V	TVN Racing	22500	Quality Entertain.
12.707	V	Al Forat	22500	News + Series
12.707	V	CGN	22500	Low Level
12.707	V	Hope	22500	News + Series
12.707	V	Press TV	22500	News + Series
12.733	V	Deepam	22500	News + Series
12.733	V	SUN TV	22500	Quality Entertain.
12.733	V	Abu Dhabi	22500	Low Level
● 12.733	V	Adhoc	22500	Low Level
12.733	V	Al Anwar	22500	Low Level
12.733	V	DUNA	22500	Low Level
12.733	V	ERT	22500	News + Series
12.733	V	Kurdsat	22500	News + Series
12.733	V	Oman TV	22500	Quality Entertain.
12.733	V	Russia Today	22500	News + Series
12.733	V	TGN	22500	Quality Entertain.
12.733	V	TVRI	22500	News + Series

JCSAT 2A
154.0 East

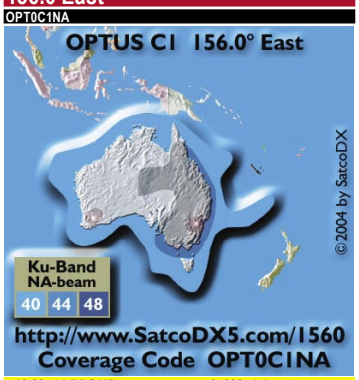
JCS02AKJ



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12.688	V	S-Net package	21096	
12.700	H	AG Net	5275	

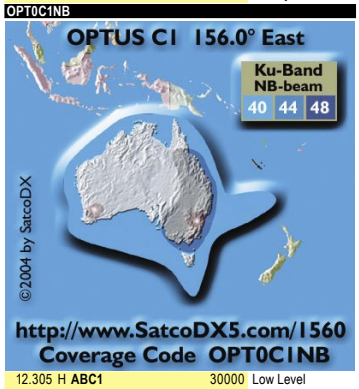
OPTUS C1
156.0 East

OPT0C1NA



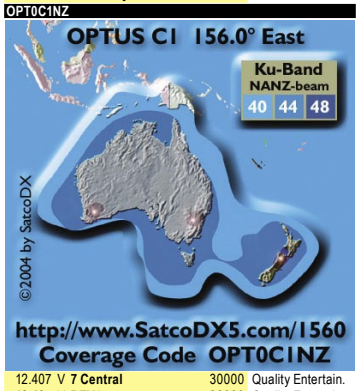
12.287	V	BBC HD	27800	Advertisement
12.287	V	FOX Sports HD	27800	Home Cinema
12.287	V	Nat Geo HD	27800	Home Cinema
12.367	V	ABC1	27800	Quality Entertain.
12.367	V	ACC	27800	News + Series
12.367	V	Channel 7	27800	News + Series
12.367	V	NITV	27800	News + Series
12.367	V	SBS	27800	News + Series
12.367	V	SBS News	27800	News + Series
12.367	V	Setanta Sports	27800	News + Series
12.367	V	TVN	27800	Quality Entertain.
12.447	V	AUSA	27800	Home Cinema
12.447	V	SPA	27800	Home Cinema
12.447	V	SPH	27800	News + Series
12.447	V	SPM	27800	Quality Entertain.
12.447	V	DAL 1	27800	Quality Entertain.
12.447	V	DAL 2	27800	Quality Entertain.
12.447	V	DAL 3	27800	Quality Entertain.
12.447	V	DAL 4	27800	Quality Entertain.
12.447	V	DAL M	27800	Quality Entertain.
12.487	V	Channel 10	27800	Home Cinema
12.487	V	Channel 9	27800	News + Series
12.527	V	ABC TV WA	30000	Quality Entertain.
12.527	V	GWN TV	30000	News + Series
12.527	V	IMP TV	30000	Quality Entertain.
12.527	V	NITV	30000	Quality Entertain.
12.527	V	SBS SA	30000	Quality Entertain.
12.527	V	WIN	30000	Quality Entertain.
12.527	V	WLK	30000	News + Series
12.567	V	AURORA	27800	News + Series
12.567	V	FB01	27800	Quality Entertain.
12.567	V	FB02	27800	News + Series
12.567	V	FB03	27800	News + Series
12.567	V	FB04	27800	News + Series
12.567	V	FB13	27800	Low Level
12.567	V	FB14	27800	News + Series
12.567	V	FB15	27800	News + Series
12.567	V	FB16	27800	News + Series
12.567	V	FB17	27800	Quality Entertain.
12.567	V	FB18	27800	News + Series
12.607	V	ACC	27800	Low Level
12.607	V	FB05	27800	News + Series
12.607	V	FB06	27800	Quality Entertain.
12.607	V	FB07	27800	News + Series
12.607	V	FB08	27800	News + Series
12.607	V	FB19	27800	News + Series
12.607	V	FB20	27800	Quality Entertain.
12.607	V	FB21	27800	News + Series
12.607	V	FB22	27800	News + Series
12.607	V	FB23	27800	Quality Entertain.
12.607	V	FB24	27800	News + Series
12.647	V	Adults Only 1	27800	News + Series
12.647	V	Adults Only 2	27800	News + Series
12.647	V	CNBC	27800	News + Series
12.647	V	EXPO	27800	Quality Entertain.
12.647	V	FB09	27800	News + Series
12.647	V	FB10	27800	News + Series
12.647	V	FB11	27800	News + Series
12.647	V	FB12	27800	News + Series
12.647	V	FB25	27800	News + Series
12.647	V	FB26	27800	News + Series
12.693	V	ABC1	28650	News + Series
12.693	V	ABC2	28650	Low Level
12.728	V	ABC TV NT	24450	Quality Entertain.
12.728	V	ABC TV Q	24450	Quality Entertain.
12.728	V	ABC TV SA	24450	Quality Entertain.
12.728	V	ABC TV SE	24450	Quality Entertain.

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12.305	H	ABC1	30000	Low Level
12.305	H	AITV05	30000	News + Series
12.305	H	SBS	30000	Quality Entertain.
12.305	H	EXPO	30000	News + Series
12.358	H	Cartoon	27800	Low Level
12.358	H	Discovery	27800	News + Series
12.358	H	Fox Sports 3	27800	Home Cinema
12.358	H	Hallmark	27800	Low Level
12.358	H	History	27800	Quality Entertain.
12.358	H	Movie Extra	27800	Quality Entertain.
12.358	H	Movie Greats	27800	Quality Entertain.
12.358	H	Nat Geo	27800	Quality Entertain.
12.358	H	Nickelodeon	27800	News + Series
12.358	H	Show Greats	27800	News + Series
12.358	H	World Movies	27800	News + Series
12.398	H	Animal Planet	27800	News + Series
12.398	H	Antenna	27800	News + Series
12.398	H	Bio.	27800	Quality Entertain.
12.398	H	Bloomberg	27800	News + Series
12.398	H	CNN	27800	News + Series
12.398	H	ESPN	27800	News + Series
12.398	H	Food	27800	Quality Entertain.
12.398	H	FOX News	27800	News + Series
12.398	H	RAI	27800	News + Series
12.398	H	Showcase	27800	Quality Entertain.
12.398	H	Weather	27800	Quality Entertain.
12.398	H	WEATHER ACTIVE	27800	News + Series
12.438	H	xPush AVC SD	27800	News + Series
12.438	H	bars	27800	Low Level
12.438	H	FBOB	27800	Low Level
12.438	H	Playhouse	27800	News + Series
12.438	H	Sky News	27800	Advertisement
12.438	H	SKY NEWS ACTIVE	27800	Quality Entertain.
12.438	H	Help	27800	Low Level
12.438	H	iEPG Video Satellite	27800	Advertisement
12.478	H	Boomerang	27800	Low Level
12.478	H	Fox Sports 1	27800	Quality Entertain.
12.478	H	Fox Sports 2	27800	Quality Entertain.
12.478	H	FOX SPORTS NEWS A	27800	News + Series
12.478	H	FoxSportsNews	27800	Quality Entertain.
12.478	H	FS1	27800	Quality Entertain.
12.478	H	FSNA	27800	News + Series
12.478	H	Main Event	27800	News + Series
12.478	H	Ovation	27800	News + Series
12.478	H	SATest	27800	Quality Entertain.
12.478	H	Sky Business	27800	Low Level
12.478	H	Sky Racing	27800	Low Level
12.478	H	Spare	27800	Quality Entertain.
12.478	H	SPORT SELECTOR	27800	News + Series
12.478	H	SportSelector	27800	News + Series
12.478	H	TVSN	27800	News + Series
12.518	H	ARENA +2	27800	News + Series
12.518	H	Classics +2	27800	Quality Entertain.
12.518	H	Comedy +2	27800	Low Level
12.518	H	FOX8 +2	27800	Quality Entertain.
12.518	H	LifeStyle +2	27800	News + Series
12.518	H	Movie Two	27800	Quality Entertain.
12.518	H	Showtime +2	27800	Quality Entertain.
12.518	H	TV1 +2	27800	Low Level
12.518	H	UKTV +2	27800	News + Series
12.518	H	W2	27800	News + Series
12.558	H	AREN	27800	Quality Entertain.
12.558	H	ARENA	27800	News + Series
12.558	H	Comedy	27800	News + Series
12.558	H	Disney	27800	News + Series
12.558	H	FOX Classics	27800	News + Series
12.558	H	FOX8	27800	Quality Entertain.
12.558	H	LifeStyle	27800	Low Level
12.558	H	Movie One	27800	Quality Entertain.
12.558	H	Showtime	27800	News + Series
12.558	H	TV1	27800	News + Series
12.558	H	UKTV	27800	Quality Entertain.
12.558	H	W	27800	Quality Entertain.
12.598	H	BBC World	27800	Low Level
12.598	H	Channel [V]	27800	Quality Entertain.
12.598	H	CI	27800	News + Series
12.598	H	FUEL TV	27800	Quality Entertain.
12.598	H	How To	27800	News + Series
12.598	H	MAX	27800	Quality Entertain.
12.598	H	MTV	27800	News + Series
12.598	H	SCI FI	27800	Low Level
12.598	H	Sky News	27800	News + Series
12.598	H	SkyN	27800	Quality Entertain.
12.598	H	TCM	27800	Low Level
12.598	H	Vh1	27800	News + Series
12.638	H	BOX	27800	News + Series
12.638	H	Box Office	27800	News + Series
12.638	H	Channel [V]2	27800	News + Series
12.638	H	Country Music	27800	Quality Entertain.
12.638	H	Disc Health	27800	Low Level
12.638	H	Disc Science	27800	News + Series
12.638	H	Disc Travel	27800	News + Series
12.638	H	E!	27800	Quality Entertain.
12.638	H	Eurosportnews	27800	News + Series
12.638	H	FTV	27800	News + Series
12.638	H	NG Adventure	27800	News + Series
12.638	H	Nick Jr	27800	News + Series
12.688	H	ESPN HD	27800	Home Cinema
12.688	H	Discovery HD	27800	Home Cinema

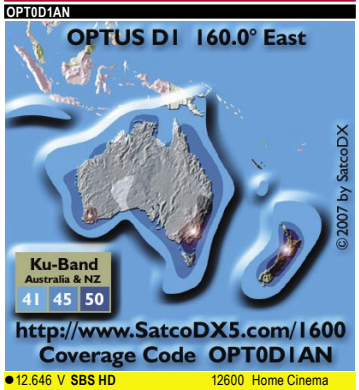
OPT0C1NZ



12.407	V	7 Central	30000	Quality Entertain.
12.407	V	BTV1	30000	Quality Entertain.
12.407	V	SBS QLD	30000	Quality Entertain.
12.407	V	SBS SE	30000	Quality Entertain.
12.407	V	SBS WA	30000	Quality Entertain.
12.407	V	INFO 156°E	30000	Low Level

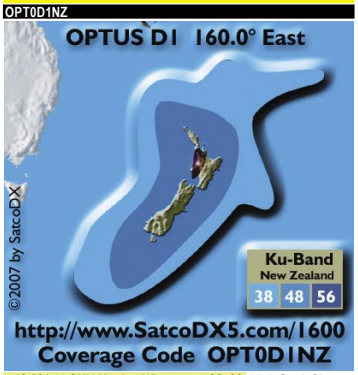
OPTUS D1
160.0 East

OPT0D1AN



● 12.646	V	SBS HD	12600	Home Cinema
● 12.646	V	SBS 3	12600	Quality Entertain.
● 12.646	V	SBS 4	12600	Quality Entertain.
● 12.646	V	SBS ONE	12600	Quality Entertain.
● 12.646	V	SBS TWO	12600	News + Series

OPT0D1NZ



12.331	H	SKY Movies HD	22500	High Qual. Cinema
12.331	H	SKY Sport 1 HD	22500	High Qual. Cinema
12.331	H	SKY Sport 2 HD	22500	High Qual. Cinema
● 12.331	H	{Empty Name}	22500	Advertisement
12.358	H	SM Greats HD	22500	High Qual. Cinema
12.358	H	TV One HD	22500	High Quality Home
12.358	H	TV2 HD	22500	High Quality Home
12.358	H	TV3 HD	22500	High Qual. Cinema
12.394	H	Playboy	22500	News + Series
12.394	H	SKY Box Office	22500	News + Series
● 12.394	H	{Empty Name}	22500	News + Series
12.421	H	Arts Channel	22500	News + Series
12.421	H	CI	22500	Quality Entertain.
12.421	H	CNBC	22500	Quality Entertain.
12.421	H	Documentary	22500	News + Series
12.421	H	Fashion TV	22500	Quality Entertain.
12.421	H	Fox News	22500	Quality Entertain.
12.421	H	Star Plus Hindi	22500	Quality Entertain.
12.421	H	TCM	22500	Quality Entertain.
12.456	H	C4	22500	Quality Entertain.
12.456	H	CUE	22500	Quality Entertain.
12.456	H	Parliament TV	22500	Low Level
● 12.456	H	PRIME	22500	Quality Entertain.
12.456	H	STRATOS	22500	Low Level
12.456	H	Te Reo	22500	Low Level
12.456	H	TV3	22500	Quality Entertain.
12.456	H	TV3 PLUS1	22500	Quality Entertain.
● 12.456	H	{Empty Name}	22500	Low Level
12.483	H	Maori TV	22500	News + Series
12.483	H	TV ONE	22500	Quality Entertain.
12.483	H	TV2	22500	News + Series
12.483	H	TVNZ 6	22500	News + Series
12.483	H	TVNZ 7	22500	News + Series
12.519	H	63	22500	Quality Entertain.
12.519	H	Cartoon Network	22500	News + Series
12.519	H	CTV 1	22500	News + Series
12.519	H	Preview	22500	News + Series
12.519	H	Preview	22500	News + Series
12.519	H	SKY Movies	22500	News + Series
12.519	H	SKY News	22500	News + Series
12.519	H	MindGames	22500	Advertisement
12.546	H	CTV 2	22500	News + Series
12.546	H	CTV 3	22500	News + Series
12.546	H	CTV 4	22500	News + Series
12.546	H	Food Television	22500	Quality Entertain.
12.546	H	History Channel	22500	News + Series
12.546	H	Living Channel	22500	News + Series
12.546	H	Playhouse	22500	Quality Entertain.
12.546	H	SKY Sport 1	22500	News + Series
12.546	H	SKY Sport H/L's	22500	Quality Entertain.
12.581	H	BBC World	22500	Quality Entertain.
12.581	H	CCTV-9	22500	News + Series
12.581	H	CTV 5	22500	Low Level
12.581	H	JTV	22500	News + Series
12.581	H	Nat Geographic	22500	News + Series
12.581	H	Rugby Channel	22500	News + Series
12.581	H	SKY Sport 2	22500	Home Cinema
12.581	H	UKTV	22500	Quality Entertain.
12.581	H	Vibe	22500	News + Series
12.608	H	Discovery	22500	News + Series
12.608	H	E!	22500	News + Series
12.608	H	Juice TV	22500	News + Series
12.608	H	KTV 1	22500	News + Series
12.608	H	Shine	22500	News + Series
12.608	H	SKY Sport 3	22500	Home Cinema
12.608	H	SM Greats	22500	News + Series
12.608	H	the BOX	22500	Quality Entertain.
● 12.644	H	Auxiliary	22500	News + Series
12.644	H	C4	22500	News + Series
12.644	H	CTV 6	22500	News + Series
12.644	H	ESPN	22500	News + Series
12.644	H	KTV 2	22500	News + Series
12.644	H	Nickelodeon	22500	News + Series
12.644	H	SKY Box Office	22500	News + Series
12.644	H	SKY Movies 2	22500	Quality Entertain.
12.644	H	TV 3	22500	Quality Entertain.
12.671	H	CTV 7	22500	News + Series
12.671	H	MGM	22500	News + Series
12.671	H	Rialto	22500	Quality Entertain.
12.671	H	Trackside	22500	Quality Entertain.
12.671	H	PlayinTV	22500	Advertisement
12.671	H	TV 2	22500	Quality Entertain.
12.671	H	TV One	22500	Quality Entertain.
12.671	H	Weather	22500	Advertisement
12.707	H	Animal Planet	22500	News + Series
12.707	H	CNN	22500	News + Series
12.707	H	Comedy Central	22500	News + Series
12.707	H	Country Channel	22500	News + Series
12.707	H	Disney Channel	22500	News + Series
12.707	H	MTV	22500	News + Series
12.707	H	Prime	22500	Quality Entertain.
12.734	H	Adult Channel	22500	Quality Entertain.
12.734	H	SKY Box Office	22500	Quality Entertain.
12.734	H	Spice:Xcess	22500	News + Series

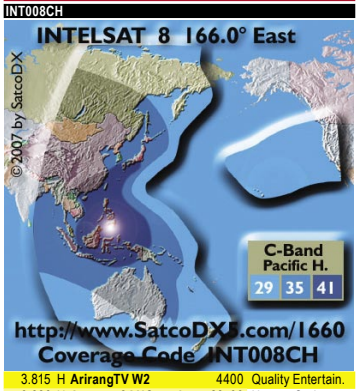
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TV CRYPT | DVB-S MPEG-2 | DVB-S MPEG-4 | DVB-S2 MPEG-2 | DVB-S2 MPEG-4

C-Band: INTELSAT 8

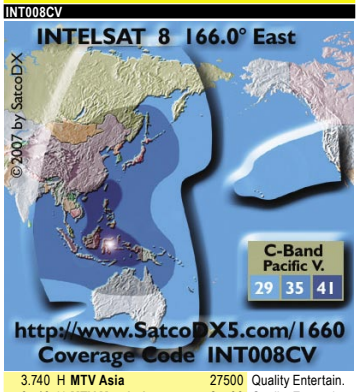
166.0 East

INT008CH



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
3.815	H	AriangTV W2	4400	Quality Entertain.
3.880	H	A copy of ANC statio	28700	News + Series
3.880	H	A copy of TFC 1 cabl	28700	News + Series
3.880	H	ABS CBN halalan	28700	Quality Entertain.
3.880	H	ABS-CBN 1 cable	28700	Quality Entertain.
3.880	H	ANC cable	28700	News + Series
3.880	H	ANC station	28700	News + Series
3.880	H	Channel 17	28700	News + Series
3.880	H	channel 2	28700	News + Series
3.880	H	Cinema 1 cable	28700	News + Series
3.880	H	Cinema Global	28700	News + Series
3.880	H	HERO Channel	28700	News + Series
3.880	H	LIFESTYLE cable	28700	News + Series
3.880	H	MYX cable	28700	News + Series
3.880	H	OS Download Channel	28700	Quality Entertain.
3.880	H	PinoyCentral TV	28700	News + Series
3.880	H	PinoyCentral TV Kida	28700	News + Series
3.880	H	Studio 23 cable	28700	News + Series
3.880	H	TFC 1 cable	28700	Quality Entertain.
3.880	H	Knowledge Channel ca	28700	Low Level
3.880	H	PBB	28700	Advertisement

INT008CV



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.740	H	MTV Asia	27500	Quality Entertain.
3.740	H	MTV Mandarin	27500	Quality Entertain.
3.740	H	MTV Philippines	27500	Quality Entertain.
3.740	H	MTVNA	27500	Quality Entertain.
3.740	H	Nick Japan	27500	Quality Entertain.
3.740	H	Nick NZ	27500	Quality Entertain.
3.740	H	Nick SE	27500	Quality Entertain.
3.740	H	MTV China	27500	Quality Entertain.
3.790	V	KBS WORLD N	6507	Quality Entertain.
3.790	V	YTN N	6507	Quality Entertain.
3.808	H	EMTV & Radio	5632	Home Cinema
3.808	H	Radio Services	5632	Home Cinema
3.815	V	AriangTV W2	4400	Quality Entertain.
3.833	V	TVBS	17500	Quality Entertain.
3.833	V	TVBS-Asia	17500	Quality Entertain.
3.833	V	TVBS-G	17500	Quality Entertain.
3.833	V	TVBS-M	17500	Quality Entertain.
3.833	V	TVBS-N	17500	Quality Entertain.
3.833	V	Utility	17500	News + Series
3.880	V	ABS-CBN 1 cable	28700	Quality Entertain.
3.880	V	ANC cable	28700	Quality Entertain.
3.880	V	ANC station	28700	News + Series
3.880	V	Channel 17	28700	News + Series
3.880	V	channel 2	28700	News + Series
3.880	V	Cinema 1 cable	28700	News + Series
3.880	V	Cinema Global	28700	Low Level
3.880	V	HERO Channel	28700	News + Series
3.880	V	LIFESTYLE cable	28700	News + Series
3.880	V	MYX cable	28700	News + Series
3.880	V	PBB	28700	News + Series
3.880	V	PinoyCentral TV	28700	News + Series
3.880	V	Studio 23 cable	28700	News + Series
3.880	V	TFC 1 cable	28700	News + Series
3.880	V	Knowledge Channel ca	28700	News + Series
3.949	V	MBC 1	4613	Home Cinema

INTELSAT 8

166.1 East

INT008KA



Freq	Pol	Channel Name	Symbol Rate	Programming Type
12.286	H	Animal Planet	28800	Quality Entertain.
12.286	H	Canal Sur	28800	News + Series
12.286	H	Discovery HH	28800	News + Series
12.286	H	Discovery RT	28800	News + Series
12.286	H	Discovery Sc	28800	News + Series
12.286	H	Discovery TL	28800	Home Cinema
12.286	H	Enews ES	28800	Low Level
12.286	H	Enews Italy	28800	Quality Entertain.
12.286	H	Euronews	28800	Low Level
12.286	H	Latele Novela	28800	News + Series
12.286	H	Leonardo World	28800	Low Level
12.286	H	PGM 206	28800	Quality Entertain.
12.286	H	PGM 207	28800	Low Level
12.286	H	PGM 208	28800	Quality Entertain.
12.286	H	PGM 213	28800	News + Series
12.286	H	RAI Italia	28800	News + Series
12.286	H	TV Chile	28800	Low Level
12.286	H	VTV Uruguay	28800	News + Series
12.286	H	Wine TV	28800	Low Level
12.326	H	Movie One	28800	Home Cinema
12.326	H	E! Ent	28800	Quality Entertain.
12.326	H	Movie Ex	28800	Quality Entertain.
12.326	H	Movie Gr	28800	Home Cinema
12.326	H	Movie Two	28800	Quality Entertain.
12.326	H	MTV	28800	Quality Entertain.
12.326	H	Nat.Geographic	28800	Advertisement
12.326	H	NG Adventure	28800	News + Series
12.326	H	Ovation	28800	Low Level
12.326	H	PGM 311	28800	Low Level
12.326	H	PGM 313	28800	Advertisement
12.326	H	TCM	28800	Low Level
12.326	H	VH1	28800	Quality Entertain.
12.526	H	ANT1 Pacific	28800	News + Series
12.526	H	BBC World News	28800	News + Series
12.526	H	Bloomberg	28800	News + Series
12.526	H	Cartoon Network	28800	Low Level
12.526	H	CNNI	28800	Low Level
12.526	H	ERT World	28800	News + Series
12.526	H	Eurosport	28800	News + Series
12.526	H	Fashion TV	28800	Home Cinema
12.526	H	PGM 109	28800	News + Series
12.526	H	PGM*114	28800	Low Level
12.526	H	R.F.S. TV	28800	Low Level
12.526	H	Sky Racing	28800	Quality Entertain.
12.526	H	TVE	28800	News + Series
12.526	H	Weatherzone	28800	News + Series
12.526	H	SelecTV.	28800	Low Level
12.575	H	ANC	13845	News + Series
12.575	H	CINEMA1	13845	Low Level
12.575	H	KC	13845	News + Series
12.575	H	PPV	13845	Low Level
12.575	H	TFC	13845	News + Series
12.575	H	DA-I	13845	News + Series
12.575	H	ISHTAR TV	13845	News + Series
12.646	H	Al Arabiyah	28060	Low Level
12.646	H	AL JAZEERA	28060	Low Level
12.646	H	ART AUSTRALIA	28060	Low Level
12.646	H	ART MOVIES	28060	Low Level
12.646	H	Future TV	28060	Low Level
12.646	H	LBC AUSTRALIA	28060	Low Level
12.646	H	MBC	28060	Low Level
12.646	H	Tele Lumiere	28060	Low Level
12.646	H	ART GLOBAL	28060	Advertisement
12.646	H	ART LATINO	28060	Advertisement
12.646	H	Future News	28060	Low Level
12.646	H	LBC AMERICA	28060	Advertisement
12.646	H	Leonardo World	28060	Advertisement
12.646	H	NBN	28060	Advertisement
12.646	H	NTV	28060	Advertisement
12.646	H	RAI NTSC	28060	Advertisement
12.646	H	RAI PAL Australia	28060	Advertisement
12.646	H	RAI PAL South Amer	28060	Advertisement
12.686	H	CCTV 4	28125	News + Series
12.686	H	Celestial	28125	News + Series
12.686	H	Chong Qing TV	28125	News + Series
12.686	H	Dragon TV	28125	News + Series
12.686	H	Hunan	28125	News + Series
12.686	H	Phoenix Chinese	28125	News + Series
12.686	H	Phoenix InfoNews	28125	News + Series
12.686	H	TVB K/C	28125	News + Series
12.686	H	TVB8	28125	News + Series
12.686	H	TVBJ	28125	News + Series
12.686	H	tvbN	28125	News + Series
12.686	H	TVBS - N	28125	News + Series
12.686	H	TVBS Asia	28125	News + Series
12.686	H	Xing He	28125	News + Series
12.726	H	A1 PLUS	28060	Low Level
12.726	H	BHT	28060	News + Series
12.726	H	BK TV	28060	News + Series
12.726	H	BN TV	28060	News + Series
12.726	H	DM SAT	28060	News + Series
12.726	H	NHK	28060	News + Series
12.726	H	PINK EXTRA	28060	News + Series
12.726	H	PINK PLUS	28060	News + Series
12.726	H	VIKOM	28060	Low Level
12.726	H	BETHEL TV	28060	News + Series
12.726	H	ERI TV	28060	News + Series
12.726	H	KTV	28060	News + Series
12.726	H	Melody Arabia	28060	News + Series
12.726	H	ORANGE TV	28060	News + Series
12.726	H	SYRIA TV	28060	News + Series

INT008KZ

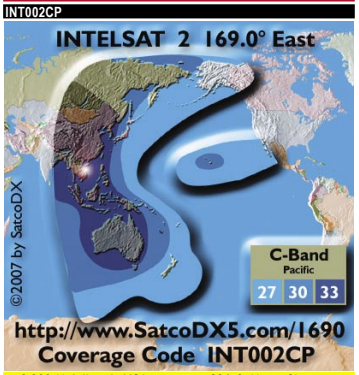


Freq	Pol	Channel Name	Symbol Rate	Programming Type
12.491	V	AriangTV W1	4400	Quality Entertain.
12.500	V	MAC-TV	3069	Quality Entertain.

C-Band: INTELSAT 5

169.0 East

INT002CP



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.860	H	Adhoc I - VC2	26470	Home Cinema
3.860	H	Adhoc II - VC 4	26470	Home Cinema
3.860	H	Australian Broadcast	26470	Quality Entertain.
3.860	H	BBC Asia Pacific	26470	Home Cinema
3.860	H	OU MMX VC7	26470	Advertisement
4.055	H	TVNZ - TVC3	4000	Quality Entertain.

INT005CB

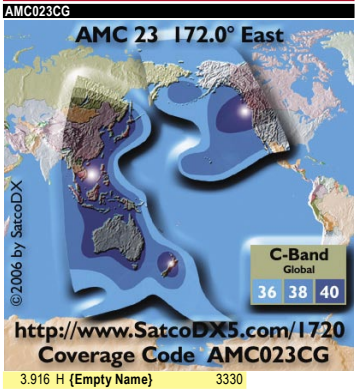


Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.760	H	MCPC Ch.1	25000	Low Level
3.760	H	MCPC Ch.2	25000	Low Level
3.760	H	MCPC Ch.3	25000	Low Level
3.989	H	GLOBECAST IS2&2	3500	Quality Entertain.
4.160	H	Adhoc I - VC2	26480	Home Cinema
4.160	H	Adhoc II - VC 4	26480	Home Cinema
4.160	H	Australian Broadcast	26480	Quality Entertain.
4.160	H	BBC Asia Pacific	26480	Home Cinema
4.160	H	OU MMX VC7	26480	Advertisement

C-Band: GE 232

172.1 East

AMC023CG

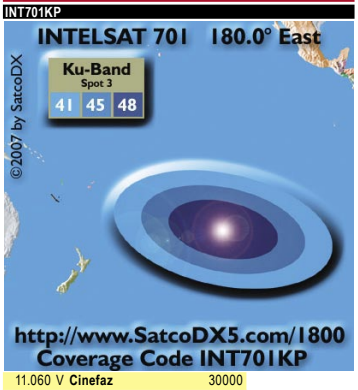


Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.916	H	{Empty Name}	3330	

INTELSAT 701

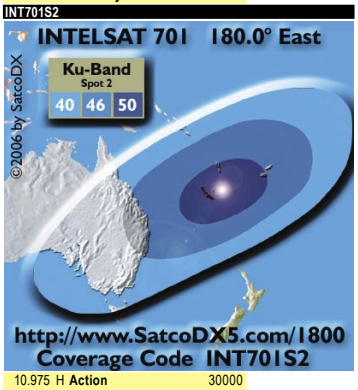
180.0 East

INT701KP



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.060	V	Cinefaz	30000	
11.060	V	Infosport	30000	
11.060	V	LCI	30000	
11.060	V	M6	30000	
11.060	V	M6 Music	30000	
11.060	V	Matavision	30000	
11.060	V	Odyssee	30000	
11.060	V	TeleToon	30000	
11.060	V	TPS Star	30000	
11.060	V	Tahiti Nui TV	30000	
11.136	V	France O	23150	
11.136	V	Malakof	23150	
11.136	V	RFO feeds	23150	
11.136	V	RFO Tempo Nouvelle	23150	
11.136	V	RFO Tempo Polynesie	23150	
11.136	V	Tele Nouvelle Caledo	23150	
11.136	V	Tele Polynesie	23150	
11.136	V	Tele Wallis et Futun	23150	
11.514	V	Cartoon Network	30000	
11.514	V	Cinestar 2	30000	
11.514	V	CNN International	30000	
11.514	V	Mangas	30000	
11.514	V	RFO Tempo Tahiti tes	30000	
11.514	V	RTL 9	30000	
11.514	V	TCM	30000	
11.514	V	Teva	30000	
11.514	V	TF1	30000	
11.514	V	TF6	30000	
11.514	V	TV Polynesie tests	30000	
11.514	V	RFO Tempo Polynesie	30000	
11.514	V	Tele Polynesie	30000	

INT701S2



Freq	Pol	Channel Name	Symbol Rate	Programming Type
10.975	H	Action	30000	
10.975	H	Canal+ Jaune	30000	
10.975	H	Cinefaz	30000	
10.975	H	Cinestar 1	30000	
10.975	H	Eurosport France	30000	
10.975	H	Mezzo	30000	
10.975	H	TF 6	30000	
11.174	H	France O	23150	
11.174	H	Malakof	23150	
11.174	H	RFO Feeds	23150	
11.174	H	RFO Tempo Nouvelle	23150	
11.174	H	RFO Tempo Polynesie	23150	
11.174	H	Tele Nouvelle Caledo	23150	
11.174	H	Tele Polynesie	23150	

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

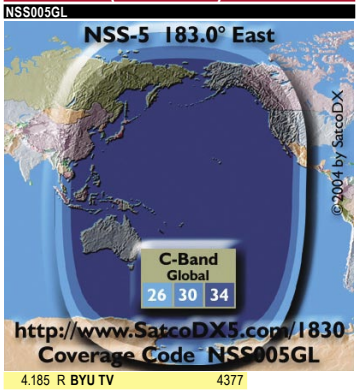
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High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2
Cost Conscious Entertainment ..... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.174	H	Tele Wallis et Futun	23150	
11.610	H	Canal+ Caledonie	30000	
11.610	H	Cartoon Network	30000	
11.610	H	Cine Cinemas	30000	
11.610	H	Disney Channel	30000	
11.610	H	Euronews	30000	
11.610	H	LCI	30000	
11.610	H	LEquipe TV	30000	
11.610	H	M6	30000	
11.610	H	MCM	30000	
11.610	H	Motors	30000	
11.610	H	National Geographic	30000	
11.610	H	Planete	30000	
11.610	H	RFM TV	30000	
11.610	H	RTL 9	30000	
11.610	H	Sport+	30000	
11.610	H	TCM	30000	
11.610	H	Tele Caledonie	30000	
11.610	H	TV5	30000	
11.610	H	Voyage	30000	
11.610	H	XXL	30000	
11.610	H	France O	30000	
12.648	H	BBC World	28066	
12.648	H	Discovery Channel (N	28066	
12.648	H	EWTN (Asia)	28066	
12.648	H	MUTV	28066	
12.648	H	Nickelodeon (New Zea	28066	
12.648	H	Pacific Sports Netwo	28066	
12.648	H	PBS info card	28066	
12.648	H	PTV 1	28066	
12.648	H	SET Asia	28066	
12.648	H	VH1 (Australia)	28066	
12.648	H	Zee Cinema (Australi	28066	
12.648	H	Zee Music (Asia)	28066	
12.648	H	Zee TV (Asia Pacific	28066	

NSS 9

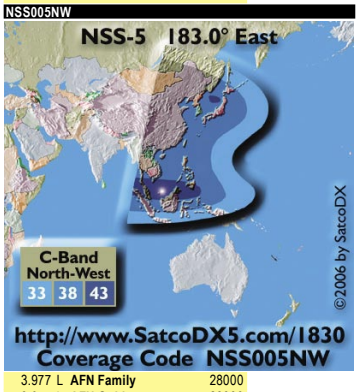
183.0 East (177.0 West)

NSS005GL



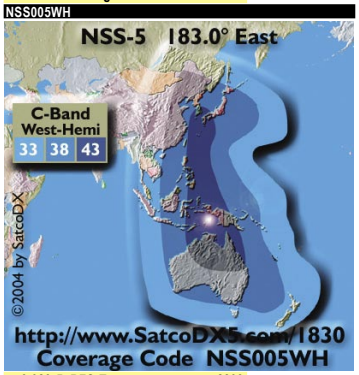
Freq	Pol	Channel Name	Symbol Rate	Programming Type
4.185	R	BYU TV	4377	

NSS005NW



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.977	L	AFN Family	28000	
3.977	L	AFN Guide	28000	
3.977	L	AFN Movies	28000	
3.977	L	AFN News	28000	
3.977	L	AFN Prime Atlantic	28000	
3.977	L	AFN Prime Korea	28000	
3.977	L	AFN Prime Pacific	28000	
3.977	L	AFN Spectrum	28000	
3.977	L	AFN Sports	28000	
3.977	L	Pentagon Channel	28000	

NSS005WH

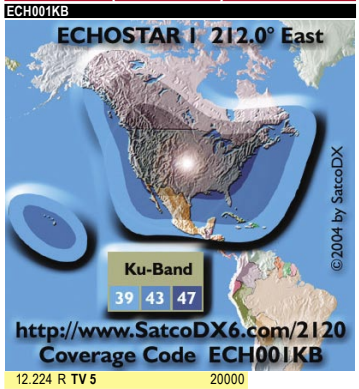


Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.920	R	RFO-Tempo	2893	

ECHOSTAR 2

212.0 East (148.0 West)

ECH001KB

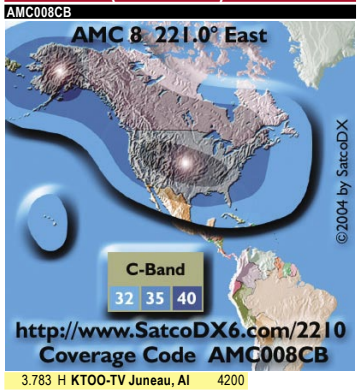


Freq	Pol	Channel Name	Symbol Rate	Programming Type
12.224	R	TV 5	20000	

C-Band: AMC 8

221.0 East (139.0 West)

AMC008CB

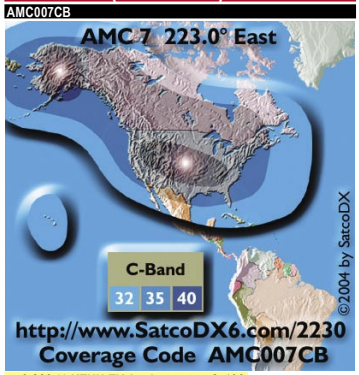


Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.783	H	KTOO-TV Juneau, AI	4200	

C-Band: AMC 7

223.0 East (137.0 West)

AMC007CB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.880	H	KTUU-TV Anchorage	25196	

C-Band: AMC 10

225.0 East (135.0 West)

AMC010CB

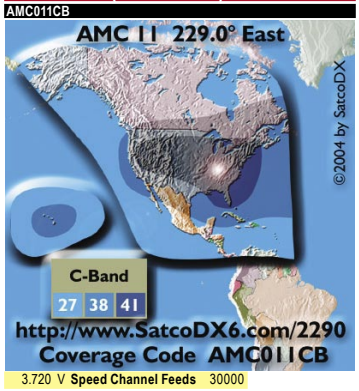


Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.720	V	HGTV East	29270	

C-Band: AMC 11

229.0 East (131.0 West)

AMC011CB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.720	V	Speed Channel Feeds	30000	

ECHOSTAR 5

231.1 East (128.9 West)

ECH005KB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
12.224	R	DishNetwork	21500	

GALAXY 13, HORIZONS 1

233.0 East (127.0 West)

HOR001KB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.720	H	Guangdong TV	26800	

C-Band: GALAXY 14

235.0 East (125.0 West)

GXY014CB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.720	H	TBN HD	26666	

North America

GALAXY 18

237.0 East (123.0 West)

GXY018KB



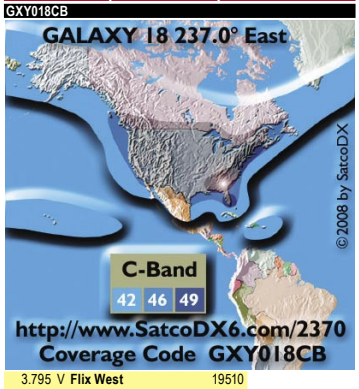
Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.720	V	01 - KMMF	27692	News + Series
11.720	V	04 - KDEV-LP	27692	News + Series
11.720	V	05 - KPBI	27692	News + Series
11.720	V	06 - KBTZ	27692	News + Series
11.720	V	07 - KXUN/KLRA	27692	News + Series
11.720	V	09 - KEYU	27692	Advertisement
11.720	V	10 - KAMT	27692	News + Series
11.720	V	13 - KFDF	27692	News + Series
11.720	V	15 - KEGS	27692	News + Series
11.720	V	16 - KLMN	27692	News + Series
11.731	H	Channel Four	13240	News + Series
11.731	H	Channel One	13240	News + Series
11.731	H	Channel Two	13240	News + Series
● 11.731	H	EES	13240	News + Series
● 11.731	H	VISN 1	13240	News + Series
● 11.731	H	VISN 10	13240	News + Series
● 11.731	H	VISN 12	13240	News + Series
11.731	H	Channel Three-VBA	13240	News + Series
11.798	V	01 - KUWF	26657	News + Series
11.798	V	02 - KTVC	26657	News + Series
11.798	V	03 - KQUP	26657	News + Series
11.798	V	05 - WUMN	26657	News + Series
11.798	V	06 - KKYK	26657	News + Series
11.798	V	08 - KQDK	26657	News + Series
11.798	V	09 - KWKO	26657	News + Series
11.798	V	11 - WPXS	26657	News + Series
11.798	V	15 - KCBU	26657	News + Series
11.798	V	16 - KWBM	26657	News + Series
11.798	V	17 - DAYSTAR	26657	News + Series
11.805	H	Feeds ((Empty Name))	4580	News + Series
11.855	V	3C Community	5000	Advertisement
11.855	V	3CTV	5000	Quality Entertain.
11.855	V	Freedom	5000	Advertisement
11.855	V	TimeShift	5000	Advertisement
11.965	V	AAJ-TV HD	7234	News + Series
11.965	V	AVT KHYBER	7234	News + Series
11.965	V	HUM-TV HD	7234	Low Level
11.965	V	PEACE TV HD	7234	Quality Entertain.
12.078	V	KBS WORLD	3680	Quality Entertain.
12.104	V	SNG	2222	News + Series
12.110	V	Service 2	3400	Quality Entertain.
12.114	V	WRDE	4340	Low Level
12.114	V	RETROJAMS	4340	Quality Entertain.
12.136	V	Service 1	2666	Quality Entertain.
● 12.137	H	Pup Link	6111	Home Cinema

North America

C-Band: GALAXY 18

237.1 East (122.9 West)

GXY018CB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.795	V	Flix West	19510	
3.795	V	Showtime Beyond West	19510	
3.795	V	Showtime Extreme Wes	19510	
3.795	V	Showtime Showcase We	19510	
3.795	V	Showtime Too West	19510	
3.795	V	Showtime West	19510	
3.795	V	Sundance Channel Wes	19510	
3.795	V	The Movie Channel We	19510	
3.795	V	The Movie Channel Xt	19510	
3.812	V	Showtime Family West	9760	
3.812	V	Showtime Next West	9760	
3.812	V	Showtime Women West	9760	
3.837	V	TVN 2	19510	
3.837	V	TVN 3	19510	
3.837	V	TVN 4	19510	
3.837	V	TVN 5	19510	
3.837	V	TVN 6	19510	
3.837	V	TVN 7	19510	
3.837	V	TVN 8	19510	

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
3.837	V	TVN 9	19510	
3.840	V	unknown	26470	
3.920	V	OS Download	26470	
3.920	V	Soap East	26470	
3.920	V	Soap West	26470	
3.920	V	Toon East	26470	
3.920	V	Toon West	26470	
3.920	V	ABC Fam Backhaul	26470	
3.940	V	Playboy TV	19510	
3.940	V	TVND Theatre 16	19510	
3.940	V	TVND Theatre 17	19510	
3.940	V	TVND Theatre 18	19510	
3.940	V	TVND Theatre 19	19510	
3.940	V	TVND Theatre 20	19510	
3.940	V	TVND Theatre 21	19510	
3.940	V	TVND Theatre 22	19510	
3.940	V	TVND Theatre 23	19510	
3.940	V	TVND Theatre 24	19510	
3.960	V	TVN 33	19510	
3.960	V	TVN Action	19510	
3.960	V	TVN Events Electric	19510	
3.960	V	TVN HotBody	19510	
3.960	V	TVN Passion Soft	19510	
3.960	V	TVN TeleNuestros	19510	
3.960	V	GRTV 2	19510	
3.960	V	GRTV 3	19510	
3.960	V	GRTV 4	19510	
3.970	V	Symphonic	11162	
3.975	H	Showtime Family West	19510	
3.975	H	Showtime HDTV West	19510	
3.975	H	Showtime Next West	19510	
3.975	H	Showtime Woman West	19510	
4.100	H	ESPN Classic	29270	
4.100	H	ESPN Desportes	29270	
4.100	H	ESPNews	29270	
4.100	H	Lifetime Movie Netwo	29270	
4.100	H	Lifetime Real Women	29270	
4.100	H	SoapNet	29270	
4.100	H	Toon Disney	29270	
4.100	H	C-SPAN 3	29270	
4.120	V	ESPN PPV1	29270	
4.120	V	ESPN PPV2	29270	
4.120	V	ESPN PPV3	29270	
4.120	V	ESPN PPV4	29270	
4.120	V	ESPN PPV5	29270	
4.120	V	ESPN PPV6	29270	
4.140	H	ESPN 2 HD	29270	
4.140	H	ESPN HD	29270	
4.140	H	ESPN HD Alternate	29270	
4.160	V	A&E East	29270	
4.160	V	A&E West	29270	
4.160	V	Military History Cha	29270	
4.160	V	The History Channel	29270	
4.160	V	The History Channel	29270	
4.160	V	The History Channel	29270	
4.180	H	The Outdoor Channel	29270	
4.180	H	JLTV	29270	
4.180	H	The Outdoor CH Eas	29270	
4.180	H	The Outdoor CH Eas	29270	
4.180	H	The Outdoor CH Wes	29270	
4.180	H	The Outdoor CH Wes	29270	

ECHOSTAR 9

239.0 East (121.0 West)

ECH009KB



12.016	V	SuperDISH Info Car	20000	
12.016	V	DishNetwork Package	20000	

GALAXY 23

239.1 East (120.9 West)

GXY023CB



3.707	H	CLEVELAND	5632	
3.714	H	Cox Sports TV	4340	
3.719	H	TVW 1	3000	
3.724	H	The Sportsmans Chann	3000	
3.727	V	MASN	6065	
3.732	V	In Demand	13235	
3.751	H	ETV Bangla	8385	
3.751	H	ETV Gujarati	8385	
3.751	H	ETV Telugu	8385	
3.765	H	In Demand	19510	
3.778	H	ImaginAsian TV	1860	
3.780	V	In Demand	22500	
3.800	H	Hot Net Plus	19510	
3.800	H	Playboy TV Classic	19510	
3.800	H	Playboy TV en Espano	19510	
3.800	H	Spice Hot	19510	
3.800	H	Spice Live	19510	
3.800	H	Spice Platinum	19510	
3.815	V	TBN Enlace USA	19510	
3.815	V	TV Superstore	19510	
3.832	V	OlympuSat Package	19510	
3.900	V	24HTVE	27684	
3.900	V	DOCUTVE	27684	
3.900	V	TVEA1	27684	
3.900	V	TVEA2	27684	
3.900	V	AJE	27684	
3.900	V	EURONEWS	27684	
3.900	V	IMF	27684	
3.940	V	APTN Test Card	29270	
3.940	V	Video Rola	29270	
3.940	V	Cine Latino	29270	
3.940	V	HTV	29270	
3.940	V	Infinito	29270	
3.940	V	Telefe Internacional	29270	
3.940	V	Utilisima Satelital	29270	
3.940	V	ZEE TV USA	29270	
3.970	H	The Sportsmans Chann	14027	
3.980	V	AE Biography MPEG	27690	
3.980	V	CNBC2 MPEG Audio	27690	
3.980	V	DIY MPEG Audio	27690	
3.980	V	History Channel In	27690	
3.980	V	IFC MPEG Audio	27690	
3.980	V	Lifetime MPEG Audi	27690	
3.980	V	ZDTV MPEG Audio	27690	
3.980	V	Much Music MPEG Au	27690	
4.000	H	Playboy Director's C	19510	
4.000	H	Si TV	19510	
4.000	H	Spice	19510	
4.000	H	Spice 2	19510	
4.000	H	The Hot Network	19510	
4.000	H	The Hot Zone	19510	
4.000	H	The Tennis Channel	19510	
4.060	V	AMERICA ONE	20000	
4.060	V	FIRESTONE COMMUNI	20000	
4.060	V	SORPRESSA	20000	
4.060	V	STC	20000	
4.100	V	Gospel Music	29270	
4.100	V	JCTV	29270	
4.100	V	TBN US	29270	
4.100	V	The Church Channel	29270	
4.140	V	Azteca America Este	25325	
4.140	V	Azteca America Oeste	25325	
4.140	V	Azteca Siete	25325	
4.140	V	Azteca Trece	25325	
4.160	H	A Taste of Spice	19510	
4.160	H	Spice Live	19510	
4.160	H	Spice Ultimate	19510	
4.172	V	Pleasure	14600	
4.172	V	TEN	14600	
4.172	V	TENBlox	14600	
4.172	V	TENBlue	14600	
4.172	V	TENClips	14600	
4.172	V	TENXtsy	14600	
4.186	V	HITN	5184	
4.186	V	HITN CH2	5184	

ECHOSTAR 7, ANIK F3

241.0 East (119.0 West)

ECH007KB



11.715	R	ETDRA	20000	News + Series
11.715	R	ETGLB	20000	Quality Entertain.
11.715	R	ETNEW	20000	News + Series
11.715	R	ITST1	20000	Advertisement
11.715	R	RPN9	20000	Low Level
11.715	R	YOYO	20000	Advertisement
11.715	R	ATV	20000	Advertisement
11.715	R	NBN4	20000	Advertisement
11.715	R	VIVA	20000	Advertisement
● 11.728	L	AFROM	20000	Low Level
11.728	L	AHTV	20000	News + Series
11.728	L	ARMTV	20000	News + Series
11.728	L	CQTV	20000	Quality Entertain.
11.728	L	DREAM	20000	Low Level
11.728	L	EURNS	20000	News + Series
11.728	L	IMAGN	20000	News + Series
11.728	L	SZTV	20000	Quality Entertain.
11.728	L	TV9	20000	News + Series
11.745	R	CHNLI	20000	Quality Entertain.
11.745	R	KAIRA	20000	News + Series
11.745	R	NTV	20000	News + Series
11.745	R	RTV	20000	News + Series
11.745	R	TEJA	20000	Low Level
11.745	R	TRACE	20000	News + Series
11.745	R	TV5	20000	News + Series
11.745	R	TVIET	20000	Low Level
11.745	R	INFO	20000	News + Series
11.789	L	BEJTV	20000	Advertisement
11.789	L	CCENT	20000	Advertisement
11.789	L	CCMOV	20000	Advertisement
11.789	L	CCOPR	20000	Advertisement
11.789	L	CYRTV	20000	Advertisement
11.789	L	FUJTV	20000	Advertisement
11.789	L	HUNAN	20000	Advertisement
● 11.789	L	JAYA	20000	Advertisement
11.789	L	JIC	20000	Advertisement
11.806	R	AAGTV	20000	News + Series
11.806	R	CHNLV	20000	Advertisement
11.806	R	EURCH	20000	Advertisement
11.806	R	GEMNI	20000	News + Series
11.806	R	GEONW	20000	News + Series
11.806	R	STARC	20000	News + Series
11.806	R	STARM	20000	Advertisement
11.806	R	SURYA	20000	News + Series
11.806	R	D118	20000	Advertisement
11.959	R	ARANG	20000	Low Level
11.959	R	ARTSP	20000	Low Level
11.959	R	BBCAR	20000	Low Level
11.959	R	BTN	20000	News + Series
11.959	R	HKYAT	20000	News + Series
11.959	R	JSTV	20000	Low Level
11.959	R	KBS	20000	News + Series
11.959	R	ONGME	20000	News + Series
11.959	R	STAR+	20000	Quality Entertain.
11.959	R	STAR1	20000	News + Series
11.959	R	UDAYA	20000	Quality Entertain.
11.959	R	WOWTV	20000	News + Series
11.989	R	AGAPY	20000	Low Level
11.989	R	ATN	20000	News + Series
11.989	R	CCTV4	20000	News + Series
11.989	R	DWTV	20000	News + Series
11.989	R	ETCHI	20000	Advertisement
11.989	R	GKINO	20000	News + Series
● 11.989	R	GRMSP	20000	News + Series
11.989	R	JET	20000	News + Series
11.989	R	PHNIX	20000	Low Level
11.989	R	PRSBN	20000	News + Series
11.989	R	XTV	20000	Quality Entertain.
12.002	L	ANTEN	20000	News + Series
12.002	L	ANTGO	20000	Low Level
12.002	L	BLUE	20000	Quality Entertain.
12.002	L	GMAL	20000	News + Series
12.002	L	GMAP	20000	Quality Entertain.
12.002	L	HT	20000	News + Series
12.002	L	HTBA	20000	Quality Entertain.
12.002	L	PFC	20000	News + Series
12.002	L	ZEETV	20000	News + Series
12.033	L	AAJTK	20000	News + Series
12.033	L	ART	20000	Low Level
12.033	L	B4U	20000	News + Series
12.033	L	IQRAA	20000	News + Series
12.033	L	SAMAY	20000	News + Series
12.033	L	SET	20000	News + Series
12.033	L	SHARA	20000	Quality Entertain.
12.033	L	TV9TE	20000	News + Series
12.033	L	TVASA	20000	News + Series
12.033	L	TVSLZ	20000	Quality Entertain.
12.050	R	ALJAZ	20000	News + Series
12.050	R	ARTMV	20000	News + Series
12.050	R	B4UMU	20000	Quality Entertain.
12.050	R	DANDA	20000	News + Series
12.050	R	DUBSP	20000	Quality Entertain.
12.050	R	FUTUR	20000	News + Series
● 12.050	R	INTL1	20000	Low Level
12.050	R	LBC	20000	Low Level
12.050	R	MLODY	20000	News + Series
12.050	R	MZIKA	20000	News + Series
12.063	L	PACVI	20000	Home Cinema
12.063	L	BVISN	20000	News + Series
12.063	L	CCTV9	20000	News + Series
12.063	L	CCTVE	20000	News + Series
12.063	L	DRAGN	20000	News + Series
12.063	L	EKSHY	20000	News + Series
12.063	L	GUAND	20000	News + Series
12.063	L	MAATV	20000	News + Series
12.063	L	MH1	20000	News + Series
12.063	L	RES	20000	Low Level
12.063	L	SAB	20000	News + Series
12.063	L	TVONE	20000	Low Level
12.081	R	CTS	20000	Low Level
12.081	R	CTV	20000	News + Series
● 12.081	R	DAWN	20000	News + Series
12.081	R	ICBLE	20000	News + Series
12.081	R	PHNIN	20000	Low Level
12.081	R	SETI	20000	Quality Entertain.
12.081	R	SKLNK	20000	News + Series
12.081	R	SLNK2	20000	News + Series
12.081	R	TTV	20000	News + Series
12.081	R	ZTV	20000	Quality Entertain.
12.094	L	ABUDA	20000	Quality Entertain.
12.094	L	ALARA	20000	News + Series
12.094	L	APUNJ	20000	News + Series
12.094	L	DUBAI	20000	News + Series
12.094	L	KINO	20000	News + Series
12.094	L	MBC	20000	News + Series
12.094	L	NBN	20000	News + Series
12.094	L	NILE	20000	News + Series
12.094	L	NORST	20000	Low Level
12.094	L	PNJBI	20000	News + Series
12.111	R	ARYDI	20000	Low Level
12.111	R	ARYNW	20000	Low Level
12.111	R	ESC-1	20000	News + Series
12.111	R	GEOTV	20000	News + Series
12.111	R	NEWTV	20000	News + Series
12.111	R	PTV	20000	News + Series
12.111	R	RAI	20000	News + Series
12.111	R	RKINO	20000	News + Series
12.111	R	SETMX	20000	Quality Entertain.
12.111	R	ZCINE	20000	News + Series
12.124	L	ARYMK	20000	News + Series
12.124	L	INDMU	20000	Quality Entertain.
12.124	L	ISMOV	20000	Low Level
12.124	L	ITVN	20000	Low Level
12.124	L	PLSAT	20000	News + Series
12.124	L	QTV	20000	News + Series
12.124	L	RAINW	20000	News + Series
12.124	L	TVCI	20000	News + Series
12.124	L	TVJPN	20000	News + Series
12.142	R	INTER	20000	Advertisement
12.142	R	GLBL1	20000	Advertisement
12.142	R	INDUS	20000	Advertisement
12.142	R	ISRLI	20000	Advertisement
12.142	R	JUS	20000	Advertisement
12.142	R	K TV	20000	Advertisement
12.142	R	RTVI	20000	Advertisement
12.142	R	SUNTV	20000	Advertisement
12.142	R	VIDIT	20000	Advertisement
12.155	L	ERT	20000	Advertisement
12.155	L	GLOBO	20000	Advertisement
12.155	L	GPUNJ	20000	Advertisement
12.155	L	RBTI	20000	Advertisement
12.155	L	RCORD	20000	Advertisement
12.155	L	RTPI	20000	Advertisement
12.155	L	RTVI+	20000	Advertisement
12.155	L	SICNO	20000	Advertisement
12.155	L	SPT	20000	Advertisement
12.155	L	TVN24	20000	Advertisement
12.224	R	WATM	20000	Low Level
12.224	R	WBRE	20000	News + Series
12.224	R	WFME	20000	Low Level
12.224	R	WKBS	20000	Low Level
12.224	R	WNEP	20000	News + Series
12.224	R	WNET	20000	Low Level
12.224	R	WOLF	20000	Low Level
12.224	R	WQMY	20000	Low Level
12.224	R	WSWB	20000	Low Level
12.224	R	WTAJ	20000	Quality Entertain.
12.224	R	WVIA	20000	News + Series
12.224	R	WWCP	20000	Low Level
12.224	R	WXTV	20000	Low Level
12.224	R	WYOU	20000	Quality Entertain.
12.253	R	WCTX	20000	News + Series
12.253	R	WEDH	20000	Low Level
12.253	R	WETA	20000	News + Series
12.253	R	WFDC	20000	News + Series
12.253	R	WHAG	20000	News + Series
12.253	R	WHCT	20000	News + Series
12.253	R	WHUT	20000	News + Series
12.253	R	WJAL	20000	Low Level
12.253	R	WNVC	20000	Low Level
12.253	R	WNVT	20000	Low Level
12.253	R	WTXX	20000	Quality Entertain.
12.253	R	WUVN	20000	Quality Entertain.
12.253	R	WVPT	20000	News + Series
12.253	R	WVPY	20000	News + Series
● 12.297	L	DISW	20000	Low Level
12.297	L	DISXD	20000	News + Series
● 12.297	L	FLIX	20000	News + Series
12.297	L	FOOD	20000	News + Series
12.297	L	FXNWS	20000	Low Level
12.297	L	HBO2E	20000	Low Level
12.297	L	HGTV	20000	Low Level
● 12.297	L	IFC	20000	Low Level
12.297	L	MTV	20000	News + Series
● 12.297	L	RAI	20000	Low Level
12.297	L	SHO-E	20000	Quality Entertain.
12.297	L	TRV	20000	News + Series
12.297	L	TWC	20000	News + Series
12.326	L	A&E	20000	Low Level
12.326	L	AMC	20000	News + Series
12.326	L	CMT	20000	News + Series
12.326	L	DISC	20000	News + Series
12.326	L	E!	20000	Low Level
12.326	L	GAME	20000	Low Level
12.326	L	HBOFM	20000	Low Level
12.326	L	PBS	20000	News + Series
12.326	L	SHO-W	20000	Quality Entertain.
12.326	L	SYFY	20000	Low Level
12.326	L	TLC	20000	Low Level
12.326	L	TNT	20000	News + Series
12.370	R	BTV	20000	News + Series
12.370	R	C&T	20000	News + Series
12.370	R	CSPAN	20000	Low Level
12.370	R	CSPN2	20000	Low Level
12.370	R	EWTN	20000	Low Level
12.370	R	HSN	20000	Low Level
12.370	R	ICTV	20000	Low Level
12.370	R	NAUHS	20000	News + Series
12.370	R	QVC	20000	Low Level
12.370	R	REELZ	20000	Quality Entertain.
12.370	R	SHNBC	20000	Low Level
12.370	R	SRI	20000	News + Series
12.370	R	TBN	20000	News + Series
12.370	R	TST	20000	Low Level
12.370	R	UCTV	20000	Home Cinema
12.370	R	NASA	20000	Low Level
12.370	R	ORDER	20000	Advertisement
● 12.384	L	ALT	20000	Low Level
● 12.384	L	ALT10	20000	Low Level
12.384	L	BBCA	20000	News + Series
12.384	L	DISE	20000	News + Series
12.384	L	DYSTR	20000	News + Series
12.384	L	FOXD	20000	News + Series
12.384	L	FOXPT	20000	Low Level
● 12.384	L	FOXSW	20000	News + Series
12.384	L	FX	20000	News + Series
12.384	L	NBA	20000	Advertisement
● 12.384	L	NHL	20000	Low Level
12.384	L	SKDL	20000	Low Level
12.384	L	STO	20000	Quality Entertain.
12.384	L	SUN	20000	News + Series
12.384	L	SUND	20000	News + Series
● 12.384	L	WE	20000	News + Series
12.399	R	CMDY	20000	News + Series
12.399	R	CNBC	20000	News + Series
12.399	R	HBO2W	20000	Low Level
12.399	R	LIFE	20000	Low Level
12.399	R	MSNBC	20000	Low Level
12.399	R	OXYGN	20000	News + Series

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

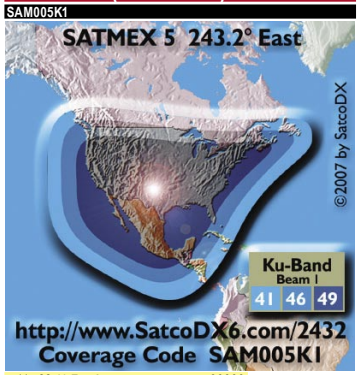
Cost Conscious Entertainment .... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
●12.399	R	SPORT	20000	Low Level
12.399	R	TBS	20000	News + Series
12.399	R	TCM	20000	Low Level
12.399	R	TVLND	20000	News + Series
12.399	R	USA	20000	Low Level
12.399	R	VH1	20000	Quality Entertain.
●12.399	R	SPORT	20000	Advertisement
12.414	L	ENCOR	20000	News + Series
12.414	L	HRTV	20000	Advertisement
●12.414	L	NKJR	20000	News + Series
12.414	L	SBLCK	20000	News + Series
12.414	L	SCINE	20000	News + Series
12.414	L	SEDGE	20000	Low Level
12.414	L	SK&FM	20000	News + Series
12.414	L	STARZ	20000	Quality Entertain.
12.414	L	TVGN	20000	News + Series
12.414	L	CSNNE	20000	Advertisement
12.414	L	ION	20000	Advertisement
12.414	L	KPXE	20000	Advertisement
12.414	L	KPXL	20000	Advertisement
12.414	L	KPXM	20000	Advertisement
●12.414	L	NBA	20000	Advertisement
12.414	L	TVGUI	20000	Advertisement
12.414	L	WBPX	20000	Advertisement
12.414	L	WEPX	20000	Advertisement
12.414	L	WGPX	20000	Advertisement
12.414	L	WHPX	20000	Advertisement
12.414	L	WIPX	20000	Advertisement
12.414	L	WLPX	20000	Advertisement
12.414	L	WNPX	20000	Advertisement
12.414	L	WOPX	20000	Advertisement
12.414	L	WPPX	20000	Advertisement
12.414	L	WPXC	20000	Advertisement
12.414	L	WPXD	20000	Advertisement
12.414	L	WPXE	20000	Advertisement
12.414	L	WPXH	20000	Advertisement
12.414	L	WPXJ	20000	Advertisement
12.414	L	WPXK	20000	Advertisement
12.414	L	WPXN	20000	Advertisement
12.414	L	WPXQ	20000	Advertisement
12.414	L	WPXR	20000	Advertisement
12.414	L	WPXV	20000	Advertisement
12.414	L	WPXW	20000	Advertisement
12.414	L	WQPX	20000	Advertisement
12.414	L	WRPX	20000	Advertisement
12.414	L	WSPX	20000	Advertisement
12.414	L	WTPXD	20000	Advertisement
12.414	L	WUPX	20000	Advertisement
12.414	L	WVPX	20000	Advertisement
12.414	L	WYPX	20000	Advertisement
12.414	L	WZPX	20000	Advertisement
●12.414	L	XTSY	20000	Advertisement
●12.457	R	NHL	20000	Low Level
12.457	R	ALOCK	20000	Low Level
●12.457	R	ALT	20000	Advertisement
●12.457	R	ALTUD	20000	Advertisement
12.457	R	CH101	20000	Advertisement
12.457	R	CSA	20000	Advertisement
●12.457	R	CSNBA	20000	Advertisement
●12.457	R	CSNCH	20000	Advertisement
12.457	R	DHLTH	20000	Advertisement
12.457	R	DNFYI	20000	Advertisement
12.457	R	ITVGV	20000	Advertisement
12.457	R	MAX-E	20000	Advertisement
12.457	R	MAX-W	20000	Advertisement
12.457	R	MOMAX	20000	Advertisement
●12.457	R	NBA	20000	Advertisement
●12.457	R	NHL	20000	Advertisement
12.457	R	PPV	20000	Advertisement
12.457	R	SPEED	20000	Advertisement
12.457	R	TVGAM	20000	Advertisement
●12.472	L	NBA	20000	Low Level
●12.472	L	NHL	20000	Low Level
●12.472	L	ALT	20000	Advertisement
●12.472	L	ALT10	20000	Advertisement
12.472	L	CSNMA	20000	Advertisement
12.472	L	EPSK1	20000	Advertisement
●12.472	L	EPSK2	20000	Advertisement
●12.472	L	ESP2A	20000	Advertisement
12.472	L	ESPNA	20000	Advertisement
12.472	L	FOXCN	20000	Advertisement
12.472	L	FOXMW	20000	Advertisement
12.472	L	FOXN	20000	Advertisement
12.472	L	NBA	20000	Advertisement
●12.472	L	NHL	20000	Advertisement
12.472	L	SKDL	20000	Advertisement
12.472	L	SNY	20000	Advertisement
12.472	L	WGN	20000	Advertisement
12.486	R	CNN	20000	News + Series
12.486	R	HBO-W	20000	Quality Entertain.
●12.486	R	HLN	20000	Quality Entertain.
12.486	R	SHOTO	20000	News + Series
12.501	L	CW	20000	News + Series
12.501	L	CW-W	20000	Low Level
12.501	L	KTLA	20000	Low Level
12.501	L	KWGN	20000	News + Series
12.501	L	OTDCH	20000	News + Series
12.501	L	WABC	20000	News + Series
12.501	L	WCBS	20000	Quality Entertain.
12.501	L	WNBC	20000	Low Level
12.501	L	WNYW	20000	News + Series
12.501	L	WPIX	20000	News + Series
12.501	L	WSBK	20000	News + Series
12.501	L	WSFL	20000	Low Level
12.501	L	WWOR	20000	Low Level
12.501	L	XETV	20000	Low Level
12.516	R	FOXAZ	20000	Low Level
12.516	R	FOXFL	20000	Quality Entertain.
●12.516	R	FOXNW	20000	News + Series
12.516	R	FOXOH	20000	Quality Entertain.
12.516	R	FOXW	20000	Quality Entertain.
12.516	R	MASN	20000	Low Level
12.516	R	MSG	20000	News + Series
●12.516	R	NBA	20000	Low Level
12.516	R	NESN	20000	News + Series
●12.516	R	NHL	20000	Low Level
12.516	R	SITV	20000	Low Level
12.516	R	ZEESA	20000	News + Series

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
12.516	R	ANGEL	20000	Low Level

SATMEX 5
243.2 East (116.8 West)

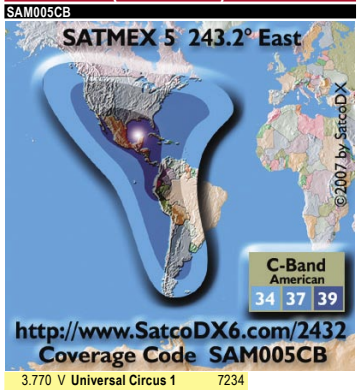
SAM005K1



11.722	H	Feed	30000	
12.024	H	ESNE	3000	
12.028	H	Almavision	3255	
12.033	H	Test Card	2532	
12.049	V	Feed	1977	
12.060	V	TV Azteca feeds	5926	
12.075	V	Test Card	3025	
12.080	H	CCTV 4	25635	
12.080	H	CTI TV	25635	
12.080	H	TV Polonia	25635	
12.080	H	Azio TV	25635	
12.080	H	Da Ai TV	25635	
12.080	H	ERA News	25635	
12.080	H	Hwazan Satellite TV	25635	
12.080	H	MAC TV Info Card	25635	
12.080	H	Senal Columbia	25635	
12.080	H	Tele Amiga Internaci	25635	
12.080	H	TeleCaribe	25635	
12.110	H	Feed	2000	
12.164	H	BYU TV	3935	
12.182	V	MTY 1	9666	
12.182	V	MTY 2	9666	
12.182	V	MTY 3	9666	
12.182	V	UVE 1	9666	
12.182	V	UVE 2	9666	
12.196	V	CEM 1	3333	
12.196	V	CEM 2	3333	

SATMEX 5
243.2 East (116.8 West)

SAM005CB

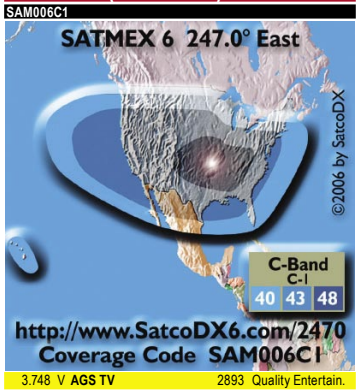


3.770	V	Universal Circus 1	7234	
3.770	V	Universal Circus 2	7234	
3.770	V	Universal Circus 3	7234	
3.800	V	Animal Planet	29270	
3.800	V	CNI Canal 40	29270	
3.800	V	Discovery Health	29270	
3.800	V	Discovery Kids	29270	
3.800	V	ESPN	29270	
3.800	V	Hallmark	29270	
3.800	V	IPN Canal 11	29270	
3.800	V	MTV	29270	
3.800	V	People & Arts	29270	
3.800	V	Travel & Adventure	29270	
3.840	V	Casa Club	29270	
3.840	V	Cinema Platino	29270	
3.840	V	Film & Arts	29270	
3.840	V	InteliTV	29270	
3.840	V	MGM	29270	
3.840	V	National Geographic	29270	
3.840	V	Nickelodeon	29270	
3.840	V	Ponchivision	29270	
3.840	V	Telemundo	29270	
3.840	V	Venevision Continent	29270	
3.855	H	CB TV	2600	
3.905	V	Sports Book	2975	
3.913	V	Sotel Canal 11	2947	
3.918	V	CNI Canal 40 - XHT	3329	
3.935	V	Hipodromo de Preside	4440	
3.935	V	Test Card	4440	
3.960	V	Azteca 13 Mexico C	25325	
3.960	V	Azteca 7 Mexico Ci	25325	
3.960	V	Azteca America Este	25325	
3.960	V	Azteca America Oeste	25325	
3.980	H	Monte Maria TV	1850	
3.985	V	Tele Ritmo	3183	
3.989	V	Multimedios	2967	
3.997	V	XEIMT Canal 22	3255	
4.001	V	RGT TV Digital	2670	
4.006	V	Ecuavisa	3516	
4.011	V	Latinoamerica TV	3131	

4.014	V	TeVe de Mente	2530	
4.038	V	Video Rola	3364	
4.044	V	Ocho TV	2893	
4.052	V	TV Mexiquense XHTP	4307	
4.060	H	Canal 22 Mexico Ci	19510	
4.060	H	Canal de Congreso (V	19510	
4.060	H	Gobierno de la Repub	19510	
4.060	H	Test Card (VC811)	19510	
4.060	H	XEIPN - Once TV (V	19510	
4.084	H	Guate Vision	3162	
4.103	H	CNC Columbia	2593	
4.107	H	Teleformula	2012	
4.133	H	Canal 9	3617	
4.160	V	CMC	29270	
4.160	V	ESPN 2	29270	
4.160	V	Fox Sports	29270	
4.160	V	HSE	29270	
4.160	V	Momentum	29270	
4.160	V	Movie World	29270	
4.160	V	PHTV	29270	
4.160	V	TVC	29270	
4.160	V	Vacante	29270	
4.164	H	Edusat feeds	1733	
4.180	H	CI@se - Canal 22	19510	
4.180	H	Discovery Kids - Can	19510	
4.180	H	Canal 13 (VC792)	19510	
4.180	H	Canal 14 (VC793)	19510	
4.180	H	Canal 15 (VC794)	19510	
4.180	H	Canal 17	19510	
4.180	H	Canal 18	19510	
4.180	H	SEA y EMSAD - Can	19510	
4.180	H	Telesecundaria - Can	19510	
4.180	H	The History Channe	19510	

SATMEX 6
247.0 East (113.0 West)

SAM006C1



3.748	V	AGS TV	2893	Quality Entertain.

ANIK F2
248.9 East (111.1 West)

ANI0F2CB



3.960	H	Unknown	27903	

North America
ECHOSTAR 10,11
250.0 East (110.0 West)

ECH003KB



12.224	R	AZTCA	20000	Low Level
12.224	R	CHILR	20000	Low Level
12.224	R	CURNT	20000	Low Level
12.224	R	EMYST	20000	Low Level
12.224	R	FTRAE	20000	News + Series
12.224	R	FTRAW	20000	News + Series
12.224	R	HISTI	20000	News + Series
●12.224	R	HMC	20000	Low Level
12.224	R	IONW	20000	Low Level
12.224	R	KPXN	20000	Low Level
12.224	R	KPXO	20000	Low Level
12.224	R	NOTAX	20000	Advertisement
12.224	R	OVATN	20000	News + Series
12.224	R	PCLAS	20000	News + Series
12.224	R	PELIC	20000	News + Series
12.224	R	SLTH	20000	News + Series
12.224	R	UNVSW	20000	News + Series
12.239	L	ACDEM	20000	Home Cinema
12.239	L	BITV	20000	News + Series
12.239	L	BITVV	20000	News + Series
12.239	L	HIDEF	20000	Low Level
12.239	L	KTV	20000	Quality Entertain.
12.239	L	LMN	20000	News + Series
12.239	L	NOTAX	20000	Low Level
12.239	L	PPV	20000	Low Level
12.239	L	PREVW	20000	Advertisement
12.239	L	RTLR	20000	News + Series
12.239	L	SPORT	20000	Low Level
●12.239	L	LMN	20000	News + Series
12.253	R	ANGL2	20000	News + Series
12.253	R	BABY	20000	News + Series
12.253	R	BYUTV	20000	News + Series
12.253	R	COLRS	20000	News + Series
12.253	R	DISH	20000	Low Level
12.253	R	DOC	20000	Low Level
12.253	R	FRESH	20000	Low Level
12.253	R	HITN	20000	Quality Entertain.
12.253	R	JTV	20000	Low Level
12.253	R	PLBYE	20000	News + Series
●12.253	R	REAL	20000	News + Series
●12.253	R	RKTV	20000	News + Series
12.253	R	RSRCH	20000	News + Series
12.253	R	TEST1	20000	News + Series
12.253	R	TEST2	20000	News + Series
12.253	R	TEST3	20000	Low Level
12.253	R	VERIA	20000	Low Level
12.268	L	WCNY	20000	News + Series
12.268	L	WCWN	20000	News + Series
12.268	L	WMHT	20000	Low Level
12.268	L	WNYS	20000	Low Level
12.268	L	WNYT	20000	Quality Entertain.
12.268	L	WRGB	20000	Quality Entertain.
12.268	L	WSTM	20000	Quality Entertain.
12.268	L	WSTQ	20000	News + Series
12.268	L	WSYR	20000	News + Series
12.268	L	WSYT	20000	Quality Entertain.
12.268	L	WTEN	20000	News + Series
12.268	L	WTVH	20000	Low Level
12.268	L	WXXA	20000	Low Level
●12.282	R	BIO	20000	News + Series
12.282	R	CBS C	20000	Low Level
12.282	R	DIY	20000	News + Series
12.282	R	DOMIN	20000	News + Series
12.282	R	EACTN	20000	Low Level
12.282	R	ESPND	20000	News + Series
12.282	R	FLN	20000	Low Level
12.282	R	G4	20000	News + Series
12.282	R	HISTE	20000	Quality Entertain.
12.282	R	MIL	20000	News + Series
12.282	R	RLTY	20000	News + Series
12.282	R	TENIS	20000	Quality Entertain.
12.282	R	TMNDO	20000	Quality Entertain.
12.282	R	TOONW	20000	Low Level
●12.297	L	$1.99	20000	News + Series
12.297	L	EDRAM	20000	Low Level
12.297	L	LTD18	20000	Advertisement
12.297	L	PPV	20000	News + Series
12.297	L	SETA	20000	News + Series
12.297	L	SPORT	20000	Low Level
12.297	L	TELAM	20000	Low Level
12.297	L	TVCOL	20000	News + Series
12.297	L	ORDER	20000	Advertisement
12.341	R	BIG10	20000	News + Series
12.341	R	CTN	20000	News + Series
12.341	R	DSCE	20000	Low Level
12.341	R	GOLF	20000	Quality Entertain.
12.341	R	GREEN	20000	Quality Entertain.
●12.341	R	ID	20000	Low Level
12.341	R	LTD10	20000	Low Level
12.341	R	LTD3	20000	Advertisement
12.341	R	MUN2	20000	News + Series
12.341	R	NBATV	20000	Low Level
12.341	R	SUR	20000	Low Level
12.341	R	TFMLA	20000	Low Level
12.341	R	TLHIT	20000	Quality Entertain.
12.341	R	TVEI	20000	Low Level
12.355	L	ALIVE	20000	News + Series
12.355	L	ASCC	20000	Low Level
12.355	L	BTV	20000	News + Series
12.355	L	FSTV	20000	Low Level
12.355	L	GEMS	20000	News + Series
12.355	L	GEMTV	20000	Low Level
12.355	L	IAD3	20000	Low Level
12.355	L	IAD4	20000	News + Series
12.355	L	LINK	20000	Low Level
12.355	L	LSHOP	20000	News + Series
12.355	L	MERC	20000	News + Series
●12.355	L	PPV	20000	Low Level
12.355	L	SHOP	20000	Low Level
●12.355	L	ASHOW	20000	Advertisement
12.355	L	D500	20000	Advertisement
12.355	L	DISH6	20000	Low Level
12.355	L	DVRDN	20000	News + Series
12.355	L	DVRVR	20000	Low Level
12.355	L	IAD2	20000	Low Level
12.355	L	IAD5	20000	News + Series
12.355	L	IAD9	20000	News + Series
●12.355	L	LATIN	20000	News + Series
12.355	L	ORDER	20000	Advertisement
12.355	L	SRN	20000	Low Level
12.370	R	CINEL	20000	Low Level
12.370	R	CNNES	20000	News + Series
12.370	R	DKIDS	20000	Low Level
12.370	R	FSC	20000	News + Series

TV FTA — DVB-S MPEG-2 — DVB-S MPEG-4 — DVB-S2 MPEG-2 — DVB-S2 MPEG-4

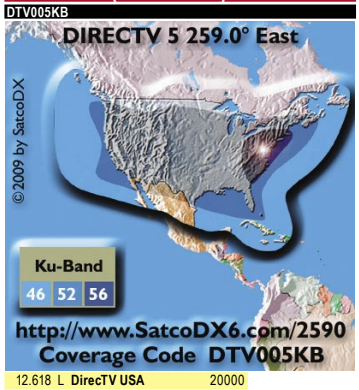
TV CRYPT — DVB-S MPEG-2 — DVB-S MPEG-4 — DVB-S2 MPEG-2 — DVB-S2 MPEG-4

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
12.370	R	FSESP	20000	Quality Entertain.
● 12.370	R	GAC	20000	News + Series
12.370	R	HLMRK	20000	News + Series
12.370	R	HTV	20000	Low Level
12.370	R	LTD15	20000	Advertisement
12.370	R	NTGEO	20000	Low Level
12.370	R	SCI	20000	News + Series
12.370	R	SOAP	20000	Low Level
12.370	R	STYLE	20000	News + Series
12.370	R	TMDOW	20000	Quality Entertain.
● 12.370	R	TNCK	20000	Low Level
12.384	L	KYW	20000	Quality Entertain.
12.384	L	WCAU	20000	Low Level
12.384	L	WFMZ	20000	Low Level
12.384	L	WHYY	20000	Low Level
12.384	L	WMCND	20000	News + Series
12.384	L	WMGM	20000	Low Level
12.384	L	WNJS	20000	Low Level
12.384	L	WPHL	20000	Low Level
12.384	L	WPSG	20000	Low Level
12.384	L	WPVI	20000	News + Series
12.384	L	WTVE	20000	News + Series
12.384	L	WTXF	20000	News + Series
12.384	L	WUVP	20000	News + Series
12.384	L	WWSI	20000	News + Series
12.414	L	PPV	20000	Quality Entertain.
12.414	L	SPORT	20000	Low Level
12.428	R	5-MAX	20000	Low Level
12.428	R	ACMAX	20000	Quality Entertain.
12.428	R	BOOM	20000	Low Level
12.428	R	ENCRW	20000	Low Level
12.428	R	EWSTN	20000	News + Series
12.428	R	FOXMO	20000	Low Level
● 12.428	R	FUEL	20000	Low Level
12.428	R	HBOCY	20000	Low Level
12.428	R	NHLN	20000	Low Level
12.428	R	NICKT	20000	News + Series
12.428	R	SBYND	20000	Low Level
12.428	R	SPORT	20000	Quality Entertain.
12.428	R	STRZW	20000	Quality Entertain.
12.428	R	STZC	20000	News + Series
12.443	L	ALT	20000	Low Level
12.443	L	CBBIS	20000	Low Level
12.443	L	CSNCA	20000	News + Series
12.443	L	DRMT5	20000	News + Series
12.443	L	DRMT9	20000	Low Level
12.443	L	ELOVE	20000	Low Level
12.443	L	NBA	20000	Low Level
● 12.443	L	NFLRZ	20000	Quality Entertain.
● 12.443	L	NHL	20000	Low Level
12.443	L	PPV	20000	News + Series
12.443	L	PRIME	20000	News + Series
12.443	L	PSNES	20000	News + Series
12.443	L	SPORT	20000	Low Level
12.443	L	SPSOU	20000	News + Series
12.443	L	TR3S	20000	Quality Entertain.
● 12.443	L	UTLSM	20000	News + Series
12.443	L	ONPPV	20000	Low Level
12.472	L	WCFE	20000	News + Series
12.472	L	WETK	20000	Low Level
12.472	L	WGAL	20000	News + Series
12.472	L	WGBH	20000	News + Series
12.472	L	WGCB	20000	News + Series
12.472	L	WHP	20000	News + Series
12.472	L	WHTM	20000	News + Series
12.472	L	WITF	20000	News + Series
12.472	L	WLYH	20000	Low Level
12.472	L	WMFP	20000	News + Series
12.472	L	WNYA	20000	News + Series
12.472	L	WPMT	20000	News + Series
12.472	L	WWDP	20000	News + Series
12.486	R	CBBIS	20000	Low Level
12.486	R	FUEL	20000	Home Cinema
12.486	R	NHLN	20000	News + Series
12.486	R	PSNES	20000	Low Level
12.501	L	WFSB	20000	Quality Entertain.
12.501	L	WFTY	20000	News + Series
12.501	L	WLIW	20000	News + Series
12.501	L	WLNY	20000	Quality Entertain.
12.501	L	WMBC	20000	Low Level
12.501	L	WNJB	20000	News + Series
12.501	L	WNJU	20000	Low Level
12.501	L	WNYN	20000	News + Series
12.501	L	WRNN	20000	Low Level
12.501	L	WSAH	20000	Low Level
12.501	L	WTIC	20000	Low Level
12.501	L	WTNH	20000	Low Level
12.501	L	WVIT	20000	News + Series
12.516	R	BDMAX	20000	News + Series
12.516	R	CNBCW	20000	News + Series
12.516	R	DRMT1	20000	Low Level
12.516	R	EARTH	20000	Advertisement
12.516	R	EWAM	20000	News + Series
12.516	R	HBOLT	20000	Low Level
12.516	R	LTD1	20000	Low Level
12.516	R	LTD2	20000	Advertisement
12.516	R	RFDTV	20000	Quality Entertain.
12.516	R	SHOCS	20000	Quality Entertain.
12.516	R	TMC-W	20000	News + Series
12.516	R	TMCXW	20000	Low Level
12.516	R	VH1CL	20000	Low Level
12.516	R	VS.	20000	News + Series
12.530	L	CCTV9	20000	News + Series
12.530	L	CCTVE	20000	News + Series
12.530	L	KCNC	20000	Low Level
12.530	L	KDVR	20000	News + Series
12.530	L	KMGH	20000	Low Level
12.530	L	KUSA	20000	News + Series
12.530	L	WBBM	20000	Low Level
12.530	L	WFLD	20000	Low Level
12.530	L	WLS	20000	Quality Entertain.
12.530	L	WMAQ	20000	News + Series
12.530	L	WSIU	20000	Quality Entertain.
12.559	L	ALT	20000	Low Level
12.559	L	ALT10	20000	Low Level
12.559	L	ETC3	20000	News + Series
12.559	L	MASN2	20000	Low Level
12.559	L	NBA	20000	Low Level
● 12.559	L	NHL	20000	Low Level
12.559	L	SKDL	20000	News + Series
● 12.559	L	SPORT	20000	Low Level
12.574	R	WBRA	20000	Low Level
12.574	R	WDBJ	20000	News + Series
12.574	R	WDCA	20000	Low Level
12.574	R	WDCW	20000	News + Series
12.574	R	WDRL	20000	News + Series
12.574	R	WFXR	20000	News + Series
12.574	R	WJLA	20000	Low Level
12.574	R	WRC	20000	Low Level
12.574	R	WSET	20000	Low Level
12.574	R	WSLS	20000	News + Series
12.574	R	WTTG	20000	Low Level
12.574	R	WUSA	20000	Quality Entertain.
12.574	R	WWCW	20000	Low Level
12.589	L	WBZ	20000	Quality Entertain.
12.589	L	WCVB	20000	Low Level
12.589	L	WENH	20000	Low Level
12.589	L	WFXT	20000	News + Series
12.589	L	WGBX	20000	News + Series
12.589	L	WHDH	20000	Low Level
12.589	L	WLED	20000	Low Level
12.589	L	WLVI	20000	News + Series
● 12.589	L	WLVT	20000	News + Series
12.589	L	WMUR	20000	Low Level
12.589	L	WNEU	20000	News + Series
12.589	L	WUNI	20000	Low Level
12.589	L	WUTF	20000	Low Level
12.589	L	WZMY	20000	News + Series
● 12.632	R	BDMAX	20000	Low Level
● 12.632	R	CNBCW	20000	News + Series
● 12.632	R	DRMT1	20000	News + Series
● 12.632	R	EARTH	20000	Low Level
● 12.632	R	EWAM	20000	Low Level
● 12.632	R	HBOLT	20000	Low Level
● 12.632	R	INFO	20000	Advertisement
● 12.632	R	LTD1	20000	Advertisement
● 12.632	R	LTD2	20000	Advertisement
● 12.632	R	RFDTV	20000	News + Series
● 12.632	R	SHOCS	20000	News + Series
● 12.632	R	TMC-W	20000	Low Level
● 12.632	R	TMCXW	20000	News + Series
● 12.632	R	VH1CL	20000	Quality Entertain.
● 12.632	R	VS.	20000	News + Series
12.661	R	WCWG	20000	Low Level
12.661	R	WFMY	20000	Quality Entertain.
12.661	R	WGHP	20000	News + Series
12.661	R	WLXI	20000	News + Series
12.661	R	WMYV	20000	Low Level
12.661	R	WRAY	20000	Low Level
12.661	R	WRIC	20000	Low Level
12.661	R	WRLH	20000	News + Series
12.661	R	WTVR	20000	Low Level
12.661	R	WUND	20000	Low Level
12.661	R	WUNL	20000	News + Series
12.661	R	WUNM	20000	News + Series
12.661	R	WUNU	20000	Low Level
12.661	R	WWBT	20000	Low Level
12.661	R	WXII	20000	News + Series
12.661	R	WXLV	20000	News + Series

DIRECTV 5

250.2 East (109.8 West)

DTV005KB

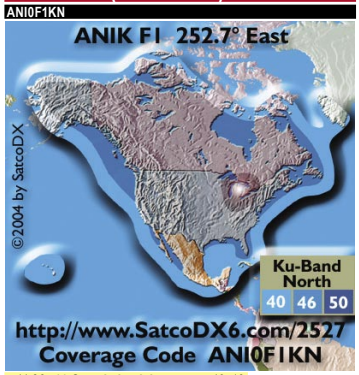


Freq	Pol	Channel Name	Symbol Rate	Programming Type
12.618	L	DirecTV USA	20000	

ANIK F1R

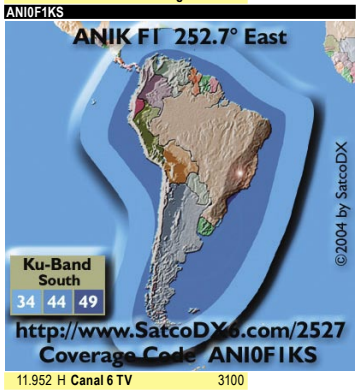
252.7 East (107.3 West)

ANI0F1KN



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.867	V	Ontario Legislature	19510	
11.867	V	Star Choice Info Cha	19510	
11.867	V	Viewer's Choice Prei	19510	
12.063	H	Canal Indigo Preiew	19510	
12.063	H	Star Choice Package	19510	
12.081	V	Viewer's Choice Prev	19510	
12.081	V	Star Choice Package	19510	
12.094	H	Viewer's Choice Prev	19510	
12.094	H	Star Choice Package	19510	

ANI0F1KS



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.952	H	Canal 6 TV	3100	

C-Band: ANIK F1

252.8 East (107.2 West)

ANI0F1CN

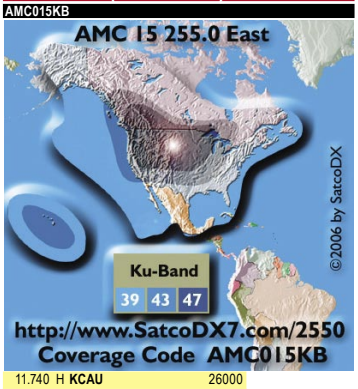


Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.760	H	CBAT-TV	28500	
3.760	H	CBC Mountain	28500	
3.760	H	CBC Pacific North	28500	
3.760	H	CBCT-TV	28500	
3.760	H	CBHT-TV	28500	
3.760	H	CBIT-TV	28500	
3.760	H	CBKS-TV	28500	
3.760	H	CBKT-TV	28500	
3.760	H	CBLT-TV	28500	
3.760	H	CBMT-TV	28500	
3.760	H	CBNT-TV	28500	
3.760	H	CBRT-TV	28500	
3.760	H	CBUT-TV	28500	
3.760	H	CBWT-TV	28500	
3.760	H	CBXT-TV	28500	
3.780	V	ARGENT	28346	
3.780	V	ARGENT/MPEG	28346	News + Series
3.780	V	LCN	28346	Quality Entertain.
3.780	V	LCN Dolby	28346	
3.780	V	LCN/MAGNETO.	28346	Quality Entertain.
3.780	V	LCN/MAGNETO. dolby	28346	
3.780	V	MYSTERE	28346	
3.780	V	MYSTERE /MPEG	28346	News + Series
3.780	V	PRISE 2 /DOLBY	28346	
3.780	V	PRISE 2 /MPEG	28346	News + Series
3.780	V	CORUS RADIO	28346	Home Cinema
3.780	V	CORUS RADIO test	28346	Home Cinema
3.780	V	MA MAISON/DOLBY	28346	
3.780	V	MA MAISON/MPEG	28346	News + Series
3.780	V	OCCUS	28346	Home Cinema
3.780	V	TELE QUEBEC	28346	Home Cinema
3.780	V	TELE QUEBEC dolby	28346	Home Cinema
3.780	V	Test	28346	Home Cinema
3.896	V	Global Gateway Chann	6150	
3.896	V	Global TV (CIII f	6150	
3.896	V	Global TV (cable fee	6150	
3.896	V	Global TV (Global Re	6150	
3.924	V	Default setup channe	3000	
3.933	V	APTN-N	9300	
3.933	V	APTN-SE	9300	
3.933	V	RC channel	9300	
3.933	V	APTN-SW	9300	Quality Entertain.
3.936	V	APTN - North	6150	
3.936	V	APTN Winnipeg	6150	
3.936	V	TX RC	6150	
3.962	H	FTN QPSK A1	6500	
3.962	H	CCP Download	6500	
3.962	H	DCP Download	6500	
4.060	V	Meteo Media	28346	Quality Entertain.
4.060	V	MUSIMAX	28346	Quality Entertain.
4.060	V	MUSIMAX /CLASSIC	28346	Quality Entertain.
4.060	V	MUSIMAX DOLBY	28346	
4.060	V	MUSIQUE PLUS	28346	Quality Entertain.
4.060	V	MUSIQUE PLUS DOLB	28346	
4.060	V	RDI	28346	Home Cinema
4.060	V	RDI/POP	28346	Home Cinema
4.060	V	RDS	28346	Quality Entertain.
4.060	V	RDS DOLBY	28346	
4.060	V	TV5	28346	Quality Entertain.
4.060	V	TV5 dolby	28346	
4.060	V	ASN/TV GUIDE	28346	Quality Entertain.
4.060	V	TEST	28346	News + Series
4.100	V	The Weather Network	28346	
4.100	V	OCCUSE MPEG2	28346	Quality Entertain.
4.121	H	Default setup channe	10851	

AMC 15

255.0 East (105.0 West)

AMC015KB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.740	H	KCAU	26000	
11.740	H	KPTH	26000	
11.740	H	KSIN	26000	
11.740	H	KTIV	26000	
11.740	H	KXNE	26000	
11.740	H	WBDT	26000	
11.740	H	WDTN	26000	
11.740	H	WHIO	26000	
11.740	H	WKAS	26000	
11.740	H	WKEF	26000	
11.740	H	WOUB	26000	
11.740	H	WPTD	26000	
11.740	H	WRGT	26000	
11.840	V	WAHU	26000	
11.840	V	WCAV	26000	
11.840	V	WHTJ	26000	
11.840	V	WVAW	26000	
11.840	V	WVIR	26000	
11.840	V	D105	26000	
11.969	V	Channel 1	7234	
11.969	V	Channel 2	7234	
11.969	V	Channel 3	7234	
11.969	V	Channel 4	7234	
12.060	H	WBNS	26000	
12.060	H	WCHS	26000	
12.060	H	WCMH	26000	
12.060	H	WOSU	26000	
12.060	H	WOWK	26000	
12.060	H	WPBO	26000	
12.060	H	WPBY	26000	
12.060	H	WQCW	26000	
12.060	H	WSAZ	26000	
12.060	H	WSFJ	26000	
12.060	H	WSYX	26000	
12.060	H	WTTE	26000	
12.060	H	WVAH	26000	
12.060	H	WWHO	26000	
12.160	V	KCAU	26000	
12.160	V	KMEG	26000	
12.160	V	KPTH	26000	
12.160	V	KSIN	26000	
12.160	V	KTIV	26000	
12.160	V	KXNE	26000	
12.160	V	WBOY	26000	
12.160	V	WDTV	26000	
12.160	V	WNPB	26000	
12.160	V	WVFX	26000	

AMC 1

257.0 East (103.0 West)

AMC001KB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.942	V	MCC	20000	News + Series
11.942	V	MS20	20000	News + Series
11.942	V	MS3	20000	News + Series
11.942	V	MS4	20000	News + Series
12.022	H	NBC Newschannel Fe	4231	
12.028	H	NBC Newschannel F	4231	
12.034	H	NBC Newschannel Fe	4231	
12.044	H	NBC Newschannel Feed	4231	
12.052	H	NBC Newschannel Fe	4231	
12.062	V	Market Connect Netwo	4880	
12.065	H	NBC Newschannel Feed	4231	
12.068	H	NBC Newschannel F	4231	Home Cinema
12.083	H	NBC Newschannel Feed	4231	
12.086	H	NBC Newschannel F	4231	Home Cinema
12.092	H	NBC Newschannel Feed	4231	
12.100	V	PENTAGON CHANNEL	20000	Home Cinema
12.100	V	PENTAGON DOLBY AC	20000	Home Cinema
12.110	H	NBC Newschannel Feed	15000	
12.115	H	NBC Newschannel Fe	4231	Home Cinema
12.126	H	NBC Newschannel Feed	4231	
12.132	H	AC1.21F	4231	Home Cinema

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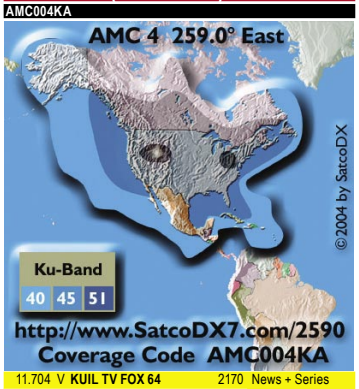
Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2
Cost Conscious Entertainment .... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
12.142	V	MS90	20000	News + Series
12.142	V	MS92	20000	News + Series
12.142	V	MS91	20000	News + Series
12.182	V	FedEx Channel 10	25000	Quality Entertain.
12.182	V	FedEx Channel 20	25000	Quality Entertain.
12.182	V	FedEx Channel 30	25000	Quality Entertain.
12.182	V	FedEx Channel 40	25000	Quality Entertain.
12.182	V	FXTV CHANNEL 200	25000	Quality Entertain.
12.182	V	TEST CHANNEL 100	25000	Quality Entertain.

DIRECTV 4S/8
AMC 2,4
259.0 East (101.0 West)

AMC004KA



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.704	V	KUIL TV FOX 64	2170	News + Series
11.730	V	Data	5000	
11.791	V	TAN TV 4	19700	
11.807	H	Data	2713	
11.820	H	TV English	5700	
11.820	H	TV Latino	5700	
11.845	V	Data	2170	
11.860	H	Setanta TV	28140	Quality Entertain.
11.860	H	TAN 1/KBS	28140	News + Series
11.860	H	TAN 2/MBC	28140	News + Series
11.860	H	TAN 3/SBS	28140	News + Series
11.860	H	TAN 4/EBS	28140	News + Series
11.860	H	TAN 5/YTN	28140	News + Series
11.860	H	APOSTOLIC	28140	News + Series
11.860	H	Gospel Music TV	28140	News + Series
11.860	H	TAN TV 6	28140	Low Level
11.860	H	TAN TV 7	28140	News + Series
11.983	H	ATN SERVICE 2	5900	News + Series
11.983	H	ATN/ACN SERVICE 1	5900	News + Series
11.983	H	ESPERANZA TV	5900	News + Series
11.983	H	HOPE CHANNEL	5900	Quality Entertain.
12.018	H	Service 1	2034	News + Series
12.025	H	401 (unknown channel	5207	
12.025	H	402 (unknown channel	5207	
12.033	H	RTPi America	3003	Quality Entertain.
12.060	H	01-MSNBC	26700	Advertisement
12.060	H	02-CourtTV	26700	Advertisement
12.060	H	03-FOX BUSINESS	26700	Advertisement
12.060	H	04-National Geograph	26700	Advertisement
12.060	H	05-Fox News	26700	Advertisement
12.060	H	06-Weather Channel	26700	Advertisement
12.060	H	07-CNBC	26700	Advertisement
12.060	H	08-A E History	26700	Advertisement
12.060	H	10-A E	26700	Advertisement
12.060	H	21-MSNBC AC3	26700	Quality Entertain.
12.060	H	22-CourtTV AC3	26700	Quality Entertain.
12.060	H	23-FOX BUSINESS	26700	Quality Entertain.
12.060	H	24-National Geograph	26700	Quality Entertain.
12.060	H	25-Fox News AC3	26700	Quality Entertain.
12.060	H	26-Weather Channel A	26700	Quality Entertain.
12.060	H	27-CNBC AC3	26700	Quality Entertain.
12.060	H	28-A E History AC3	26700	Quality Entertain.
12.060	H	29-A E Biography AC3	26700	Quality Entertain.
12.060	H	30-A E AC3	26700	Quality Entertain.
12.060	H	9-A E Biography	26700	Quality Entertain.
12.060	H	Enc 12 Test	26700	Advertisement
12.060	H	Enc11 Test	26700	Advertisement
12.060	H	ENC11_AC3	26700	Quality Entertain.
12.060	H	ENC12_AC3	26700	Quality Entertain.
12.120	V	BVN	30000	Quality Entertain.
12.120	V	CGN TV	30000	Quality Entertain.
12.120	V	CMC	30000	News + Series
12.120	V	HRT 1	30000	Advertisement
12.120	V	MusicAL	30000	Advertisement
12.120	V	Setanta Sports	30000	Advertisement
12.120	V	TOP Channel	30000	News + Series
12.120	V	TOP News	30000	News + Series
12.120	V	TRWAM	30000	Advertisement

DIRECTV 4S/8
AMC 2,4
259.1 East (100.9 West)

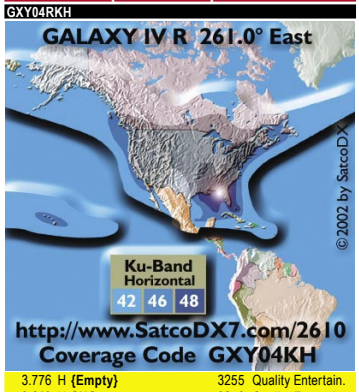
AMC004KB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.654	V	HRT TV	30000	Quality Entertain.
11.654	V	CGN TV	30000	News + Series

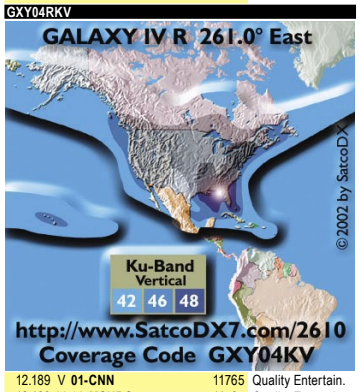
GALAXY 16
261.0 East (99.0 West)

GXY04RKH



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.776	H	{Empty}	3255	Quality Entertain.
3.810	H	SNG	3256	Quality Entertain.
3.820	V	GDMX 6/1	26000	News + Series
3.820	V	GDMX 6/2	26000	News + Series
3.820	V	GDMX 6/3	26000	Quality Entertain.
3.820	V	GDMX 6/4	26000	News + Series
3.820	V	GDMX 6/5	26000	News + Series
3.820	V	GDMX 6/6	26000	News + Series
3.845	H	{Empty}	12296	Home Cinema
3.904	H	TSMA. 3 MEXICO	3125	Quality Entertain.
4.000	H	LESEA Network	26400	Home Cinema
4.000	H	WHT - 1	26400	Home Cinema
4.000	H	WHT - 2	26400	Home Cinema
4.120	H	ABC SD NET-1	29126	Home Cinema
4.120	H	ABC SD NET-11	29126	Home Cinema
4.120	H	ABC SD NET-7	29126	Home Cinema
4.160	H	MyTV HD	27780	Home Cinema
4.160	H	MyTV SD	27780	Home Cinema
11.771	V	CBS NEWSPATH	14320	Home Cinema
11.942	V	AAFES	4164	Advertisement
11.960	H	Feed	26000	
12.061	H	USPS TV	3125	
12.077	H	PSTN 15	9000	
12.077	H	PSTN 17	9000	
12.077	H	PSTN 19	9000	
12.077	H	PSTN 23	9000	

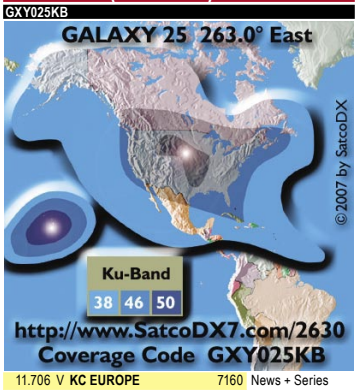
GXY04RKV



Freq	Pol	Channel Name	Symbol Rate	Programming Type
12.189	V	01-CNN	11765	Quality Entertain.
12.189	V	02-MSNBC	11765	Quality Entertain.
12.189	V	03-CNBC	11765	Quality Entertain.
12.189	V	06-ESPNEWS	11765	Low Level
12.189	V	04-ESPN	11765	Advertisement
12.189	V	09-ESPN Chicago	11765	Advertisement

North America
GALAXY 19
263.0 East (97.0 West)

GXY025KB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.706	V	KC EUROPE	7160	News + Series
11.706	V	Knowledge Channel	7160	News + Series
11.779	H	Feed (PIT)	3979	Quality Entertain.
11.789	V	BN BOSNIA	28125	News + Series
11.789	V	Orange TV	28125	News + Series
11.789	V	TVK	28125	News + Series
11.789	V	WorldTV PPV2	28125	Quality Entertain.
11.789	V	Al Karma	28125	News + Series
11.789	V	AL MAGHRIBIA	28125	News + Series
11.789	V	Canal Algerie	28125	Quality Entertain.
11.789	V	Kuwait 2	28125	News + Series
11.789	V	Kuwait 3	28125	News + Series
11.789	V	MHz Worldview	28125	Quality Entertain.
11.789	V	Syrian Drama	28125	News + Series
11.836	V	AL-ALAM	20765	News + Series
11.836	V	APPADANA	20765	News + Series
11.836	V	IRIB 2	20765	News + Series
11.836	V	IRINN	20765	News + Series
11.836	V	NTD	20765	News + Series
11.836	V	Tapesh	20765	News + Series
11.836	V	Time TV	20765	Low Level
11.836	V	TR5 Open1	20765	News + Series
11.836	V	TV 7 TUNIS	20765	Quality Entertain.
11.836	V	Velayat TV	20765	News + Series
11.874	H	RTV21	22000	News + Series
11.874	H	TV Klan	22000	News + Series
11.874	H	DMC	22000	News + Series
11.874	H	GlobeCast 451	22000	News + Series
11.874	H	KJC TV	22000	News + Series
11.874	H	LTV World	22000	News + Series
11.874	H	Now on CH600	22000	Advertisement
11.874	H	Saudi TV2	22000	News + Series
11.874	H	Telepace	22000	News + Series
11.874	H	TV Cancao Nova	22000	News + Series
11.874	H	USArmenia	22000	News + Series
11.874	H	WorldTV PPV	22000	Advertisement
11.898	V	Amrita TV	22000	News + Series
11.898	V	Asianet	22000	News + Series
11.898	V	Asianet News	22000	News + Series
11.898	V	Asianet Plus	22000	News + Series
11.898	V	Bostel TV	22000	News + Series
11.898	V	SetantaSports	22000	Quality Entertain.
11.898	V	Shalom TV	22000	News + Series
11.898	V	ARTN TV	22000	News + Series
11.898	V	Belarus TV	22000	News + Series
11.898	V	GlobeCast 757	22000	News + Series
11.898	V	NTA	22000	News + Series
11.929	V	FTV HD	22000	High Quality Home
11.929	V	Ahlulbayt TV	22000	Low Level
11.929	V	AL Anwar	22000	Low Level
11.929	V	Best Turk	22000	Quality Entertain.
11.929	V	Daystar	22000	News + Series
11.929	V	DIDAR GLOBAL TV	22000	News + Series
11.929	V	Rang A Rang	22000	News + Series
11.929	V	RTA CHANNEL	22000	News + Series
11.929	V	Saigon TV	22000	News + Series
11.929	V	Salaam TV	22000	Low Level
11.929	V	SUROYO TV	22000	Low Level
11.929	V	TOLO TV	22000	Low Level
11.929	V	VBS - Vietnam TV	22000	Low Level
11.935	H	DFH-1	20000	News + Series
11.935	H	DFH-2	20000	News + Series
11.935	H	DFH-3	20000	News + Series
11.935	H	DFH-4	20000	News + Series
11.935	H	DFH-5	20000	News + Series
11.935	H	DFHSports	20000	News + Series
11.966	H	AL FAYHAA	22000	News + Series
11.966	H	CNL	22000	News + Series
11.966	H	Divine TV	22000	News + Series
11.966	H	KURDSAT	22000	News + Series
11.966	H	MRTV/Good Shepherd	22000	News + Series
11.966	H	RODNOY	22000	News + Series
11.966	H	TGN	22000	News + Series
11.966	H	The Word Network	22000	News + Series
11.966	H	TRT-TURK	22000	Quality Entertain.
11.966	H	VTV-4	22000	News + Series
11.991	V	CTN	22000	News + Series
11.991	V	ERI TV	22000	News + Series
11.991	V	Pink Plus	22000	News + Series
11.991	V	Setanta 2	22000	Quality Entertain.
11.991	V	Setanta Adhoc	22000	Quality Entertain.
11.991	V	Kuwait TV	22000	News + Series
11.991	V	M2 Morocco	22000	News + Series
11.991	V	RTS Diaspora	22000	News + Series
11.991	V	Simay Azadi	22000	News + Series
11.998	H	GlobeCast 452	20000	Quality Entertain.
11.998	H	GlobeCast 453	20000	Quality Entertain.
11.998	H	GlobeCast 454	20000	Quality Entertain.
11.998	H	GlobeCast 456	20000	Quality Entertain.
11.998	H	GlobeCast 457	20000	Quality Entertain.
12.008	V	Knowledge Channel	3000	News + Series
12.020	V	Service06	22000	Advertisement
12.020	V	Service11	22000	Advertisement
12.020	V	Service12	22000	Advertisement
12.020	V	Service13	22000	Advertisement
12.020	V	Service14	22000	Advertisement
12.020	V	Service15	22000	Advertisement
12.020	V	Service16	22000	Advertisement
12.020	V	Service17	22000	Advertisement
12.020	V	Service18	22000	Advertisement
12.020	V	Global-TV	22000	Quality Entertain.
12.020	V	Good Idea TV	22000	Home Cinema
12.020	V	ITN	22000	Low Level
12.020	V	PARS TV	22000	News + Series
12.020	V	PEN TV	22000	Quality Entertain.
12.020	V	Service04	22000	Advertisement
12.020	V	Service05	22000	Advertisement
12.020	V	The Way TV	22000	News + Series
12.020	V	VBS TV	22000	News + Series
12.053	V	NTV Hayat	22000	News + Series
12.053	V	Pink Extra	22000	News + Series
12.053	V	Realitatea TV	22000	News + Series
12.053	V	RSC 1 Romania	22000	News + Series
12.053	V	RSC 2 Romania	22000	News + Series
12.053	V	RSC3 PROTV INT	22000	News + Series
12.053	V	Al Forat	22000	News + Series
12.053	V	GlobeCast 155	22000	News + Series
12.053	V	GlobeCast 402	22000	News + Series
12.053	V	GlobeCast 502	22000	News + Series
12.053	V	GlobeCast 51	22000	News + Series
12.053	V	GlobeCast 709	22000	News + Series
12.053	V	GlobeCast 813	22000	News + Series
12.053	V	Press TV	22000	News + Series
12.060	H	UTR	22000	High Quality Home
12.060	H	African Caribbean TV	22000	Low Level
12.060	H	Ariamehr TV	22000	News + Series
12.060	H	E2Channel	22000	Low Level
12.060	H	Emmanuel TV	22000	News + Series
12.060	H	ICC	22000	News + Series
12.060	H	ORTM	22000	News + Series
12.060	H	PASHA TV	22000	News + Series
12.060	H	PMC	22000	Quality Entertain.
12.060	H	SUPREME MASTER TV	22000	Quality Entertain.
12.060	H	Tele Anacaona	22000	Low Level
12.060	H	Telemedia T11	22000	News + Series
12.060	H	Vision Heaven	22000	News + Series
12.060	H	WIN TV	22000	News + Series
12.084	V	ASC Flix	22000	News + Series
12.084	V	ASC Xtra	22000	News + Series
12.084	V	Globecast 157	22000	News + Series
12.084	V	Tele5	22000	Advertisement
12.084	V	TV Polonia	22000	News + Series
12.084	V	TVP Info	22000	News + Series
12.084	V	Al Kass	22000	Quality Entertain.
12.084	V	AZ TV	22000	News + Series
12.084	V	EBRU TV	22000	Quality Entertain.
12.084	V	Samanyolu TV	22000	Quality Entertain.
12.090	H	IPtv News1	20000	News + Series
12.090	H	Lakorn Thai	20000	Low Level
12.090	H	V Smile	20000	News + Series
12.090	H	ZHONG	20000	News + Series
12.090	H	ABN	20000	Low Level
12.090	H	ANDISHEH TV	20000	Advertisement
12.090	H	ARIA INTERNATIONA	20000	Low Level
12.090	H	CHANNEL ONE TV	20000	News + Series
12.090	H	Hit and Health	20000	Low Level
12.090	H	HZTV	20000	Low Level
12.090	H	ICtv	20000	News + Series
12.090	H	ISHTAR TV	20000	Low Level
12.090	H	LAO Champa TV	20000	Low Level
12.090	H	LIVE CHANNEL	20000	Low Level
12.090	H	MKTV	20000	News + Series
12.090	H	NAT TV	20000	Low Level
12.090	H	PARS TV	20000	Low Level
12.090	H	TAMASHA	20000	Low Level
12.115	V	AFN MUSIC CHANNEL	22425	Advertisement
12.115	V	Al Kalema TV	22425	Advertisement
12.115	V	AMGA	22425	Advertisement
12.115	V	Bethel TV	22425	News + Series
12.115	V	CTVN	22425	News + Series
12.115	V	GCN	22425	Advertisement
12.115	V	ITC	22425	Advertisement
12.115	V	NEDA TV	22425	Low Level
12.115	V	NEWS1	22425	Advertisement
12.115	V	OPEN 1	22425	Low Level
12.115	V	Pastor Scott	22425	News + Series
12.115	V	IMPACT TV	22425	News + Series
12.115	V	Iran Zamin TV	22425	News + Series
12.121	H	ZHONG	20000	Quality Entertain.
12.121	H	AHL-E-BAIT TV	20000	Low Level
12.121	H	ARIANA AFG. INT.	20000	Low Level
12.121	H	DA-Al	20000	News + Series
12.121	H	ITN	20000	Low Level
12.121	H	Jaam E Jam	20000	News + Series
12.121	H	Markazi TV	20000	News + Series
12.121	H	Melli TV	20000	News + Series
12.121	H	Noor TV	20000	News + Series
12.121	H	Omid E Iran	20000	News + Series
12.121	H	Payam-E-Afghan	20000	News + Series
12.121	H	Persian Bazaar TV	20000	News + Series
12.146	V	Abu Dhabi Sport	22000	Advertisement
12.146	V	Al-Iraqiya	22000	Advertisement
12.146	V	Jamahirya TV	22000	Advertisement
12.146	V	Jordan TV	22000	Advertisement
12.146	V	Oman TV	22000	Advertisement
12.146	V	Qatar TV	22000	Advertisement
12.146	V	Saudi TV1	22000	Advertisement
12.146	V	Sharjah TV	22000	Advertisement
12.146	V	Southern Sudan	22000	Advertisement
12.146	V	Sudan TV	22000	Advertisement
12.146	V	Syrian TV	22000	Advertisement
12.146	V	Yemen TV	22000	Advertisement
12.153	H	Armenian TV	20000	Quality Entertain.
12.153	H	Al Jazeera English	20000	Quality Entertain.
12.153	H	ETV	20000	News + Series
12.153	H	GlobeCast 21	20000	News + Series
12.153	H	GlobeCast 22	20000	Low Level
12.153	H	GlobeCast 7	20000	Low Level
12.153	H	Globecast 8	20000	Low Level

Freq	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
12.153	H	GlobeCast 9	20000	Low Level
12.153	H	Russia Today	20000	News + Series
12.153	H	Tasvir Iran	20000	Low Level
● 12.153	H	TTV	20000	Low Level
12.153	H	TVRi	20000	News + Series
● 12.177	V	CCN	23000	Advertisement
● 12.177	V	CCN 4	23000	Advertisement
12.177	V	GODS LEARNING CH	23000	Advertisement
12.177	V	House of Yahweh	23000	Advertisement
12.177	V	JCTV	23000	News + Series
12.177	V	KURD TV	23000	Advertisement
● 12.177	V	OPEN TV1	23000	Advertisement
● 12.177	V	SHOPPING	23000	Advertisement
12.177	V	TBN	23000	News + Series
12.177	V	TBN ENLACE	23000	Advertisement
12.177	V	Tele-Culture TV	23000	News + Series
12.177	V	BTV	23000	News + Series
12.177	V	CHURCH CHANNEL	23000	News + Series
12.177	V	SOAC	23000	News + Series

C-Band: GALAXY 3C

265.0 East (95.0 West)

GXY03CCH



3.842	H	NPS - AB	11000	Quality Entertain.
3.842	H	NPS - CB	11000	Quality Entertain.
3.842	H	NPS - FO	11000	Quality Entertain.
3.842	H	NPS - NB	11000	Quality Entertain.
3.914	H	Horse/Dog Racing F	3074	Quality Entertain.

GXY03CCV



3.730	V	LATV HOUSTON	8825	Quality Entertain.
3.730	V	Fusion TV	8825	Quality Entertain.
3.730	V	INN News	8825	Quality Entertain.
3.745	V	FAITHTV	2206	News + Series
3.754	V	INN News	3978	
3.767	V	Service 2	6111	Home Cinema
3.885	V	Horse/Dog Racing F	3074	Quality Entertain.
3.908	V	Horse/Dog Racing F	3074	Low Level
3.925	V	Horse/Dog Racing F	3074	Quality Entertain.
3.929	V	Horse/Dog Racing F	3074	Quality Entertain.
3.934	V	Horse/Dog Racing F	3074	Quality Entertain.
4.040	H	DAYSTAR-C	29110	Quality Entertain.
4.040	H	KUOK C	29110	News + Series
4.040	H	WBTW	29110	Quality Entertain.
4.040	H	WJMF	29110	News + Series
4.040	H	WNGS-C	29110	Quality Entertain.
4.040	H	WSAV	29110	News + Series
4.040	H	WUDT	29110	News + Series
4.040	H	WUVF C	29110	News + Series
4.100	V	ESPN	28640	
4.100	V	ESPN 2	28640	
4.100	V	Fox News Channel	28640	
4.100	V	HGTV	28640	
4.100	V	Lifetime	28640	
4.100	V	Lifetime Movie Netwo	28640	
4.100	V	Starz! East	28640	
4.100	V	The Discovery Channe	28640	
4.100	V	The Disney Channel	28640	
4.100	V	The Food Network	28640	
4.100	V	The Learning Channel	28640	
4.100	V	Toon Disney	28640	
4.100	V	USDTV - US Digital	28640	
4.168	V	LPTV1	6617	News + Series
4.168	V	LPTV2	6617	News + Series
4.168	V	LPTV3	6617	News + Series
4.168	V	LPTV4	6617	Low Level
4.168	V	LPTV5	6617	Low Level
4.176	V	CATV	6617	Quality Entertain.
4.176	V	TV DOMINICANA	6617	Quality Entertain.

GALAXY 3C

265.1 East (94.9 West)

GXY03CKH



11.780	H	CCTV 4	20759	
11.780	H	CCTV 9	20759	
11.780	H	CCTV E	20759	
11.780	H	CCTV F	20759	
11.810	H	HRTV	20000	
11.810	H	OTB1	20000	
11.810	H	OTB2	20000	
11.810	H	OTB3	20000	
11.810	H	RTN1	20000	
11.810	H	RTN11	20000	
11.810	H	RTN12	20000	
11.810	H	RTN13	20000	
11.810	H	RTN14	20000	
11.810	H	RTN15	20000	
11.810	H	RTN16	20000	
11.810	H	RTN17	20000	
11.810	H	RTN18	20000	
11.810	H	RTN19	20000	
11.810	H	RTN2	20000	
11.810	H	RTN20	20000	
11.810	H	RTN22	20000	
11.810	H	RTN3	20000	
11.810	H	RTN4	20000	
11.810	H	RTN5	20000	
11.810	H	RTN6	20000	
11.810	H	RTN7	20000	
11.810	H	RTN8	20000	
11.810	H	RTN9	20000	
11.810	H	CHNL44	20000	
11.907	H	Feed	4296	
12.050	H	ATV	20000	
12.050	H	PSTV	20000	
12.050	H	PTVN	20000	
12.050	H	RTN21	20000	
12.050	H	RTN22	20000	
12.050	H	RTN23	20000	
12.050	H	RTN24	20000	
12.050	H	RTN25	20000	
12.050	H	RTN26	20000	
12.050	H	RTN27	20000	
12.050	H	RTN28	20000	
12.050	H	RTN29	20000	
12.050	H	RTN30	20000	
12.050	H	RTN31	20000	
12.050	H	RTN32	20000	
12.050	H	RTN33	20000	
12.050	H	RTN34	20000	
12.050	H	RTN35	20000	
12.050	H	RTN36	20000	
12.050	H	RTN37	20000	
12.050	H	RTN38	20000	
12.050	H	RTN39	20000	
12.050	H	RTN40	20000	
12.050	H	AON	20000	
12.050	H	MACTV	20000	

GALAXY 25

267.0 East (93.0 West)

GXY025KB



11.892	H	Channel 1	3000	Advertisement
11.907	V	MACYS 4	3548	News + Series
11.916	H	Justice Television N	4349	Advertisement
11.984	V	Azteca 13	8681	Quality Entertain.
11.984	V	Azteca 7	8681	News + Series
11.984	V	Azteca America Este	8681	News + Series
11.984	V	Azteca America Oeste	8681	Low Level
12.022	V	Channel 1 Baltimore	20617	Quality Entertain.
12.022	V	Channel 4 Atlanta St	20617	Quality Entertain.
12.022	V	Channel 7 Baltimore	20617	Quality Entertain.
12.115	V	Channel 2 Baltimore	20617	News + Series
12.115	V	Channel 3 Kansas Stu	20617	Quality Entertain.
12.115	V	Channel 5 Dallas Stu	20617	News + Series
12.115	V	Channel 6 Seattle St	20617	News + Series
12.115	V	Channel 8 Baltimor	20617	News + Series
12.115	V	Channel 9 Baltimor	20617	News + Series
12.115	V	Channel 10 Test Patt	20617	News + Series

North America

GALAXY 11,17

269.0 East (91.0 West)

GXY011KB



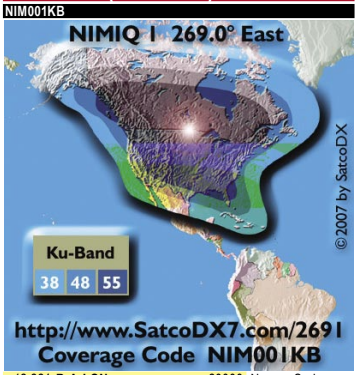
3.820	V	Atlantic	30000	Quality Entertain.
3.820	V	Atlantic-Dig	30000	Quality Entertain.
3.820	V	Central	30000	Quality Entertain.
3.820	V	Central-Dig	30000	Quality Entertain.
3.820	V	FMC	30000	Quality Entertain.
3.820	V	FMC-Dig	30000	Quality Entertain.
3.820	V	Fox News	30000	Quality Entertain.
3.820	V	Fox News-Dig	30000	Quality Entertain.
3.820	V	Nat Geo	30000	Home Cinema
3.820	V	NG-Dig	30000	Home Cinema
3.820	V	Pacific	30000	Quality Entertain.
3.820	V	Pacific-Dig	30000	Quality Entertain.
3.820	V	Network B/U	30000	
3.820	V	Network B/U-Dig	30000	
3.840	H	CRS Alt 2	29270	Quality Entertain.
3.840	H	mtn	29270	Quality Entertain.
3.840	H	SNY	29270	Quality Entertain.
3.840	H	SNY Alt	29270	Quality Entertain.
3.840	H	Sportsnet California	29270	Quality Entertain.
3.840	H	SportsNet NW (Portla	29270	Home Cinema
3.840	H	SportsNet NW (Spok	29270	Quality Entertain.
3.840	H	VERSUS AC3	29270	Quality Entertain.
3.840	H	Versus Alternate AC3	29270	Quality Entertain.
3.840	H	Versus Alternate Mpe	29270	Quality Entertain.
3.840	H	VERSUS MPEG	29270	Home Cinema
3.860	V	Espanol	30000	Quality Entertain.
3.860	V	Espanol-Dig	30000	Quality Entertain.
3.860	V	Fuel	30000	Quality Entertain.
3.860	V	Fuel-Dig	30000	Home Cinema
3.860	V	Reality	30000	Home Cinema
3.860	V	Reality-Dig	30000	Home Cinema
3.860	V	Soccer	30000	Home Cinema
3.860	V	Soccer-Dig	30000	Quality Entertain.
3.860	V	Speed	30000	Home Cinema
3.860	V	Speed-Dig	30000	Home Cinema
3.860	V	FBN - Fox Business	30000	Home Cinema
3.860	V	FNB - Fox Business	30000	Quality Entertain.
3.860	V	Future 2	30000	
3.860	V	Future 2-Dig	30000	
3.920	H	Africa	26000	News + Series
3.920	H	Europe audios 3 & 4	26000	News + Series
3.920	H	ac-3 US domestic	26000	Quality Entertain.
3.920	H	Canada	26000	Quality Entertain.
3.920	H	Canada AC-3	26000	Quality Entertain.
3.920	H	Domestic	26000	Quality Entertain.
3.920	H	Domestic-English onl	26000	Quality Entertain.
3.920	H	EWTN Europe Englis	26000	Quality Entertain.
3.920	H	EWTN Europe Intern	26000	News + Series
3.920	H	latin AC-3	26000	Quality Entertain.
3.920	H	PAC RIM	26000	Quality Entertain.
3.920	H	Radio 95	26000	Quality Entertain.
3.920	H	Radio 96	26000	Quality Entertain.
3.920	H	Real SP & Radio	26000	Quality Entertain.
3.920	H	Span Dom	26000	Quality Entertain.
3.920	H	Span Int	26000	News + Series
3.920	H	Span Int AC3	26000	
3.920	H	WEWN	26000	Quality Entertain.
4.014	H	THE WORD NETWORK	6620	Home Cinema
4.014	H	WORD NETWORK 2 AC	6620	Home Cinema
4.100	V	LSG FSN Blackout/A	30000	High Qual. Cinema
4.100	V	LSG FSN Blackout/A	30000	High Qual. Cinema
4.100	V	LSG FSN Blackout/A	30000	High Qual. Cinema
4.100	V	VIRTUAL COPY RM	30000	High Qual. Cinema
4.100	V	LSG FSN North West	30000	High Qual. Cinema
4.100	V	LSG FSN Pittsburgh	30000	High Qual. Cinema
4.100	V	LSG FSN Rocky Moun	30000	High Qual. Cinema
4.100	V	VIRTUAL COPY 2 RM	30000	High Qual. Cinema
4.100	V	VIRTUAL COPY NW H	30000	High Qual. Cinema
4.100	V	VIRTUAL COPY PITT	30000	High Qual. Cinema
4.100	V	LSG FSN Blackout/A	30000	
4.100	V	LSG FSN Blackout/A	30000	Quality Entertain.
4.100	V	LSG FSN Blackout/A	30000	
4.100	V	LSG FSN North West	30000	
4.100	V	LSG FSN Pittsburgh	30000	
4.100	V	LSG FSN Rocky Moun	30000	
4.100	V	VIRTUAL COPY 2 RM	30000	
4.100	V	VIRTUAL COPY NW S	30000	
4.100	V	VIRTUAL COPY PITT	30000	Quality Entertain.
4.100	V	VIRTUAL COPY RM S	30000	Quality Entertain.
4.134	H	TOC - DVIDS 1	6112	Advertisement
11.865	V	Unknown	2500	Home Cinema
11.925	V	KCRG Newstar 9	3978	Quality Entertain.
11.925	V	Service 2	3978	Quality Entertain.
11.955	V	KNXV DLPU	3978	Home Cinema
12.015	V	Service 1	3978	Home Cinema
12.050	V	FETN	13354	News + Series
12.050	V	HSTN	13354	News + Series
12.050	V	LETN	13354	News + Series
12.050	V	LTCN	13354	News + Series
12.050	V	Occasional Use - 4	13354	News + Series
12.050	V	Occasional Use - 1	13354	Low Level
12.050	V	Occasional Use - 2	13354	Low Level
12.050	V	Occasional Use - 3	13354	Advertisement
12.050	V	TXCN	13354	Advertisement
12.050	V	TXCN_AC3	13354	
12.135	V	Unknown	15000	Home Cinema
12.186	V	TWC	6111	Home Cinema

North America

NIMIQ 1

269.1 East (90.9 West)

NIM001KB



12.224	R	A-LON	20000	News + Series
12.224	R	CBC-L	20000	News + Series
12.224	R	CPAC	20000	News + Series
12.224	R	CPACF	20000	News + Series
12.224	R	CTV-L	20000	Low Level
12.224	R	HIST	20000	News + Series
12.224	R	HSTDv	20000	Quality Entertain.
12.224	R	ISSUE	20000	Quality Entertain.
12.224	R	MTV	20000	News + Series
12.224	R	NCAR2	20000	News + Series
12.224	R	RCVu0	20000	Low Level
12.224	R	RCVu0*	20000	News + Series
● 12.224	R	SHOP	20000	News + Series
12.224	R	TVLND	20000	Quality Entertain.
12.224	R	Vu22	20000	News + Series
● 12.239	L	A-VI	20000	News + Series
12.239	L	CW11	20000	News + Series
12.239	L	GSN	20000	News + Series
12.239	L	HLTH	20000	Quality Entertain.
12.239	L	NCAR4	20000	News + Series
12.239	L	NHL8	20000	News + Series
12.239	L	OLN	20000	News + Series
12.239	L	OUTTV	20000	Quality Entertain.
12.239	L	RAI	20000	News + Series
12.239	L	RCV11	20000	Low Level
● 12.239	L	VIDv	20000	News + Series
12.239	L	Vu15	20000	Low Level
12.239	L	Vu24	20000	Low Level
12.239	L	VuF1	20000	Low Level
12.253	R	VNS10	20000	News + Series
12.253	R	VNS11	20000	News + Series
12.253	R	VNS12	20000	News + Series
12.253	R	VNUS*	20000	News + Series
12.253	R	VNUS0	20000	News + Series
12.253	R	VNUS1	20000	News + Series
12.253	R	VNUS2	20000	News + Series
12.253	R	VNUS3	20000	News + Series
12.253	R	VNUS4	20000	News + Series
12.253	R	VNUS5	20000	News + Series
12.253	R	VNUS6	20000	News + Series
12.253	R	VNUS7	20000	News + Series
12.253	R	VNUS8	20000	News + Series
12.253	R	VNUS9	20000	News + Series
● 12.268	L	CBSCS	20000	Quality Entertain.
12.268	L	FOXNC	20000	Quality Entertain.
12.268	L	GLB-T	20000	News + Series
12.268	L	GLBDv	20000	News + Series
12.268	L	IDMTV	20000	News + Series
12.268	L	MLB9	20000	Quality Entertain.
12.268	L	SETNA	20000	Quality Entertain.
12.268	L	SPACE	20000	News + Series
12.268	L	SPCDv	20000	Quality Entertain.
● 12.268	L	SUNTV	20000	Quality Entertain.
● 12.268	L	TTRF	20000	Advertisement
● 12.268	L	Vu!99	20000	News + Series
● 12.268	L	Vu!99*	20000	News + Series
12.268	L	VuF18	20000	News + Series
● 12.282	R	A&E	20000	News + Series
12.282	R	CTV-R	20000	News + Series
● 12.282	R	CTV-T	20000	Quality Entertain.
● 12.282	R	CTVDv	20000	Quality Entertain.
12.282	R	DEJA	20000	Quality Entertain.
● 12.282	R	FOOD	20000	Quality Entertain.
● 12.282	R	FOOD*	20000	Quality Entertain.
12.282	R	FOXSP	20000	Quality Entertain.
● 12.282	R	HGTDv	20000	Low Level
● 12.282	R	HGTV	20000	Low Level
12.282	R	MSTRY	20000	Quality Entertain.
12.282	R	MTIME	20000	Quality Entertain.
● 12.282	R	TLC	20000	News + Series
12.297	L	BluVu	20000	News + Series
12.297	L	COSMO	20000	Low Level
12.297	L	CRKT2	20000	Low Level
12.297	L	IFC	20000	Home Cinema
12.297	L	MLB4	20000	Quality Entertain.
12.297	L	NFL4	20000	Quality Entertain.
12.297	L	NHL-i	20000	Low Level
12.297	L	NHL4	20000	Low Level
12.297	L	PHDIS	20000	Quality Entertain.
12.297	L	RAPTR	20000	Home Cinema
12.297	L	SRC-O	20000	News + Series

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

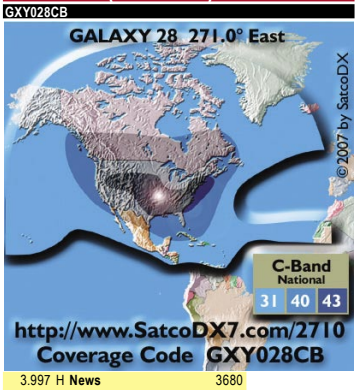
Cost Conscious Entertainment ..... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
●12.297	L	SRC-O*	20000	Quality Entertain.
12.297	L	TNGR1	20000	Low Level
12.297	L	Vu32	20000	News + Series
12.297	L	INFO 1	20000	News + Series
12.297	L	INFO 2	20000	Quality Entertain.
12.297	L	INFO 3	20000	Low Level
●12.311	R	CHCH	20000	News + Series
●12.311	R	CTVNC	20000	Quality Entertain.
12.311	R	DvEPG	20000	News + Series
12.311	R	E!Dv	20000	Low Level
12.311	R	GLB-E	20000	News + Series
12.311	R	NBC-E	20000	News + Series
12.311	R	SCORE	20000	News + Series
12.311	R	Vu14	20000	Quality Entertain.
12.311	R	Vu2	20000	Quality Entertain.
12.311	R	Vu7	20000	Low Level
12.311	R	VuF7	20000	Low Level
12.311	R	WSBK	20000	Quality Entertain.
12.341	R	APTNn	20000	Quality Entertain.
●12.341	R	APTNn*	20000	News + Series
●12.341	R	CHEK	20000	News + Series
12.341	R	CITYV	20000	Low Level
12.341	R	CTV-V	20000	News + Series
12.341	R	DvCTV	20000	Quality Entertain.
12.341	R	DvCTY	20000	News + Series
12.341	R	DvE!	20000	News + Series
12.341	R	DvPBS	20000	Low Level
12.341	R	iTV	20000	News + Series
12.341	R	iTVI*	20000	News + Series
12.341	R	PBS-W	20000	Quality Entertain.
●12.341	R	STAR	20000	Home Cinema
●12.341	R	STRDv	20000	News + Series
●12.341	R	TREDv	20000	News + Series
●12.341	R	TREE	20000	Low Level
12.341	R	TV5	20000	Low Level
12.341	R	Vu	20000	Quality Entertain.
12.341	R	Vu6	20000	Low Level
12.341	R	VuF6	20000	Quality Entertain.
12.341	R	VuS32	20000	News + Series
12.355	L	ABC-W	20000	Home Cinema
12.355	L	ANIML	20000	Quality Entertain.
●12.355	L	BabyE	20000	Low Level
●12.355	L	BabyF	20000	Low Level
●12.355	L	BabyS	20000	Low Level
●12.355	L	CP24	20000	News + Series
12.355	L	MMM	20000	News + Series
12.355	L	MPIX	20000	Home Cinema
12.355	L	NCAA1	20000	Quality Entertain.
12.355	L	NFL6	20000	Quality Entertain.
●12.355	L	SLVSC*	20000	Quality Entertain.
12.355	L	SNETP	20000	Home Cinema
12.355	L	SRC-W	20000	News + Series
12.355	L	Vu30	20000	News + Series
12.370	R	BET	20000	News + Series
12.370	R	CNN	20000	News + Series
12.370	R	FOX-W	20000	Quality Entertain.
●12.370	R	GLB-H	20000	News + Series
12.370	R	MET*	20000	Quality Entertain.
12.370	R	METEO	20000	News + Series
12.370	R	MLB8	20000	News + Series
12.370	R	NFL-N	20000	Quality Entertain.
12.370	R	NHL-C	20000	Home Cinema
12.370	R	NHL-E	20000	Quality Entertain.
●12.370	R	NHLMH	20000	News + Series
12.370	R	NPAS	20000	Low Level
12.370	R	PBS-E	20000	News + Series
12.370	R	PBSDv	20000	News + Series
12.370	R	Vu19	20000	News + Series
12.370	R	WEA	20000	News + Series
12.370	R	WEA*	20000	News + Series
12.370	R	WGN	20000	News + Series
●12.384	L	CAN-S	20000	Low Level
12.384	L	CAN-Z	20000	Low Level
●12.384	L	CAN-Z*	20000	Low Level
12.384	L	SE	20000	News + Series
12.384	L	SE2	20000	Low Level
12.384	L	SE3	20000	News + Series
12.384	L	SE4	20000	Low Level
12.384	L	SRC-V	20000	Low Level
●12.384	L	TVASa	20000	Low Level
●12.384	L	V-SBR	20000	Low Level
12.384	L	VRAK	20000	News + Series
●12.384	L	VRKDv	20000	News + Series
●12.399	R	AMBER	20000	Advertisement
●12.399	R	AMBER*	20000	Advertisement
12.399	R	CBC-A	20000	News + Series
12.399	R	CBC-a	20000	Low Level
●12.399	R	CTV-w	20000	News + Series
●12.399	R	CTV-W	20000	News + Series
●12.399	R	FIGHT	20000	Quality Entertain.
12.399	R	LIONS	20000	News + Series
12.399	R	MCTV	20000	Quality Entertain.
12.399	R	MCTV*	20000	News + Series
12.399	R	MLB7	20000	News + Series
12.399	R	NCAA4	20000	Low Level
12.399	R	NFL9	20000	News + Series
12.399	R	NHL7	20000	Quality Entertain.
●12.399	R	OM1Dv	20000	News + Series
12.399	R	OMNI1	20000	News + Series
12.399	R	SPRDv	20000	News + Series
12.399	R	SUPR1	20000	Quality Entertain.
12.399	R	TROP	20000	Low Level
12.399	R	TRPDv	20000	News + Series
●12.399	R	TSN-A	20000	Quality Entertain.
12.399	R	UPDTS	20000	News + Series
●12.399	R	UPDTS*	20000	Low Level
12.399	R	VISON	20000	News + Series
12.399	R	Vison	20000	News + Series
12.399	R	Vu25	20000	News + Series
12.399	R	Vu27	20000	Low Level
12.414	L	CBC-M	20000	Low Level
12.414	L	CIVIL	20000	Quality Entertain.
12.414	L	ESPNc	20000	Quality Entertain.
12.414	L	MLB10	20000	News + Series
12.414	L	MUSMX	20000	News + Series
●12.414	L	OM2Dv	20000	News + Series
12.414	L	OMNI2	20000	News + Series
12.414	L	ONE	20000	Quality Entertain.
12.414	L	ONEDv	20000	News + Series
12.414	L	Prise	20000	News + Series
12.414	L	RCVu3	20000	News + Series
12.414	L	RCVu3*	20000	News + Series
12.414	L	SHO-E	20000	News + Series
12.414	L	SPIKE	20000	News + Series
12.414	L	VuF17	20000	News + Series
12.414	L	OnHD	20000	News + Series
12.428	R	A-ATL	20000	News + Series
●12.428	R	AATDv	20000	Low Level
12.428	R	BOOK	20000	Quality Entertain.
12.428	R	CITYW	20000	News + Series
12.428	R	COURT	20000	Quality Entertain.
●12.428	R	GLB-M	20000	News + Series
12.428	R	HPI-C	20000	Quality Entertain.
12.428	R	HPI-W	20000	Quality Entertain.
12.428	R	MLB1	20000	News + Series
12.428	R	NFL1	20000	Quality Entertain.
12.428	R	NHL1	20000	Quality Entertain.
12.428	R	NTV	20000	Low Level
12.428	R	SUPR2	20000	Quality Entertain.
12.428	R	Vu35	20000	Low Level
12.428	R	WLDTV	20000	Quality Entertain.
12.443	L	ATV	20000	News + Series
●12.443	L	CBC-C	20000	Low Level
12.443	L	CBC-H	20000	Low Level
12.443	L	CBCDC	20000	News + Series
●12.443	L	CITYC	20000	Quality Entertain.
12.443	L	CITYE	20000	Quality Entertain.
●12.443	L	CTV-c	20000	Low Level
●12.443	L	CTV-C	20000	Low Level
●12.443	L	GLB-C	20000	Low Level
●12.443	L	GLB-S	20000	News + Series
●12.443	L	GLCDv	20000	Low Level
●12.443	L	GLSDv	20000	Low Level
12.443	L	KNOW	20000	Low Level
●12.443	L	MIRCL	20000	Low Level
12.443	L	SCN	20000	Quality Entertain.
12.457	R	EA1	20000	Low Level
12.457	R	EA2	20000	Low Level
12.457	R	FAM-W	20000	Quality Entertain.
12.457	R	FMLY	20000	News + Series
●12.457	R	GolSP	20000	Quality Entertain.
12.457	R	GolTV	20000	Quality Entertain.
12.457	R	HBO2	20000	Quality Entertain.
12.457	R	MC1	20000	Quality Entertain.
12.457	R	MC2	20000	Quality Entertain.
12.457	R	MC3	20000	Quality Entertain.
12.457	R	TOONE	20000	News + Series
12.457	R	TOONF	20000	News + Series
12.457	R	TOONW	20000	News + Series
12.457	R	TTeDv	20000	News + Series
12.457	R	TTfDv	20000	News + Series
12.457	R	TTwDv	20000	Low Level
12.472	L	AOV	20000	News + Series
12.472	L	AOV-M	20000	Quality Entertain.
12.472	L	PLBOY	20000	Quality Entertain.
12.472	L	SEXTV	20000	Quality Entertain.
12.472	L	VENUS	20000	News + Series
12.486	R	CBC-w	20000	News + Series
12.486	R	CBC-W	20000	News + Series
12.486	R	CBCaa	20000	Low Level
12.486	R	CMT	20000	Low Level
12.486	R	DOCU	20000	Quality Entertain.
12.486	R	GOLF	20000	Low Level
12.486	R	MLB13	20000	Quality Entertain.
12.486	R	NCAR1	20000	News + Series
12.486	R	NEWS2	20000	Low Level
12.486	R	PPVu	20000	News + Series
12.486	R	PPVu*	20000	Quality Entertain.
12.486	R	PPVu*1	20000	News + Series
12.486	R	TECH	20000	Quality Entertain.
12.486	R	TRAVL	20000	Quality Entertain.
12.486	R	TVA-R	20000	News + Series
12.486	R	VnBuy	20000	News + Series
12.486	R	Vu21	20000	Low Level
12.486	R	YTV-W	20000	News + Series
●12.486	R	YTV-W*	20000	News + Series
12.486	R	NFL14	20000	Advertisement
12.486	R	VNUS	20000	Advertisement
12.486	R	XPRS5	20000	Advertisement
12.501	L	BOLD	20000	Quality Entertain.
12.501	L	CFJC	20000	News + Series
12.501	L	CMDYW	20000	Quality Entertain.
●12.501	L	DUSK	20000	Quality Entertain.
12.501	L	DvCom	20000	News + Series
12.501	L	NCAR	20000	Low Level
12.501	L	RCVu1	20000	News + Series
12.501	L	RCVu1*	20000	News + Series
12.501	L	RCVu2	20000	News + Series
12.501	L	RCVu2*	20000	Low Level
12.501	L	SPEED	20000	News + Series
12.501	L	TROPW	20000	News + Series
12.501	L	VIBE	20000	Quality Entertain.
12.501	L	Vu20	20000	Low Level
12.501	L	W	20000	News + Series
12.501	L	YTV-E	20000	Quality Entertain.
●12.501	L	YTV-E*	20000	Low Level
12.516	R	ABC-E	20000	Quality Entertain.
12.516	R	CAN-V	20000	News + Series
12.516	R	CBCNW	20000	News + Series
12.516	R	GLB-W	20000	Low Level
12.516	R	GLB-w	20000	Low Level
12.516	R	M-XS	20000	Quality Entertain.
12.516	R	MLB5	20000	Quality Entertain.
12.516	R	NFL5	20000	Quality Entertain.
12.516	R	NHL-V	20000	Quality Entertain.
12.516	R	NHL5	20000	News + Series
12.516	R	SNETW	20000	Quality Entertain.
12.516	R	SUPR3	20000	Home Cinema
12.516	R	Vu31	20000	News + Series
12.516	R	Vu8	20000	Low Level
12.516	R	Vu9	20000	Quality Entertain.
12.516	R	VuF8	20000	Low Level
12.516	R	VuF9	20000	Low Level
12.516	R	WFN	20000	Quality Entertain.
12.530	L	ANQ	20000	Quality Entertain.
●12.530	L	CAN-D	20000	News + Series
12.530	L	EVASI	20000	Quality Entertain.
12.530	L	LCN	20000	News + Series
12.530	L	SRC-M	20000	Low Level
●12.530	L	SRCDv	20000	Low Level
12.530	L	TELEQ	20000	Low Level
12.530	L	TVA-M	20000	Quality Entertain.
12.530	L	TVA-O	20000	News + Series
●12.530	L	V-MTL	20000	News + Series
●12.545	R	BNN	20000	News + Series
12.545	R	CITYT	20000	News + Series
12.545	R	CTYDv	20000	News + Series
12.545	R	FOX-E	20000	Low Level
12.545	R	Kids	20000	News + Series
12.545	R	M	20000	Quality Entertain.
12.545	R	MLB12	20000	Quality Entertain.
12.545	R	NCAA5	20000	News + Series
●12.545	R	NFL13	20000	News + Series
12.545	R	NHL10	20000	Quality Entertain.
12.545	R	RCVu4	20000	News + Series
12.545	R	RCVu4*	20000	Quality Entertain.
12.545	R	SNETE	20000	Quality Entertain.
12.545	R	Vu10	20000	Low Level
12.545	R	Vu11	20000	Low Level
12.545	R	VuF10	20000	News + Series
12.545	R	VuF11	20000	Low Level
12.545	R	VuF15	20000	News + Series
12.545	R	VuF3	20000	Home Cinema
12.559	L	CBC-V	20000	Quality Entertain.
12.559	L	CBS-W	20000	News + Series
12.559	L	COMM	20000	Quality Entertain.
12.559	L	DvCBC	20000	Quality Entertain.
12.559	L	M-FUN	20000	Quality Entertain.
12.559	L	MFEST	20000	Quality Entertain.
12.559	L	NFL11	20000	Quality Entertain.
●12.559	L	SLCDv	20000	News + Series
12.559	L	SLICE	20000	Low Level
12.559	L	TSN	20000	Home Cinema
12.559	L	Vu4	20000	Quality Entertain.
12.559	L	VuF13	20000	News + Series
12.559	L	VuPPV	20000	News + Series
12.559	L	VuPPV*	20000	News + Series
12.559	L	VuPPV*1	20000	News + Series
12.574	R	CBS-E	20000	Quality Entertain.
●12.574	R	DISC	20000	Quality Entertain.
●12.574	R	DISDv	20000	Quality Entertain.
12.574	R	DvGLB	20000	Low Level
12.574	R	GLB-V	20000	News + Series
12.574	R	LEAFS	20000	News + Series
12.574	R	MLB2	20000	Quality Entertain.
12.574	R	MRPIX	20000	Quality Entertain.
12.574	R	MUCH	20000	Quality Entertain.
12.574	R	NFL2	20000	News + Series
12.574	R	NHL2	20000	News + Series
12.574	R	TAC	20000	Low Level
12.574	R	Vu1	20000	News + Series
12.574	R	Vu3	20000	Quality Entertain.
12.574	R	Vu34	20000	News + Series
12.574	R	Vu5	20000	News + Series
12.574	R	VuF5	20000	News + Series
12.588	L	ARGNT	20000	Low Level
12.588	L	ARTV	20000	Quality Entertain.
12.588	L	cnpop	20000	Quality Entertain.
12.588	L	MENTV	20000	Quality Entertain.
12.588	L	Mystr	20000	News + Series
12.588	L	RDS	20000	Quality Entertain.
●12.588	L	S+Dv	20000	News + Series
●12.588	L	SERIE	20000	Low Level
12.588	L	SRC-Q	20000	News + Series
12.588	L	TVASh	20000	News + Series
12.589	L	ARGNT	20000	News + Series
12.589	L	ARTV	20000	Quality Entertain.
12.589	L	cnpop	20000	Quality Entertain.
12.589	L	MENTV	20000	Quality Entertain.
12.589	L	Mystr	20000	News + Series
12.589	L	RDS	20000	Home Cinema
●12.589	L	S+Dv	20000	Low Level
●12.589	L	SERIE	20000	News + Series
12.589	L	SRC-Q	20000	News + Series
12.589	L	TVASh	20000	News + Series
12.603	R	APTN	20000	Low Level
●12.603	R	APTN*	20000	Low Level
12.603	R	BIO	20000	Quality Entertain.
12.603	R	BPM	20000	Quality Entertain.
12.603	R	CTS	20000	Low Level
12.603	R	HLN	20000	News + Series
12.603	R	MLB11	20000	Quality Entertain.
12.603	R	MTV2	20000	Quality Entertain.
12.603	R	NCAA6	20000	News + Series
12.603	R	NCAR3	20000	Home Cinema
12.603	R	NFL10	20000	News + Series
12.603	R	NHL9	20000	Quality Entertain.
12.603	R	RCVu5	20000	News + Series
12.603	R	RCVu5*	20000	News + Series
12.603	R	SHO-W	20000	Low Level
12.603	R	TELAT	20000	News + Series
12.603	R	Vu23	20000	News + Series
12.603	R	VuF14	20000	News + Series
12.603	R	VuF16	20000	Low Level
12.618	L	ACTN	20000	Quality Entertain.
12.618	L	CHEX	20000	Low Level
12.618	L	CRKT1	20000	News + Series
●12.618	L	CTODI	20000	News + Series
12.618	L	DIVA	20000	Quality Entertain.
12.618	L	DRVin	20000	Quality Entertain.
●12.618	L	FineL	20000	News + Series
12.618	L	FTV	20000	Quality Entertain.
●12.618	L	FTVDv	20000	News + Series
12.618	L	NHLVu	20000	Low Level
12.618	L	PEACH	20000	Low Level
12.618	L	RCV10*	20000	News + Series
12.618	L	RCVu6	20000	Quality Entertain.
12.618	L	RCVu6*	20000	News + Series
12.618	L	RCVu7	20000	Low Level
12.618	L	RCVu7*	20000	Low Level
●12.618	L	T20CL	20000	News + Series
12.618	L	TFO	20000	Quality Entertain.
●12.618	L	TFODv	20000	News + Series
12.618	L	Vu16	20000	News + Series
12.632	R	A-BAR	20000	News + Series
12.632	R	BARDv	20000	News + Series
12.632	R	CBCNA	20000	News + Series
12.632	R	CNBC	20000	Low Level
12.632	R	DRM	20000	Low Level
12.632	R	EVNTS	20000	Quality Entertain.
12.632	R	GEO	20000	Quality Entertain.
12.632	R	MVOLA	20000	Quality Entertain.
12.632	R	NCAA2	20000	Quality Entertain.
12.632	R	NFL7	20000	News + Series
12.632	R	RIS	20000	News + Series
12.632	R	TOONR	20000	Quality Entertain.
12.632	R	Vu-F	20000	Low Level
12.632	R	Vu12	20000	Quality Entertain.
12.632	R	Vu29	20000	News + Series
12.632	R	VuFr	20000	Low Level
12.632	R	VuP32	20000	Low Level
12.647	L	BBC-C	20000	Quality Entertain.
12.647	L	BBC-K	20000	News + Series
12.647	L	BRAVO	20000	Quality Entertain.
●12.647	L	BRVDv	20000	Quality Entertain.
12.647	L	CBC-O	20000	Low Level
12.647	L	CTV-e	20000	Low Level
12.647	L	CTV-E	20000	Low Level
12.647	L	KTLA	20000	News + Series
12.647	L	NCAA3	20000	News + Series
12.647	L	NEWS1	20000	News + Series
12.647	L	NFL8	20000	Quality Entertain.
12.647	L	RCVu8	20000	Low Level
12.647	L	RCVu8*	20000	Low Level
12.647	L	TSN2	20000	News + Series
12.647	L	TVA-G	20000	News + Series
12.647	L	Vu13	20000	Quality Entertain.
12.647	L	Vu18	20000	Low Level
12.647	L	Vu28	20000	News + Series
12.661	R	A-OTT	20000	News + Series
12.661	R	ACCES	20000	Quality Entertain.
12.661	R	CMDY	20000	News + Series
12.661	R	COMDv	20000	News + Series
12.661	R	MLB6	20000	News + Series
12.661	R	NFL12	20000	Quality Entertain.
12.661	R	NHL-N	20000	Quality Entertain.
12.661	R	NHL6	20000	News + Series
12.661	R	RCVu9*	20000	Low Level
12.661	R	SRC-A	20000	News + Series
12.661	R	SUPR4	20000	Quality Entertain.
12.661	R	TVO	20000	News + Series
●12.661	R	TVODv	20000	News + Series
12.661	R	Vu17	20000	News + Series
12.661	R	Vu26	20000	Low Level
12.661	R	VuF12	20000	Low Level
12.661	R	VuF2	20000	News + Series
●12.661	R	ALERT	20000	Low Level
12.661	R	ALRT	20000	Low Level
●12.661	R	LOCK	20000	Low Level
12.661	R	LOCK*	20000	Low Level
●12.661	R	Vu-F 1	20000	Low Level
12.661	R	Vu-F*	20000	Low Level
12.676	L	ADR	20000	Low Level
●12.676	L	CAN-H	20000	Quality Entertain.
●12.676	L	CAN-H*	20000	Low Level
12.676	L	CTMDv	20000	News + Series
12.676	L	CTV-M	20000	Low Level
12.676	L	SRCSh	20000	News + Series
12.676	L	TVA-Q	20000	News + Series
12.676	L	TVARL	20000	News + Series
12.676	L	TVARN	20000	Low Level
●12.676	L	V-QBC	20000	News + Series
●12.676	L	V-RL	20000	News + Series
●12.676	L	V-SGN	20000	News + Series

GALAXY 28

271.0 East (89.0 West)

GXY028CB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.997	H	News	3680	
3.997	H	Pacific	3680	
3.997	H	Sports	3680	
4.060	H	AFN Family	28000	
4.060	H	AFN Freedom	28000	
4.060	H	AFN Movie	28000	
4.060	H	AFN News	28000	
4.060	H	AFN Prime Atlantic	28000	
4.060	H	AFN Prime Pacific	28000	
4.060	H	AFN Spectrum	28000	
4.060	H	AFN Sports	28000	
4.060	H	AFN Xtra	28000	
4.060	H	Atlantic 2	28000	
4.060	H	Atlantic 3	28000	
4.060	H	Atlantic 4	28000	
4.060	H	Atlantic 5	28000	
4.060	H	Atlantic 6	28000	
4.060	H	Atlantic 7	28000	
4.060	H	Atlantic 8	28000	
4.060	H	Atlantic 9	28000	
4.060	H	Engineering Channel	28000	
4.060	H	Adult Rock	28000	
4.060	H	AFN Back-up for A	28000	

TV FTA — DVB-S MPEG-2 — DVB-S MPEG-4 — DVB-S2 MPEG-2 — DVB-S2 MPEG-4

TV CRYPT — DVB-S MPEG-2 — DVB-S MPEG-4 — DVB-S2 MPEG-2 — DVB-S2 MPEG-4

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
4.060	H	AFN Back-up to AFN	28000	
4.060	H	AFN Back-up to AF	28000	
4.060	H	AFN Program Guide	28000	
4.060	H	AFN Radio Variable	28000	
4.060	H	Backhaul from Baghda	28000	
4.060	H	Backhaul to Japan	28000	
4.060	H	Bright AC	28000	
4.060	H	Contingency (Closed	28000	
4.060	H	ESPN Plus	28000	
4.060	H	Fox Sports Talk	28000	
4.060	H	Hot AC	28000	
4.060	H	Interruptable Voice	28000	
4.060	H	Mainstream Country	28000	
4.060	H	NPR International	28000	
4.060	H	Oldies	28000	
4.060	H	SMPTE Time Code	28000	
4.060	H	The Pentagon Channel	28000	
4.060	H	The Touch	28000	
4.060	H	U/I Split /UIVoice	28000	
4.060	H	Uninterruptable Voic	28000	
4.060	H	Z-Rock (ABC Altern	28000	
4.140	H	Crawford HD 1	29270	

North America

GALAXY 28

271.1 East (88.9 West)

GXY028KB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.758	V	TRAVERTINE	26000	
11.787	H	Keystone HD	15915	Advertisement
11.787	H	BTV_2	15915	Advertisement
11.787	H	BTV-1	15915	News + Series
● 11.787	H	North America Bkup	15915	News + Series
11.800	V	Channel 2 Baltimore	26660	News + Series
11.800	V	Channel 3 Kansas Stu	26660	Quality Entertain.
11.800	V	Channel 5 Dallas Stu	26660	News + Series
11.800	V	Channel 6 Seattle St	26660	News + Series
11.800	V	Channel 8 Baltimor	26660	News + Series
11.800	V	Channel 9 Baltimor	26660	News + Series
11.800	V	Channel 10 Test Patt	26660	News + Series
11.882	H	Service 1	4883	Quality Entertain.
11.955	H	ABC Feed	3978	
11.955	V	ABC NEWS NOW	19533	Quality Entertain.
11.955	V	ABSAT CH2	19533	News + Series
11.955	V	NEWS1 LIVE	19533	Home Cinema
11.965	H	Tandberg Service	3979	News + Series
● 11.970	V	ABC News0ne	3979	Quality Entertain.
● 11.970	H	FIRST CALL UPLINK	3979	Quality Entertain.
11.980	H	KABC	3979	Quality Entertain.
11.985	H	Service 2 SD	3979	Home Cinema
11.990	H	KABC	3979	Quality Entertain.
11.995	H	Service 2	3979	Quality Entertain.
12.060	H	TRAVERTINE	26600	
12.131	V	Channel 1 Baltimore	10370	Quality Entertain.
12.131	V	Channel 4 Atlanta St	10370	Quality Entertain.
12.131	V	Channel 7 Baltimore	10370	Quality Entertain.
12.170	H	Feed	15914	
● 12.173	H	WMUR-9 PATH A	2785	News + Series
● 12.181	H	WLWT_SNV	2785	News + Series
● 12.184	H	KETV ENC 1	2785	Quality Entertain.
● 12.194	H	WBAL	2785	News + Series

South America

GALAXY 28

271.2 East (88.8 West)

GXY028SA

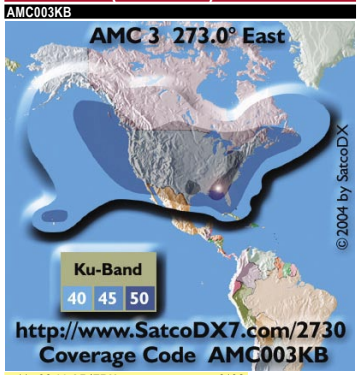


Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.800	H	CANAL 21	30000	Advertisement
● 11.841	H	Formatura	13021	News + Series
11.882	H	Service 1	4883	Quality Entertain.
11.960	H	19 - Home & Health	28800	Low Level
11.960	H	20 - IIGD	28800	Low Level
11.960	H	21 - CJC	28800	News + Series
11.960	H	22 - RTPI	28800	Low Level
● 11.960	H	23 - Infinito	28800	Low Level
11.960	H	24 - Band Sport	28800	News + Series
● 11.960	H	25 - Disc. Turbo	28800	News + Series
11.960	H	26 - TCM	28800	Low Level
11.960	H	27 - Animal Planet	28800	Low Level
11.960	H	28 - ESPN Brasil	28800	News + Series
11.960	H	29 - Travel & Living	28800	Low Level
11.960	H	30 - WooHoo	28800	News + Series
11.960	H	31 - Ra Tim Bum	28800	Low Level
11.960	H	32 - Hallmark	28800	News + Series
● 11.960	H	33 - Disc. Science	28800	Low Level
11.960	H	34 - Disc. Civilizat	28800	Low Level
11.960	H	35 - NatGeo	28800	News + Series
11.960	H	36 - DW TV	28800	News + Series
12.000	H	01 - RIT	28800	Low Level
12.000	H	02 - RIT Noticias	28800	Low Level
12.000	H	03 - SOS Espiritual	28800	News + Series
12.000	H	04 - TV Escola - Ig	28800	Low Level
12.000	H	05 - Nuestra TV	28800	News + Series
12.000	H	06 - Play House	28800	Low Level
12.000	H	07 - TV Enlace	28800	Low Level
12.000	H	08 - Terra Viva	28800	News + Series
12.000	H	09 - Bandeirantes	28800	News + Series
12.000	H	10 - Fox Life	28800	News + Series
● 12.000	H	11 - Tooncast	28800	News + Series
12.000	H	12 - Boomerang	28800	News + Series
● 12.000	H	13 - Disc. Channel	28800	News + Series
12.000	H	14 - Discovery Kids	28800	News + Series
12.000	H	15 - Disney Channel	28800	News + Series
12.000	H	16 - ESPN Internatio	28800	News + Series
12.000	H	17 - TNT	28800	News + Series
12.000	H	18 - CNN Espanhol	28800	News + Series
12.134	H	Television 1	4000	Quality Entertain.

AMC 3

273.0 East (87.0 West)

AMC003KB

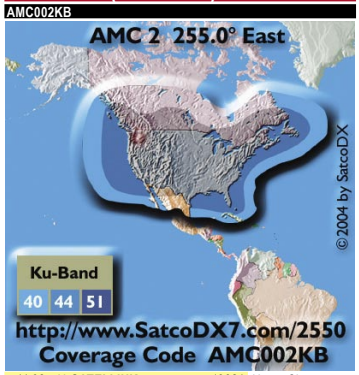


Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.736	V	AR/FRN	6102	
11.736	V	Arabic	8333	News + Series
11.736	V	Arabiya	8333	News + Series
11.736	V	Bangla	8333	News + Series
11.736	V	English	8333	News + Series
11.736	V	ENGLISH	6102	
11.736	V	French	8333	News + Series
11.736	V	INFO.	6102	
11.736	V	InfoCast	8333	Low Level
11.736	V	MTA+3	8333	News + Series
11.736	V	MTAOne	8333	News + Series
11.736	V	UR/ENG	6102	
11.736	V	URDU	6102	
11.800	H	Unknown	30000	
11.821	V	AR/FRN	10000	
11.956	H	Entertainment,Reques	21000	
11.956	H	Live Events	21000	
11.956	H	Marketsource	21000	
11.956	H	Newsource Main	21000	
11.957	H	Entertainment,Reques	21000	
11.957	H	Live Events	21000	
11.957	H	Marketsource	21000	
11.957	H	Newsource Main	21000	
11.974	H	GPTV feeds (Channe	6000	
11.975	H	Channel 5 - Washingt	6000	
12.009	V	AR/FRN	5000	
12.098	V	Service 2	4340	
12.140	V	Unknown	30000	
12.144	H	Montana PBS Feed (	4340	
12.157	H	Unknown	4444	
12.169	H	Service 2 SD	4444	
12.180	V	Unknown	30000	

AMC 16

275.0 East (85.0 West)

AMC002KB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.987	H	SATELLINK	13021	Home Cinema
12.167	V	502-262-7148 SABI	12500	Home Cinema
12.186	H	STS 3 Encoder 1	14030	Home Cinema

C-Band: BRASILSAT B3

276.0 East (84.0 West)

BRA0B3CR



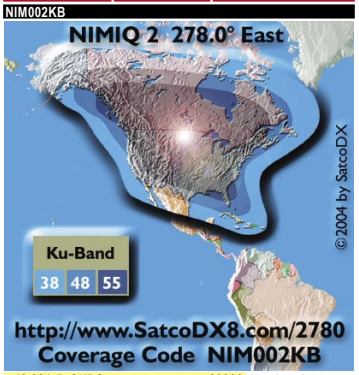
Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.688	V	Canal 21	2308	

North America

NIMIQ 4

278.0 East (82.0 West)

NIM002KB

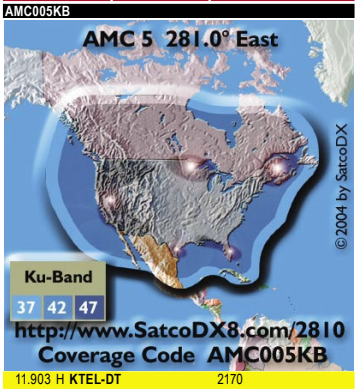


Freq	Pol	Channel Name	Symbol Rate	Programming Type
12.224	R	CKPG	20000	Low Level
12.224	R	FAIR	20000	Low Level
12.224	R	FAIRM	20000	Low Level
12.224	R	FAIRW	20000	News + Series
12.224	R	PUNCH	20000	Home Cinema
12.224	R	RTVi+	20000	News + Series
12.224	R	S+L	20000	Low Level
12.224	R	SLN	20000	Low Level
12.224	R	SLVSC	20000	Quality Entertain.
12.224	R	TALNT	20000	Quality Entertain.
12.224	R	TVI	20000	News + Series
12.239	L	ALPHA	20000	News + Series
12.239	L	B4U	20000	Quality Entertain.
12.239	L	CBCTK	20000	News + Series
12.239	L	DW-TV	20000	Quality Entertain.
12.239	L	ERT	20000	News + Series
12.239	L	EWTN	20000	Quality Entertain.
12.239	L	HPI-I	20000	Quality Entertain.
12.239	L	MEGA	20000	News + Series
12.239	L	OMNBC	20000	Low Level
12.239	L	RTVi	20000	News + Series
12.239	L	SKYTG	20000	Low Level
12.239	L	Sony	20000	News + Series
12.253	R	SHWHD	21500	Home Cinema
12.253	R	WGNHD	21500	Home Cinema
12.253	R	MLBH3	21500	News + Series
12.253	R	NHLH2	21500	News + Series
12.268	L	TLCHD	21500	Home Cinema
12.268	L	TSNHD	21500	Home Cinema
12.297	L	iTV7	20000	Low Level
12.297	L	NOVA	20000	News + Series
12.297	L	NOVA*	20000	News + Series
12.297	L	VuTV5	20000	Quality Entertain.
12.311	R	VuHD	20000	Home Cinema
12.311	R	VuHD0	20000	Home Cinema
12.311	R	MLBH5	20000	News + Series
12.311	R	NSCH2	20000	News + Series
12.311	R	LFSHD	20000	Advertisement
12.341	R	RDSHD	20000	Home Cinema
12.341	R	SRCHE	20000	Home Cinema
12.355	L	SCRHD	20000	Home Cinema
12.355	L	PBSHW	20000	Quality Entertain.
12.355	L	SCHD2	20000	Home Cinema
12.370	R	CBCHW	20000	Home Cinema
12.370	R	CTYHE	20000	Home Cinema
12.384	L	VuFH1	20000	Home Cinema
12.384	L	VuHD1	20000	Home Cinema
12.384	L	VuHD2	20000	Home Cinema
12.384	L	DISHD	20000	Home Cinema
12.399	R	FOXHW	20000	Home Cinema
12.399	R	NBCHW	20000	Home Cinema
12.399	R	NHLH1	20000	Home Cinema
12.399	R	MLBH4	20000	Home Cinema
12.414	L	ABCHE	20000	Home Cinema
12.414	L	APTNH	20000	Home Cinema
12.414	L	NBCHE	20000	Quality Entertain.
12.428	R	ATN	20000	Quality Entertain.
12.428	R	BITE	20000	News + Series
12.428	R	CBCTB	20000	News + Series
● 12.428	R	CJNT	20000	News + Series
12.428	R	CTVTB	20000	News + Series
12.428	R	GMA	20000	Low Level
12.428	R	MILIT	20000	News + Series
12.428	R	Ntv	20000	News + Series
12.428	R	PHNIX	20000	News + Series
12.428	R	SRC-E	20000	News + Series
● 12.428	R	SRC-E*	20000	News + Series
12.428	R	TAMIL	20000	News + Series
12.428	R	TLNE	20000	News + Series
12.443	L	ARY	20000	News + Series
12.443	L	CBN	20000	News + Series
12.443	L	CHAT	20000	News + Series
12.443	L	CKWS	20000	News + Series
12.443	L	CPJC*	20000	News + Series
12.443	L	CTV-K	20000	Low Level
12.443	L	GTV	20000	Quality Entertain.
12.443	L	HPI-1	20000	Quality Entertain.
12.443	L	HPI-2	20000	Quality Entertain.
12.443	L	NDTV	20000	News + Series
12.443	L	ODYS1	20000	News + Series
12.443	L	TvPOL	20000	News + Series
12.457	R	OASIS	20000	Home Cinema
12.457	R	SNH-O	20000	Home Cinema
12.472	L	M-HD	20000	Home Cinema
12.472	L	SNH-P	20000	Home Cinema
12.472	L	iTV8	20000	Advertisement
12.486	R	FOXHE	20000	Home Cinema
12.486	R	HDCAL	20000	Home Cinema
12.486	R	TRESR	20000	Home Cinema
12.486	R	VuHD5	20000	Home Cinema
12.486	R	HDEDM	20000	Home Cinema
12.486	R	VuFH3	20000	Quality Entertain.
12.501	L	CTVHE	20000	Home Cinema
12.501	L	MLBH2	20000	Home Cinema
12.501	L	MPXHD	20000	Home Cinema
12.501	L	NHLH3	20000	Home Cinema
12.516	R	SEHD	20000	Home Cinema
12.516	R	D-HD	20000	Home Cinema
12.516	R	Z-HD	20000	Home Cinema
12.530	L	TQSHD	20000	Home Cinema
12.530	L	TVAHD	20000	Home Cinema
12.530	L	VRKHD	20000	Home Cinema
12.545	R	GLBHW	20000	Home Cinema
12.545	R	NCAA7	20000	Home Cinema
12.545	R	PBSHE	20000	Home Cinema
12.545	R	MLBH6	20000	Quality Entertain.
12.545	R	NSCH1	20000	Quality Entertain.
12.559	L	A&EHD	20000	Home Cinema
12.559	L	HDVAN	20000	Home Cinema
12.559	L	TV5HD	20000	Home Cinema
12.559	L	VuHD4	20000	Home Cinema
12.559	L	DLRHD	20000	Home Cinema
12.574	R	CBSHE	20000	Home Cinema
12.574	R	GEOHD	20000	Home Cinema
12.574	R	GLFHD	20000	Home Cinema
12.589	L	HDNET	20000	Home Cinema
12.589	L	NFLH1	20000	Home Cinema
12.589	L	RUSH	20000	Home Cinema
12.589	L	SNH-E	20000	News + Series
12.603	R	GLBHE	20000	Home Cinema
12.603	R	MLBH1	20000	Home Cinema
12.603	R	NHLH4	20000	Home Cinema
12.603	R	SCHD1	20000	Home Cinema
12.604	R	GLBHE	20000	Home Cinema
12.604	R	MLBH1	20000	Home Cinema
12.604	R	NHLH4	20000	Home Cinema
12.604	R	SCHD1	20000	Home Cinema
12.618	L	CTVHW	20000	Home Cinema
12.618	L	HBOH1	20000	Home Cinema
12.618	L	MLBH5	20000	Home Cinema
12.618	L	NCAA8	20000	Home Cinema
12.618	L	NSCH2	20000	Home Cinema
12.618	L	SNH-W	20000	News + Series
12.632	R	HSTHD	20000	Home Cinema
12.632	R	S+HD	20000	Home Cinema
12.632	R	VIEHD	20000	Home Cinema
12.647	L	CBSHW	20000	Home Cinema
12.647	L	HBOH2	20000	Home Cinema
12.647	L	RAPHD	20000	Home Cinema
12.661	R	MCHD	20000	Home Cinema
12.661	R	TSN2H	20000	Home Cinema
12.676	L	ABCHW	20000	Home Cinema
12.676	L	VuFH2	20000	Home Cinema
12.676	L	VuHD3	20000	Home Cinema
12.676	L	EQATR	20000	Home Cinema
12.676	L	NFLH4	20000	Home Cinema

AMC5

281.0 East (79.0 West)

AMC005KB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.903	H	KTEL-DT	2170	
● 12.017	V	CNN RMR KU SD 1	3979	Quality Entertain.
● 12.041	H	DIGITAL SNG	3979	News + Series
● 12.041	H	TX_Lubbock	3979	Quality Entertain.
● 12.041	H	WBMA 2055420068	3979	Quality Entertain.
● 12.045	V	Boston	3979	Quality Entertain.
● 12.046	H	ID_Boise	3979	Quality Entertain.
● 12.046	H	WBRC PATH1	3979	Home Cinema
● 12.052	V	Service Name	3979	Quality Entertain.
● 12.147	H	Tru TV Path 1	3979	Quality Entertain.
● 12.152	H	Tru TV Path 2	3979	Quality Entertain.
12.177	H	NYN 2	20500	Quality Entertain.

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

Cost Conscious Entertainment .... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
12.177	H	NYN 4	20500	News + Series
12.177	H	NYN 5	20500	Low Level
12.177	H	NYN 6	20500	Low Level
12.177	H	NYN 7	20500	Quality Entertain.
12.177	H	NYN 8	20500	News + Series
12.177	H	NYN 1	20500	News + Series
12.177	H	NYN 3	20500	Low Level
12.177	H	NYN 9	20500	Quality Entertain.

HORIZONS 2

286.0 East (74.0 West)

HOR001KB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.734	H	Service 1	6616	Home Cinema
11.937	H	CFN	2734	Quality Entertain.
11.960	H	Tandberg Service	26450	Home Cinema
12.072	H	Stu TV	4919	Advertisement
12.072	H	Lance TV	4919	Advertisement
12.089	V	THE SECOND STATIO	2941	News + Series
12.131	V	6.1113 9MHZ	13234	Home Cinema
12.131	V	Service 2 SD	13234	Home Cinema
12.169	H	Service 2	13235	Home Cinema

North America

ECHOSTAR 6

287.3 East (72.7 West)

ECH006KB

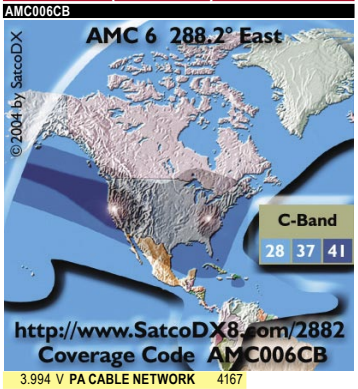


Freq	Pol	Channel Name	Symbol Rate	Programming Type
12.224	R	CSNNE	20000	High Quality Home
12.224	R	DHLTH	20000	High Quality Home
12.224	R	DIY	20000	High Quality Home
12.224	R	FOXAZ	20000	High Quality Home
12.224	R	FOXFL	20000	High Quality Home
12.224	R	FOXOH	20000	High Quality Home
12.224	R	FOXW	20000	High Quality Home
12.224	R	HMC	20000	High Quality Home
12.224	R	MASN	20000	High Quality Home
12.224	R	MSG	20000	High Quality Home
12.224	R	NBA	20000	High Quality Home
12.224	R	NESN	20000	High Quality Home
12.224	R	NHL	20000	High Quality Home
12.224	R	NTGEO	20000	High Quality Home
12.224	R	RLTY	20000	High Quality Home
12.224	R	SBYND	20000	High Quality Home
12.224	R	SNY	20000	High Quality Home
12.224	R	SOAP	20000	High Quality Home
12.224	R	TOONW	20000	High Quality Home
12.224	R	WSBK	20000	High Quality Home
12.224	R	WWOR	20000	High Quality Home
12.253	R	BIO	20000	High Quality Home
12.253	R	CNBCW	20000	High Quality Home
12.253	R	CSNCA	20000	High Quality Home
12.253	R	DISW	20000	High Quality Home
12.253	R	ENCOR	20000	High Quality Home
12.253	R	EWTN	20000	High Quality Home
12.253	R	FXNWS	20000	High Quality Home
12.253	R	GOLF	20000	High Quality Home
12.253	R	HBO2W	20000	High Quality Home
12.253	R	HBOSG	20000	High Quality Home
12.253	R	ID	20000	High Quality Home
12.253	R	MAX-W	20000	High Quality Home
12.253	R	MSNBC	20000	High Quality Home
12.253	R	NBA	20000	High Quality Home
12.253	R	NHL	20000	High Quality Home
12.253	R	PRIME	20000	High Quality Home
12.253	R	SPSOU	20000	High Quality Home
12.253	R	STRZW	20000	High Qual. Cinema
12.253	R	TMC-W	20000	High Quality Home
12.253	R	TMCXW	20000	High Quality Home
12.253	R	TRU	20000	High Quality Home
12.282	R	BBCA	20000	High Quality Home
12.282	R	CBS C	20000	High Quality Home
12.282	R	DISXD	20000	High Quality Home
12.282	R	FOXMO	20000	High Quality Home
12.282	R	FTRAE	20000	High Quality Home
12.282	R	FUSE	20000	High Quality Home
12.282	R	FX	20000	High Quality Home
12.282	R	GAC	20000	High Quality Home
12.282	R	GLVSN	20000	High Quality Home
12.282	R	NBATV	20000	High Quality Home
12.282	R	NKJR	20000	High Quality Home
12.282	R	OTDCH	20000	High Quality Home
12.282	R	PBS	20000	High Quality Home
12.282	R	RFDTV	20000	High Quality Home
12.282	R	SPEED	20000	High Quality Home
12.282	R	UNVSN	20000	High Quality Home
12.282	R	VH1CL	20000	High Quality Home
12.282	R	VS.	20000	High Quality Home
12.311	R	ACDEM	20000	High Quality Home
12.311	R	EWAM	20000	High Quality Home
12.311	R	FLIX	20000	High Quality Home
12.311	R	PPV	20000	High Quality Home
12.311	R	SBLCK	20000	High Quality Home
12.311	R	SCINE	20000	High Quality Home
12.311	R	SEDGE	20000	High Quality Home
12.311	R	SK&FM	20000	High Quality Home
12.311	R	SPORT	20000	High Quality Home
12.311	R	STARZ	20000	High Qual. Cinema
12.311	R	STZC	20000	High Quality Home
12.311	R	TOON	20000	High Quality Home
12.311	R	VH1	20000	High Quality Home
12.341	R	AMC	20000	High Quality Home
12.341	R	EACTN	20000	High Quality Home
12.341	R	EMYST	20000	High Quality Home
12.341	R	EWSTN	20000	High Quality Home
12.341	R	FLN	20000	High Quality Home
12.341	R	FTRAW	20000	High Quality Home
12.341	R	HBO-E	20000	High Qual. Cinema
12.341	R	HBO-W	20000	High Qual. Cinema
12.341	R	HBO2E	20000	High Quality Home
12.341	R	LMN	20000	High Quality Home
12.341	R	NFLRZ	20000	High Quality Home
12.341	R	NICKW	20000	High Quality Home
12.341	R	PREVW	20000	High Quality Home
12.341	R	RKTV	20000	High Quality Home
12.341	R	SHO-W	20000	High Qual. Cinema
12.341	R	SPORT	20000	High Quality Home
12.341	R	TMC-E	20000	High Quality Home
12.341	R	TMCXE	20000	High Quality Home
12.341	R	ASHOW	20000	High Quality Home
12.341	R	TEEZ	20000	High Quality Home
12.370	R	CNBC	20000	High Quality Home
12.370	R	DOC	20000	High Quality Home
12.370	R	FOXB	20000	High Quality Home
12.370	R	FUEL	20000	High Quality Home
12.370	R	GAME	20000	High Quality Home
12.370	R	HBOCY	20000	High Quality Home
12.370	R	HBOFM	20000	High Quality Home
12.370	R	HBOLT	20000	High Quality Home
12.370	R	HISTI	20000	High Quality Home
12.370	R	HLN	20000	High Quality Home
12.370	R	HUSLR	20000	High Quality Home
12.370	R	JENNA	20000	High Quality Home
12.370	R	MAX-E	20000	High Quality Home
12.370	R	MOMAX	20000	High Quality Home
12.370	R	SCI	20000	High Quality Home
12.370	R	TLC	20000	High Quality Home
12.370	R	TNCK	20000	High Quality Home
12.370	R	TRV	20000	High Quality Home
12.370	R	UNVSW	20000	High Quality Home
12.370	R	XCESS	20000	High Quality Home
12.399	R	ESPN	20000	High Qual. Cinema
12.399	R	SHO-E	20000	High Qual. Cinema
12.399	R	TNT	20000	High Qual. Cinema
12.399	R	HDTHR	20000	High Qual. Cinema
12.399	R	HBO-E	20000	High Qual. Cinema
12.428	R	BABY	20000	High Quality Home
12.428	R	BET	20000	High Quality Home
12.428	R	BIG10	20000	High Quality Home
12.428	R	CHILR	20000	High Quality Home
12.428	R	DISE	20000	High Quality Home
12.428	R	DYSTR	20000	High Quality Home
12.428	R	FRESH	20000	High Quality Home
12.428	R	G4	20000	High Quality Home
12.428	R	HSN	20000	High Quality Home
12.428	R	IFC	20000	High Quality Home
12.428	R	MIL	20000	High Quality Home
12.428	R	OXYGN	20000	High Quality Home
12.428	R	SLTH	20000	High Quality Home
12.428	R	TBN	20000	High Quality Home
12.428	R	TCM	20000	High Quality Home
12.428	R	WE	20000	High Quality Home
12.457	R	DNFYI	20000	High Qual. Cinema
12.457	R	HDNET	20000	High Qual. Cinema
12.457	R	HDNMV	20000	High Qual. Cinema
12.457	R	HDPPV	20000	High Qual. Cinema
12.457	R	MAVHD	20000	High Qual. Cinema
12.457	R	SYFY	20000	High Qual. Cinema
12.457	R	HDNET	20000	High Qual. Cinema
12.457	R	HDPPV	20000	High Qual. Cinema
12.486	R	ALTUD	20000	High Quality Home
12.486	R	CSNBA	20000	High Quality Home
12.486	R	CSNCH	20000	High Quality Home
12.486	R	CSNMA	20000	High Quality Home
12.486	R	FOXCN	20000	High Quality Home
12.486	R	FOXD	20000	High Quality Home
12.486	R	FOXMW	20000	High Quality Home
12.486	R	FOXN	20000	High Quality Home
12.486	R	FOXNW	20000	High Quality Home
12.486	R	FOXPT	20000	High Quality Home
12.486	R	FOXRM	20000	High Quality Home
12.486	R	FOXS	20000	High Quality Home
12.486	R	FOXSW	20000	High Quality Home
12.486	R	MSG+	20000	High Quality Home
12.486	R	NBA	20000	High Quality Home
12.486	R	NHL	20000	High Quality Home
12.486	R	NHLN	20000	High Quality Home
12.486	R	PLBY	20000	High Quality Home
12.486	R	PLBYE	20000	High Quality Home
12.486	R	STO	20000	High Quality Home
12.486	R	SUN	20000	High Quality Home
12.516	R	CMT	20000	High Quality Home
12.516	R	EDRAM	20000	High Quality Home
12.516	R	ELOVE	20000	High Quality Home
12.516	R	ENCRW	20000	High Quality Home
12.516	R	JUICY	20000	High Quality Home
12.516	R	PENT	20000	High Quality Home
12.516	R	REAL	20000	High Quality Home
12.516	R	SHOEX	20000	High Quality Home
12.516	R	SPORT	20000	High Quality Home
12.516	R	XTSY	20000	High Quality Home
12.516	R	ALOCK	20000	High Quality Home
12.516	R	CSA	20000	High Quality Home
12.516	R	DNFYI	20000	High Quality Home
12.516	R	HOME	20000	High Quality Home
12.545	R	BITV	20000	High Quality Home
12.545	R	CNN	20000	High Quality Home
12.545	R	ESNWS	20000	High Quality Home
12.545	R	ESPCL	20000	High Quality Home
12.545	R	ESPN	20000	High Quality Home
12.545	R	ESPN2	20000	High Quality Home
12.545	R	ESPNU	20000	High Quality Home
12.545	R	MTV	20000	High Quality Home
12.545	R	MTV2	20000	High Quality Home
12.545	R	NFL	20000	High Quality Home
12.545	R	NICK	20000	High Quality Home
12.545	R	SHO-E	20000	High Qual. Cinema
12.545	R	SHOTO	20000	High Quality Home
12.545	R	SPIKE	20000	High Quality Home
12.545	R	TVGN	20000	High Quality Home
12.545	R	TWC	20000	High Quality Home
12.574	R	A&E	20000	High Quality Home
12.574	R	CMDY	20000	High Quality Home
12.574	R	E!	20000	High Quality Home
12.574	R	FOOD	20000	High Quality Home
12.574	R	HGTV	20000	High Quality Home
12.574	R	HIST	20000	High Quality Home
12.574	R	KTLA	20000	High Quality Home
12.574	R	KWGN	20000	High Quality Home
12.574	R	LIFE	20000	High Quality Home
12.574	R	SHOCS	20000	High Quality Home
12.574	R	STYLE	20000	High Quality Home
12.574	R	SYFY	20000	High Quality Home
12.574	R	TBS	20000	High Quality Home
12.574	R	TNT	20000	High Quality Home
12.574	R	TVLND	20000	High Quality Home
12.574	R	USA	20000	High Quality Home
12.574	R	WGN	20000	High Quality Home
12.574	R	WPIX	20000	High Quality Home
12.603	R	HDPPV	20000	High Qual. Cinema
12.632	R	ALT	20000	High Quality Home
12.632	R	ALT10	20000	High Quality Home
12.632	R	EPSK1	20000	High Quality Home
12.632	R	EPSK2	20000	High Quality Home
12.632	R	ESP2A	20000	High Quality Home
12.632	R	ESPNA	20000	High Quality Home
12.632	R	MASN2	20000	High Quality Home
12.632	R	NBA	20000	High Quality Home
12.632	R	NHL	20000	High Quality Home
12.632	R	SKDL	20000	High Quality Home
12.632	R	SPORT	20000	High Quality Home
12.632	R	DVRDN	20000	High Quality Home
12.632	R	DVRVR	20000	High Quality Home
12.632	R	ORDER	20000	High Quality Home
12.661	R	5-MAX	20000	High Quality Home
12.661	R	ABCFM	20000	High Quality Home
12.661	R	ACMAX	20000	High Quality Home
12.661	R	ALT	20000	High Quality Home
12.661	R	ALT10	20000	High Quality Home
12.661	R	APL	20000	High Quality Home
12.661	R	BOOM	20000	High Quality Home
12.661	R	BRAVO	20000	High Quality Home
12.661	R	DISC	20000	High Quality Home
12.661	R	DKIDS	20000	High Quality Home
12.661	R	EPSK1	20000	High Quality Home
12.661	R	EPSK2	20000	High Quality Home
12.661	R	ESP2A	20000	High Quality Home
12.661	R	ESPNA	20000	High Quality Home
12.661	R	HLMRK	20000	High Quality Home
12.661	R	KTV	20000	High Quality Home
12.661	R	MASN2	20000	High Quality Home
12.661	R	NBA	20000	High Quality Home
12.661	R	NHL	20000	High Quality Home
12.661	R	NICKT	20000	High Quality Home
12.661	R	PPV	20000	High Quality Home
12.661	R	SKDL	20000	High Quality Home
12.661	R	SPORT	20000	High Quality Home
12.661	R	SRI	20000	High Quality Home
12.661	R	SUND	20000	High Quality Home
12.661	R	VERIA	20000	High Quality Home
12.661	R	ALT	20000	High Quality Home
12.661	R	DVRDN	20000	High Quality Home
12.661	R	DVRVR	20000	High Quality Home
12.661	R	ION	20000	High Quality Home
12.661	R	KPXE	20000	High Quality Home
12.661	R	KPXM	20000	High Quality Home
12.661	R	ORDER	20000	High Quality Home
12.661	R	SKDL	20000	High Quality Home
12.661	R	WBPX	20000	High Quality Home
12.661	R	WEPX	20000	High Quality Home
12.661	R	WGPX	20000	High Quality Home
12.661	R	WHPX	20000	High Quality Home
12.661	R	WLPX	20000	High Quality Home
12.661	R	WNPX	20000	High Quality Home
12.661	R	WOPX	20000	High Quality Home
12.661	R	WPPX	20000	High Quality Home
12.661	R	WPXC	20000	High Quality Home
12.661	R	WPXD	20000	High Quality Home
12.661	R	WPXE	20000	High Quality Home
12.661	R	WPXH	20000	High Quality Home
12.661	R	WPXK	20000	High Quality Home
12.661	R	WPXN	20000	High Quality Home
12.661	R	WPXQ	20000	High Quality Home
12.661	R	WPXV	20000	High Quality Home
12.661	R	WPXW	20000	High Quality Home
12.661	R	WQPX	20000	High Quality Home
12.661	R	WRPX	20000	High Quality Home
12.661	R	WUPX	20000	High Quality Home
12.661	R	WVPX	20000	High Quality Home
12.661	R	WZPX	20000	High Quality Home

AMC 6

288.0 East (72.0 West)

AMC006CB

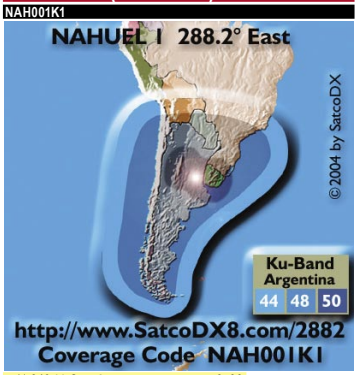


Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.994	V	PA CABLE NETWORK	4167	

NAHUEL 1A

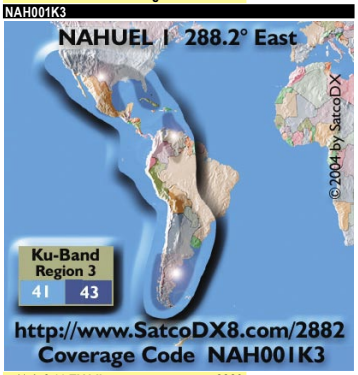
288.2 East (71.8 West)

NAH001K1



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.649	V	Canal 7	3700	
11.680	V	La Pampa	3385	
11.692	V	Canal 9	3385	
11.692	V	TV Santa Cruz	3385	
11.817	V	Canal Rural Satelita		
11.865	H	Valparaiso Sporting	3000	
11.954	V	Canal 10	17910	
11.954	V	Monte Carlo TV	17910	
11.954	V	Red de TV Color	17910	
11.954	V	Teledoce	17910	
11.954	V	TVE Internacional Am	17910	
11.954	V	Tveo TV Nacional	17910	
11.997	V	CM El Canal de la Mu	8476	
11.997	V	Cronica TV	8476	
12.180	V	Canal 7 Santiago	4201	

NAH001K3



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.478	V	TV Libre	2220	
11.585	V	Canal 11	3700	
11.603	V	Canal 27 Guatemala	3600	
11.611	V	Unsion Equador	3400	
11.626	V	Canal 48 Honduras	3600	
11.633	V	Conexion 31 Promos	3600	
11.633	V	Nahuel Promos	3600	
11.675	V	TV Libre Uruguay	3600	
11.708	V	Canal Rural Satelita	12000	
11.708	V	Conexion Educativa	12000	
11.708	V	Nahuel Promos	12000	
11.708	V	SEMSAT - Sembrando	12000	
11.739	V	Red Media Educativa	1482	
11.949	H	Hipodromo	4688	

C-Band: BRASILSAT B4

290.0 East (70.0 West)

BRA0B1CN



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
3.820	V	ACTION	27500	
3.820	V	CULT	27500	
3.820	V	EMOTION	27500	
3.820	V	Feeds	27500	
3.820	V	Multishow	27500	
3.820	V	MULTISHOW	27500	
3.820	V	PIPOCA	27500	
3.820	V	PREMIERE4	27500	
3.820	V	PREMIUM	27500	
3.820	V	Telecine Action	27500	
3.820	V	Telecine Classic	27500	
3.820	V	Telecine Emotion	27500	
3.820	V	Telecine Happy	27500	
3.820	V	Telecine Premium	27500	
3.820	V	CCP DOWNLOAD	27500	
3.820	V	DCP DOWNLOAD	27500	
3.820	V	VC for ENC1P10	27500	
3.820	V	VC for ENC1P8	27500	
3.820	V	VC for ENC1P9	27500	
3.875	V	TV RECORD SP	5926	
3.900	V	BRASIL	27500	
3.900	V	Canal Brazil	27500	
3.900	V	Feeds	27500	
3.900	V	feeds	27500	
3.900	V	Globo News	27500	
3.900	V	GLOBONEWS	27500	
3.900	V	GNT	27500	
3.900	V	PREMIERE5	27500	
3.900	V	PREMIERE6	27500	
3.900	V	Sexy Hot	27500	
3.900	V	SEXYHOT	27500	
3.900	V	UNIVERSAL	27500	
3.900	V	USA Network Brazil	27500	
3.900	V	VC for ENC2P10	27500	
3.900	V	VC for ENC2P8	27500	
3.900	V	VC for ENC2P9	27500	
3.940	V	CANAL 7	27500	
3.940	V	Feeds	27500	
3.940	V	Premiere 1	27500	
3.940	V	Premiere 2	27500	
3.940	V	Premiere 3	27500	
3.940	V	SporTV	27500	
3.940	V	CANAL 6	27500	
3.940	V	CCP Download (sistem	27500	
3.940	V	DCP Download (sistem	27500	
3.955	H	TV Ceara-Educativa	4400	
3.964	H	TV MUNDO MAIOR	1328	
3.965	V	TV ESCOLA	2930	
3.965	V	TV Escola	2930	
3.973	V	Biblioteca Digital M	4030	
3.978	V	Cine Brasil	1220	
3.979	V	CBED CH2	3616	
3.979	V	REDE CBED	3616	
3.981	V	TV CBED	1808	
3.984	H	Rede Nacional	1808	
3.984	H	Test Card	1808	
4.010	H	ESPN Brasil	13021	
4.010	H	ESPN Brasil Altern	13021	
4.010	H	MTV 2	13021	
4.010	H	MTV Brasil	13021	
4.040	H	Animal Planet	30000	
4.040	H	Band News	30000	
4.040	H	Band Sports	30000	
4.040	H	Boomerang	30000	
4.040	H	Canal Brasil	30000	
4.040	H	Cartoon Network	30000	
4.040	H	Discovery Channel	30000	
4.040	H	Discovery Kids	30000	
4.040	H	People & Arts	30000	
4.040	H	TCM	30000	
4.040	H	Teste	30000	
4.040	H	TNT	30000	
4.040	H	Climatempo	30000	
4.047	V	TV Amazonas	7150	
4.047	V	Amazon Sat	7150	

BRA0B1CR



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
3.628	H	TV Camara	3000	
3.634	H	TV Seculo 21	4500	
3.642	H	NGT	3263	
3.645	V	TV Senado	3213	
3.648	H	TV Liberal	4285	
3.650	V	Rede Transporte	4400	
3.656	H	TV Brasil Central	3392	
3.656	V	TV Meio Norte	4463	
3.663	V	Unnamed	4607	
3.663	V	TV Bahia	4607	
3.665	H	Rede Bandeirantes Mi	4700	
3.672	V	TV Alterosa	8454	
3.672	H	TV Centro America	4713	
3.680	H	Rede Globo Minas Ger	6000	
3.685	H	Rede Vida Feeds	4500	
3.688	H	Rede Globo Sao Paolo	6000	
3.696	H	Rede Minas	3598	
3.703	V	TV Difusora do Maran	3250	
3.708	V	TV Mirante	3250	
3.714	V	Rede Record Minas Ge	4400	
3.714	V	Service 1	4400	
3.752	V	SBT	6220	

C-Band: BRASILSAT B2

295.0 East (65.0 West)

BRA0B2CN



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
3.706	H	BAND Pres.Prudente	2462	
3.721	H	TV BB 1	2963	
3.721	H	TV Banco do Brasil C	2963	
3.736	H	Service 2	4285	
3.746	H	RBN-REDE	3540	
3.746	H	Rede Boas Novas	3540	
3.766	H	Canal Futura	3335	
3.766	H	Service 1	3335	
3.792	V	Radio Gazeta	3393	
3.792	V	TV Gazeta MT	3393	
3.847	H	TV Tibagi	4444	
3.864	H	Canal do Boi Sertaoz	3214	
3.876	V	NBR TV	4688	
3.877	V	TV TAROBA	2740	
3.884	H	BAND Presidente Pr	2800	
4.008	H	TV Rodolink	3332	
4.105	V	CANAL DO BOI - 2T	4285	
4.112	V	NoName	4285	

North-East South America

ESTRELA DO SUL 1

297.0 East (63.0 West)

EST001KB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.955	H	CPC - Curso Prepar	2199	
12.088	H	LORAL BR	3214	

South-West South America

ESTRELA DO SUL 1

297.1 East (62.9 West)

EST001KB



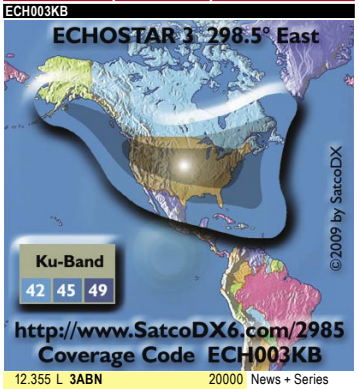
Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
● 11.577	V	VTR-1	3124	News + Series
11.581	V	VTR-2	3125	Quality Entertain.
11.598	V	VIA X	3124	Quality Entertain.
● 11.603	V	ZONA LATINA	3124	Quality Entertain.
11.640	V	Business TV	18099	Low Level
11.640	V	Camara Diputados	18099	News + Series
11.640	V	Canal 13	18099	Home Cinema
11.640	V	MEGA	18099	Home Cinema
11.640	V	Chilevision	18099	Quality Entertain.
11.640	V	Senado	18099	News + Series
11.640	V	Teletrak	18099	Quality Entertain.

North America

ECHOSTAR 3, RAINBOW 1

298.5 East (61.5 West)

ECH003KB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
12.355	L	3ABN	20000	News + Series
12.355	L	ALMA	20000	News + Series
12.355	L	ARTMV	20000	News + Series
12.355	L	ARTS	20000	News + Series
12.355	L	ECC	20000	Low Level
12.355	L	HHS	20000	Quality Entertain.
● 12.355	L	INTL1	20000	Low Level
12.355	L	PAEC	20000	Low Level
12.355	L	PFC	20000	News + Series
12.355	L	PNTGN	20000	Low Level
12.355	L	SPORT	20000	Low Level
12.355	L	STARF	20000	News + Series
12.355	L	D61.5	20000	Low Level
12.384	L	AAJTK	20000	Low Level
12.384	L	ABUDA	20000	News + Series
12.384	L	B4U	20000	Quality Entertain.
12.384	L	DANDA	20000	Low Level
12.384	L	DREAM	20000	News + Series
12.384	L	DUBSP	20000	Low Level
12.384	L	HT	20000	News + Series
12.384	L	MZIKA	20000	Low Level
12.384	L	NORST	20000	Low Level
12.384	L	SAMAY	20000	News + Series
12.384	L	SHARA	20000	Quality Entertain.
12.384	L	ZCINE	20000	Low Level
12.384	L	ZEESA	20000	News + Series
12.414	L	ARTSP	20000	Home Cinema
12.414	L	BBCAR	20000	Low Level
12.414	L	BSN	20000	Advertisement
12.414	L	ERT	20000	News + Series
12.414	L	EURNS	20000	News + Series
12.414	L	HKYAT	20000	Low Level
12.414	L	KINO	20000	News + Series
12.414	L	NBN	20000	News + Series
12.414	L	NEWTV	20000	News + Series
12.414	L	SETA	20000	News + Series
12.414	L	STAR1	20000	News + Series
12.414	L	TVN24	20000	Low Level
12.414	L	ZEETV	20000	News + Series
12.472	L	ANTEN	20000	News + Series
12.472	L	ANTGO	20000	Low Level
12.472	L	ART	20000	Low Level
12.472	L	BLUE	20000	Quality Entertain.
12.472	L	BTV	20000	Low Level
12.472	L	GLOBO	20000	News + Series
12.472	L	ITMP1	20000	Low Level
12.472	L	KBS	20000	News + Series
12.472	L	RBTI	20000	News + Series
12.472	L	RCORD	20000	Low Level
12.472	L	SET	20000	Low Level
12.472	L	SETMX	20000	Low Level
12.472	L	TVASA	20000	News + Series
12.472	L	TVJPN	20000	News + Series
12.603	R	CMDY	20000	High Qual. Cinema
12.603	R	CMT	20000	High Qual. Cinema
12.603	R	FOXB	20000	High Qual. Cinema
12.603	R	FXNWS	20000	High Qual. Cinema
12.603	R	LTD8	20000	High Quality Home
12.603	R	MTV	20000	High Qual. Cinema
12.603	R	NICK	20000	High Qual. Cinema
12.603	R	SPIKE	20000	High Qual. Cinema
12.603	R	TMP45	20000	High Qual. Cinema
12.632	R	ALJAZ	20000	Low Level
12.632	R	LBC	20000	Low Level
12.632	R	MBC	20000	Low Level
12.632	R	PLSAT	20000	News + Series
12.632	R	RTPI	20000	Advertisement
12.632	R	SICNO	20000	Low Level
12.632	R	SPT	20000	Low Level

South America

AMAZONAS

299.0 East (61.0 West)

AMA001KB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
● 11.735	H	Servicio de Test	28881	High Qual. Cinema
● 11.735	H	Servicio de Test 2	28881	High Qual. Cinema
● 11.735	H	CHV	28881	News + Series
● 11.735	H	ETC TV	28881	Low Level
● 11.735	H	Fashion Tv	28881	News + Series
● 11.735	H	FOX Sport Ven	28881	News + Series
● 11.735	H	MEGA	28881	News + Series
● 11.735	H	Teletrack	28881	Low Level
● 11.735	H	TVN	28881	News + Series
● 11.735	H	UCTV	28881	News + Series
● 11.735	H	UCV	28881	News + Series
● 11.735	H	Via X	28881	Low Level
● 11.735	H	Zona Latina	28881	News + Series
11.808	H	ANTV	26667	Low Level
11.808	H	Canal Capital	26667	News + Series
11.808	H	Canal de las Estrell	26667	News + Series
11.808	H	City TV	26667	News + Series
11.808	H	ESPN	26667	News + Series
11.808	H	Fox Channel	26667	Low Level
11.808	H	Globovision	26667	Low Level
11.808	H	La Tele	26667	News + Series
11.808	H	Meridiano	26667	News + Series
11.808	H	Nickelodeon	26667	Low Level
11.808	H	RCTV Internacional	26667	News + Series
11.808	H	Telenovelas	26667	Low Level
11.808	H	TeleSur	26667	Low Level
11.808	H	Telesur	26667	Low Level
11.808	H	Televen	26667	News + Series
11.808	H	TV Colombia	26667	Low Level
11.808	H	TVES	26667	Low Level
11.808	H	Venevisión	26667	News + Series
11.808	H	Venezolana de Televi	26667	Low Level
11.808	H	Vive	26667	News + Series
11.808	H	Canal Informativo	26667	Low Level
11.972	H	Boomerang	26667	Low Level
11.972	V	CDF Basico	30000	News + Series
11.972	H	Cinecanal	26667	News + Series
11.972	H	Cinecanal Classics	26667	Quality Entertain.
11.972	H	Cinecanal Oeste	26667	News + Series
11.972	H	Cinemax Oeste	26667	News + Series
11.972	H	City Mix	26667	News + Series
11.972	V	Disney XD	30000	News + Series
● 11.972	H	Eurochannel	26667	News + Series
11.972	H	EWTN	26667	News + Series
11.972	H	FEM	26667	Low Level
11.972	V	Fox Channel	30000	News + Series
11.972	V	GOL TV	30000	Low Level
11.972	H	Gol TV	26667	News + Series
11.972	V	History Channel	30000	Low Level
11.972	V	I-Sat	30000	Low Level
11.972	H	Movie City	26667	Low Level
11.972	H	Movie City Oeste	26667	Low Level
11.972	V	MTV	30000	Low Level
11.972	V	National Geographic	30000	News + Series
11.972	V	Nickelodeon	30000	News + Series
11.972	V	People and Arts	30000	News + Series
11.972	H	Play House Disney	26667	News + Series
11.972	H	Playboy	26667	News + Series
11.972	H	RAI	26667	News + Series
11.972	V	Space	30000	News + Series
11.972	V	Teletrak	30000	Quality Entertain.
11.972	H	TVE	26667	News + Series
11.972	V	TyC Sports	30000	News + Series
11.972	V	Utilisima	30000	News + Series
11.972	V	Zona Latina	30000	News + Series
12.012	H	América Televisión	28888	Low Level
12.012	H	ATV	28888	Low Level
12.012	H	Canal N	28888	News + Series
12.012	H	Cinemax	28888	News + Series
12.012	H	CMD	28888	News + Series
12.012	H	Frecuencia Latina	28888	Low Level
12.012	H	HBO	28888	News + Series
12.012	H	HBO Oeste	28888	News + Series
12.012	H	MTV	28888	News + Series
12.012	H	Panamericana	28888	News + Series

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

Cost Conscious Entertainment ..... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

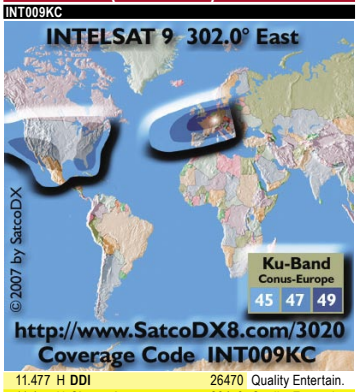
GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
12.012	H	Perú Mágico	28888	News + Series
12.012	H	PLUS TV	28888	News + Series
12.012	H	Warner Channel	28888	News + Series
12.012	H	TNP	28888	Low Level
12.052	H	Animal Planet	28888	Low Level
12.052	H	AXN	28888	Quality Entertain.
12.052	H	Caracol	28888	News + Series
12.052	H	Cartoon Network	28888	Low Level
12.052	H	CDF Premium	28888	Quality Entertain.
12.052	H	Discovery Kids	28888	Low Level
12.052	H	E! Entertainment TV	28888	News + Series
12.052	H	Europa Europa	28888	Low Level
12.052	H	Film&Arts	28888	Low Level
12.052	H	Fox Life	28888	Low Level
12.052	H	Fox Sports Premium	28888	Quality Entertain.
12.052	H	FX	28888	Quality Entertain.
12.052	H	National Geographic	28888	Low Level
12.052	H	People and Arts	28888	Low Level
12.052	H	PPV Cine	28888	News + Series
12.052	H	Universal	28888	Low Level
12.052	H	Utilísima	28888	News + Series
12.052	H	Venevision Plus	28888	News + Series
12.092	V	AE Mundo	30000	News + Series
12.092	V	Canal 13	30000	News + Series
12.092	V	Canal 13 Cable	30000	News + Series
12.092	H	Canal del Congreso	28888	Low Level
12.092	H	Canal TRO	28888	Low Level
12.092	H	Canal Uno	28888	Low Level
12.092	H	CDF Básico	28888	News + Series
12.092	V	CHV	30000	Home Cinema
12.092	H	Cinema Golden	28888	News + Series
12.092	V	Cinemax	30000	Quality Entertain.
12.092	V	CNN en Espanol	30000	Low Level
12.092	V	Discovery Kids	30000	Low Level
12.092	H	Disney Xd	28888	Low Level
12.092	V	Fox Sport Premium	30000	News + Series
12.092	H	FOX Sports	28888	News + Series
12.092	H	Fox Sports	28888	News + Series
12.092	H	Hallmark	28888	Low Level
12.092	V	HBO	30000	News + Series
12.092	H	HTV	28888	Low Level
12.092	H	I SAT	28888	Low Level
12.092	V	La Red	30000	Quality Entertain.
12.092	V	Mega	30000	News + Series
12.092	H	RCN	28888	News + Series
12.092	H	RCN Noticias	28888	News + Series
12.092	H	Señal Colombia	28888	Low Level
12.092	H	Telecafe	28888	News + Series
12.092	H	Telecaribe	28888	Low Level
12.092	H	Telepacífico	28888	Low Level
12.092	H	The Film Zone	28888	Low Level
12.092	V	TVN	30000	News + Series
12.092	H	Canal Institucional	28888	News + Series
12.132	H	Baby TV	28888	Low Level
12.132	H	BBC World	28888	Low Level
12.132	H	CNN em Español	28888	News + Series
12.132	H	CNN Español	28888	News + Series
12.132	H	CNN International	28888	News + Series
12.132	H	Deutsche Welle	28888	Low Level
12.132	H	Discovery Travel & L	28888	Low Level
12.132	H	HBO Family	28888	Low Level
12.132	H	HBO Family e*	28888	News + Series
12.132	H	HBO Family Oeste	28888	News + Series
12.132	H	HBO Plus	28888	Low Level
12.132	H	HBO Plus e*	28888	News + Series
12.132	H	HBO Plus Oeste	28888	News + Series
12.132	H	Infinito	28888	News + Series
12.132	H	Max Prime	28888	News + Series
12.132	H	Max Prime e*	28888	News + Series
12.132	H	Max Prime Este	28888	News + Series
12.132	H	Max Prime Oeste	28888	Low Level
12.132	H	MTV Hits	28888	Low Level
12.132	H	Space	28888	Low Level
12.132	H	Speed Channel	28888	News + Series
12.132	H	TCM	28888	Low Level
12.132	H	The Biography Channe	28888	News + Series
12.132	H	Travel & Living	28888	Low Level
12.132	H	Tru TV	28888	News + Series
12.172	H	A&E	28888	Low Level
12.172	V	Animal Planet	30000	Quality Entertain.
12.172	H	Animax	28888	Low Level
12.172	H	Antena 3	28888	Quality Entertain.
12.172	V	AXN	30000	Low Level
12.172	H	Canal Fox	28888	Low Level
12.172	V	CDF PREMIUM	30000	News + Series
12.172	V	Cinecanal	30000	Low Level
12.172	H	Discovery Channel	28888	Low Level
12.172	H	Discovery H&H	28888	News + Series
12.172	V	Disney Channel	30000	Low Level
12.172	V	E! Entertainment	30000	News + Series
12.172	H	El Gourmet	28888	Low Level
12.172	V	ESPN	30000	News + Series
12.172	H	ESPN +	28888	Quality Entertain.
12.172	H	ESPN 2	28888	News + Series
12.172	V	ESPN+	30000	News + Series
12.172	V	Fox Sport	30000	News + Series
12.172	H	History Channel	28888	Low Level
12.172	V	Playboy TV	30000	News + Series
12.172	H	RED Televisión	28888	News + Series
12.172	V	Sony	30000	Low Level
12.172	H	Telecanal	28888	Low Level
12.172	H	Telefé	28888	News + Series
12.172	V	The Film Zone	30000	News + Series
12.172	H	TNT	28888	Low Level
12.172	V	Universal	30000	News + Series
12.172	H	VH1	28888	Low Level
12.172	V	Warner	30000	Low Level

West Europe, North America

INTELSAT 9

302.0 East (58.0 West)

INT009KC



GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
11.477	H	DDI	26470	Quality Entertain.
11.477	H	Channel 5	26470	Quality Entertain.
11.477	H	P9 1K - Adhoc Channe	26470	Home Cinema
11.477	H	P9 1K - Adhoc Channe	26470	Home Cinema

C-Band: INTELSAT 9

302.1 East (57.9 West)

INT009CA



GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
3.720	H	Canal 52	19510	
3.720	V	Canal Fox (Andean)	27700	
3.720	V	Canal Fox (Andean/AC	27700	
3.720	V	Canal Fox (Brazil)	27700	
3.720	V	Canal Fox (Brazil/AC	27700	
3.720	V	Canal Fox (Central)	27700	
3.720	V	Canal Fox (Central/A	27700	
3.720	V	Canal Fox (East)	27700	
3.720	V	Canal Fox (East/AC3)	27700	
3.720	V	Canal Fox (West)	27700	
3.720	V	Canal Fox (West/AC3)	27700	
3.720	H	Cino Latino	19510	
3.720	H	Exa TV	19510	
3.720	V	Feeds (FOX ADHOC)	27700	
3.720	V	FX (Brazil)	27700	
3.720	V	FX Latin	27700	
3.720	V	FX Latin (AC3)	27700	
3.720	H	Hallmark Channel Mex	19510	
3.720	H	MVS Empresarial	19510	
3.720	V	National Geographic	27700	
3.720	V	National Geographic	27700	
3.720	V	National Geographic	27700	
3.720	V	National Geographi	27700	
3.720	V	Speed (Latin America	27700	
3.720	V	SPEED LATIN AMERI	27700	
3.720	H	TV Guide	19510	
3.720	H	USA America Latina	19510	
3.720	V	USA Network (Latin)	27700	
3.720	V	USA Network (Latin	27700	
3.760	H	CC ANIV	28500	
3.760	V	Channel 30	27684	
3.760	H	Cinecanal	28500	
3.760	H	Cinecanal 2	28500	
3.760	H	Cinecanal Este	28500	
3.760	H	Cinecanal Oeste	28500	
3.760	V	CI@se Brasil	27684	
3.760	V	FTV	27684	
3.760	V	FTV Port	27684	
3.760	V	FTV VZLA	27684	
3.760	V	HTV	27684	
3.760	V	I-Sat	27684	
3.760	V	Infinito Latino	27684	
3.760	V	Infinito Por	27684	
3.760	V	Infinito Sur	27684	
3.760	V	Infinito USA	27684	
3.760	V	Locomotion Latin	27684	
3.760	V	Luna Vision 2	27684	
3.760	H	Movie City Este	28500	
3.760	H	Movie City Oeste	28500	
3.760	V	Much Music	27684	
3.760	V	MUCH VZLA	27684	
3.760	V	PB Digital +	27684	
3.760	V	PB Iberia	27684	
3.760	V	PB Latino	27684	
3.760	V	PB Latino Port	27684	
3.760	V	Playboy Brasil 2	27684	
3.760	V	Playboy Digital +	27684	
3.760	V	Playboy Latino 2	27684	
3.760	V	Playboy TV (Brasil M	27684	
3.760	V	Playboy TV (Brasil)	27684	
3.760	V	Playboy TV (Iberia)	27684	
3.760	V	Playboy TV (Latin Am	27684	
3.760	V	Playboy TV (Latin Am	27684	
3.760	V	Retro	27684	
3.760	V	Retro Port	27684	
3.760	V	Space	27684	
3.760	V	Test card	27684	
3.760	H	The Film Zone Este	28500	
3.760	H	The Film Zone Oeste	28500	
3.760	V	Utilisima	27684	
3.760	V	Utilisima Cue	27684	
3.760	V	Venevision Continent	27684	
3.760	V	Venus NTSC	27684	
3.760	V	Venus PAL	27684	
3.760	V	Venus Por	27684	
3.760	H	CC ANIV	28500	
3.760	H	CineCanal Classics p	28500	
3.760	V	Prueba	27684	
3.760	V	Utilisima Satelital	27684	
3.786	H	Canal Caracol altern	4443	
3.786	H	Canal Caracol Nacion	4443	
3.800	V	!Regional Network/Oc	26470	
3.800	V	!Regional Network/Oc	26470	
3.800	V	ESPN 2	26470	
3.800	V	ESPN Atlantic Netw	26470	
3.800	V	ESPN Brazil	26470	
3.800	V	ESPN feeds (Syndic	26470	
3.800	V	ESPN Latin Network	26470	
3.800	V	ESPN Pacific Rim N	26470	
3.800	H	Feeds	27680	
3.800	H	Paris Premiere	27680	
3.800	V	Syndication PAL	26470	
3.800	V	Temp ESPN	26470	
3.800	V	Temp ESPN2	26470	
3.800	V	Temp-Atlantic	26470	
3.800	V	Temp-Pac Rim	26470	
3.800	V	Temp-Synd-NTSC	26470	
3.800	H	Test Card	27680	
3.800	V	Test enc-10	26470	
3.800	H	Zee TV Africa	27680	
3.800	V	Temp-Synd-Pal	26470	
3.800	V	Test enc-9	26470	
3.815	H	Movida TV	3950	
3.815	H	Onda TV	3950	
3.840	H	BBC World (North A	27684	
3.840	H	BBC World (South A	27684	
3.840	V	Bloomberg TV (Asia-P	27690	
3.840	V	Eurochannel	27690	
3.840	H	German Television	27684	
3.840	V	MGM Gold	27690	
3.840	V	Telemundo Internacio	27690	
3.840	H	Zee TV	27684	
3.840	H	ADHOC 1	27684	
3.840	V	Adhoc 2 - MM1P4	27690	
3.840	H	CCP D9223 Decoder	27684	
3.840	H	Cubavision	27684	
3.840	H	DCP D9223 Decoder	27684	
3.840	H	Deutsche Welle TV (A	27684	
3.840	H	EWTN	27684	
3.840	H	Feeds (ADHOC 2)	27684	
3.840	V	Guatevision	27690	
3.840	V	OPEN MM1P4	27690	
3.880	V	Animal Planet (Brasi	27684	
3.880	V	Bert	27684	
3.880	V	Civilization (SPN)	27684	
3.880	V	Civilization Eng/E	27684	
3.880	V	Discovery Channel (B	27684	
3.880	V	Discovery Channel (I	27684	
3.880	V	Discovery Channel (V	27684	
3.880	V	Discovery Health (Br	27684	
3.880	V	Discovery Health Bra	27684	
3.880	V	Discovery Kids (Bras	27684	
3.880	V	Discovery Travel & A	27684	
3.880	V	People & Arts (Brasi	27684	
3.880	V	People & Arts (Iberi	27684	
3.880	V	People and Arts (Mex	27684	
3.880	V	Science (POR)	27684	
3.880	V	Science (POR) Digita	27684	
3.880	V	Science (SPN) Cast	27684	
3.880	V	Science English/En	27684	
3.880	V	Turbo (POR)	27684	
3.880	V	Turbo (POR) Digital	27684	
3.880	V	Turbo (SPN) Cast/C	27684	
3.880	V	Turbo English/Engl	27684	
3.880	H	Adhoc Chanel 7	27684	
3.880	H	Arirang TV World 2	27684	
3.880	H	CCP Copy of 6	27684	
3.880	H	CCTV 3	27684	
3.880	H	CCTV 4	27684	
3.880	H	CCTV 9	27684	
3.880	H	DCP copy of 6	27684	
3.880	H	Feeds	27684	
3.880	H	HSER Upgrade	27684	
3.880	H	MM Channel	27684	
3.880	H	Test Card	27684	
3.880	H	YTN	27684	
3.911	V	Fox Sports Basico	13330	
3.911	V	Fox Sports Basico	13330	
3.911	V	FOX SPORTS CONO S	13330	
3.911	V	Fox Sports Premium	13330	
3.911	V	Fox Sports Premium	13330	
3.924	V	Enlace Juvenil	6620	
3.924	V	TBN Enlace	6620	
3.933	V	3ABN	7000	
4.000	H	BBC World	27690	
4.000	H	BBC World (Latin A	27690	
4.000	H	German TV	27690	
4.000	H	Paris Premiere	27690	
4.000	H	Zee TV	27690	
4.000	H	Deutsche Welle TV	27690	
4.000	H	RTP International	27690	
4.000	H	Test Card	27690	
4.080	H	!Central Europe Emer	27684	
4.080	H	Copy AsiaPac NTSC	27684	
4.080	H	Hallmark Channel (Ar	27684	
4.080	H	Hallmark Channel (Br	27684	
4.080	H	Hallmark Channel (Is	27684	
4.080	H	Hallmark Channel (La	27684	
4.080	H	Hallmark Channel (Me	27684	
4.080	H	Hallmark Channel (Ru	27684	
4.080	H	Hallmark Channel (Sc	27684	
4.080	H	Hallmark Channel (UK	27684	
4.080	V	MTV	27690	
4.080	V	MTV (South)	27690	
4.080	V	MTV Central	27690	
4.080	V	MTV Central (Andean)	27690	
4.080	V	MTV Central (Caribbe	27690	
4.080	V	MTV Central (Chile)	27690	
4.080	V	MTV Central (Colombi	27690	
4.080	V	MTV Central (Venezue	27690	
4.080	V	MTV North (Mexico)	27690	
4.080	V	Nickelodeon (Andean)	27690	
4.080	V	Nickelodeon (Argenti	27690	
4.080	V	Nickelodeon (Brasil)	27690	
4.080	V	Nickelodeon (Caribbe	27690	
4.080	V	Nickelodeon (Central	27690	
4.080	V	Nickelodeon (Chile)	27690	
4.080	V	Nickelodeon (Colombi	27690	
4.080	V	Nickelodeon (Mexico)	27690	
4.080	V	Nickelodeon (Venezue	27690	
4.080	H	Primary Argentina 2P	27684	
4.080	H	Primary Brazil Encod	27684	
4.080	H	Primary Mexico Encod	27684	
4.080	H	PrimaryLatAmPanReg	27684	
4.080	H	Test Asia	27684	
4.080	V	VH1	27690	
4.080	V	VH1 Latino	27690	
4.107	H	1 Nacional	6620	
4.107	H	2 Internacional	6620	
4.107	H	3 Servicios	6620	
4.120	V	Al Arabiyah	27500	
4.120	V	Al Jazeera	27500	
4.120	V	ART Australia	27500	
4.120	V	Art Global America	27500	
4.120	V	ART Latino	27500	
4.120	V	Art Movies Ameica	27500	
4.120	V	Iqraa Channel	27500	
4.120	V	Kuwait TV	27500	
4.120	V	LBC America	27500	
4.120	V	LBC Australia	27500	
4.120	V	Leonardo World	27500	
4.120	V	MBC Europe	27500	
4.120	V	NBN	27500	
4.120	V	RAI International	27500	
4.120	V	Video Italia	27500	
4.120	V	NourSat	27500	
4.123	H	CTNi	2222	
4.127	H	Bethel TV	3273	
4.137	H	Family Christian Net	3675	
4.137	H	FCN	2941	
4.143	V	Feeds	2205	
4.157	H	Feeds (Sersat)	6500	
4.160	V	La Cadena del Milagr	3000	

America, Europe

C-Band: INTELSAT 805

304.5 East (55.5 West)

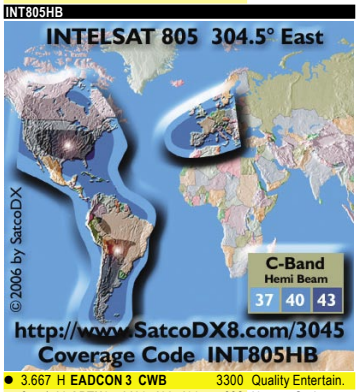
INT805GL



GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
3.603	V	IMC TEST CHANNE	6655	Advertisement
3.603	V	JNN INTL CHANNE	6655	Low Level
3.603	V	FSC JAMAICA	6655	Advertisement
3.612	V	VHSA TAB	3798	Quality Entertain.
3.674	H	EADCON 5	3200	Quality Entertain.
3.679	H	EADCON 4	3100	Quality Entertain.
3.684	H	EADCON 1	4444	News + Series
3.684	H	EADCON 2	4444	News + Series
3.691	H	EADCON 6	4500	News + Series
3.691	H	EADCON 7	4500	News + Series
3.696	H	Perú Mágico	4232	News + Series
3.715	H	EADCON 5	8890	Quality Entertain.
3.727	V	TVA Guatemal CH 31	3000	Advertisement
3.735	V	IMC	8681	Advertisement
3.735	V	RE TV	8681	Advertisement
3.735	V	SPORTSMAX	8681	Low Level
3.735	V	TV6 CONFED CUP	8681	Advertisement
3.751	H	MN SAT	3350	Quality Entertain.
3.768	H	Latin America	4427	Quality Entertain.
3.771	V	FTV	13333	News + Series
3.771	V	MRTV-RR Feed	13333	Low Level
3.771	V	Telemedia	13333	News + Series
3.771	V	TGN	13333	News + Series
3.771	V	VTV-4	13333	News + Series
3.771	V	Rodnoy RBN	13333	Low Level
3.771	V	SUPREME MASTER TV	13333	Quality Entertain.
3.776	H	ATV	7400	Quality Entertain.
3.776	H	Global TV	7400	News + Series
3.776	H	La Tele	7400	News + Series
3.791	H	RTU_ECUADOR	2244	Low Level
3.858	H	SCOPUS-NET-TECH	4444	Home Cinema
3.907	H	TV CAPIXABA	3255	Quality Entertain.
3.970	V	PROG_1	3703	News + Series
3.970	V	PROG_2	3703	News + Series
4.084	H	CANAL 3 GUATEMALA	10318	Quality Entertain.
4.084	H	Feed Guatemala	10318	Low Level
4.084	H	TELE-ONCE	10318	News + Series
4.084	H	TELEVISIETE	10318	Quality Entertain.

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
● 4.084	H	**TRECEVISION**	10318	News + Series
4.097	H	**CANAL 10**	5247	Quality Entertain.
4.097	H	**CANAL 4**	5247	Quality Entertain.
4.105	H	**Canal 6 CR**	5062	Quality Entertain.
4.105	H	**Canal 11**	5062	News + Series
4.111	H	**Telesistema**	3333	Quality Entertain.
4.135	H	**GI UPGD S/W**	6111	Home Cinema
4.135	H	**GLOBO INTERNACION**	6111	Home Cinema
4.135	H	**GLOBO INTERNATION**	6111	Home Cinema
4.135	H	**GLOBO INTERNATION**	6111	Home Cinema
4.177	V	**MTVNI-HD**	27690	High Qual. Cinema
4.177	V	**Code DL**	27690	Low Level
4.177	V	**MTV CENTRAL**	27690	Low Level
4.177	V	**MTV CENTRAL - COP**	27690	News + Series
4.177	V	**MTV CENTRAL - COP**	27690	News + Series
4.177	V	**MTV CENTRAL - COP**	27690	Low Level
4.177	V	**MTV CENTRAL - COP**	27690	Low Level
4.177	V	**MTV CENTRAL CHILE**	27690	Low Level
4.177	V	**MTV H**	27690	Quality Entertain.
4.177	V	**MTV J**	27690	Quality Entertain.
4.177	V	**MTV NORTH (MEXICO**	27690	News + Series
4.177	V	**MTV SOUTH [ARGENT**	27690	News + Series
4.177	V	**NICK [BRAZIL]**	27690	Low Level
4.177	V	**NICK JR LAT**	27690	Quality Entertain.
4.177	V	**NICK NORTH - COP**	27690	Low Level
4.177	V	**NICK NORTH - COPY**	27690	Low Level
4.177	V	**NICK NORTH - COPY**	27690	News + Series
4.177	V	**NICK NORTH - COPY**	27690	Low Level
4.177	V	**NICK NORTH [MEXIC**	27690	News + Series
4.177	V	**NICK SOUTH - COPY**	27690	News + Series
4.177	V	**NICK SOUTH [ARGEN**	27690	News + Series
4.177	V	**NICK SOUTH [CHILE**	27690	News + Series
4.177	V	**Test 9**	27690	News + Series
4.177	V	**VH-1 LATINO [PANR**	27690	News + Series
4.177	V	**VH1 LATINO CENTRA**	27690	News + Series
4.177	V	**VH1 Latino South [**	27690	Low Level
4.177	V	**VH1 SL**	27690	Quality Entertain.
4.177	V	**VH1CLPE**	27690	Quality Entertain.
4.177	V	**VH1L B**	27690	Low Level

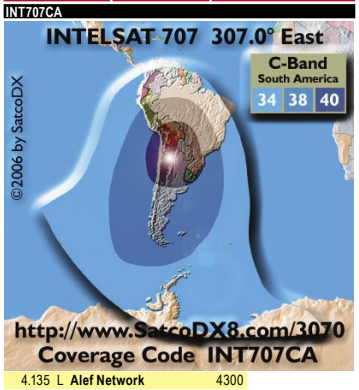
INT805HB



● 3.667	H	**EADCON 3 CWB**	3300	Quality Entertain.
3.751	V	**APTN3 +442074827430**	5632	News + Series
● 3.759	H	**BOLIVIA-tv**	2963	Quality Entertain.
4.080	V	**RTPi America**	4340	Quality Entertain.
4.140	V	**AUDIO TEST**	4700	Home Cinema
4.140	V	**FRECUENCIA LATINA**	4700	Home Cinema

INTELSAT 707
307.0 East (53.0 West)

INT707CA



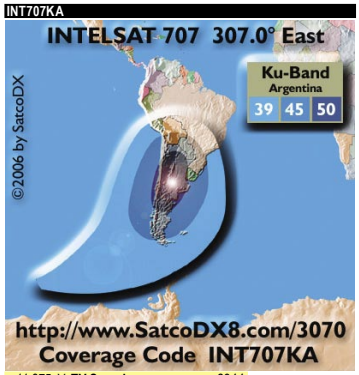
4.135	L	**Alef Network**	4300	

INT707EH



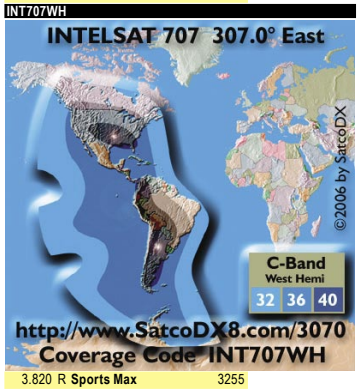
3.831	R	**ORTB**	2711	
3.856	R	**AFRICABLE**	3906	

INT707KA



11.875	V	**TV Senado**	2344	
11.891	V	**Entel Mux**	19510	

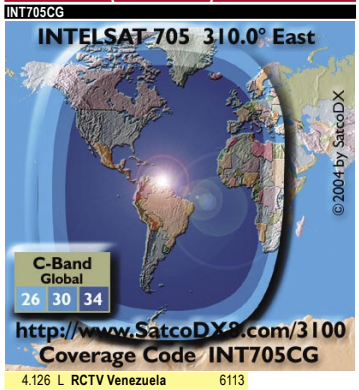
INT707WH



3.820	R	**Sports Max**	3255	

C-Band: INTELSAT 705
310.0 East (50.0 West)

INT705CG



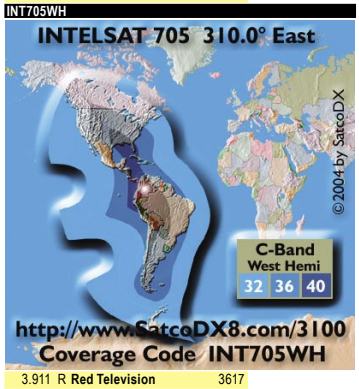
4.126	L	**RCTV Venezuela**	6113	

INT705EH



4.071	L	**TVes**	4600	

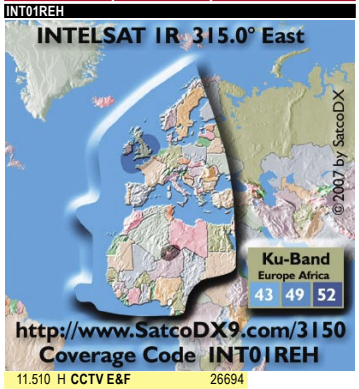
INT705WH



3.911	R	**Red Television**	3617	
3.917	R	**Tele Canal**	4087	

INTELSAT 1R
315.0 East (45.0 West)

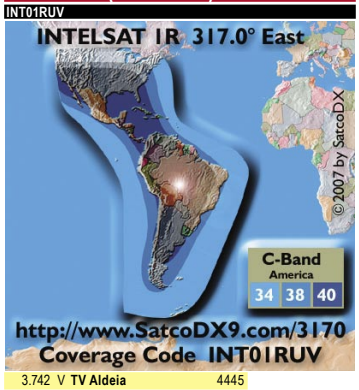
INT01REH



11.510	H	**CCTV E&F**	26694	

C-Band: INTELSAT 1R
315.1 East (44.9 West)

INT01RUV



3.742	V	**TV Aldeia**	4445	

South America
INTELSAT 1R
315.2 East (44.8 West)

INT01RAH



11.808	H	**TV PAN**	4777	News + Series

INTELSAT 3R, 11
317.0 East (43.0 West)

INT06BBR



10.722	H	**The Weather Channel**	30000	

C-Band: INTELSAT 3R
317.1 East (42.9 West)

INT03RAM



3.719	V	**Fox Sports feeds (ch**	19849	

America, Europe
C-Band: NSS 806
319.5 East (40.5 West)

NSS806CH



● 3.637	L	**DVB-Server**	2963	Quality Entertain.
● 3.641	R	**CMB TV**	2666	News + Series
3.644	L	**TV NAZAR**	2534	News + Series
● 3.646	R	**GENESIS EXECUTIVA**	3979	News + Series
● 3.646	R	**TV GENESIS**	3979	News + Series
3.652	L	**TV GRANDE RIO**	4000	Home Cinema
● 3.653	R	**TV ASA BRANCA**	5925	
3.660	L	**America Television**	4350	Home Cinema
● 3.663	R	**REDE UNIAO**	2170	Advertisement
3.675	L	**NT ESPAN**	5900	News + Series
3.675	L	**NT PORT.**	5900	News + Series
3.675	L	**RNT ESP.**	5900	
3.675	L	**RNT POR.**	5900	

C-Band: NSS 10
322.6 East (37.4 West)

NSS010HA



3.805	H	**METRO TV**	2143	

INTELSAT 903
325.5 East (34.5 West)

INT903KA



11.095	V	**Canal Satellite Cara**	30000	

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

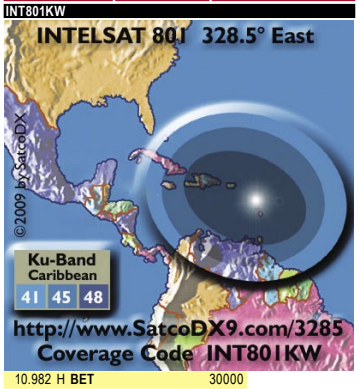
High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

Cost Conscious Entertainment ..... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

INTELSAT 801

328.5 East (31.5 West)

INT801KW



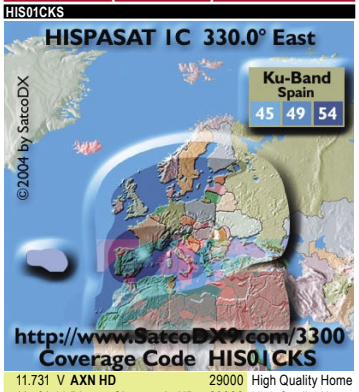
Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
10.982	H	BET	30000	

Europe

HISPASAT 1C, 1D

330.0 East (30.0 West)

HIS01CKS



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.731	V	AXN HD	29000	High Quality Home
11.731	V	Disney Cinemagic HD	29000	High Quality Home
● 11.731	V	FOX Life HD	29000	High Quality Home
11.731	V	MOV HD	29000	High Quality Home
11.731	V	National Geographic	29000	High Qual. Cinema
● 11.731	V	RTP 1 HD	29000	High Quality Home
● 11.731	V	TVCine HD	29000	High Qual. Cinema
11.731	V	Eurosport HD	29000	High Quality Home
● 11.731	V	FOX HD	29000	High Quality Home
11.731	V	Sport TV HD	29000	High Quality Home
11.771	H	BBC Prime	27500	News + Series
11.771	H	Cartoon / TCM	27500	Low Level
11.771	H	E! Entertainment	27500	News + Series
● 11.771	H	FOX Life	27500	News + Series
11.771	H	MCM TOP	27500	Quality Entertain.
● 11.771	H	Nickelodeon	27500	Low Level
11.771	H	PFC	27500	Low Level
11.771	H	RTP Madeira	27500	Quality Entertain.
11.771	H	The Biography Channe	27500	News + Series
11.771	H	TV Globo Portugal	27500	News + Series
● 11.771	H	TVCine 2	27500	News + Series
11.771	H	VH1 Classic	27500	News + Series
11.771	H	ZON Filmes	27500	Quality Entertain.
11.811	H	Acolhimento	27500	News + Series
11.811	V	C.ESTRELLAS	27500	News + Series
11.811	H	Canal Panda	27500	News + Series
11.811	V	CNN+	27500	Quality Entertain.
11.811	H	DSMCC - IPPV	27500	News + Series
11.811	H	DSMCC - RADIOS	27500	News + Series
● 11.811	V	FAMA 24H	27500	Low Level
11.811	V	RMTV	27500	News + Series
11.811	H	RTP 1	27500	Quality Entertain.
11.811	H	RTP 2	27500	Quality Entertain.
● 11.811	H	RTP N	27500	News + Series
11.811	H	SIC	27500	Low Level
11.811	H	SIC Notícias	27500	News + Series
11.811	V	TCM CLÁSICO	27500	Low Level
11.811	H	TVI	27500	News + Series
11.811	V	ANDALUCÍA TV	27500	News + Series
11.811	V	CANAL CLUB	27500	Low Level
11.811	H	Disney Channel	27500	Advertisement
11.811	V	EUSKADI TV	27500	News + Series
11.811	H	Hot	27500	Advertisement
11.811	H	Sport TV 3	27500	Advertisement
11.811	V	TAQUILLA	27500	Low Level
11.811	V	TMADRID SAT	27500	Quality Entertain.
11.811	V	TV GALICIA	27500	News + Series
11.811	V	TV3CAT	27500	News + Series
● 11.811	H	XXL	27500	Advertisement
11.811	H	ZON Filmes	27500	Advertisement
11.811	V	{Empty}	27500	Low Level
11.851	V	40 TV	27500	News + Series
● 11.851	H	AR TV	27500	News + Series
11.851	V	CANAL+	27500	Home Cinema
11.851	V	CANAL+ 2	27500	Low Level
11.851	V	CULTURAL.ES	27500	News + Series
11.851	V	DISCOVERY	27500	News + Series
11.851	V	DISNEY CH.	27500	News + Series
11.851	V	PARAMOUNT C	27500	News + Series
11.851	H	Playboy TV	27500	Low Level
● 11.851	H	Porto Canal	27500	Quality Entertain.
● 11.851	H	RTP Memória	27500	News + Series
● 11.851	H	Sony TV	27500	News + Series
11.851	H	Sport TV 1	27500	Quality Entertain.
● 11.851	H	Sport TV 2	27500	News + Series
● 11.851	H	Sport TV 3	27500	Quality Entertain.
11.851	V	SPORTMANÍA	27500	Quality Entertain.
11.851	V	TCM MODERNO	27500	News + Series
11.851	V	TELEDEPORTE	27500	News + Series
● 11.851	H	TV Record	27500	Quality Entertain.
● 11.851	H	TVI 24	27500	News + Series
● 11.851	H	XXL	27500	Low Level
● 11.851	H	Canal Programação	27500	News + Series
11.851	H	Futebol MC 1	27500	Advertisement
11.851	H	Futebol MC 2	27500	Advertisement
11.851	H	Futebol MC 3	27500	Advertisement
11.851	H	Futebol MC 4	27500	Advertisement
11.851	H	Sport TV 2	27500	Advertisement
11.891	H	Arte	27500	News + Series
11.891	V	C+ ACCIÓN	30000	Home Cinema
11.891	V	C+ COMEDIA	30000	Quality Entertain.
11.891	V	C+ DCINE	30000	Quality Entertain.
11.891	V	CARTOON N +1	30000	Low Level
11.891	V	DECASA	30000	News + Series
11.891	V	DISNEY CH.+1	30000	News + Series
● 11.891	V	DISNEY XD	30000	News + Series
11.891	H	Eurosport News	27500	News + Series
11.891	H	Extreme Sports Chann	27500	Quality Entertain.
11.891	H	Fashion TV	27500	Quality Entertain.
● 11.891	V	G. HERMANO	30000	News + Series
● 11.891	H	Hollywood	27500	News + Series
11.891	H	Millennium TV	27500	Low Level
11.891	H	MOV	27500	Quality Entertain.
11.891	V	MTV	30000	Quality Entertain.
11.891	V	NICK +1	30000	Low Level
11.891	V	PLAYHOUSE	30000	News + Series
11.891	H	RAI Uno	27500	Low Level
11.891	H	RTL	27500	Low Level
11.891	V	SONY TV	30000	News + Series
11.891	H	TV Galicia	27500	Low Level
11.891	H	TV5 Monde	27500	Low Level
● 11.891	H	TVCine	27500	News + Series
● 11.891	H	TVCine 1	27500	News + Series
11.891	H	TVE Internacional	27500	News + Series
● 11.931	V	C+ LIGA HD	27500	High Qual. Cinema
● 11.931	V	C+ EVENTOS	27500	News + Series
● 11.931	V	CANAL+ LIGA	27500	Quality Entertain.
● 11.931	V	FERIA PILAR	27500	Quality Entertain.
11.931	H	LOCALIA	27500	Quality Entertain.
11.931	H	MAS TV	27500	News + Series
● 11.931	V	MULTILIGA	27500	Low Level
11.931	V	TAQUILLA 5	27500	Quality Entertain.
11.931	H	ATLAS NEWS	27500	Quality Entertain.
11.931	H	CANAL 53	27500	News + Series
11.931	H	CUBO TV	27500	News + Series
● 11.931	H	MARIA VISION	27500	News + Series
11.931	V	MULTI-X	27500	Advertisement
11.931	V	MULTI-X (1)	27500	Advertisement
11.931	V	MULTI-X (2)	27500	Advertisement
11.931	V	MULTI-X (3)	27500	Advertisement
11.931	V	MULTIPANT.1	27500	Advertisement
11.931	V	MULTIPANT.2	27500	Advertisement
11.931	H	RETELSAT	27500	Quality Entertain.
11.931	H	RTPA Internacional	27500	News + Series
11.931	H	SENADO	27500	News + Series
11.931	V	TAQ XXHARD	27500	Advertisement
11.931	V	TAQUILLA 6	27500	Advertisement
11.931	V	TAQUILLA 7	27500	Advertisement
11.931	V	TAQUILLA 8	27500	Advertisement
11.931	V	TAQUILLAX	27500	Advertisement
11.931	V	TAQUILLAXX	27500	Advertisement
11.931	H	Telelinea	27500	News + Series
11.931	H	TELETREBOL	27500	News + Series
11.972	V	God TV	27500	High Quality Home
● 11.972	V	PREMIUM CHANNEL	27500	High Quality Home
11.972	V	IB Sat	27500	Quality Entertain.
11.972	V	Parlamentario	27500	Quality Entertain.
11.972	V	Popular TV	27500	Quality Entertain.
11.972	V	Red AD Venir	27500	News + Series
11.972	V	Telesur	27500	Quality Entertain.
11.972	V	TV Aragon	27500	News + Series
11.972	V	TV Record	27500	Quality Entertain.
11.972	V	TVE Internacional	27500	Quality Entertain.
12.012	V	AXN	27500	News + Series
12.012	V	BBC WORLD	27500	Quality Entertain.
12.012	V	BBC World News	27500	Quality Entertain.
12.012	V	CNBC	27500	News + Series
12.012	V	CNN	27500	News + Series
12.012	V	CNN INT	27500	News + Series
12.012	V	EURONEWS	27500	Low Level
12.012	V	EuroNews	27500	Low Level
● 12.012	V	Eurosport	27500	News + Series
12.012	V	France 24	27500	News + Series
12.012	V	FRANCE 24 ENG	27500	News + Series
12.012	V	Hot	27500	Low Level
12.012	V	Mezzo	27500	News + Series
12.012	V	MEZZO	27500	News + Series
12.012	V	MTV TWO	27500	News + Series
12.012	V	MTV2	27500	Quality Entertain.
12.012	V	People + Arts	27500	Quality Entertain.
12.012	V	SIC Mulher	27500	Low Level
12.012	V	SKY News	27500	Low Level
12.012	V	VH1	27500	News + Series
12.052	H	BLOOMBERG	30000	High Quality Home
12.052	H	CARTOON	30000	High Quality Home
12.052	H	CNBC EUROPE	30000	High Quality Home
12.052	H	DEUTSCHE WELLE	30000	High Quality Home
12.052	H	DISCOVERY CHANNEL	30000	High Quality Home
12.052	H	DISNEY CHANNEL	30000	High Quality Home
12.052	H	ESPN AMERICA	30000	High Quality Home
12.052	H	EUROCHANNEL	30000	High Quality Home
12.052	H	EUROSPORT2	30000	High Quality Home
12.052	H	FUEL TV	30000	High Quality Home
12.052	H	MCM POP	30000	High Quality Home
12.052	H	MEZZO	30000	High Quality Home
12.052	H	MGM	30000	High Quality Home
12.052	H	ODISSEIA	30000	High Quality Home
12.052	H	PLAYBOY TV	30000	High Quality Home
12.052	H	SIC	30000	High Quality Home
12.052	H	SIC MULHER	30000	High Quality Home
12.052	H	SIC NOTÍCIAS	30000	High Quality Home
12.052	H	SIC RADICAL	30000	High Quality Home
12.052	H	SONY ENTERTAINMEN	30000	High Quality Home
12.052	H	SPORT TV 2	30000	High Quality Home
12.052	H	SPORT TV 3	30000	High Quality Home
● 12.052	V	TVC3	30000	High Quality Home
12.052	H	ZONE REALITY	30000	High Quality Home
12.052	H	EUROSPORT HD	30000	High Quality Home
12.092	V	Disney Channel	27500	News + Series
12.092	V	Disney Cinemagic	27500	Quality Entertain.
12.092	V	AL JAZZERA INTL	27500	Quality Entertain.
12.092	V	CNC	27500	Quality Entertain.
12.092	V	CUBAVISION	27500	Quality Entertain.
12.092	V	DAYSTAR	27500	News + Series
12.092	V	TBN ENLACE	27500	Quality Entertain.
12.092	V	TV5MONDE EUROPE	27500	Quality Entertain.
12.092	V	VIT TV	27500	News + Series
12.092	V	VNEWS	27500	News + Series

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Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.535	V	BIOGRAPHY	24500	Home Cinema
11.535	V	COCINA	24500	Quality Entertain.
11.535	V	decasa	24500	News + Series
11.535	V	HISTORIA	24500	Quality Entertain.
11.535	V	HOLLYWOOD ESP	24500	Quality Entertain.
11.535	V	HOLLYWOOD POR	24500	News + Series
11.535	V	ODI.HIS.CUE	24500	News + Series
11.535	V	ODISEA	24500	News + Series
11.535	V	PANDA	24500	News + Series
11.535	V	SOL	24500	Quality Entertain.
11.535	V	TEST	24500	News + Series
11.577	V	AlJazeera	27500	Low Level
11.577	V	Caça e Pesca	27500	Quality Entertain.
11.577	V	Discovery Civilizati	27500	News + Series
11.577	V	Discovery Science	27500	News + Series
11.577	V	Discovery Turbo	27500	News + Series
11.577	V	M6	27500	News + Series
11.577	V	MTV Dance	27500	News + Series
11.577	V	MTV Music	27500	News + Series
● 11.577	V	MTV Portugal	27500	Quality Entertain.
11.577	V	National Geographic	27500	News + Series
● 11.577	V	RTP África	27500	News + Series
● 11.577	V	SIC Radical	27500	Quality Entertain.
11.617	V	Baby First	27500	News + Series
● 11.617	V	Discovery Channel	27500	News + Series
11.617	V	ESPN America	27500	News + Series
11.617	V	Festa Brava	27500	Quality Entertain.
11.617	V	FOX	27500	News + Series
11.617	V	FOX Crime	27500	News + Series
11.617	V	FX	27500	News + Series
11.617	V	RTP Açores	27500	News + Series
11.617	V	Travel Channel	27500	Quality Entertain.
● 11.617	V	TVCine 3	27500	Quality Entertain.
11.617	V	Yacht & Sail	27500	News + Series
11.617	V	Zone Reality	27500	News + Series
11.617	V	Futebol MC 1	27500	Advertisement
11.617	V	Futebol MC 2	27500	Advertisement
11.617	V	Futebol MC 3	27500	Advertisement
11.617	V	Futebol MC 4	27500	Advertisement
11.646	V	DTV1	1667	Quality Entertain.
11.676	H	A3 AVERIA CANARIA	16190	Home Cinema
11.676	H	A3 CANARIAS	16190	Home Cinema
11.676	H	CONMUTACION TVA I	16190	Home Cinema
11.676	H	Pruebas1	16190	Home Cinema
11.676	H	TVAC	16190	Home Cinema
11.676	H	TVAC RESET DAMA	16190	Home Cinema
11.676	H	TVE1-CANARIAS	16190	Home Cinema
11.676	H	TVE2-CANARIAS	16190	Home Cinema
11.682	V	Mana Sat 1	3800	News + Series
11.682	V	Mana Sat 2	3800	News + Series
11.731	H	AXN	30000	High Quality Home
11.731	H	AXN HD	30000	High Quality Home
11.731	H	BARÇA TV	30000	High Quality Home
● 11.731	H	CAZAVISIÓN	30000	High Quality Home
11.731	H	CHELSEA TV	30000	High Quality Home
● 11.731	H	FOX	30000	High Quality Home
● 11.731	H	FOX CRIME	30000	High Quality Home
● 11.731	H	FX	30000	High Quality Home
11.731	H	INTER CHANNEL	30000	High Quality Home
11.731	H	MAN UNITED TV	30000	High Quality Home
11.731	H	REAL MADRID TV	30000	High Quality Home
11.731	H	SCI FI HD	30000	High Quality Home
12.012	H	ANIMAX	30000	High Quality Home
12.012	H	BABY TV	30000	High Quality Home
12.012	H	BBC WORLD	30000	High Quality Home
12.012	H	C-MUSIC	30000	High Quality Home
12.012	H	CANAL DE HISTÓRIA	30000	High Quality Home
12.012	H	E! ENTERTAINMENT	30000	High Quality Home
12.012	H	EUROSPORT	30000	High Quality Home
12.012	H	EUROSPORTNEWS	30000	High Quality Home
12.012	H	HOLLYWOOD	30000	High Quality Home
12.012	H	NAT GEO MUSIC	30000	High Quality Home
12.012	H	NAT GEO WILD	30000	High Quality Home
12.012	H	NATIONAL GEOGRAPH	30000	High Quality Home
12.012	H	PRIVATE SPICE	30000	High Quality Home
12.012	H	PRIVATE WEEKEND	30000	High Quality Home
12.012	H	RTP 1	30000	High Quality Home
12.012	H	RTP 2	30000	High Quality Home
12.012	H	RTP AÇORES	30000	High Quality Home
12.012	H	RTP MADEIRA	30000	High Quality Home
12.012	H	RTP MEMÓRIA	30000	High Quality Home
12.012	H	RTP N	30000	High Quality Home
12.012	H	RTP ÁFRICA	30000	High Quality Home
12.012	H	SCI FI	30000	High Quality Home
12.012	H	STYLE NETWORK	30000	High Quality Home
12.012	H	TCM	30000	High Quality Home
● 12.012	H	TVC2	30000	High Quality Home
12.012	H	EURONEWS	30000	High Quality Home
12.092	H	BBC PRIME	30000	High Quality Home
12.092	H	BENFICA TV	30000	High Quality Home
12.092	H	CNN	30000	High Quality Home
12.092	H	ESPN CLASSIC	30000	High Quality Home
12.092	H	FASHION TV	30000	High Quality Home
12.092	H	FOX NEWS	30000	High Quality Home
12.092	H	FOX NEXT	30000	High Quality Home
12.092	H	JIM JAM	30000	High Quality Home
12.092	H	MOTORS TV	30000	High Quality Home
12.092	H	MTV PORTUGAL	30000	High Quality Home
12.092	H	NATIONAL GEOGRAPH	30000	High Quality Home
12.092	H	PANDA	30000	High Quality Home
12.092	H	PEOPLE + ARTS	30000	High Quality Home
12.092	H	SKY NEWS	30000	High Quality Home
12.092	H	SPORT TV 1	30000	High Quality Home
12.092	H	THE BIOGRAPHY CHA	30000	High Quality Home
12.092	H	TRACE TV	30000	High Quality Home
12.092	H	TRAVEL CHANNEL	30000	High Quality Home
12.092	H	TV GLOBO PORTUGAL	30000	High Quality Home
● 12.092	H	TVC	30000	High Quality Home
● 12.092	H	TVC1	30000	High Quality Home
12.092	H	TVI	30000	High Quality Home
12.092	H	VH1	30000	High Quality Home
12.092	H	FRANCE 24	30000	High Quality Home
12.092	H	SPORT TV HD	30000	High Quality Home
12.149	V	24 HORAS	27500	News + Series
12.149	V	Baby First	27500	Low Level
12.149	V	BABYFIRST	27500	Low Level
12.149	V	BIOGRAPHY	27500	Home Cinema
12.149	V	Bloomberg	27500	News + Series
12.149	V	BLOOMBERG	27500	News + Series
12.149	V	Canal de História	27500	Quality Entertain.
12.149	V	CANAL ODISEA	27500	News + Series
12.149	V	CAZA Y PESCA	27500	Quality Entertain.
12.149	V	Caça e Pesca	27500	News + Series
12.149	V	COSMOPOLITAN	27500	News + Series
12.149	V	HISTORIA	27500	News + Series
12.149	V	MÉTEO	27500	News + Series
12.149	V	Odisseia	27500	Quality Entertain.
● 12.149	V	TVE 24h	27500	Quality Entertain.
12.149	V	VIAJAR	27500	News + Series
● 12.149	V	EHS	27500	News + Series
12.149	V	{Empty}	27500	Low Level
12.226	V	AXN	27500	News + Series
12.226	V	C+ ACCIÓN 30	27500	Quality Entertain.
12.226	V	C+COMEDIA 30	27500	News + Series
12.226	V	CANAL COCINA	27500	News + Series
12.226	V	CARACOL TV	27500	News + Series
12.226	V	DCINEESPAÑOL	27500	News + Series
12.226	V	ECUAVISA INT	27500	News + Series
12.226	V	FOX	27500	Quality Entertain.
12.226	V	SCI FI	27500	News + Series
12.226	V	TVE 1	27500	News + Series
12.226	V	RAD. LATINAS	27500	Low Level
12.226	V	RADIOS	27500	Low Level
12.226	V	TVV INT.	27500	News + Series
12.303	V	ANIMAX	27500	Low Level
● 12.303	V	BARÇA TV	27500	News + Series
12.303	V	BOOMERANG	27500	Low Level
12.303	V	CARTOON NET.	27500	News + Series
12.303	V	NICK	27500	Quality Entertain.
12.303	V	TAQUILLA 1	27500	Quality Entertain.
12.303	V	TAQUILLA 2	27500	News + Series
12.303	V	TAQUILLA 3	27500	News + Series
12.303	V	TAQUILLA 4	27500	Quality Entertain.
12.303	V	TAQUILLAXY	27500	News + Series
12.303	V	TELECINCO	27500	News + Series
● 12.303	V	MULTIPANT.1	27500	Advertisement
● 12.303	V	MULTIPANT.2	27500	Advertisement
12.303	V	MULTIPANT.3	27500	Advertisement
12.303	V	MULTIPANT.4	27500	Advertisement
12.303	V	TAQUILLA X	27500	Advertisement
12.379	V	40 LATINO	27500	Low Level
12.379	V	ANTENA 3	27500	News + Series
12.379	V	C+ DEPORTES	27500	Quality Entertain.
12.379	V	C+ FÚTBOL	27500	News + Series
12.379	V	CALLE 13	27500	News + Series
12.379	V	CANAL+...30	27500	Quality Entertain.
12.379	V	FOX NEWS	27500	Low Level
12.379	V	GOLF+	27500	News + Series
12.379	V	NAT GEOGRAPH	27500	News + Series
12.379	V	PLAYBOY TV	27500	News + Series
12.379	V	PORTADA	27500	Low Level
12.456	V	CLAN TVE	30000	News + Series
12.456	V	CLÁSICO	30000	News + Series
12.456	V	CUATRO	30000	Home Cinema
12.456	V	EUROSPORT	30000	Low Level
12.456	V	HOGARUTIL	30000	News + Series
12.456	V	HOLLYWOOD	30000	Low Level
12.456	V	LA 2	30000	News + Series
12.456	V	LA SEXTA	30000	Quality Entertain.
12.456	V	TELENOVELAS	30000	News + Series
12.456	V	TNT	30000	News + Series
12.456	V	Amigos+	30000	Low Level
12.456	V	Contactanos	30000	Low Level
12.456	V	GUÍADIGITAL+	30000	Low Level
12.456	V	Paquetes	30000	Low Level
12.456	V	Recibo	30000	Low Level
12.456	V	Tu mando	30000	Low Level
12.456	V	TV CANARIA	30000	News + Series
12.456	V	{Empty}	30000	Low Level
12.522	V	LA SEXTA	7400	Home Cinema
12.522	V	XARXA TVL	7400	Quality Entertain.
● 12.547	V	65_TEST2	30000	Home Cinema
12.547	V	A3 EMERG CANARIAS	30000	Home Cinema
12.547	V	ANTENA 3	30000	Home Cinema
12.547	V	CUATRO	30000	Home Cinema
12.547	V	TELE 5	30000	Home Cinema
12.547	V	TELE 5 CANARIAS	30000	Quality Entertain.
12.547	V	TVE 1	30000	Home Cinema
● 12.547	V	TVE 1 st	30000	Quality Entertain.

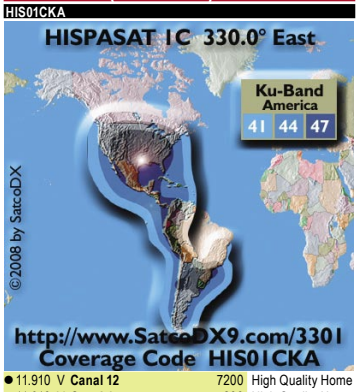
Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
12.547	V	TVE 2	30000	Home Cinema
● 12.547	V	TVE 2 st	30000	Home Cinema
● 12.547	V	65 OCS4	30000	Quality Entertain.
● 12.547	V	65_OCS_3	30000	Quality Entertain.
12.547	V	Backup_Algeciras	30000	Quality Entertain.
12.547	V	REG CUATRO	30000	Quality Entertain.
12.547	V	Test download	30000	Quality Entertain.

South America

HISPASAT 1C, 1D

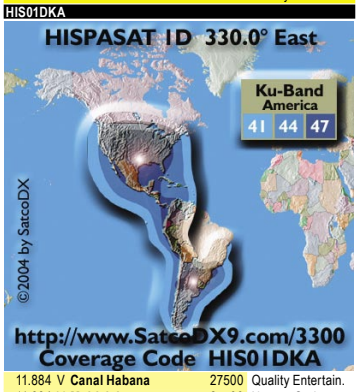
330.1 East (29.9 West)

HIS01CKA



Freq	Pol	Channel Name	Symbol Rate	Programming Type
● 11.910	V	Canal 12	7200	High Quality Home
● 11.910	V	Canal 4	7200	High Quality Home
11.910	V	Eventos	7200	High Quality Home
● 11.910	V	Rut	7200	High Quality Home
● 11.910	V	Canal 5	7200	High Quality Home
● 11.910	V	TVCiudad	7200	High Quality Home
11.930	V	SCOPUS-NET-TECH	2220	Advertisement
11.937	V	RCI	7500	News + Series
11.937	V	TELECARIBE COLOMB	7500	Quality Entertain.
11.937	V	ZOOM	7500	News + Series
12.052	V	24HTVE	27500	News + Series
12.052	V	24HTVE NUEVO	27500	Quality Entertain.
12.052	V	ANTENA3	27500	Quality Entertain.
12.052	V	CULTURA	27500	News + Series
12.052	V	CULTURAL.ES NUEVO	27500	Quality Entertain.
12.052	V	TVEA1 NUEVO	27500	Quality Entertain.
12.052	V	TVEA2	27500	News + Series
12.052	V	TVEA2 NUEVO	27500	Quality Entertain.
12.052	V	ETB	27500	Quality Entertain.
12.052	V	RTPA Internacional	27500	Quality Entertain.
12.052	V	TV3 Cat	27500	Quality Entertain.
12.052	V	TVGA	27500	Quality Entertain.
12.132	H	Abu Dhabi TV	27500	News + Series
12.132	H	Al-Iraqiya	27500	News + Series
12.132	H	Jamahirya TV	27500	News + Series
12.132	H	Oman TV	27500	News + Series
12.132	H	Qatar TV	27500	Quality Entertain.
12.132	H	Saudi TV	27500	Quality Entertain.
12.132	H	Sharjah tv	27500	Quality Entertain.
12.132	H	Southern Sudan	27500	Advertisement
12.132	H	Sudan TV	27500	News + Series
12.132	H	Syrian Drama Channel	27500	Quality Entertain.
12.132	H	Syrian TV	27500	Quality Entertain.
12.137	V	canal 8 cordoba	3030	Quality Entertain.
12.145	V	Canal7	4200	Quality Entertain.
12.156	V	CANAL 6	2222	News + Series
12.159	V	CANAL LUZ 2009	2349	News + Series
12.163	V	C11 - SALTA	3030	Quality Entertain.
● 12.168	V	SOLO TANGO	5240	News + Series
● 12.168	V	SUPREME MASTER TV	5240	Quality Entertain.
● 12.172	H	ATEI TEST	27500	High Quality Home
12.172	H	REAL MADRID	27500	Quality Entertain.
12.172	H	C CANARIAS TV	27500	Quality Entertain.
12.172	H	KUWAIT CH2	27500	News + Series
12.172	H	Kuwait TV	27500	News + Series
12.172	H	MUSLIM TV	27500	Quality Entertain.
12.172	H	PRESS TV	27500	News + Series
12.172	H	RFI Newzik	27500	Advertisement
12.172	H	TV Marti	27500	Quality Entertain.
12.172	H	YOUTH SPORT	27500	News + Series
● 12.173	V	SERSAT NOC 2	2222	News + Series
● 12.188	V	TELEFE 9	2582	Quality Entertain.

HIS01DKA



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.884	V	Canal Habana	27500	Quality Entertain.
11.884	V	Multivision	27500	News + Series
11.884	V	ACN	27500	Low Level
11.884	V	CONTRIBUCION	27500	Quality Entertain.
11.884	V	Cubavision	27500	News + Series
11.884	V	Cubavision Internaci	27500	Quality Entertain.
11.884	V	Educativo	27500	Quality Entertain.
11.884	V	Educativo 2	27500	Quality Entertain.
11.884	V	Tele Rebelde	27500	Quality Entertain.

INTELSAT 907

332.5 East (27.5 West)

INT907KE

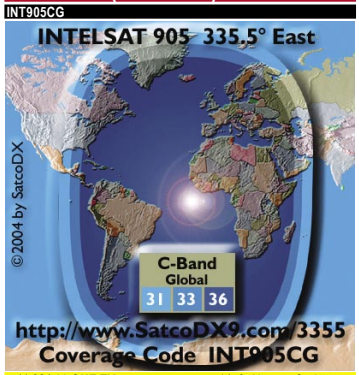


Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.665	V	Region 2A Ch5	13020	Quality Entertain.
11.665	V	Region 3A Ch5	13020	Quality Entertain.
11.665	V	Region 4A Ch5	13020	Quality Entertain.
11.665	V	Region 5A Ch5	13020	Quality Entertain.

INTELSAT 905

335.5 East (24.5 West)

INT905CG



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.024	V	ONE TV	1476	News + Series
11.025	V	DUGA	4000	News + Series
11.048	H	Azteca Internacio	14400	High Quality Home
11.048	H	Azteca Novelas	14400	High Quality Home
11.048	H	Cable Noticias	14400	High Quality Home
11.048	H	GloboVision	14400	High Quality Home
11.048	H	Humor Channel	14400	High Quality Home
11.048	H	Multivision Test 13	14400	High Quality Home
11.048	H	Multivision Test 14	14400	High Quality Home
11.048	H	RCN 24 Horas	14400	High Quality Home
11.048	H	Rumba TV	14400	High Quality Home
11.048	H	TeleNostalgia	14400	High Quality Home
11.048	H	TEST	14400	High Quality Home
11.048	H	TV Agro	14400	High Quality Home
11.048	H	TV Colombia	14400	High Quality Home
11.516	V	Glamour Plus VM18	3454	Low Level
11.675	V	Aaj Tak	27500	News + Series
11.675	V	GEO	27500	News + Series
11.675	V	GEO News	27500	News + Series
11.675	V	NDTV 24x7	27500	News + Series
11.675	V	Sahara Filmy	27500	News + Series
11.675	V	Sahara One	27500	News + Series
11.675	V	SET Europe	27500	News + Series
11.675	V	SET Max UK	27500	News + Series
11.675	V	Star Gold	27500	News + Series
11.675	V	Star One	27500	News + Series
11.675	V	Star Plus	27500	News + Series
11.675	V	NTA	27500	News + Series
11.675	V	PTV Global	27500	News + Series

North Africa, Europe

NSS 7

338.0 East (22.0 West)

NSS007EM



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.563	H	INS Europe Interna	6111	Home Cinema
11.605	H	Reuters WNS	4000	Low Level

C-Band: NSS 7

338.1 East (21.9 West)

NSS007CG



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.644	R	EQUIDIA PRO	27497	Quality Entertain.
3.644	R	2M Maroc	27497	News + Series
3.644	R	AL Maghribiya	27497	News + Series
3.644	R	CANAL ALGERIE	27497	Quality Entertain.
3.644	R	TV CONGO	27497	News + Series
3.931	L	CNN PLUS	25000	Advertisement
3.931	L	CNN Radio / Newslink	25000	Advertisement
3.931	L	CNN Spanish & Radio	25000	Advertisement
3.931	L	CNN-AOR Common	25000	Advertisement
3.931	L	CNN-AOR Turnaround	25000	Home Cinema
3.931	L	D9223 CCP Code Dow	25000	News + Series
3.931	L	D9223 DCP Code Dow	25000	Low Level
3.931	L	D9225, D9234 Code Do	25000	Advertisement
3.931	L	Newsource	25000	Advertisement
● 3.931	L	Special Feed	25000	Advertisement
3.931	L	Common Feed	25000	Advertisement
4.115	L	Atlantic	3680	Low Level
4.115	L	News	3680	Low Level
4.115	L	Sports	3680	Low Level
4.116	L	Atlantic	3680	Low Level
4.116	L	News	3680	Low Level
4.116	L	Sports	3680	Low Level
● 4.179	R	Abu Dhabi TV	27500	News + Series
● 4.179	R	France 24 (en Franca	27500	Quality Entertain.
● 4.179	R	France 24 (in Englis	27500	Quality Entertain.
● 4.179	R	Jamahirya TV	27500	Low Level
● 4.179	R	JSC	27500	News + Series
● 4.179	R	KUWAIT TV	27500	Quality Entertain.
● 4.179	R	Oman TV	27500	News + Series
● 4.179	R	Qatar TV	27500	News + Series
● 4.179	R	Saudi TV	27500	News + Series
● 4.179	R	Sharjah tv	27500	Quality Entertain.
● 4.179	R	Southern Sudan	27500	News + Series
● 4.179	R	Sudan TV	27500	News + Series
● 4.179	R	Syrian TV	27500	News + Series
● 4.179	R	TVE_Internacional	27500	Quality Entertain.

Europe, North Africa

INTELSAT 901

342.0 East (18.0 West)

INT901K1

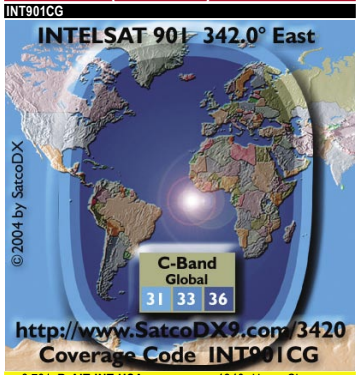


Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.057	H	TELEREPORTER SUD	1950	News + Series
11.156	H	CONADTV	1600	Low Level

C-Band: INTELSAT 901

342.1 East (17.9 West)

INT901CG



Freq	Pol	Channel Name	Symbol Rate	Programming Type
3.791	R	AIT-INT-USA	4340	Home Cinema

Europe

TELSTAR 12

345.0 East (15.0 West)

TES012ES



Freq	Pol	Channel Name	Symbol Rate	Programming Type
● 10.988	H	PBL Service 1A	2893	News + Series
10.992	H	PBL Service 2A	2893	Advertisement
11.150	H	Club CE	18386	News + Series
● 11.150	H	Club HUN	18386	News + Series
11.150	H	Extreme France	18386	Quality Entertain.
11.150	V	History Channel	19275	Quality Entertain.
11.150	V	JimJam EMEA	19275	Quality Entertain.
11.150	H	NatGeo Romenia	18386	News + Series
11.150	V	NatGeo Wild	19275	Quality Entertain.
11.150	H	Playboy TV NL	18386	News + Series
● 11.150	H	Reality EMEA 2	18386	News + Series
11.150	V	Reality Poland	19275	Quality Entertain.
11.150	H	TEST 02	18386	News + Series
11.678	V	RTV	2200	Advertisement
12.545	H	ATN 1	11900	News + Series
12.545	H	ATN 2	11900	News + Series
12.545	H	CNN HDLN	11900	News + Series
12.545	H	CNN LIVE	11900	Low Level
12.545	H	FOX	11900	Low Level
12.545	H	Pentagon	11900	News + Series
12.545	H	QUAD ISR	11900	News + Series
12.589	V	Simaye-Azadi	4503	Quality Entertain.
12.608	H	ETV	19279	News + Series
12.608	H	Phoenix InfoNews	19279	News + Series
12.608	H	AGHAPY TV	19279	News + Series
12.608	H	BBC PERSIAN	19279	Quality Entertain.
12.608	H	Hwazan	19279	News + Series
12.608	H	MAC TV	19279	News + Series
12.608	H	TZUCHI	19279	News + Series
12.608	H	VOA Persian	19279	News + Series
12.615	V	ARIAMEHR TV	11938	Low Level
● 12.615	V	GLOBECAST TEST	11938	News + Series
12.615	V	Gunaz TV	11938	News + Series
12.615	V	Scopus Net Tech	11938	Advertisement
12.645	H	EARTH TV	3255	Quality Entertain.

America

TELSTAR 12

345.1 East (14.9 West)

TES012KA



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.709	V	NBC-NEWS	3195	Advertisement
11.806	V	AL- ALAM	7596	News + Series
11.806	V	IRINN	7596	News + Series
11.806	V	JAM-E-JAME2	7596	News + Series
11.964	H	BULGARIAN NATIONA	14714	Quality Entertain.
11.964	H	SP TV	14714	Quality Entertain.
11.964	H	TPAI	14714	News + Series
11.964	H	TRACE TV	14714	News + Series
12.082	H	Latin America	3935	Quality Entertain.
12.117	H	CADENA-A	4772	News + Series
12.159	H	Nick Jr.	11784	High Quality Home
12.159	H	The Film Zone	11784	High Quality Home
12.159	H	TV Nacional	11784	High Quality Home
12.159	H	TVE	11784	High Quality Home
12.159	H	VTV	11784	Low Level
12.159	H	Canal 20	11784	News + Series
12.159	H	RUT	11784	News + Series
12.159	H	SAETA	11784	News + Series
12.168	H	TV PAMPA	3503	Quality Entertain.
● 12.173	H	PAMPA S.MARIA	3503	Quality Entertain.

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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2

Cost Conscious Entertainment ..... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Europe, South Africa

TELSTAR 12

345.2 East (14.8 West)

TES012ES



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.062	H	E! EME	19280	Quality Entertain.
11.062	H	E! EMEA	19280	Quality Entertain.
11.062	H	The Style Network	19280	Quality Entertain.
11.062	H	CNBC	19280	Advertisement
● 11.124	H	Club Emea	18386	Quality Entertain.
11.124	H	Extreme Sports	18386	Quality Entertain.
11.124	H	JimJam ME	18386	Quality Entertain.
11.124	H	NatGeo Poland	18386	News + Series
● 11.124	H	Reality EMEA 1	18386	Quality Entertain.
11.150	H	Club CE	18386	Quality Entertain.
● 11.150	H	Club HUN	18386	News + Series
11.150	H	Extreme France	18386	Quality Entertain.
11.150	H	NatGeo Romenia	18386	Quality Entertain.
11.150	H	Playboy TV NL	18386	News + Series
● 11.150	H	Reality EMEA 2	18386	News + Series
11.565	H	EuropeSoAfrica	5625	News + Series
12.608	H	ETV	19279	News + Series
12.608	H	Phoenix InfoNews	19279	News + Series
12.608	H	AGHAPY TV	19279	News + Series
12.608	H	BBC PERSIAN	19279	Quality Entertain.
12.608	H	Hwazan	19279	News + Series
12.608	H	MAC TV	19279	News + Series
12.608	H	TZUCHI	19279	News + Series
12.608	H	VOA Persian	19279	News + Series
12.645	H	EARTH TV	3255	Quality Entertain.
● 12.657	H	TELEMEDIA UK 1	3255	Quality Entertain.
● 12.662	H	Default Service	2893	News + Series

South America

TELSTAR 12

345.3 East (14.7 West)

TES012KA

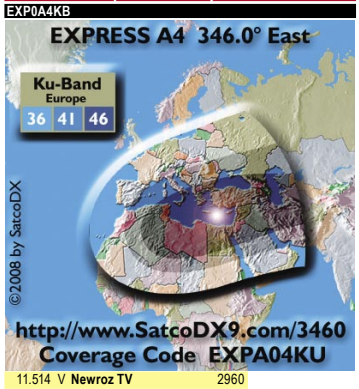


Freq	Pol	Channel Name	Symbol Rate	Programming Type
● 11.804	V	AL- ALAM	7595	News + Series
11.804	V	IRINN	7595	News + Series
● 11.804	V	JAM-E-JAME2	7595	News + Series
● 11.918	V	AL- ALAM	45000	News + Series
● 11.918	V	IRINN	45000	News + Series
● 11.918	V	JAM-E-JAME2	45000	News + Series
● 11.963	H	BULGARIAN NATIONA	14714	Quality Entertain.
● 11.963	H	SP TV	14714	Quality Entertain.
● 11.963	H	TPAI	14714	News + Series
● 11.963	H	TRACE TV	14714	News + Series
● 12.081	H	Latin America	3935	Quality Entertain.
● 12.160	H	Asuntos Publicos	17496	High Quality Home
● 12.160	H	History	17496	High Quality Home
● 12.160	H	Nick Jr.	17496	High Quality Home
● 12.160	H	TC Ciudad	17496	High Quality Home
● 12.160	H	The Film Zone	17496	High Quality Home
● 12.160	H	TV Nacional	17496	High Quality Home
● 12.160	H	TVE	17496	High Quality Home
● 12.160	H	Canal Adulto	17496	High Quality Home
● 12.160	H	Canal 20	17496	News + Series
● 12.160	H	VTV	17496	News + Series
● 12.160	H	RUT	17496	News + Series
● 12.160	H	SAETA	17496	News + Series
● 12.173	H	PAMPA S.MARIA	3503	Quality Entertain.

EXPRESS A4

346.0 East (14.0 West)

EXP0A4KB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
11.514	V	Newroz TV	2960	

Europe

ATLANTIC BIRD 1

347.5 East (12.5 West)

EUTAB1EU



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.100	H	LIFE CHANNEL	2000	News + Series
11.132	H	BH-TV1	3254	Quality Entertain.
11.337	H	CCTV 4	1923	News + Series
11.340	H	Cancao Nova Internac	2279	News + Series
11.355	H	Dorcel TV	11781	News + Series
● 11.355	H	EQUIDIA	11781	Quality Entertain.
● 11.355	H	ESP2 Bulgarian	11781	Quality Entertain.
● 11.355	H	ESP2 Czech	11781	Quality Entertain.
● 11.355	H	ESP2 Danish	11781	Quality Entertain.
● 11.355	H	ESP2 Intl	11781	Quality Entertain.
● 11.355	H	ESP2 Polish	11781	Quality Entertain.
● 11.355	H	ESP2 Serbian	11781	Quality Entertain.
11.355	H	BETHEL TV	11781	Low Level
11.355	H	RAJ CO	11781	News + Series
12.515	H	dahlia 1 calcio	17452	News + Series
12.515	H	dahlia 2 adult	17452	Advertisement
12.515	H	dahlia 2 calcio	17452	Low Level
● 12.515	H	dahlia 2 sport	17452	Low Level
12.515	H	dahlia 3 calcio	17452	Low Level
12.515	H	dahlia 4 calcio	17452	Low Level
● 12.515	H	dahlia 5 calcio	17452	Advertisement
● 12.515	H	dahlia adult	17452	Advertisement
12.515	H	dahlia eros	17452	News + Series
12.515	H	dahlia explorer	17452	News + Series
12.515	H	dahlia sport	17452	News + Series
12.515	H	dahlia xtreme	17452	News + Series
12.515	H	dahlia promo	17452	Low Level
● 12.515	H	K2	17452	News + Series
12.515	H	LA7	17452	News + Series
● 12.546	H	dahlia promo	17454	News + Series
● 12.546	H	LA7	17454	News + Series
12.546	H	Mediashopping	17454	Advertisement
● 12.546	H	MTV	17454	News + Series
12.546	H	QOOB	17454	News + Series
12.546	H	Sportitalia	17454	Quality Entertain.
12.546	H	Sportitalia24	17454	News + Series
12.546	H	TED	17454	Quality Entertain.

Europe

ATLANTIC BIRD 2

352.0 East (8.0 West)

EUTAB2KE



Freq	Pol	Channel Name	Symbol Rate	Programming Type
10.972	V	Animax	27500	Home Cinema
10.972	V	Body in Balance	27500	Quality Entertain.
10.972	V	Channel One Russia	27500	Quality Entertain.
10.972	V	Euro Star	27500	News + Series
10.972	V	Euronews English	27500	Quality Entertain.
10.972	V	Euronews French	27500	Quality Entertain.
10.972	V	Euronews Germany	27500	Quality Entertain.
10.972	V	Euronews Italy	27500	Quality Entertain.
10.972	V	Euronews Portugese	27500	Quality Entertain.
10.972	V	Euronews Russia	27500	Quality Entertain.
10.972	V	Euronews Spain	27500	Quality Entertain.
10.972	V	Kinowelt	27500	Quality Entertain.
10.972	V	LigTV	27500	Quality Entertain.
10.972	V	PinkPlus	27500	Quality Entertain.
10.972	V	RTR Planeta	27500	News + Series
10.972	V	France 24	27500	Quality Entertain.
11.010	H	AMERICA PLUS +2	27500	News + Series
11.010	H	ANIMAL PLANET	27500	News + Series
11.010	H	BBC PRIME	27500	News + Series
11.010	H	BOOMERANG	27500	News + Series
11.010	H	CARTOON NETWORK	27500	News + Series
11.010	H	CINEMA CITY +1	27500	News + Series
11.010	H	DISCOVERY CHANNEL	27500	News + Series
11.010	H	DISCOVERY T&L	27500	News + Series
11.010	H	DISNEY CHANNEL	27500	Low Level
● 11.010	H	FOX NEWS	27500	News + Series
11.010	H	FOX SPORTS	27500	Quality Entertain.
11.010	H	ORBIT NEWS	27500	News + Series
11.010	H	SUPER COMEDY +2	27500	Quality Entertain.
11.010	H	CNNI	27500	Quality Entertain.
11.011	V	ATV Avrupa	27500	Quality Entertain.
11.011	V	EuroD	27500	News + Series
11.011	V	FOX Turk	27500	News + Series
11.011	V	Kanal7 Int	27500	News + Series
11.011	V	Rai Due	27500	News + Series
11.011	V	Rai Tre	27500	Advertisement
11.011	V	Rai Uno	27500	News + Series
11.011	V	Show Turk	27500	News + Series
11.011	V	TRT Int	27500	News + Series
11.011	V	TurkMax	27500	Quality Entertain.
11.011	V	TV Polonia	27500	Quality Entertain.
11.387	H	13TH Street	24740	News + Series
11.387	H	AXN	24740	News + Series
11.387	H	Boomerang	24740	News + Series
11.387	H	Cartoon Network	24740	News + Series
11.387	H	ESPN America	24740	Quality Entertain.
11.387	H	History	24740	Quality Entertain.
11.387	H	Motors TV Deutschlan	24740	News + Series
11.387	H	National Geographic	24740	News + Series
11.387	H	Sci Fi Deutschland	24740	News + Series
11.387	H	Silverline	24740	Quality Entertain.
11.387	H	The Biography Channe	24740	Quality Entertain.
11.387	H	TNT Film	24740	Quality Entertain.
11.427	H	BBC Prime	27500	News + Series
11.427	H	E! Entertainment (D/	27500	News + Series
11.427	H	E! Entertainment (PL	27500	Low Level
11.427	H	E! Entertainment (TR	27500	News + Series
11.427	H	Romance TV	27500	Quality Entertain.
11.427	H	RTVi Detskii Mir -	27500	Quality Entertain.
11.427	H	RTVi Europe	27500	News + Series
11.427	H	RTVi Nashe Kino	27500	Low Level
11.427	H	sportdigital.tv	27500	Quality Entertain.
11.427	H	yourfamily	27500	News + Series
12.649	V	Adult Channel	27500	News + Series
12.649	V	auto motor und sport	27500	Quality Entertain.
12.649	V	Country TV	27500	Quality Entertain.
12.649	V	ESPN Classic	27500	Quality Entertain.
12.649	V	Hustler TV	27500	News + Series
12.649	V	Lust Pur	27500	Advertisement
12.649	V	rush test	27500	Quality Entertain.
12.649	V	Travel Channel	27500	News + Series
12.649	V	TVN I Europe	27500	Quality Entertain.
12.649	V	Yacht & Sail	27500	Quality Entertain.
12.649	V	KabelKiosk - Infokan	27500	Quality Entertain.

ATLANTIC BIRD 2

352.0 East (8.0 West)

EUTAB2AB



Freq	Pol	Channel Name	Symbol Rate	Programming Type
10.976	V	Dubai Business Chann	30000	
10.976	V	Dubai Sports Channel	30000	
10.976	V	EDTV Channel Europ	30000	

Middle East

4A

353.0 East (7.0 West)

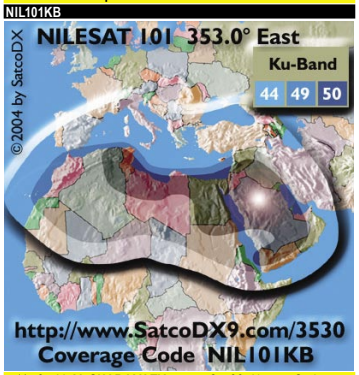
EUTAB4MK



Freq	Pol	Channel Name	Symbol Rate	Programming Type
11.747	V	A.B.C.AQTSADIA TV	27500	News + Series
11.747	V	Abu Dhabi TV	27500	Quality Entertain.
11.747	V	Al Forat	27500	News + Series
11.747	V	AL Wasta	27500	News + Series
11.747	V	AL-Fajr	27500	News + Series
11.747	V	Al.Manara.(sci.ch)	27500	News + Series
11.747	V	Beladi	27500	News + Series
11.747	V	EDUC 1	27500	News + Series
11.747	V	EDUC 2	27500	News + Series
11.747	V	EDUC 3	27500	News + Series
11.747	V	EDUC 4	27500	News + Series
11.747	V	Huda TV	27500	News + Series
11.747	V	Salah EL-Din	27500	News + Series
11.747	V	Sehaty	27500	News + Series
11.747	V	Tamima	27500	News + Series
11.747	V	TEST	27500	Advertisement
11.747	V	UNIV 1	27500	News + Series
11.900	V	Al Saeeda	27500	News + Series
11.900	V	Asayel Al Khaleej	27500	Low Level
11.900	V	ASNshop	27500	News + Series
11.900	V	Dream	27500	Quality Entertain.
11.900	V	DW-TV ARABIA	27500	News + Series
11.900	V	Kuwait Ch.2	27500	News + Series
11.900	V	Majd	27500	Quality Entertain.
11.900	V	Mazzika	27500	News + Series
11.900	V	Mazzika Zoom	27500	News + Series
11.900	V	Melody Hits	27500	Quality Entertain.
11.900	V	Oyoun TV	27500	Low Level
11.900	V	Sahm TV	27500	News + Series
11.900	V	TV5	27500	News + Series
11.900	V	Xpress Shop	27500	News + Series
11.976	V	Bloomberg	27500	Quality Entertain.
11.976	V	Concierge TV	27500	News + Series
11.976	V	ShowCinema 1	27500	News + Series
11.976	V	ShowCinema 2	27500	News + Series
11.976	V	ShowCinema 3	27500	News + Series
11.976	V	SOD	27500	News + Series
11.976	V	Style Network	27500	Low Level
11.976	V	T2010	27500	News + Series
11.976	V	Al Dafrah	27500	News + Series
11.976	V	Decision Maker	27500	Low Level
11.976	V	Future News	27500	Low Level
11.976	V	MTV Arabia	27500	News + Series
11.976	V	Sharjah TV3	27500	Quality Entertain.
11.976	V	Wanasah	27500	News + Series
11.996	H	ShowComedy	27500	News + Series
11.996	H	ShowMovies 1	27500	News + Series
11.996	H	ShowMovies 2	27500	Low Level
11.996	H	ShowMovies Act	27500	News + Series
11.996	H	ShowMovies Com	27500	Quality Entertain.
11.996	H	ShowMovies Kids	27500	News + Series
11.996	H	ShowSeries	27500	Low Level
11.996	H	ShowSeries Extra	27500	News + Series
11.996	H	Showsports 1	27500	News + Series
11.996	H	Showsports 2	27500	Quality Entertain.
11.996	H	Showsports 3	27500	Quality Entertain.
11.996	H	Showsports 4	27500	News + Series
12.015	V	2M Maroc	27500	News + Series
12.015	V	A1 Shop	27500	News + Series
12.015	V	Al Jazeera Internati	27500	Quality Entertain.
12.015	V	Al Mergab	27500	News + Series
12.015	V	Alafasy	27500	News + Series
12.015	V	Alhayat 2	27500	News + Series
12.015	V	CCTV9	27500	News + Series
12.015	V	El-Emarah	27500	News + Series
12.015	V	Medi1 Sat	27500	News + Series
12.015	V	Melody Arabia	27500	Quality Entertain.
12.015	V	Smile TV	27500	News + Series
12.015	V	Space power	27500	Quality Entertain.
12.015	V	Strike	27500	News + Series
12.015	V	Tele Tchad	27500	News + Series
12.053	V	AD Sport TV	27500	Quality Entertain.
12.053	V	AL Anwar	27500	News + Series
12.053	V	Al Bait	27500	Low Level
12.053	V	AL Zahabiya	27500	News + Series
12.053	V	Al-Alam	27500	News + Series
12.053	V	Al-Majd3	27500	News + Series
12.053	V	ALKASS TV	27500	Quality Entertain.
12.053	V	Bedaya	27500	News + Series
12.053	V	GHINWA	27500	News + Series
12.053	V	Hannibal	27500	News + Series
12.053	V	Hi TV	27500	News + Series
12.053	V	Mara7 TV	27500	Low Level
12.053	V	Mersal TV	27500	Low Level
12.053	V	OTV	27500	News + Series
12.053	V	Rotana Zaman	27500	News + Series
12.053	V	Selevision Data Comm	27500	Advertisement
12.073	H	BBC Lifestyle	27500	News + Series
12.073	H	Boomerang	27500	News + Series
12.073	H	Cartoon Network	27500	Low Level

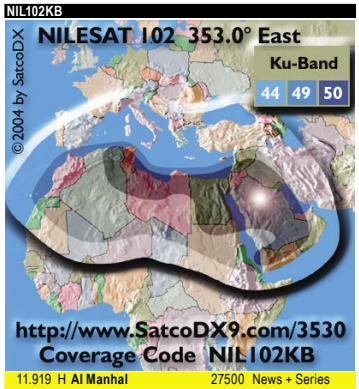
GHz	Pol	Channel Name	ksym/sec	SatcoDX Definition
12.073	H	CNBC	27500	Quality Entertain.
12.073	H	Discovery World	27500	News + Series
12.073	H	Hallmark	27500	Low Level
12.073	H	MTV Music	27500	News + Series
12.073	H	Show Kids	27500	News + Series
12.073	H	T433	27500	Quality Entertain.
12.073	H	TCM	27500	News + Series
12.073	H	Travel Channel	27500	News + Series
12.073	H	Vh1	27500	Quality Entertain.
12.073	H	CNN	27500	News + Series
12.130	V	AL JADEED	27500	News + Series
12.130	V	FOX Series	27500	Quality Entertain.
12.130	V	Heya	27500	News + Series
12.130	V	LBC SAT	27500	News + Series
12.130	V	MANAR	27500	News + Series
12.130	V	Mega TV	27500	News + Series
12.130	V	NBN	27500	News + Series
12.130	V	Rotana	27500	Quality Entertain.
12.130	V	Rotana Clip	27500	News + Series
12.130	V	Rotana Khalijiah	27500	Quality Entertain.
12.130	V	Sumaria	27500	News + Series
12.149	H	Al-EKhbaria	27500	Quality Entertain.
12.149	H	Saudi Sport	27500	Quality Entertain.
12.149	H	Saudi TV	27500	News + Series
12.149	H	Saudi-1	27500	Quality Entertain.
12.149	H	Saudi-2	27500	Quality Entertain.
12.226	H	Abu Dhabi Sport 2	27500	News + Series
12.226	H	AGHANI TV	27500	Quality Entertain.
12.226	H	Ajman TV	27500	News + Series
12.226	H	Awtar TV	27500	News + Series
12.226	H	BOROUZ TV	27500	Quality Entertain.
12.226	H	FAWASEL TV	27500	News + Series
12.226	H	GEAR ONE	27500	News + Series
12.226	H	Infinity TV	27500	News + Series
12.226	H	NOJOOM 2	27500	News + Series
12.226	H	Nojoom 3	27500	News + Series
12.226	H	NOJOOM 4	27500	Quality Entertain.
12.226	H	NOOR DUBAI	27500	News + Series
12.226	H	Sharjah TV 2	27500	Advertisement
12.284	V	JSC Sports +1	27500	Home Cinema
12.284	V	JSC Sports +2	27500	Home Cinema
12.284	V	JSC Sports +3	27500	Quality Entertain.
12.284	V	JSC Sports +4	27500	Quality Entertain.
12.284	V	JSC Sports 1	27500	Home Cinema
12.284	V	JSC Sports 2	27500	Home Cinema

NIL101KB



GHz	Pol	Channel Name	ksym/sec	SatcoDX Definition
11.785	V	AL SHARJAH TV	27500	News + Series
11.785	V	AL SHARQIA	27500	Quality Entertain.
11.785	V	CNBC ARABIA	27500	Quality Entertain.
11.785	V	Dubai One	27500	Quality Entertain.
11.785	V	Dubai Racing Channel	27500	Quality Entertain.
11.785	V	Dubai Sports	27500	Quality Entertain.
11.785	V	Dubai TV	27500	Quality Entertain.
11.785	V	MUSIC PLUS	27500	News + Series
11.785	V	NOJOOM 1	27500	Quality Entertain.
11.785	V	Sama Dubai	27500	News + Series
11.785	V	SPACETOON ARABIC	27500	Quality Entertain.
11.823	V	AL MAGHRIBIA	27500	News + Series
11.823	V	Al-Resala	27500	News + Series
11.823	V	Alhurra	27500	News + Series
11.823	V	AlThuraya	27500	News + Series
11.823	V	Bahrain	27500	News + Series
11.823	V	Kuwait	27500	News + Series
11.823	V	Kuwait Sport & +	27500	Quality Entertain.
11.823	V	Mehwer	27500	Quality Entertain.
11.823	V	Oman	27500	News + Series
11.823	V	PSC	27500	News + Series
11.823	V	Sudan	27500	Quality Entertain.
11.823	V	Syria	27500	News + Series
11.823	V	Test	27500	Advertisement
11.862	V	BBC Prime	27500	News + Series
11.862	V	Disney Channel	27500	News + Series
11.862	V	E! Entertainment	27500	News + Series
11.862	V	JimJam/Extreme	27500	News + Series
11.862	V	MBC+ Drama	27500	Quality Entertain.
11.862	V	Nat Geo Wild	27500	News + Series
11.862	V	ShowComedy Xtra	27500	News + Series
11.862	V	ShowShasha	27500	News + Series
11.862	V	Al Waha	27500	News + Series
11.862	V	Chatco	27500	News + Series
11.862	V	City 7 TV	27500	News + Series
11.862	V	TXT	27500	Quality Entertain.

NIL102KB



GHz	Pol	Channel Name	ksym/sec	SatcoDX Definition
11.919	H	Al Manhal	27500	News + Series
11.919	H	Al NAS TV	27500	News + Series
11.919	H	Al Saha TV	27500	Quality Entertain.
11.919	H	Al-Kawthar	27500	Quality Entertain.
11.919	H	ALBAGHDADIA	27500	News + Series
11.919	H	ALRAFIDEN	27500	Quality Entertain.
11.919	H	BAGHDAD TV	27500	News + Series
11.919	H	Flash TV	27500	News + Series
11.919	H	Iraqia TV	27500	News + Series
11.919	H	Poet	27500	News + Series
11.919	H	STV	27500	Low Level
11.919	H	UNIV2	27500	Low Level
11.919	H	Waseet EL-Khair	27500	Low Level
11.919	H	Yemen	27500	News + Series
11.938	V	AL AQARIYA	27500	News + Series
11.938	V	AL EQTISADIA TV	27500	News + Series
11.938	V	Alarabiya	27500	News + Series
11.938	V	CITRUSS TV	27500	News + Series
11.938	V	HAWAS TV	27500	News + Series
11.938	V	MBC Action	27500	Quality Entertain.
11.938	V	MBC MAX	27500	Quality Entertain.
11.938	V	MBC1	27500	Quality Entertain.
11.938	V	MBC2	27500	Quality Entertain.
11.938	V	MBC3	27500	News + Series
11.938	V	MBC4	27500	Quality Entertain.
11.938	V	ZEE AFLAM	27500	News + Series
12.206	V	Al Danah	27500	News + Series
12.206	V	AL-Rayah	27500	News + Series
12.206	V	Al-Zaeem	27500	News + Series
12.206	V	ALhayat	27500	Quality Entertain.
12.206	V	ALSahraa	27500	News + Series
12.206	V	Arriadia	27500	Quality Entertain.
12.206	V	Assadissa	27500	News + Series
12.206	V	BBC Arabic	27500	Quality Entertain.
12.206	V	France 24	27500	News + Series
12.206	V	Nessma	27500	News + Series
12.206	V	Qatar1	27500	News + Series
12.206	V	TV A3	27500	News + Series
12.302	H	Kairali	27500	News + Series
12.302	H	NEOSP	27500	News + Series
12.302	H	Prime Sport Arabia	27500	News + Series
12.302	H	Shara1	27500	News + Series
12.302	H	TBO	27500	News + Series
12.302	H	A1TV	27500	News + Series
12.302	H	Al Diyar	27500	News + Series
12.302	H	ALHAKEKA	27500	News + Series
12.302	H	Dawn News	27500	News + Series
12.302	H	FM	27500	News + Series
12.302	H	FutureTV	27500	News + Series
12.302	H	ISHTAR TV	27500	News + Series
12.302	H	LBC EU	27500	News + Series
12.302	H	Nourmina	27500	News + Series
12.302	H	Seven Stars	27500	News + Series

Europe
ATLANTIC BIRD 3
355.0 East (5.0 West)

EUTAB3SB



GHz	Pol	Channel Name	ksym/sec	SatcoDX Definition
10.974	V	OiV feed 3 (CRO M	9000	News + Series
10.974	V	OiV feed 3 (KAPIT	9000	News + Series
10.974	V	OiV feed 3 (NTH)	9000	Quality Entertain.
10.974	V	OiV feed 3 (TV SLJ	9000	News + Series
11.054	V	EQUIDIA	29950	Quality Entertain.
11.096	V	ARTE HD	29950	High Quality Home
11.096	V	FRANCE 2 HD	29950	High Quality Home
11.096	V	M6 HD	29950	High Quality Home
11.096	V	TF1 HD	29950	High Quality Home
11.096	V	FRANCE O	29950	News + Series
11.096	V	KTO	29950	News + Series
11.096	V	TV8 MONT BLANC	29950	News + Series
11.468	H	BLUEMOON TV	10840	News + Series
11.468	H	KOMALA TV	10840	News + Series
11.468	H	MESOPOTAMIA TV	10840	News + Series
11.468	H	NEPALI	10840	News + Series
11.468	H	Newroz	10840	News + Series
11.468	H	ROJ TV	10840	Quality Entertain.
11.471	V	Canal+	29950	High Quality Home
11.471	V	I tele	29950	High Quality Home
11.471	V	M6	29950	High Quality Home
11.471	V	Orange ciné choc	29950	High Quality Home
11.471	V	Orange ciné géants	29950	High Quality Home
11.471	V	Orange ciné happy	29950	High Quality Home
11.471	V	Orange ciné max	29950	High Quality Home
11.471	V	Orange ciné max HD	29950	High Quality Home
11.471	V	Orange ciné novo	29950	High Quality Home
11.471	V	Orange Sport	29950	High Quality Home
11.471	V	W9	29950	High Quality Home
11.471	V	Orange Sport HD	29950	High Quality Home
11.512	V	AB 1	29950	News + Series
11.512	V	AB MOTEURS	29950	News + Series
11.512	V	ACTIONS	29950	News + Series
11.512	V	ANIMAUX	29950	News + Series
11.512	V	CHASSE ET PECHE	29950	News + Series
11.512	V	CINE FIRST	29950	News + Series
11.512	V	CINE FX	29950	News + Series
11.512	V	CINE POLAR	29950	News + Series
11.512	V	DORCEL TV	29950	News + Series
11.512	V	ENCYCLO	29950	News + Series
11.512	V	ESCALES	29950	Low Level
11.512	V	MANGAS	29950	News + Series
11.512	V	ORANGE SPORT	29950	News + Series
11.512	V	RTL9	29950	Low Level
11.512	V	TOUTE L'HISTOIRE	29950	News + Series
11.512	V	TV5 Monde FBS	29950	Quality Entertain.
11.512	V	XXL	29950	News + Series
11.554	V	BFM TV	29950	News + Series
11.554	V	CANAL +	29950	Low Level
11.554	V	Direct 8	29950	Quality Entertain.
11.554	V	France 4	29950	Quality Entertain.
11.554	V	Gulli	29950	Quality Entertain.
11.554	V	iTELE	29950	Quality Entertain.
11.554	V	M6	29950	Quality Entertain.
11.554	V	NRJ12	29950	Home Cinema
11.554	V	NT1	29950	News + Series
11.554	V	TF1	29950	Quality Entertain.
11.554	V	Virgin 17	29950	Quality Entertain.
11.554	V	w9	29950	Quality Entertain.
11.554	V	TMC	29950	News + Series
11.590	V	ARTE	20000	News + Series
11.590	V	France 2	20000	Home Cinema
11.590	V	France 3	20000	Quality Entertain.
11.590	V	France 5	20000	Quality Entertain.
11.590	V	LCP	20000	News + Series
12.543	H	Fox Life	27500	News + Series
12.543	H	MCM BELGIQUE	27500	Quality Entertain.
12.543	H	GCPE1	27500	Quality Entertain.
12.543	H	GCPE2	27500	Quality Entertain.
12.543	H	Toyor Al Janah	27500	News + Series
12.615	H	FREE-X TV	9180	News + Series
12.615	H	FREE-X TV2	9180	News + Series
12.615	H	FRENCHLOVER TV	9180	Low Level
12.615	H	Redlight Premium	9180	News + Series
12.615	H	X-DREAM TV	9180	Low Level
12.615	H	KISS	9180	Low Level
12.615	H	Sex on TV Diamond	9180	Low Level
12.615	H	TAPESH TV2	9180	News + Series
12.674	H	All Music	16935	Home Cinema
12.674	H	FR 24	16935	Quality Entertain.
12.674	H	Repubblica TV	16935	Quality Entertain.
12.674	H	Second TV	16935	Quality Entertain.
12.711	H	ANC	30000	News + Series
12.711	H	CINEMA1	30000	News + Series
12.711	H	KAPAMILYA CHANNEL	30000	News + Series
12.711	H	PPV	30000	News + Series
12.711	H	TFC-EU	30000	News + Series
12.711	H	TFC-ME	30000	News + Series

EUTAB3WB



GHz	Pol	Channel Name	ksym/sec	SatcoDX Definition
12.615	H	SEX ON TV CLASSIC	8789	Low Level
12.615	H	SEX ON TV CRYSTAL	8789	News + Series
12.615	H	SEX ON TV GOLD	8789	News + Series
12.615	H	SEX ON TV SILVER	8789	News + Series
12.615	H	SEX ON TV DIAMOND	8789	Advertisement
12.615	H	TAPESH TV2	8789	News + Series

Africa, Europe, Middle America
C-Band: ATLANTIC BIRD 3
355.1 East (4.9 West)

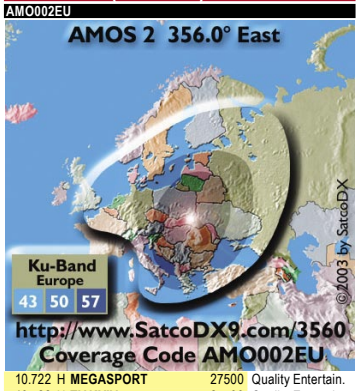
EUTAB3TA



GHz	Pol	Channel Name	ksym/sec	SatcoDX Definition
3.646	R	Tele Sahel	2170	News + Series
3.712	L	CRTV	2785	Quality Entertain.
4.158	R	AL -MALOUMA	20330	Low Level
4.158	R	AL BADEEL	20330	News + Series
4.158	R	AL HEDAYA	20330	News + Series
4.158	R	AL-MONOWA	20330	News + Series
4.158	R	ALNADI	20330	News + Series
4.158	R	Jamahiriya Sat Chann	20330	Quality Entertain.
4.158	R	Libya Sport (Riadi	20330	News + Series
4.158	R	LY LJB	20330	Quality Entertain.

Europe
AMOS 2,3
356.0 East (4.0 West)

AMO002EU



GHz	Pol	Channel Name	ksym/sec	SatcoDX Definition
10.722	H	MEGASPORT	27500	Quality Entertain.
10.722	H	TV KYIV	27500	Quality Entertain.
10.722	H	1PLUS1	27500	Home Cinema
10.722	H	1PLUS1 CINEMA	27500	Quality Entertain.
10.722	H	K1	27500	Quality Entertain.
10.722	H	K2	27500	Quality Entertain.
10.722	H	OTV	27500	Quality Entertain.
10.722	H	UBR	27500	Quality Entertain.
10.759	H	ICTV	30000	Quality Entertain.
10.759	H	CiTi	30000	Quality Entertain.
10.759	H	KIEV STB	30000	Home Cinema
10.759	H	M1	30000	Quality Entertain.
10.759	H	M2	30000	Quality Entertain.
10.759	H	MTV UKRAINE	30000	Quality Entertain.
10.759	H	NEWS 24	30000	Quality Entertain.
10.759	H	QTV	30000	Quality Entertain.
10.759	H	TONIS	30000	Home Cinema
10.806	H	Cinemax 2 Adria Inte	27500	News + Series
10.806	H	Cinemax 2 Bulgaria	27500	News + Series
10.806	H	Cinemax 2 Croatia	27500	News + Series
10.806	H	Cinemax 2 Czech	27500	News + Series
10.806	H	Cinemax 2 Hungary	27500	Quality Entertain.
10.806	H	Cinemax 2 Hungary/Cz	27500	News + Series
10.806	H	Cinemax 2 Internatio	27500	News + Series
10.806	H	Cinemax 2 Poland	27500	News + Series
10.806	H	Cinemax 2 Romania	27500	News + Series
10.806	H	Cinemax 2 Serbia	27500	News + Series
10.806	H	Cinemax 2 Slovenia	27500	News + Series
10.806	H	Cinemax Adria Intern	27500	News + Series
10.806	H	Cinemax Adria Test	27500	News + Series
10.806	H	Cinemax Bulgaria	27500	News + Series
10.806	H	Cinemax Croatia	27500	News + Series
10.806	H	Cinemax Czech	27500	News + Series
10.806	H	Cinemax Hungary	27500	News + Series
10.806	H	Cinemax Internationa	27500	News + Series
10.806	H	Cinemax Poland	27500	News + Series
10.806	H	Cinemax Romania	27500	News + Series
10.806	H	Cinemax Serbia	27500	News + Series
10.806	H	Cinemax Slovenia	27500	News + Series
10.806	H	Comedy Adria Bulgari	27500	News + Series
10.806	H	Comedy Adria Croatia	27500	Quality Entertain.
10.806	H	Comedy Adria Interna	27500	News + Series
10.806	H	Comedy Adria Serbia	27500	News + Series
10.806	H	Comedy Adria Sloveni	27500	News + Series
10.806	H	HBO Adria Bulgaria	27500	Quality Entertain.
10.806	H	HBO Adria Croatia	27500	Quality Entertain.
10.806	H	HBO Adria for DTH	27500	Quality Entertain.
10.806	H	HBO Adria Serbia	27500	Quality Entertain.
10.806	H	HBO Adria Slovenia	27500	Quality Entertain.
10.806	H	HBO Adria Test	27500	Quality Entertain.
10.806	H	HBO Comedy Czech	27500	News + Series
10.806	H	HBO Comedy Hungary	27500	News + Series
10.806	H	HBO Comedy Hungary	27500	News + Series
10.806	H	HBO Comedy Internati	27500	News + Series

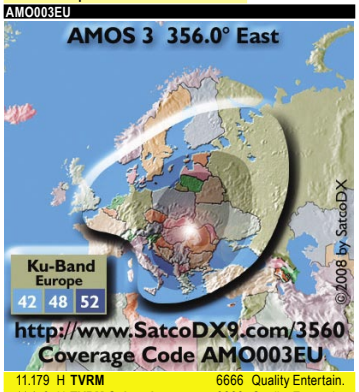
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Programming Type Definition by SatcoDX
According to Transmission Mode and Average Video Bitrate

High Quality Home Cinema ..... *Video:* MPEG-4 *Audio:* AC3
High Quality Home Entertainment *Video:* MPEG-4 *Audio:* Layer 2
Home Cinema ..... *Video:* MPEG-2 + TS Bitrate >5 Mbps *Audio:* AC3, or Layer 2
Quality Entertainment ..... *Video:* MPEG-2 + TS Bitrate between 3 and 5 Mbps *Audio:* AC3, or Layer 2
Cost Conscious Entertainment ..... *Video:* MPEG-4 Audio: Layer 1
News + Series ..... *Video:* MPEG-2 + TS Bitrate between 1.5 and 3 Mbps *Audio:* Layer 2
Low Level ..... Video: MPEG-2 + TS Bitrate between 0.5 and 1.5 Mbps *Audio:* Layer 2
Advertisement ..... *Video:* MPEG-2 + TS Bitrate <0.5 Mbps *Audio:* Layer 2

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
10.806	H	HBO Comedy Romania	27500	News + Series
10.806	H	HBO Czech	27500	Home Cinema
10.806	H	HBO Czech (AC3)	27500	Quality Entertain.
10.806	H	HBO Czech Original	27500	Quality Entertain.
10.806	H	HBO Hungary	27500	Quality Entertain.
10.806	H	HBO Hungary (AC3)	27500	Quality Entertain.
10.806	H	HBO Hungary Origin	27500	Quality Entertain.
10.806	H	HBO Romania	27500	Quality Entertain.
10.806	H	HBO Romania (AC3)	27500	Quality Entertain.
10.806	H	HBO2 Czech	27500	News + Series
10.806	H	HBO2 for DTH	27500	News + Series
10.806	H	HBO2 Hungary	27500	News + Series
10.806	H	HBO2 OrigHu	27500	Quality Entertain.
10.806	H	Spektrum	27500	News + Series

AMO003EU



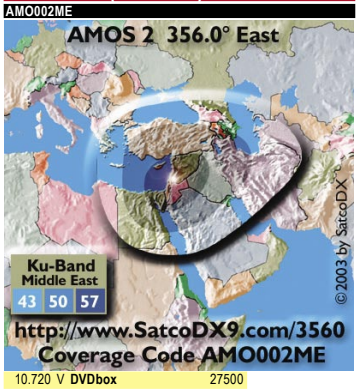
11.179	H	TVRM	6666	Quality Entertain.
● 11.179	H	TVRM Cultural	6666	Quality Entertain.

Middle East

AMOS 2,3

356.1 East (3.9 West)

AMO002ME



10.720	V	DVDbox	27500	

North Europe

INTELSAT 10-02, THOR 3,5

359.0 East (1.0 West)

INT10023



12.527	H	Antena 3	27500	News + Series
12.527	H	ATV	27500	Low Level
12.527	H	Cartoon Network	27500	News + Series
12.527	H	Duna TV	27500	News + Series
12.527	H	Euforia TV	27500	News + Series
12.527	H	Favorit TV	27500	Low Level
12.527	H	Hallmark CE	27500	News + Series
● 12.527	H	Paprika	27500	Quality Entertain.
12.527	H	Romantica Ro	27500	News + Series
12.527	H	Sport Klub HU	27500	Quality Entertain.
12.527	H	Sport ro	27500	News + Series
12.527	H	TVR2	27500	Low Level
12.527	H	VH 1	27500	News + Series
● 12.531	V	Action Star	23340	Quality Entertain.
● 12.531	V	AXA TV	23340	Low Level
● 12.531	V	AXN CE	23340	News + Series
● 12.531	V	Cine Star	23340	Quality Entertain.
● 12.531	V	Comedy Star	23340	Quality Entertain.
● 12.531	V	DOMA	23340	Quality Entertain.
● 12.531	V	Investigation Discov	23340	News + Series
● 12.531	V	Movies 24 Ro	23340	News + Series
● 12.531	V	N 24	23340	Low Level
● 12.531	V	Service 13-10	23340	Low Level
● 12.531	V	Service 13-11	23340	Low Level
● 12.531	V	Service 13-12	23340	Low Level
● 12.531	V	Service 13-13	23340	Low Level
12.563	H	4 Story Tv	27500	News + Series
12.563	V	B92	27500	News + Series
● 12.563	H	Disney Channel CE	27500	News + Series
12.563	V	DoQ	27500	Low Level
12.563	V	Fashion	27500	News + Series
12.563	H	HBO 2	27500	Low Level
12.563	V	HBO Adria	27500	News + Series
12.563	V	HBO Comedy Adria	27500	News + Series
12.563	H	HBO Hungaria	27500	News + Series
12.563	V	Kapital Network	27500	News + Series
● 12.563	V	Kosava	27500	News + Series
12.563	H	M1	27500	Low Level
12.563	H	M2	27500	News + Series
12.563	H	Minimax	27500	News + Series
12.563	V	MTV Europe	27500	Quality Entertain.
12.563	H	MTV Hungary	27500	Quality Entertain.
12.563	V	Net TV	27500	Low Level
12.563	H	Romantica Hu	27500	News + Series
12.563	H	Spektrum	27500	Quality Entertain.
12.563	H	Sport 1	27500	Low Level
12.563	H	Sport 2	27500	Quality Entertain.
12.563	V	Sport Klub +	27500	Low Level
12.563	V	TVR Cultural	27500	News + Series
12.563	H	TVR Info	27500	News + Series
12.563	V	TVR3	27500	Low Level
12.563	H	Viva Tv	27500	News + Series
● 12.563	V	NotaTV	27500	Home Cinema
12.607	V	Analog Tv	27500	News + Series
12.607	H	Antena 2	27500	Low Level
12.607	V	CMC	27500	News + Series
● 12.607	H	Digi Sport Hu	27500	Low Level
● 12.607	H	Digi Sport RO	27500	News + Series
12.607	H	DigiFilm 1	27500	Quality Entertain.
12.607	H	DigiFilm 2	27500	Quality Entertain.
12.607	H	Discovery RO	27500	Low Level
12.607	V	DM SAT	27500	News + Series
12.607	H	Echo Tv	27500	News + Series
12.607	H	Eurosport2	27500	News + Series
12.607	V	Galaksija	27500	News + Series
12.607	H	Kanal D	27500	Quality Entertain.
12.607	V	MTV Adria	27500	Quality Entertain.
12.607	H	Nat Geo CE	27500	News + Series
12.607	V	NOVA TV	27500	Low Level
12.607	V	OBN	27500	News + Series
12.607	V	Otvorena TV	27500	News + Series
12.607	H	Pro Cinema	27500	News + Series
12.607	V	RTL Televizija	27500	News + Series
12.607	V	RTS 1	27500	News + Series
12.607	V	RTS 2	27500	News + Series
12.607	V	RTV1	27500	News + Series
12.607	H	Taraf TV	27500	News + Series
12.607	H	Travel	27500	News + Series
12.607	V	Z 1	27500	News + Series
12.607	V	A 2	27500	News + Series
12.607	H	DigiTV Info	27500	News + Series
12.643	H	Acasa	27500	News + Series
12.643	V	Animal Planet CE	27500	Low Level
12.643	H	AXN	27500	News + Series
12.643	H	Cool TV	27500	News + Series
12.643	V	Discovery Ch	27500	News + Series
12.643	H	Film +	27500	News + Series
12.643	V	Film + CE	27500	Quality Entertain.
12.643	V	HBO CE	27500	News + Series
12.643	H	Hir TV	27500	News + Series
12.643	V	Joj	27500	Quality Entertain.
12.643	V	Markiza	27500	News + Series
12.643	V	Music Box	27500	Quality Entertain.
12.643	H	National Geo	27500	Quality Entertain.
12.643	V	NOVA Sport	27500	Quality Entertain.
12.643	V	Ocko	27500	News + Series
12.643	H	ProTV	27500	News + Series
12.643	V	Reality CE	27500	News + Series
12.643	H	RTL Klub	27500	Low Level
12.643	V	RTV Severin	27500	News + Series
12.643	V	TA 3	27500	Quality Entertain.
12.643	H	TV 2	27500	News + Series
12.643	H	Viasat 3	27500	Quality Entertain.
12.643	H	Viasat Explorer	27500	Low Level
12.643	H	DDTV	27500	News + Series
12.643	V	Pratech	27500	News + Series
12.643	H	U	27500	News + Series
12.687	H	B1	27500	Low Level
12.687	V	Credo	27500	News + Series
12.687	V	CT1	27500	Quality Entertain.
12.687	V	CT2	27500	News + Series
12.687	V	CT4_SPORT	27500	Low Level
● 12.687	H	Digi Sport Plus	27500	Quality Entertain.
● 12.687	H	Disney Channel	27500	News + Series
12.687	H	Etno	27500	News + Series
12.687	H	EuroSport	27500	News + Series
12.687	V	JOJ Plus	27500	Low Level
12.687	H	Kiss TV	27500	News + Series
● 12.687	H	Minimax RO	27500	Low Level
12.687	H	MTV Romania	27500	Quality Entertain.
12.687	H	National TV	27500	News + Series
12.687	V	NOVA CZ	27500	News + Series
12.687	H	Prima TV	27500	News + Series
12.687	V	PRIMA_CZ	27500	Low Level
12.687	V	Pro Tv International	27500	News + Series
12.687	H	Realitatea TV	27500	Quality Entertain.
12.687	V	Romantica CE	27500	News + Series
12.687	V	Sport1 SK-CZ	27500	Low Level
12.687	V	STV 1	27500	News + Series
12.687	V	STV 2	27500	Low Level
12.687	V	STV 3	27500	Quality Entertain.
12.687	H	TVR1	27500	News + Series
12.687	V	CT24	27500	Low Level
12.687	H	OTV	27500	News + Series
12.717	V	CNN	18400	News + Series
12.717	V	Eurosport 2 CE	18400	Quality Entertain.
12.717	V	Music Mix	18400	News + Series
12.717	V	Nova Cinema	18400	Low Level
12.717	V	Sport1 RO	18400	Quality Entertain.
12.717	V	Top Shop TV	18400	News + Series
12.717	V	TV Neptun	18400	Low Level
12.717	V	TV5 Europe	18400	Low Level
12.717	V	TVS Oradea	18400	Low Level
12.717	V	VTV	18400	Low Level
12.723	H	Animal Planet	27500	News + Series
12.723	H	Antena 1	27500	News + Series
12.723	H	Cinemax	27500	Low Level
12.723	H	Discovery CE	27500	News + Series
12.723	H	Discovery Sci	27500	Quality Entertain.
12.723	H	Discovery T&L	27500	News + Series
12.723	H	Discovery World	27500	News + Series
12.723	H	Hallmark	27500	Quality Entertain.
12.723	H	HBO Romania	27500	Quality Entertain.
12.723	H	Private Spice	27500	News + Series
12.723	H	Reality TV	27500	News + Series
12.723	H	TV 1000	27500	Quality Entertain.
12.723	H	Viasat History	27500	Quality Entertain.
12.735	V	KTV-R-DUK	8800	Quality Entertain.
12.735	V	RTV21-RADIO21	8800	Quality Entertain.
12.735	V	RTV21-PLUS	8800	Quality Entertain.

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11.216	V	24	24500	Quality Entertain.
11.216	V	Barnkanalen	24500	Quality Entertain.
11.216	V	Kunskapskanalen	24500	Quality Entertain.
11.216	V	Sky News	24500	Quality Entertain.
11.216	V	TV4	24500	Home Cinema
11.216	V	TV4 Fakta	24500	Quality Entertain.
11.216	V	TV4 Film	24500	News + Series
11.216	V	TV4 plus	24500	Low Level
11.216	V	TV4 Sport	24500	Quality Entertain.
11.216	V	TV400	24500	News + Series
11.229	H	Animal Planet	24500	News + Series
11.229	H	BBC Lifestyle	24500	Quality Entertain.
11.229	H	CNN International	24500	News + Series
11.229	H	Discovery (D)	24500	News + Series
11.229	H	Discovery (F)	24500	Quality Entertain.
11.229	H	Discovery (N)	24500	Low Level
11.229	H	Discovery (S)	24500	News + Series
11.229	H	MTV (N)	24500	Quality Entertain.
11.229	H	Travel Channel	24500	Quality Entertain.
● 11.247	V	TV 2 (N)	24500	Home Cinema
11.247	V	TV 2 Sport	24500	Home Cinema
11.247	V	TV 2 Filmkanalen	24500	Quality Entertain.
11.247	V	TV 2 Nyhetskanalen	24500	Home Cinema
11.247	V	TV 2 Zebra	24500	News + Series
11.247	V	Aged Care Channel	24500	Quality Entertain.
11.247	V	BTV-1	24500	Quality Entertain.
11.247	V	CCTV-9	24500	News + Series
11.247	V	GO	24500	Quality Entertain.
11.247	V	Swedbank	24500	Quality Entertain.
11.261	H	CANAL+ ACTION	24500	Quality Entertain.
11.261	H	CANAL+ SPORT 2	24500	Quality Entertain.
11.261	H	CANAL+ SPORT EXTR	24500	News + Series
● 11.261	H	SF Kanalen	24500	Quality Entertain.
11.261	H	Silver	24500	Quality Entertain.
11.261	H	TV 2 Sport 5	24500	Quality Entertain.
11.261	H	TV-biljett 4	24500	News + Series
11.261	H	TV-biljett 5	24500	News + Series
11.278	V	CANAL+ COMEDY	24500	Quality Entertain.
11.278	V	CANAL+ DRAMA	24500	Quality Entertain.
11.278	V	CANAL+ FIRST	24500	Quality Entertain.
11.278	V	CANAL+ HITS	24500	Quality Entertain.
11.278	V	CANAL+ SPORT 1 (D	24500	Quality Entertain.
11.278	V	CANAL+ SPORT 1 (F	24500	Quality Entertain.
11.278	V	CANAL+ SPORT 1 (N	24500	Quality Entertain.
11.278	V	CANAL+ SPORT 1 (S	24500	Quality Entertain.
11.293	H	24 Nordjyske	24500	Quality Entertain.
11.293	H	6`eren	24500	Quality Entertain.
11.293	H	CANAL9	24500	Quality Entertain.
11.293	H	DanToto	24500	Quality Entertain.
11.293	H	dk4	24500	Quality Entertain.
11.293	H	Nat Geo (D)	24500	Quality Entertain.
11.293	H	TV2 / Lorry	24500	Quality Entertain.
11.293	H	TV2 Zulu	24500	Home Cinema
11.309	V	BBC Knowledge	24500	Quality Entertain.
11.309	V	Boomerang	24500	Quality Entertain.
11.309	V	Cartoon Network	24500	Quality Entertain.
● 11.309	V	CNN International	24500	News + Series
11.309	V	Kanal 5 (DK)	24500	Quality Entertain.
11.309	V	Nat Geo Nordic	24500	Quality Entertain.
11.309	V	Nordic TCM	24500	Quality Entertain.
11.309	V	TCM_Cartoon	24500	Quality Entertain.
11.309	V	VH1	24500	Quality Entertain.
11.325	H	BBC Entertainment	24500	Quality Entertain.
11.325	H	Bloomberg	24500	News + Series
11.325	H	FEM	24500	Quality Entertain.
11.325	H	History Channel	24500	Quality Entertain.
11.325	H	Showtime	24500	Quality Entertain.
11.325	H	St-Sh TS	24500	Quality Entertain.
11.325	H	Star	24500	Quality Entertain.
11.325	H	Viasat 4	24500	Quality Entertain.
11.325	H	BBC World News	24500	Quality Entertain.
11.325	H	Gospel Channel Europ	24500	News + Series
11.341	V	Eurosport	24500	Home Cinema
11.341	V	Eurosport 2	24500	Quality Entertain.
11.341	V	TV-biljett 1	24500	Quality Entertain.
11.341	V	TV-biljett 2	24500	Quality Entertain.
11.341	V	TV-biljett 3	24500	Quality Entertain.
11.341	V	TV4 Guld	24500	News + Series
11.341	V	TV4 Komedi	24500	News + Series
11.341	V	TV4 Science Fiction	24500	Quality Entertain.
11.357	H	Disney Channel	24500	Quality Entertain.
● 11.357	H	Disney XD	24500	Quality Entertain.
11.357	H	Kanal 4 DK	24500	Quality Entertain.
11.357	H	MTV (D)	24500	Quality Entertain.
11.357	H	MTV (F)	24500	Quality Entertain.
11.357	H	MTV (S)	24500	Quality Entertain.
11.357	H	Voice (DK)	24500	Quality Entertain.
11.357	H	Voice (NO)	24500	Quality Entertain.
11.372	V	NRK1	24500	Home Cinema
11.372	V	NRK1 Nordland	24500	Home Cinema
11.372	V	NRK1 Nordnytt	24500	Home Cinema
11.372	V	NRK1 Vestlandsrevyen	24500	Home Cinema
11.372	V	NRK1 Østafjells	24500	Home Cinema
11.372	V	NRK1 Østfold	24500	Home Cinema
11.372	V	NRK1 Østnytt	24500	Home Cinema
11.372	V	NRK Super / NRK3	24500	Quality Entertain.
11.372	V	NRK1 Midtnytt	24500	Home Cinema
11.372	V	NRK1 Møre & Romsdal	24500	Home Cinema
11.372	V	NRK1 Rogaland	24500	Home Cinema
11.372	V	NRK1 Sørlandet	24500	Home Cinema
11.372	V	NRK2	24500	Quality Entertain.
11.372	V	NRK1 Tegnspråk	24500	News + Series
11.389	H	Kanal 5 Mitt/Norr	24500	Quality Entertain.
11.389	H	Kanal 5 Stockholm	24500	Quality Entertain.
11.389	H	Kanal 5 Syd	24500	Quality Entertain.
11.389	H	Kanal 5 Väst	24500	Quality Entertain.
11.389	H	Kanal 9	24500	News + Series
11.389	H	TV3 (S)	24500	Quality Entertain.
11.389	H	TV7	24500	Quality Entertain.
11.403	V	DR Update	24500	Quality Entertain.
11.403	V	DR1	24500	Quality Entertain.
11.403	V	DR2	24500	Quality Entertain.
11.403	V	RUV	24500	Quality Entertain.
11.403	V	TV2 Charlie	24500	Quality Entertain.
11.403	V	TV2 Film	24500	Quality Entertain.
11.403	V	Lifestyle TV	24500	News + Series
11.421	H	SVT1	24500	Home Cinema
11.421	H	SVT1 Gävle	24500	Home Cinema
11.421	H	SVT1 Gävledala	24500	Home Cinema
11.421	H	SVT1 Jämtland	24500	Home Cinema
11.421	H	SVT1 Jönköping	24500	Home Cinema
11.421	H	SVT1 MittNytt	24500	Home Cinema
11.421	H	SVT1 NordNytt	24500	Home Cinema
11.421	H	SVT1 SmålandsNytt	24500	Home Cinema
11.421	H	SVT1 SydNytt	24500	Home Cinema
11.421	H	SVT1 TvärsNytt	24500	Home Cinema
11.421	H	SVT1 VärmlandsNytt	24500	Home Cinema
11.421	H	SVT1 VästerbottenNyt	24500	Home Cinema
11.421	H	SVT1 VästNytt	24500	Home Cinema
11.421	H	SVT1 ÖstNytt	24500	Home Cinema
11.421	H	SVT2	24500	Home Cinema
11.421	H	SVT2 Gävle	24500	Home Cinema
11.421	H	SVT2 Gävledala	24500	Home Cinema
11.421	H	SVT2 Jämtland	24500	Home Cinema
11.421	H	SVT2 Jönköping	24500	Home Cinema
11.421	H	SVT2 MittNytt	24500	Home Cinema
11.421	H	SVT2 Nordnytt	24500	Home Cinema
11.421	H	SVT2 SmålandsNytt	24500	Home Cinema
11.421	H	SVT2 SydNytt	24500	Home Cinema
11.421	H	SVT2 TvärsNytt	24500	Home Cinema
11.421	H	SVT2 VärmlandsNytt	24500	Home Cinema
11.421	H	SVT2 VästerbottenNyt	24500	Home Cinema
11.421	H	SVT2 VästNytt	24500	Home Cinema
11.421	H	SVT2 ÖstNytt	24500	Home Cinema
11.434	V	Kino TV	24500	News + Series
11.434	V	liv	24500	Quality Entertain.
11.434	V	MTV3	24500	Quality Entertain.
11.434	V	Nelonen	24500	Quality Entertain.
11.434	V	Sub	24500	Quality Entertain.
11.434	V	YLE FST	24500	News + Series
11.434	V	YLE Teema	24500	Quality Entertain.
11.434	V	YLE TV1	24500	Quality Entertain.
11.434	V	YLE TV2	24500	Quality Entertain.
● 11.747	H	SportKlub Poland	28000	Quality Entertain.
● 11.747	H	SportKlub Romania	28000	Home Cinema
● 11.747	H	TEST_BG	28000	News + Series
11.747	H	TVPaprika	28000	Quality Entertain.
11.747	H	Brava TV	28000	Advertisement
● 11.747	H	DOQ	28000	Home Cinema
11.747	H	Kanal D	28000	Quality Entertain.
● 11.747	H	Partener TV	28000	News + Series
● 11.747	H	SpotKlub+ Poland	28000	Quality Entertain.
11.785	H	Axn Crime	28000	Low Level
11.785	H	Axn Sci-Fi	28000	News + Series
11.785	H	GSP 1	28000	Quality Entertain.
11.785	H	HBO Comedy	28000	News + Series
11.785	H	Mezzo	28000	News + Series
11.785	H	Money Channel	28000	News + Series
● 11.785	H	Movies 24 Hu	28000	Low Level
11.785	H	Nat Geo Wild CE	28000	Low Level
11.785	H	Nat Geo Wild RO	28000	News + Series
● 11.785	H	PV TV	28000	Low Level
11.785	H	Trinitas	28000	News + Series
11.785	H	TV 6	28000	News + Series
11.785	H	Universal	28000	News + Series
11.785	H	Music Channel	28000	Quality Entertain.
11.938	H	CANAL+ FILM HD	25000	High Qual. Cinema
11.938	H	CANAL+ SPORT HD	25000	High Quality Home
11.938	H	SVT HD	25000	High Qual. Cinema
12.015	H	Eurosport HD	30000	High Quality Home
12.015	H	Kanal 5 HD	30000	High Quality Home
12.128	H	History Chnl HD	30000	High Quality Home
12.128	H	TV4 HD	30000	High Qual. Cinema
12.128	H	TVNorge HD	30000	High Quality Home
12.188	V	Nat Geo HD	25000	High Quality Home
● 12.188	V	Rush HD	25000	High Qual. Cinema
12.188	V	Silver HD	25000	High Qual. Cinema
12.418	V	DR1 Syd	28000	Quality Entertain.
12.418	V	DR2 Syd	28000	News + Series
12.418	V	NRK1 Reserve	28000	News + Series
12.418	V	TV Finland	28000	Quality Entertain.
12.418	V	Musiq1	28000	Quality Entertain.
12.418	V	Televizo	28000	News + Series
12.418	V	The Poker Channel	28000	News + Series
12.418	V	TV Patriot	28000	News + Series
12.418	V	Visjon Norge	28000	Quality Entertain.
12.428	V	DR1 Syd	28000	News + Series

Freq	Pol	Channel Name	Symbol Rate	Programming Type
GHz			ksym/sec	SatcoDX Definition
12.428	V	**DR2 Syd**	28000	News + Series
12.428	V	**NRK1 Reserve**	28000	News + Series
12.428	V	**TV Finland**	28000	Quality Entertain.
12.428	V	**Musiq1**	28000	Quality Entertain.
12.428	V	**Televizo**	28000	News + Series
12.428	V	**The Poker Channel**	28000	News + Series
12.428	V	**TV Patriot**	28000	News + Series
12.428	V	**Visjon Norge**	28000	Quality Entertain.

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11.823	H	**Moldova 1**	28000	News + Series
11.823	H	**N4**	28000	News + Series
11.823	H	**NIT**	28000	News + Series
11.823	H	**Pervii Canal Moldova**	28000	News + Series
11.823	H	**Pro TV Chisinau**	28000	News + Series
11.823	H	**TV7**	28000	News + Series
11.823	H	**BGTV**	28000	News + Series
● 11.823	H	**Chance TV**	28000	News + Series
11.823	H	**EU TV**	28000	News + Series
11.823	H	**Latina F**	28000	News + Series
11.823	H	**Mynele TV**	28000	News + Series
11.823	H	**Party TV**	28000	News + Series
11.823	H	**Speranta TV**	28000	News + Series
11.823	H	**Tiankov TV**	28000	Quality Entertain.
12.149	V	**Antena 2**	28000	Quality Entertain.
12.149	V	**AXN Crime**	28000	News + Series
12.149	V	**AXN Sci-Fi**	28000	Low Level
12.149	V	**B1**	28000	News + Series
12.149	V	**Discovery**	28000	News + Series
12.149	V	**Discovery Science**	28000	News + Series
12.149	V	**Discovery Travel**	28000	Low Level
12.149	V	**Euforia Lifestyle**	28000	Low Level
12.149	V	**History**	28000	News + Series
12.149	V	**MGM**	28000	News + Series
12.149	V	**N24**	28000	Advertisement
12.149	V	**Nat Geo Wild**	28000	Quality Entertain.
12.149	V	**Reality/BlueHustler**	28000	News + Series
12.149	V	**Sport1**	28000	Quality Entertain.
12.149	V	**Trinitas**	28000	Low Level
12.149	V	**TV5**	28000	Advertisement
12.149	V	**TVR Info**	28000	Low Level
12.169	H	**MSAT**	28000	Quality Entertain.
12.169	H	**Planeta TV**	28000	Quality Entertain.
12.169	H	**PRO BG**	28000	Quality Entertain.
12.169	H	**RING BG**	28000	Quality Entertain.
12.169	H	**CETV**	28000	News + Series
12.169	H	**City TV**	28000	Quality Entertain.
12.169	H	**Heros TV**	28000	News + Series
12.169	H	**McBox**	28000	News + Series
12.169	H	**SKAT**	28000	Quality Entertain.
12.169	H	**Telestar TV**	28000	News + Series
12.169	H	**TV LUX**	28000	Quality Entertain.
12.226	V	**Adult**	28000	Quality Entertain.
12.226	V	**ESPN America**	28000	News + Series
12.226	V	**ESPN Classic**	28000	Quality Entertain.
12.226	V	**HustlerTV**	28000	Quality Entertain.
12.226	V	**TV 2 Sport 2**	28000	Quality Entertain.
12.226	V	**TV 2 Sport 3**	28000	Quality Entertain.
12.226	V	**TV3 (N)**	28000	Quality Entertain.
12.226	V	**TV8**	28000	Quality Entertain.
12.245	H	**Antena 1**	28000	News + Series
12.245	H	**Favorit TV**	28000	Low Level
12.245	H	**Hallmark**	28000	Low Level
12.245	H	**HBO Comedy**	28000	Advertisement
12.245	H	**Hustler TV**	28000	News + Series
12.245	H	**Minimax**	28000	Advertisement
12.245	H	**MTV Romania**	28000	Quality Entertain.
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DishPointer AR

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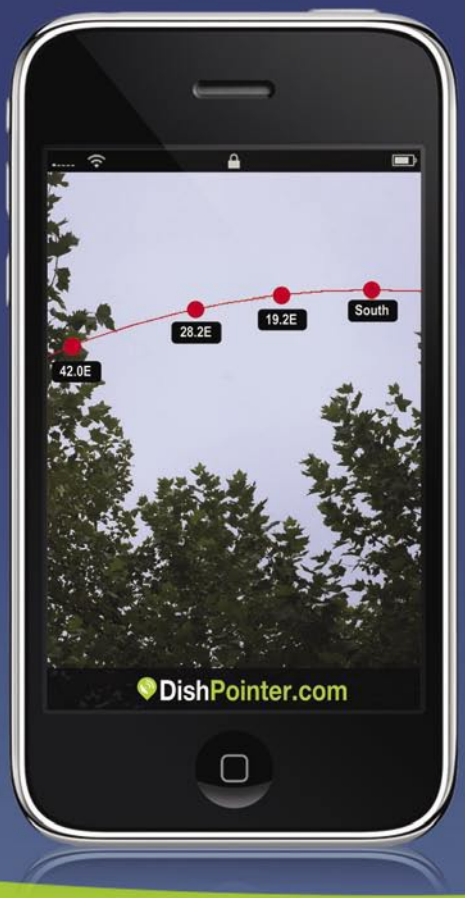
The revolutionary DishPointer Augmented Reality app is now available on the app store. Just point your iPhone anywhere towards the sky and see all the satellites lined up on the live video screen.

See the Video

See DishPointer AR in action on YouTube!

This app uses the iPhones GPS, motion sensor and compass to calculate all the satellite positions and overlays them on the camera. At a glance you will see where to point the dish and any obstacles blocking the line of sight.

DishPointer is the world's No.1 satellite dish pointing site, offering custom built tools for mobile devices or websites to businesses. For more information, visit www.dishpointer.com.



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Edited by
Alexander Wiese

10 Years Ago

Travel into the Past
TELE-satellite Magazine
Issue 11-12/1999



Praxis PocketSat 9500

A couple of months ago, we introduced the hand-held receiver (PalmSat) from Praxis. We then made the remark that a digital brother in the same size would be very nice. Praxis read our test very well and indeed developed a digital version of the Palm-Sat; a small receiver with the size of three packs of cigarettes. We tested the PocketSat 9500 with a multi-feed dish for a longer period. Minor errors in the software were fixed by Praxis within a matter of hours. The included loader for Windows95/98 uploaded new versions without any problem.
The dimensions of this box, only 150x38x140mm, make it possible to hide anywhere you want.
It operates on a separate power supply. Not just the usual plastic box you may expect,



this one comes in a real metal housing and is a stabilised power supply. It accepts volt-ages between 90 and 250VAC at 50/60Hz.
The front of the receiver features all buttons needed to fully programme it. Of course a remote control is included, but only just in case. The four-digit display shows the programme mode and the actual channel id. The PocketSat 9500 can store up to 3000 TV-channels and 2000 radio channels.
The back of the receiver is too small to fea-ture a Scart connector and therefor the developers at Praxis decided to attach a special cable with all necessary connec-tors (comparable to those used with PCs.)
The adapter cable is included of course. Another connector supplies the 0/12V signal. It is even possible to connect a servo polariser with skew function to the adapter cable. Since the Pock-etSat 9500 is C-band compatible, this option is necessary. Lots of manufacturers tend to forget this. In the Americas and the Far East C-band is very often used, also for digital signals. The truly international approach of this receiver also shows in the fact that the RF modulator can not only be switched to any PAL version but also to NTSC-M.
There is also an LNB output to connect another (analogue) receiver. Praxis supplies a well-work-ing loader so the box can be upgraded every now and then using the serial interface (9 pins).
It may save space, but what about the perform-ance and features of the box? And what about operating it? The multi-lingual, on-screen display for example leaves nothing to be desired. Not in the field of information and not with regard to the graphical user interface.
After performing the basic settings (the so-called first installation,) you just pick the satellite(s) you desire from the global listing. All satellites are pre-programmed with transponder data. Of course not all channels are stored, simply to prevent the user from being overwhelmed by just too much. Just activate the satellites you want to receive and assign the proper LOF, polariser or 14/18-Volt and DiSEqC. Then have an automatic search performed. You can lock out encrypted channels, so you don't have to delete a whole bunch of channels afterwards. You can choose between having a complete satellite scanned or just one transponder. It is also possible to find one particular channel. The relative signal strength is shown on-screen in a bar graph.
We did our first test using a multi-feed installation looking at the most critical signals, since Praxis specifies a symbol rate between 1.7 and 45Msym/s. There were no problems with low-symbol rate SCPC channels, the auto search found them.







Channels can be added manually as well as satellites can. The advanced search enables you to specify PIDs. A special favourite menu can store up to 100 channels.
The reception threshold was tested by using a 2.4m dish on the C-band catching a global beam. Actual feeds were processed without any problem. The edit feature enables you to change the name of a channel, change order, delete or skip channels. When supplied by the selected TV channel, the PocketSat 9500 processes all EPG information and offers it to you. Teletext is supported using the decoder of your television.
In both quality and performance of the receiver and the power supply together with the extensive features (servo polariser support) and the fine software, the PocketStar 9500 from Praxis is a real welcome to the market of digital receivers.
As far as we know this really is the smallest digital receiver in the world. Therefore it will find its way to countries where satellite reception is prohibited. When anyone would find a way to make a small omni directional antenna for Ku-band reception (they have been trying for over 15 years now,) this receiver would be a blast and could even replace your car radio. Operating the box is child's play, as is the first installation. Praxis offers a special loader that makes it possible to upgrade the software using your own PC (Windows 9x.) The only thing this box can wish for now is proper marketing.

KBS Digipro DS3002

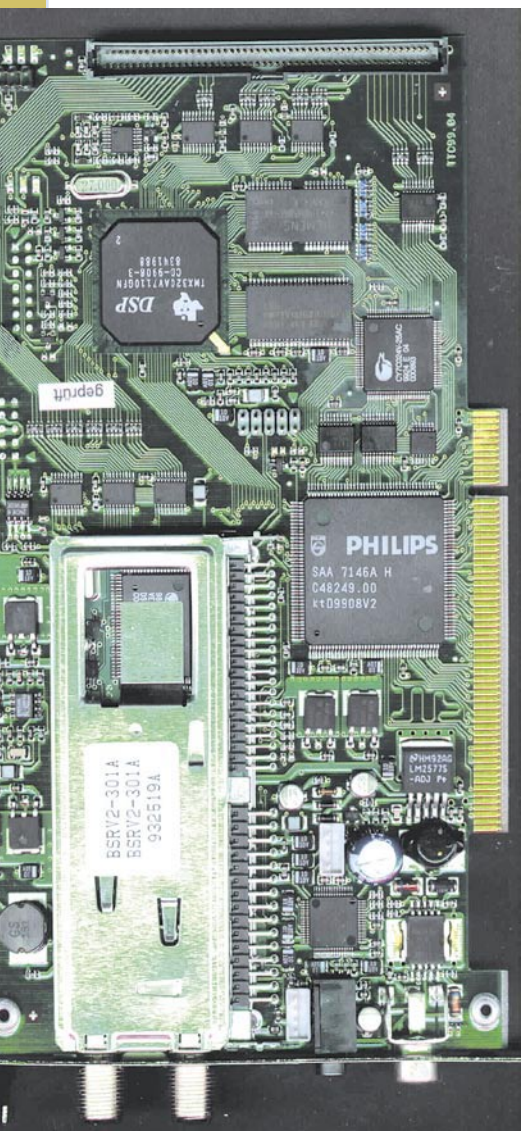
Some manufacturers tend to introduce new products to the market with a lot of noise. Most of the time, the noise is much more than to be expected from the introduced boxes. And very often the product itself is not available for months. In some cases the very early demo versions are wandering around on trade shows and fairs for more than a year before the final product is available. In the end, the final product is sometimes very disappointing, lacking a lot of features. The implemented features are based on old market situations and user requirements. The market however, has changed during this period and expects a completely different box than the one that is presented. In the same period, smaller manufacturers have developed new receivers with market complying specifications and error-free software.
Most of these receivers come from South-Korea. Although these manufacturers are located at a very great distance from some of their markets,



their knowledge of the demands and requirements of users is very great. Most of these receivers can be used all over the world. TSI discovered two very interesting receivers from KBS, Seoul. The DS3002 is targeted at the digital market, where the DS3002 is designed for reception of both analogue and digital signals.
For now, we have tested the universal receiver.
In basic, all digital receivers are more or less the same. In practice, most receivers are alike since the boxes are produced by the same manufacturer. Only the software differs. Still this is a very important difference, since the software really determines the true performance of the box.
The front of the receiver is what we may expect from today's receivers. All buttons for emergency and normal daily use are hidden behind a lid. The box can store up to 2000 channels. A display shows the channel ID. The DS3002 is a true FTA (free-to-air) receiver. At the back of the receiver, there are the connectors for the LNB. An output is also present to be able to connect an additional analogue receiver. Two clamp terminals supply the 0/12 Volt signal for controlling additional switches. A modulator is built-in and perfectly integrates a present terrestrial signal with the signal of the receiver. It is software adjustable, and can be set to the complete UHF band (European version). Six phono connectors twice supply a composite video output, stereo audio output. This way you can, for instance, connect your stereo and additionally connect a 900MHz transmitter as well. In contrast to the generously laid out phono connectors there are only two Scart connectors. Another nice feature is the power switch, making it possible to completely turn off the receiver. Everything programmed will still remain in memory, even after two weeks without power. Even the most recent watched channel is still present.
Also the remote control is what we expected. A circular group of buttons makes operating the receiver child's play. An info button is present for consulting the EPG (Electronic programme Guide). All buttons are laid out in a logical order.
A first installation is of course necessary to configure the box to your needs. On-screen display are available in eleven languages (for example German, English, Polish, Italian and Spanish, in the European version). To set the time you only need to set the time difference with UTC. The actual local time is calculated based on the time in the data streams of the channels. The on-screen display also features the possibility to switch from transparent to a solid backdrop. The DS3002 also supports wide-screen displays (16:9).
All major satellites are programmed so you don't have to do a lot of programming yourself. This programming differs from area to area. Of course, you can add satellites yourself very easily. Operating a multi-feed installation you will have to use the DiSEqC and 0/12Volt switching controls.
After setting the proper LOFs for your LNBs, the search for channels is performed automatically. Encrypted channels can be left out during the search. Channels already stored are not stored twice but updated during the search. Newly found channels are stored with the others in the same package.
For the really serious enthusiast, the Advanced Search mode provides all you need. You can enter the symbol rate, FEC and PIDs. Whenever one of those values is unknown, just select the AUTO option.
Favourite channels can be copied into a separate list. Although the automatic search is not that fast, it is really accurate. Two colour bars indicate the signal strength and quality. Looking at this you will understand why it sometimes takes more time: the receiver tries to optimise the reception quality by finding the highest possible signal level. The AFC will fine-tune the reception to the best.

Galaxis PC-Card: DVB-Sat PCII

Now it is possible to extend your PC capabilities with a DVB receiver with Internet connection. In fact, every digital DVB receiver is for about 80% a PC. The only thing lacking in a normal PC is the actual tuner and QPSK demodulator. The Galaxis add-on card now offers this extra functionality to any PC, transforming it into a real multi-media terminal. The system requirements are a minimum of a 166MHz PC (or higher,) one PCI slot, a minimum of 32MB RAM and 32Mb free hard disk space and a PCI or



AGP graphic card with at least 800x600 pixels. To install the included software a CD-ROM drive is needed. Required software such as DirectX 5, MS Internet Explorer and media player can also be found on the CD. Our test version was not production-ready, and therefore not plug-and-play. The final product will offer this.
Owing to the supported symbol rates of 2-45Msym/s, the receiver is absolutely SCPC compatible. Although this is nothing special in particular, the combination with a PC is really spectacular, since new possibilities come to life. During a transponder search there is not only a simple bar chart and a list what was found so far. The included software gives all kinds of information. The complete frequency range is searched and transponders are examined. A graphic shows what is already searched, channels found are listed and a small insert shows the actual signal of a found channel. Included in this information are, of course, the Bit-Error-Rate, symbol rate, PIDs, signal strength and quality. There is also information about what is received: television, radio or data. There is no DVB receiver available offering this wealth of information on screen, or in the front display. This automatic search is performed much faster compared to any other receiver. DiSEqC 1.0 is integrated and therefore the operation of more LNBs (dishes) are possible.

Iridium Phone Motorola 9500 Portable

Telephony with digital mobile phones (GSM/PCS phones) seems to be virtually endless. The airtime rates per minute have hit an all-time low and are now customer-friendly in the true sense of the word. In some countries with extremely low rates (e.g. Singapore) it is a common sight to see school children strolling home from school with their phones next to their school bags. In the Netherlands mobile phones are offered in the catalogues of a nation-wide kids' store chain. But the limit of mobile mania is reached as soon a Europeans travel to the United States and vice versa. Two incompatible standards are used, so the phone turns out to be not much more than useless excess luggage. An expensive dual band phone is a possible solution, but out on the sea or in thinly populated regions this will not get you much further either. Try mountain hiking, hot-air ballooning or even some crisis regions in Eastern Asia, let alone the polar regions, and you have no chance to get coverage with your regular cell phone. Fair enough, at least on the sea there is Inmarsat coverage, but the price per minute is not exactly a bargain and one simply isn't used to depend on a single provider anymore in this day and age of boundless mobile communications. Apart from that, who likes to tote around a briefcase full of Inmarsat equipment on a cruise ship?



Digiglobe

An unusual satellite antenna for the reception of digital satellite signals was developed by Klein Elektronik of Germany. Because of its interesting design we soon came up with the idea of not only using this combination of garden lamp and satellite dish to brush up the front garden a little but also to have a secret satellite antenna in areas where conventional dishes are prohibited. In most countries of the world freedom of information is guaranteed on paper, but this guarantee is 'void' in many places. Satellite signals are still received in these areas as well, but it's an adventure rather than a pleasure: satellite equipment is installed for viewing satellite television and disassembled again once the TV set is switched off. In some places dishes are actually mounted under the roof somewhere in the attic, and there's also the trick of installing offset dishes horizontally (on a balcony, for instance) rather than being mounted in a more or less upright and visible position. and yet there is always the risk of getting caught and—consequently—fined. Other countries allow satellite reception, but there are landlords who act like dictators and accept the tenant's neat pit bull dog, but no children, let alone satellite dishes. Readers in regions with absolute satellite prohibition have long been advised and helped by TSI as far as indoor equipment is concerned. There are PC cards available which allow unobtrusive reception of digital satellite signals. This issue also presents a useful receiver which is so tiny nobody will ever notice it and which might be commented by state controllers with "hey, what do you need that old car radio for?" But there has always been the problem of the dish. Finally there is also a solution for that: Digiglobe, a Cassegrain antenna which resembles a well designed garden lamp rather than a satellite antenna. It is especially designed for the reception of digital signal from the Astra and Hotbird satellites—a combination that is both available and popular in many European countries. Nonetheless, it can be used in many other parts of the world as well.






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