

SATELLITE

BROADBAND & FIBER-OPTIC

10-11
2009

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Test Report

TECHNOMATE TM-1's
Probably the Best LNBs
We've Ever Tested

Company Report

VIEWTECH

High Tech Receiver
Manufacturer from California

Test Report

HORIZON HD-TC8

Rain in Ka-Band:
Analyzing Internet-via-
Satellite Signals with
an Amazing New
Multirange Meter



HORIZON

For a reliable solution!





SRP-2100 **TMS**

Multimedia HDTV Twin Tuner PVR with DivX playback

PVR

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

Bloggung with Twitter

Game

Featuring on-line game BATTLE TANK

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



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

Topfield Co., Ltd.

Topfield bldg. 207 Geumgok-Dong, Bundang-Gu, Seongnam, Korea, 463-869 Tel: +82 31 778 0800 Fax: +82 31 778 0801 Email: info@i-topfield.com



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www.TELE-satellite.com

Dear Readers,

Satellite technology is not only used for TV and radio transmissions, but has been employed for datacasts too for a long time now. Yet, data transmissions via satellite had not really been targeted to private end users up until recently. These days, however, Internet via satellite is gaining popularity in the retail market as well. It's not only cheaper technology that is driving this development, but also less expensive satellite bandwidth costs. The result of all this is a new business division: Internet via satellite.

Due to large capacity requirements providers of Internet via satellite have selected the Ka band, which comprises frequencies in the 20 GHz range. On the one hand, this allows huge bandwidths and – consequently – sufficient data transmission reserves, but on the other hand, the Ka band is even more susceptible to interference (due to rain, for example) than other bands used for TV and radio transmission. Another aspect worth mentioning is the fact that users also need to be able to send data, such as request for a specific website or e-mails. All this information has to be transmitted back up to the satellite which means that the reception footprint of a satellite has to be taken into account as well.



Installers therefore need not only make sure the satellite can be received down on earth, but also that the bird up in the orbit is able to receive signals from down below. With this, satellite technology will become quite a bit more complex, but at the same time more exciting. In turn, more technology offers new chances and niches for manufacturers, users and installers, who need to have available the appropriate equipment.

While it still is possible for laymen to install a satellite dish for TV and radio reception, it's a whole different story with Internet via satellite. It requires professional support, because the corresponding technology is far too complex for Joe Average. What we see in the satellite industry is thus a repetition of what is happening in the industry at large: Hardware prices keep coming down, while demand for customer service and human know-how is on the rise. This is all the more reason to keep reading a specialised magazine such as TELE-satellite in order to be ahead of changes and innovations!

Alexander Wiese

P.S.: My favourite radio station this month is Radio Nervion on HISPASAT 330 East (30 West) at 12.092V. It's a great local radio station from the north of Spain with wonderfully old-fashioned advertising: Each day at the same time a resolute lady calls in and praises a certain brand of detergent. It's the same product every day and yet the radio host acts surprised every single time the lady calls. Who would have thought this kind of advertising still exists in this day and age? Then again, it's nice to know that there are places in which time seems to stand still...



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CHINE
Bricoleur satellite astucieux à Pékin

Présentation d'entreprise
PROMAX
Les quatre divisions expertes de Barcelone

Français

Rapport de Test
GLOBAL INVACOM
Ces LNB optiques de nouvelle génération vont changer le monde du satellite

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INNOVATION SATELLITE AWARD

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Αναφορά DXer
KINA
Πρακτικός Δορυφορικός Άνθρωπος από το Πεκίνο

Αναφορά Εταιρείας
PROMAX
Οι Τέσσερις Κορυφαίες Τεχνολογίες Διευθύνει από την Βαρκελώνη

Ελληνικά

Αναφορά Δοκιμής
GLOBAL INVACOM
Η Νέα Γενιά Οπτικών LNB Θα Φέρει Επανάσταση στον Δορυφορικό Κόσμο

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HRV Najveći svjetski satelitski časopis # 212

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BROADBAND & OPTIČKE VEZE

Izvešće o DXeru
KINA
Dovršljivi satelitski majstor iz Pekinga

Izvešće o tvrtki
PROMAX
Četiri vrhunska odjela u Barceloni

Hrvatski

Test uređaja
GLOBAL INVACOM
Nova generacija optičkih LNB-a izazvat će revoluciju u satelitskom svijetu

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BANDA LARGA & FIBRA OTTICA

DXer nel Mondo
KINA
Tuttofare Satellitare Pieno di Sorprese da Pechino

Profilo aziendale
PROMAX
Quattro Divisioni all'Avanguardia in Barcellona

Italiano

In Prova
GLOBAL INVACOM
La Nuova Generazione di LNB Ottici che Rivoluzionerà il Mondo del Satellite

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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

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Available Models:
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 TM-5400 CI+ USB Super+
 with Card Reader + Common Interface

TM-5300 D+ USB Super+
 with Built-in Smart Card Reader
 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'*



Gold Plated Connector
 Resistant to environmental conditions

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
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 every point of the Ku-band!..our
 reference LNB was no match for
 it!'

All LNB Types/Outputs
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The Best a Dish can get!

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

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HORIZON HD-TC8
Satellite Meter
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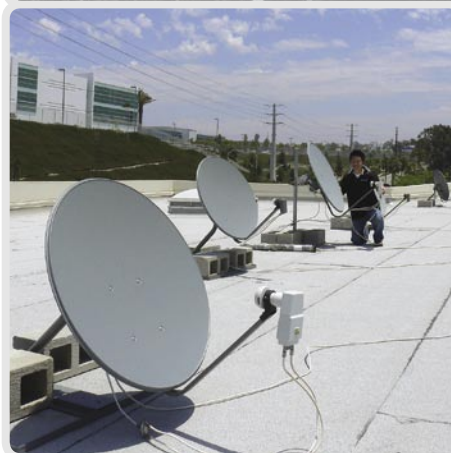
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OUTSTANDING STB HARDWARE MANUFACTURER FROM CHINA



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 browser 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

S19



DVB-S SD with USB PVR

- Built in Ali3329 E single chip processor
- Mpeg-2 digital & fully DVB-S compliant
- HDMI-Dual Scart+RCA+SPDIF
- 1 Common CA slot (optional)
- Single Tuner PVR with time shifting function
- VFD display, HDMI 1.2 with upscale and OTA optional
- 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 receiver

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 receiver



NEW TECHNOLOGIES – NOW ON STOCK

JAEGER HUMAX TOPFIELD

SMW
SWEDISH MICROWAVE AB

emitor

MICROELECTRONICS TECHNOLOGY INC.

ALPS

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STRONG
DIGITAL TV

Inverto
digital-labs

SPAUN

Stab

TOPFIELD **NEW** 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 embedded web & FTP servers.
- Supports MediaHighway EPG
- Supports Sony tvtv EPG



PVR
Playing recorded programmes 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**

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- 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

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Satlook Micro +, Satlook Mark IV

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

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- 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, ± 1 dB at 20°C



DIGISAT PRO ACCU

Measuring instrument for dish-properties.

Check two LNBs at the same time.

With DiSEqC tester.



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- Digisat+
- Digisat Pro
- Digisat Multi

Satlook Micro HD



Now with DVB-S2 support!
NEW

- 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

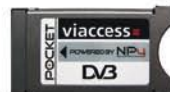
- HDMI outputport, 576p, 720p, 1080i
- Fully DVB-T compliant
- 2000 service TV & Radio programmable

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)
- PREMIERE



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

STRONG SRT 6365 PDR



Satellite PDR

- Digital Satellite Receiver with integrated Digital Recorder
- 160 GB hard disk for up to 120 hours
- Twin Tuner Technology
- 2 Common Interface slots
- USB port
- Audio and Video in DVD quality and Dolby Digital

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
- High speed channel zapping

SRT 60 Scart



Satellite Scart Receiver

- Satellite Receiver for direct connection to SCART connector (TV, VCR, DVD, Projector, HiFi)
- Remote Control operates receiver via Infrared Sensor Eye
- ASTRA and HOT BIRD channels pre-programmed



Optical fibre LNB

AVAILABLE ACCESSORIES:

INVACOM
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Fibre LNB

NEW

with optical fiber connection



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

Full LNB range INVACOM available as:

SNH-031, TWH-031, QTH-031, QDH-031, SNF-031, TWF-031, QTF-031 and QDF-031



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

HDTV Receiver Selection

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

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

Multifocus Dish

emme esse **Plarkalign**
ANTENNA SYSTEM

Professional multisatellite 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 innovative system to receive 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.

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



Koaxialcable

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



Multiswitches/ DiSeqC-Switches

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



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

SPAUN Full range

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**
ANTENNA 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!

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

Flat-Dishes

SELF SAT 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.



Balcony mounting parts

- 25 cm distance – Steel
- 50 cm distance – Steel



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

Thanks to SCR: One single cable for up to eight receivers

Thomas Haring

SCR is short for Satellite Channel Router and is a specification defined in the EN 50494 standard, which applies worldwide and which is the result of joined forces between several companies under the guidance of SES Astra. So what's in it for you?

The problem SCR addresses is as old as satellite reception: Satellite signals which reach the LNB are transmitted in the 10.7 to 12.75 GHz range and are then converted by the LNB to the 950 to 2150 MHz range for transmission to the receiver via a coax cable. This limited frequency range is not wide enough for covering the full frequency band of a satellite, which is why the signals broadcast via satellite are split up into four distinct ranges.

On the one hand, we distinguish between low band and high band. The low band covers the range from 10.7 to 11.75 GHz and the high band goes from 11.8 to 12.75 GHz. Thanks to a 22 kHz

control signal – which is modulated using the LNB supply voltage – receivers are able to tell the connected LNBs which band the selected channel is on (no control signal = low band; 22 kHz control signal = high band).

On the other hand, there are two different polarisations, namely horizontal and vertical, or left and right respectively. Switching between the two is controlled with the LNB supply voltage. If, for example, the receiver transmits 13 V to the LNB the LNB receives the vertical (or left) polarisation, while 18 V power means the LNB will pick up horizontal (or right) signals.

From this it follows that each tuner input requires a dedicated line all the way to the LNB or multi-switch. Otherwise, the receiver will not be able to receive signals from the complete frequency range. For argument's sake let's assume that two receivers are hooked up to the same coax cable. If receiver A requires a vertical signal and sends 13 V to the LNB while receiver B is looking for a horizontal signal and therefore transmits 18 V via the same cable then this would result in receiver B being prioritised as the higher voltage overrules the lower voltage with regard to the selected polarisation in the LNB. And with the 22 kHz control signal it's the same story.

So as far as satellite reception is concerned, it has been evident right from the beginning that signal distribution requires a substantial amount of planning and infrastructure. In the case of an apartment building, for instance, an individual coax cable has to be provided for each wall outlet from a central distribution point. Simply creating a cable ring that transmits signals from one outlet to the next (as is the case for terrestrial or cable TV distribution) just won't cut it for satellite signals.

Ring distribution by definition means that a single signal access is used to distribute signals from one wall outlet to the next, no matter how many of them you need to cover. Smart planning and a signal amplifier here and there thus are all that is required to connect dozens of apartments to cable TV.

If you're building your own house it is of course not too difficult to make it satellite television compatible right from the start by creating a network



■ SCR LNB



of coax cables to each room from a central access point. But what if the house is already built or you've just moved into a new apartment? In most cases, basic cabling will be available, but how can you best use it for satellite reception, and how can you use your twin tuner receiver if only one cable leads to the wall outlet in the living room?

Global Invacom's optical LNB, which has been available for a short while now, is one possible solution. And then there's SCR.

How does SCR work?

In general, SCR comes in two different varieties: The first one has all control technology built right into the LNB, which means no additional equipment other than SCR-compatible receivers is required. The second variant is more complex and only works with SCR-compatible multi-switches and distributors, yet offers a vast variety of different set-ups and establishes an extremely versatile system. With SCR, each active receiver is allocated a specific frequency range out of an overall range from 1200 to 2100 MHz. Up to eight receivers per cable can be accommodated according to current SRC specifications which define the following:

Four bands (high low)/polarisations (horizontal/vertical) are transmitted from the LNB in the 950 to 2150 MHz range. What an SCR LNB or multi-switch now does is wait for requests for certain transponders sent out by connected receivers. These requests are generated as soon as a user selects a new channel on their remote control. Such a request is then checked by the controller in the SCR component and next the selected transponder is modulated to the allocated frequency. With this set-up each receiver invariably only receives the transponder it currently needs for the selected channel.

If an SCR multi-switch is used, it takes care of frequency allocation instead of the LNB. Alternatively, the overall system can also be set-up manually. Existing DiSEqC protocols are used for all communication between receiver and multi-switch and in case of automatic set-up each receiver sends a sign-on signal to the multi-switch as soon as it is turned on so that the multi-switch can allocate an available frequency range to this specific receiver.

The SCR system is not equipped with a return channel and can only reply with an HF burst, which means the receiver keeps requesting one frequency range after the other until the multi-switch confirms a set range.

The following sequence of events takes place every time a user chooses to watch a new channel: The receiver requests a certain transponder, and this request is sent to the multi-switch's SCR component, which in turn is responsible for each of the up to eight signal outputs. The SCR component analyses the request and then modulates the requested transponder to the frequency that was allocated to the requesting receiver during sign-on. The multi-switch also features a built-in controller which supervises the complete process, verifies correct execution and interprets all incoming DiSEqC commands.

One of the huge advantages of using an SCR multi-switch is the possibility of creating a mixed system. This means that in an apartment building, for instance, four coax cables with signals from a quattro LNB may be distributed to each floor, from where the individual apartments are connected with a single line from a central SCR multi-switch on each floor. This single line can be designed like a ring leading from the living room to the children's bedrooms and so on, with all channels being available independently from each wall outlet.

There even exists an SCR scenario which allows distributing signals from two different satellites. In such a matrix, up to eight users can receive signals from two different satellites using a single ring-like cabling. What is decisive in any ring set-up is that each ring has to be equipped with a terminator resistor with capacitive separation. However, this is a requirement for all ring distributions, irrespective of whether we're talking about satellite or cable TV.

It is also noteworthy that SCR multi-switches also allow feeding in terrestrial signals and making them available to all users via the same single coax cable. Let's go back now to the other variety described above, which is using an LNB with integrated SCR technology. While it may save money initially it comes with strings attached – only one satellite can be received and the set-up cannot be cascaded and expanded in future.

With this variety all four reception ranges (low band horizontal, low band vertical, high band horizontal, high band vertical) are converted to the satellite IF right in the LNB, with a built-in multi-switch receiving requests from connected receivers. The respective signals are then forwarded to the individual receivers by SCR components included in the LNB.

Are all receivers SCR-compatible?

SCR is a technology that extends far beyond DiSEqC protocols 1.0, 1.1 and 1.3, which means that only few receivers can deal with SCR distribution equipment.

SCR and pay TV

The development in recent months has illustrated that pay TV providers (such as Sky Italia, for example) are showing great interest in SCR technology. It is particular pay TV platforms which provide customers with proprietary receivers that are joining the bandwagon. Why is that? Most providers these days offer twin tuner receivers, while most customers only have a single cable leading to the living room wall outlet. Thanks to SCR all that needs to be done is exchange the conventional LNB for a new SCR LNB and update the receiver's firmware so that it becomes SCR-compatible as well. After that the existing single cable will provide two completely independent tuner inputs and any twin tuner receiver can be used to the full. There's no better and cheaper way for such an upgrade.

The future of SCR

While delivering excellent results with state-of-the-art equipment and professional installation, SCR technology nonetheless looks a bit dated in comparison with Global Invacom's optical LNB technology. So we can expect SCR to be around for a few more years, especially for solving the problem of a missing second cable for twin tuner use, but in the long run Global Invacom's optical LNB will be the winner. While offering a considerable improvement over traditional set-ups, large-scale signal distribution with SCR is still far more difficult to achieve than with optical distribution, which only requires an extremely thin cable for simultaneously carrying the complete frequency range of a satellite.



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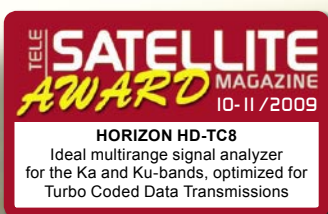
HD9000

Dual Tuner HD COMING SOON!

HD-TC8 from HORIZON

New feature-packed signal analyzer specially designed for the new Ka-band Internet-via-Satellite services

While it is possible with a little effort to find Ku-band satellites using a normal satellite receiver and using it to adjust the antenna, this method has its limits when dealing with Internet-via-Satellite services in the Ka-band. Even if you were to use a Ka-band LNB you would not be successful: an Internet-via-Satellite service such as Tooway, available from the HOTBIRD 6 satellite, uses a different transmission mode. Enter the new Horizon meter HD-TC8 which has the ability to directly lock on to those Turbo Coded services.



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Qualified Manufacturer of
Satellite Receiving Equipment
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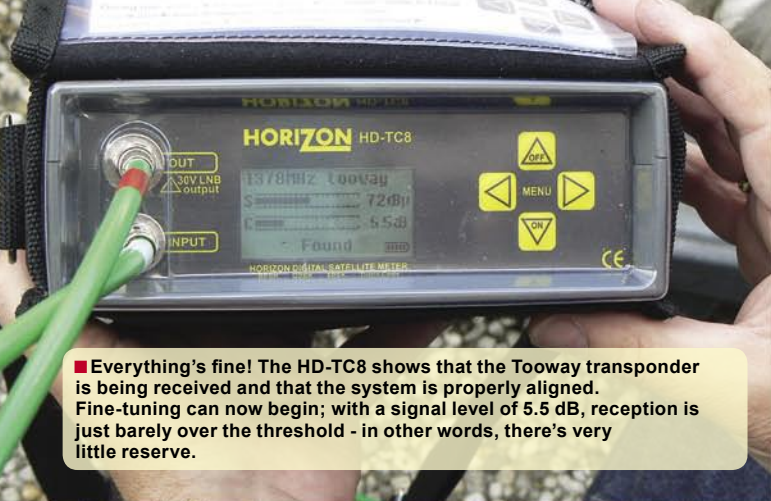
Available online starting from 2 October 2009



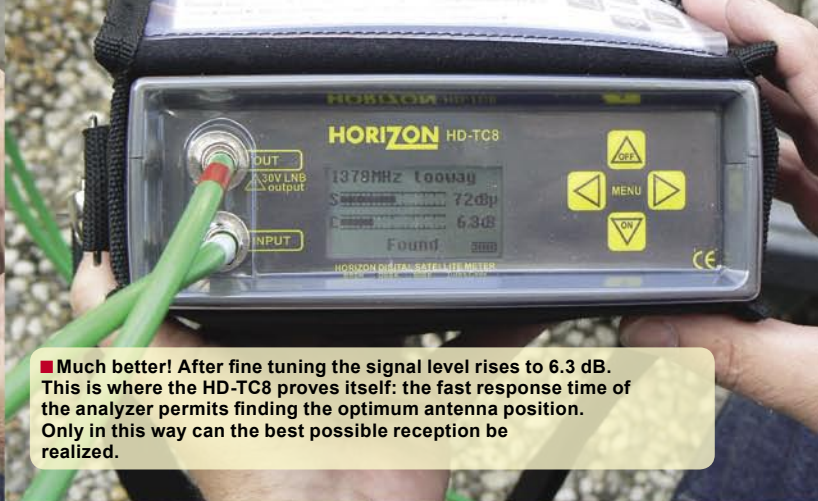
■ Ka-band specialist Ron Eberson adjusting the Tooway dish using the HORIZON HD-TC8. Have no fear; the Tooway dish is standing properly. Polarization is set manually on Tooway systems. The LNB has a fixed position within the antenna assembly which requires the whole antenna to be rotated for correct polarization adjustment. The Tooway hardware is supplied with the correct feed (Tria) assembly for the required receive and transmit paths.

HORIZON

For a reliable solution!



■ Everything's fine! The HD-TC8 shows that the Tooway transponder is being received and that the system is properly aligned. Fine-tuning can now begin; with a signal level of 5.5 dB, reception is just barely over the threshold - in other words, there's very little reserve.



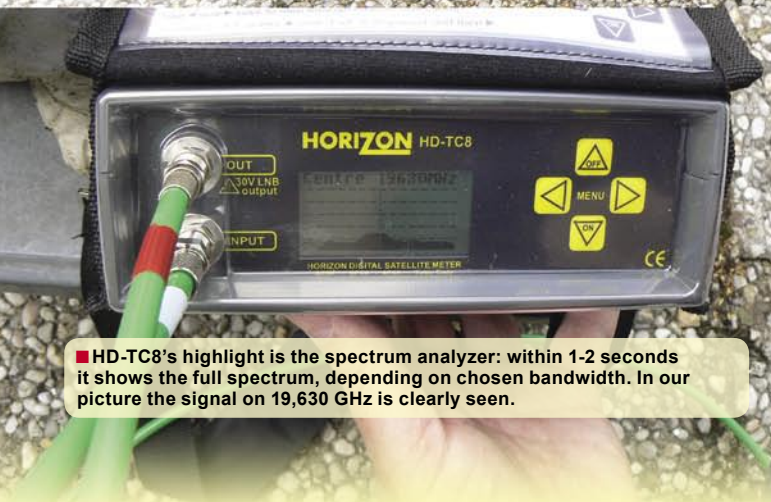
■ Much better! After fine tuning the signal level rises to 6.3 dB. This is where the HD-TC8 proves itself: the fast response time of the analyzer permits finding the optimum antenna position. Only in this way can the best possible reception be realized.



■ Are the horizontal transponders really not receivable? Since the LNB can only receive horizontally polarized signals, the entire antenna assembly must be rotated 90°.

Now with the antenna positioned properly we used the HD-TC8 to try and find one of the two horizontal transponders. But, no luck, Amsterdam is simply not in range of the horizontal beams. These beams are for France and Italy and are too far away for Amsterdam and thus too weak.

■ The transmitter power line is not connected, because here the satellite modem is used to provide the 30 Volts required to power the Tooway assembly. Below the HD-TC8 is supplying the 30 Volts directly to Tooway ODU which makes installations easier as there is no need to run cables before fitting the antenna.



■ HD-TC8's highlight is the spectrum analyzer: within 1-2 seconds it shows the full spectrum, depending on chosen bandwidth. In our picture the signal on 19,630 GHz is clearly seen.



■ Different spectrum spans can be selected from within the spectrum display mode. 1200, 960, 480, 240 and 120 MHz steps are available.

Something new is happening at Sea Tel®



NEW! USAT24.
Ultra-small 60cm
broadband.

NEW! 2406.
Commercial quality
60cm broadband.

NEW! ST14.
New design.
Better performance.

Same company. Advanced technology. Strengthened by Cobham.

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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This is where specialty satellite signal analyzer maker HORIZON's new model HD-TC8 comes in. The Tooway LNB/Amplifier assembly requires 30 Volts to operate correctly and the HD-TC8 satellite meter's onboard power supply can provide this power directly without the need for connection to the satellite modem, making installation much easier. Actually, HORIZON's HD-TC8 is a satellite meter which can lock directly on to the turbo coded Tooway receive path carrier.

Internet-via-Satellite services primarily use the Ka-band frequency range from 18.2 to 20.05 GHz. This range provides plenty of bandwidth. Unfortunately rain tends to interfere more at this higher frequency range. For this reason, these types of services are typically installed in temperate climate zones such as in North America (e.g. Wildblue) or in Europe (e.g. Tooway).

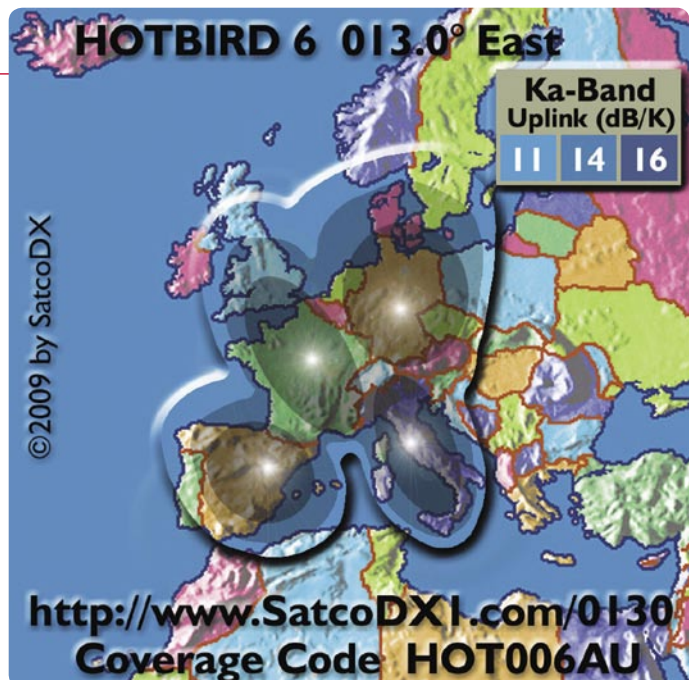
The HD-TC8 test sample that TELE- satellite received was set up for Tooway. While the downlink portion of the Tooway system covers all of Europe, the uplink side is limited to four very narrow beams. Each uplink beam has its own transponder, two with vertical polarization and two with horizontal polarization.

The HD-TC8 acquires a lock on the downlink beam available in your region. The 30 Volts required is supplied to the assembly but the Transmitter is not enabled until the installation has been completed by connecting the satellite modem. Once a lock has been obtained on the required Ka-Band service, and on connecting the Transmission line on the satellite modem it will configure its narrow bandwidth return path carrier and establish a handshake with



■ How well does the Ka-band deal with rain? We used a garden watering can to simulate a rain cloud; the signal level dropped to 4.8 dB - too low for interference-free reception.

Note that in this photo the satellite modem was used to provide the 30 Volts required to power the Tooway ODU, the HD-TC8 has 30 Volts available directly from the output connector.



■ Ka-band uplink footprint for the Tooway system on HOTBIRD at 13° east. Tooway systems need to be installed within one of these four footprints in order to be able to uplink to the HOTBIRD satellite.

the Internet Service Provider, after which the Internet-via-satellite service is authorized by the provider (in this instance Tooway) and the end user then has access to Internet and Email services.

In our case it is the vertically polarized 19.630 GHz transponder. This entry is made in the HD-TC8 as the local oscillator frequency (LOF) which for us is 1378. The remaining three frequencies are 1471, 1178 and 1271; pre-programmed by HORIZON for the alignment of Tooway systems in other locations. The four footprints overlap each other only in a few locations; in most cases only one transponder can be activated.

Everyday Use

Once the proper transponder has been entered into the HD-TC8, the alignment of the receive/transmit antenna is handled the same way as with a standard reception system: the azimuth and elevation of the antenna are adjusted until the display on the HD-TC8 displays "FOUND". Signal level and quality are also displayed.

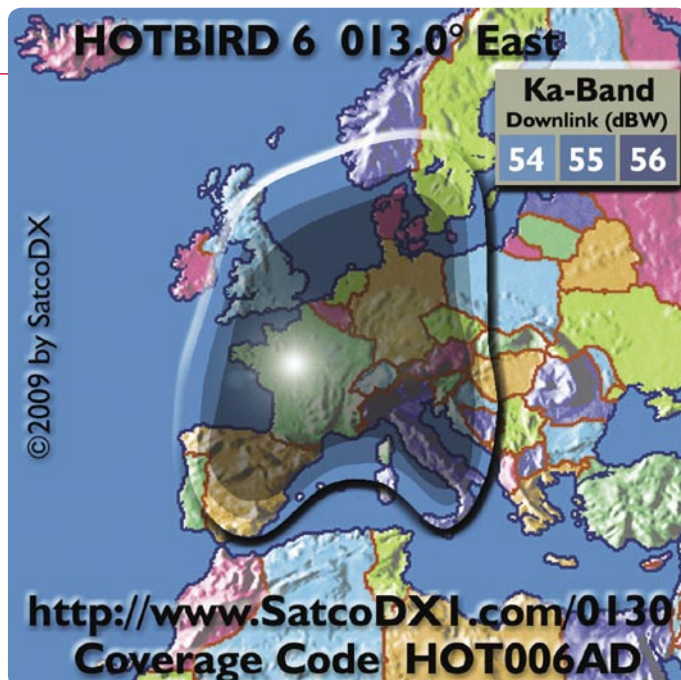
In our case at the edge of the footprint, we were only

about 1 dB over the reception threshold. Turning the antenna revealed that at 5 dB reception was no longer possible. We were only able to adjust the antenna to a maximum of 6.3 dB. The HD-TC8 is able to indicate what the reception reserve is.

We were also impressed by the long life of the built-in rechargeable battery: we were able to operate the HD-TC8 for six hours straight and it never showed any signs of fatigue.

Once the primary job of aligning the Tooway system's antenna was taken care of, we wanted to know what else we could find under the HD-TC8's hood. First we wanted to know if it could receive all of the Ka-band frequencies and how does that work?

The HD-TC8 comes with a fantastic feature: a spectrum analyzer display! In just a few seconds the display shows the entire frequency range making it possible to instantly see where any transmissions happen to be. The spectrum can be set to very wide (1200 MHz) through five steps to very narrow (120 MHz). The wide setting is used to determine if a transmission even



■ Ka-band downlink footprint for the Tooway system on HOTBIRD at 13° east.

exists while the narrower settings will identify exactly where the transmission can be found.

The four control buttons on the HORIZON HD-TC8 provide logical and simple menu access. To determine the upper and lower Ka-band limits of the HORIZON, a simple push of a button is all that's necessary to find out that the lower limit is 18.850 GHz with 20.050 GHz being the upper limit. It's a beautiful thing: finally transmissions in the Ka-band can be found - all in just a few minutes.

But what about the standard Ku-band? Can the HD-TC8 handle that? But of course! The HD-TC8 is really an upgrade of HORIZON's successful HDSM USB Plus model. It even looks the same. Just like the USB Plus, the HD-TC8 can also be connected to a PC via the USB interface so

that satellite and transponder data can be edited. The latest satellite and transponder data can be downloaded from HORIZON's web site www.horizononghe.com. This data would of course include additional Internet-via-Satellite services that work using other transponder frequencies.

Conclusion

For a satellite installer looking to upgrade to equipment that won't become obsolete too quickly, the HD-TC8 from HORIZON would be a good choice since Ka-band Internet-via-Satellite services are becoming increasingly popular.

To be able to properly set up a receive/transmit system, a proper signal analyzer is necessary. The HD-TC8 lets you do both: you can use it to align a normal Ku-band system and at the same time perfectly adjust a Ka-band system with uplink transmitter. It's really two analyzers in one!

Expert Opinion

+

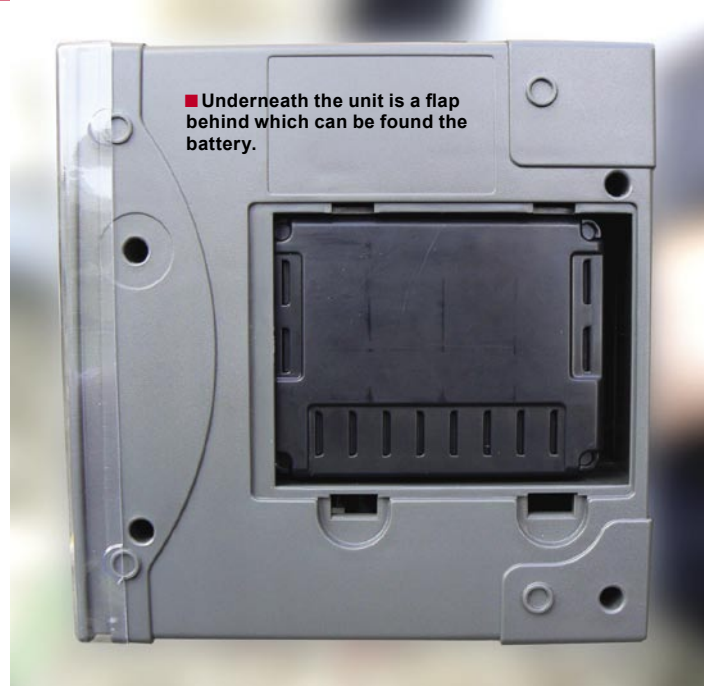
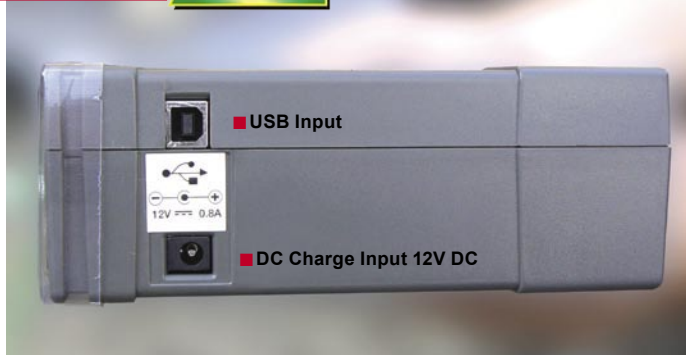
Optimized use for Ka-band reception
Fast response spectrum analyzer display
Extremely long battery time

-

Display hard to see in bright sunshine



Ron Ebersson
TELE-satellite
Test Center
Netherlands



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	HORIZON HD-TC8
Function	Satellite Meter optimized for Ka-Band

Comparison of the HORIZON HDSM USB Plus with the HORIZON HD-TC8



HDSM USB Plus



HD-TC8

Compatibility	DVB-S, DSS (DirecTV)	DVB-S, DSS, Turbo Code (AMC), Digicipher II
Modulation standard	QPSK	BPSK, QPSK, 8PSK, 16QAM
Compatible network	DirecTV legacy, DishNetwork, DVB-S other (e.g. VSAT)	DirecTV legacy, DishNetwork, DVB-S other (e.g. VSAT) also Tooway / Wildblue, Starchoice etc
Compatible RF band	L-band, C, Ku, Ka (with appropriate LNB/f)	L-band, C, Ku, Ka (with appropriate LNB/f)
Frequency range	950 to 2150MHz	950 to 2150MHz
Input signal range	-25dBm to -65dBm	-10dBm to -70dBm, with over- and under-range indication
RF input connector	Panel male F connector, replaceable barrel (from March '09)	Panel male F connector, replaceable female F-F barrel
Secondary connector	As above, looped-through RF output, DC blocked	As above, 30V dedicated output for WildBlue / Tooway etc.
Supported symbol rate	1Msps to 45Msps	1Msps to 45Msps, up to 30Mbaud data rate.
Signalling compatibility	DiSEqC 1.1, 22kHz	DiSEqC 1.1 to 2.0, 22kHz multi-standard
DC power output to LNB	13V, 18V at up to 550mA, or DC off	13V, 18V, 21V at up to 750mA, 30V at up to 250mA
Power capability	Standard or Universal LNB/f, some VSAT LNBs	As HDSM, also VSAT assemblies such as Tooway and Wildblue that require a 30 Volt supply
Data in/out connector	USB type B socket (USB 2.0)	USB type B socket (USB 2.0)
Data format	Proprietary transponder data, CSV-formatted output	Proprietary transponder data, CSV-formatted output
Data source	Horizon HDSM standard website	Horizon HD-TC8 website
Data logging destination	User spreadsheet	User spreadsheet
AC input power socket	"Figure 8" shrouded, male contacts	"Figure 8" shrouded, male contacts
AC input range	100VAC - 240VAC, 50/60Hz	100VAC - 240VAC, 50/60Hz
DC input power socket	2.1mm / 5.5mm DC power socket, centre positive	2.1mm / 5.5mm DC power socket, centre positive
DC input range	11.5VDC to 14.0VDC (vehicle lighter socket)	11.5VDC to 14.0VDC (vehicle lighter socket)
Battery rating	7.2V nominal, 3300mAh, NiMH, 6 cells, fused	14.8V nominal, 2400mAh, Li-Po, 4 cells, fully autonomous
Battery charging	4 hours to 90% approx., 8 hours to full charge	4 hours to 90% approx., 8 hours to full charge
Battery life per charge	6 hours continuous in average use	6 hours continuous in average use
RF level indication	Bargraph, with numeric values in dBuV or linear value	Bargraph, with numeric values in dBuV or expanded linear
Lock indication	"Found" displayed on screen, audible lock indicator	"Found" displayed on screen, audible lock indicator
Quality indication	Bargraph (inverse BER), MER (carrier-noise)	Bargraph and MER (carrier-noise) in dB or expanded linear
Bit error indication	Numeric, pre- and post-FEC	No BER indication (Post-FEC reading is meaningless)
I and Q indication	QPSK constellation diagram	QPSK, 8PSK, 16QAM constellation diagram
Swept frequency display	Variable-span spectrum diagram, with level boost	Variable-span spectrum diagram, with level boost
Transponder capacity	64 transponders maximum, plus 1 custom	Up to 4092 transponders, including multiple customs
Meter diagnostics	Internal main power rail, battery state, I2C	Multiple rails, battery state, I2C
External diagnostics	LNB or cable open/short circuit, faulty LNB	LNB or cable open/short circuit, faulty LNB, LNB voltage
Pointing aid	Fast, positive satellite ID	Fast, positive satellite ID, ZIP/post code lookup table
Dual TP mode available	yes	yes
Pass/fail	histogram and pass/fail indicator for Single Cable Routers	histogram and pass/fail indicator for Single Cable Routers

User Comment



■ Rini de Weijze on the HD-TC8 from HORIZON:
 "I love the HD-TC8 because of its spectrum analyzer.
 Aside from that, it's also a very lightweight, handy tool
 that is easy to use."



NanoXX 9500HD / 9800HD

HDTV und SDTV Satelliten Empfang in Premium Qualität

- + Brillantes superscharfes Bild sowohl bei MPEG-4 (HDTV) als auch bei MPEG-2 Sendungen (SDTV)
- + Hervorragendes Upscaling von PAL auf 720p oder 1080i über HDMI speziell für HD-Ready & Full-HD Flachbildschirme
- + Hochauflösende OnScreen Menü Graphik speziell für HD-Ready & Full-HD Flachbildschirme
- + USB2.0 mit PVR Funktion für Digitale Videoaufnahmen auf externe USB2.0 Festplatten oder USB Memory Sticks
- + Zeitgleich 2 Programme aufnehmen und ein weiteres Programm ansehen auch mit Timeshift. Mit dem 9500HD (1 Tuner) nur Programme desselben Transponders und mit dem 9800HD (2 Tuner) beliebige Programme, wenn Sie über 2 unabhängige Sat-Anschlüsse verfügen (Twin-LNB, 2 Koaxial-Leitungen). Lassen Sie sich im Fachhandel beraten!
- + Netzwerkanschluss für Firmware Upgrades über Internet, FTP File Transfer zum Austauschen von Dateien zwischen einer PC-Festplatte und eines am NanoXX 9500/9800HD angeschlossenen USB Speichers
- + Videostreaming Server-Client zum Streamen von Videoaufzeichnungen von der USB Festplatte eines NanoXX auf einen zweiten NanoXX im Netzwerk
- + Integrierter Mediaplayer: Wiedergabe von AVI (XVID), hochaufgelöste JPG Fotos und MP3 Dateien am Fernseher
- + 2x Common Interface Slot und 1x Kartenleser für Conax, X-Crypt, DG-Crypt, Firecrypt und Crypton
- + AV-Anschlüsse: HDMI Ver. 1.2, S-VHS und YPbPr (Beamer), S/PDIF optisch & koaxial, AV-Cinch, 9800HD: zusätzlich eSATA

NanoXX 9500HD-C

HDTV und SDTV Kabel Empfang in Premium Qualität

- + Brillantes superscharfes Bild sowohl bei MPEG-4 (HDTV) als auch bei MPEG-2 Sendungen (SDTV, PAL)
- + Identische Spezifikationen wie beim NanoXX 9500HD, jedoch mit Kabel-Tuner (DVB-C)

Produkt Informationen @ YouTube

<http://www.nanoxx.info>
<http://www.youtube.com/Nanoxxdotinfo>

NanoXX Produkte

NanoXX 9300C (Kabel Receiver)
 NanoXX 9400 (Satelliten Receiver)
 NanoXX 9500HD (HDTV USB-PVR Sat.-Receiver)
 NanoXX 9500HD-C (HDTV USB-PVR Kabel-Rec.)
 NanoXX 9600IP (IP-PVR Sat.-Receiver)
 NanoXX 9800HD (Twin-HDTV USB-PVR Sat.-Rec.)

Software und FAQ

Firmware Upgrades & Tools:
<http://www.nanoxx.info/download>
 Fragen und Antworten (FAQ):
<http://www.nanoxx.info/faq>

Vertrieb

Importeur Deutschland

MatriXX Systems GmbH
 Industriestr. 2
 D - 65835 Liederbach
<http://www.matrixxsystems.de>
 Händleranfragen erwünscht!

Importeur Schweiz

Telanor AG
 Bachstr. 42
 CH - 4654 Lostorf
<http://www.telanor.ch>
 Händleranfragen erwünscht!

Importeur Österreich

Pötzelsberger Electronic GesmbH
 Münchner Bundesstraße 121a
 A - 5020 Salzburg
<http://www.p-sat.at>
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 Blindscan Receiver - für DKE ideal

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Get the Power!
NANOXX

Technomate TM-1's Colorful Family of Single LNBs

We all know that Technomate is one of the manufacturers of classy digital satellite and terrestrial receivers. Recently, Technomate have decided to expand their products lines with Ku-Band LNBs. The choice is really wide: from the single models to octo and even the monoblocks. Are they all as good as the receivers they are supposed to match? Their noise figures (0.2 dB and 0.1 dB) are very promising but we know that only a test with real world signals can prove the value of an LNB. We started with the universal single models. We will present the other models in separate reports.

Technomate's single LNBs are designated as TM-1. We have got 5 different versions: TM-1 0.2 dB (black color), TM-1 0.2 dB (grey color), TM-1 Super 0.2 dB (blue color), TM-1 Super High Gain (black & gold color) and TM-1 Super High Gain (gold color). The last 2 ones except for having better noise figure, had their F connectors plated with gold. Short form data sheets we found in the packages contained only the specification of the basic TM-1 model. Our test was to reveal what exactly the difference between the versions was.



Technomate



Difference from your competitors



Colorful Mesh Dish as you need

- Antenna Dish size : 4.5', 5.0', 5.5', 6.0', 7.0', 7.5', 10' ➡ As you need
- Made from Aluminum material, ➡ Anti-Rusted
- Polyester Powder Colour Coating, ➡ Longer time for Outdoor Using
- Selectable in Black, Red, Pink, Orange, Yellow, Violet, Blue, Silver
- Available for Fixed mount type and Movable mount type
- Special Discount prices for Big Volume and our dealers
- Quality Assurance by Thai Export Promotion Department (Thailand Brand)



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Integrated LNB/C&KU Band
with DiSEqC Switch
LNB CKU-01 Model

The noise figures printed on TM-1 packages promise very good performance. However, it is not a secret that some manufacturers over-specify their products to gain a market advantage over competition. Did Technomate follow this trend? Or perhaps their products are really the state of the art LNBs? We decided to submit them to a really hard test. We took probably the best LNB we had - the one that had outperformed many other 0.3 dB and 0.2 dB models in our previous tests. At the same time this reference LNB had a high gain (high signal level at the output). Could TM-1's match it?

We chose the Hotbird satellite fleet on 13° E as our signal source. That's because their transponders are spread all over the whole Ku-Band in both polarizations. The noise performance of the 0.2 dB versions of TM-1's is shown in figure 1 and 2. TM-1 0.2 dB Super model (the blue one) is surprisingly good. It defeated our reference device in almost every point of the Ku-Band! The

grey model was at par being sometimes above and sometimes below our reference LNB. Only the black TM-1 looked slightly worse.

The higher the gain of the LNB the higher its output power should be for the given signal. The results for the 0.2 dB TM-1 versions are shown in figures 3 and 4.

And again the blue model (Super TM-1) was the leader. Our reference LNB was no match for it. The basic TM-1 models had lower gain but still sufficient enough for the regular reception systems (except for the ones using really long cables or a lot of distribution devices). Super TM-1 was really a top performer.

Having so perfect results with 0.2 dB Super TM-1, we doubted if the 0.1 dB Super High Gain version could deliver anything better. As you can see in figures 5 and 6, the noise performance of both models was better than our reference. However, if you compare them with the Super TM-1 (the blue one)

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presented in figures 1 and 2, they are practically the same.

And what about the gain? The output power related directly to the gain is presented in figure 7 and 8. Also here, the 0.1 dB Super High Gain TM-1's were better than our reference. The golden model was visibly better than the black & gold one but only slightly better than the 0.2 dB Super TM-1.

If we were to order the TM-1 versions starting from the best one, it would be:

1. TM-1 Super High Gain 0.1 dB (gold color)

2. TM-1 Super 0.2 dB (blue color)

3. TM-1 Super High Gain 0.1 dB (black and gold color)

4. TM-1 0.2 dB (grey color)

5. TM-1 0.2 dB (black color)

However keep in mind that while the golden model is an absolute top performer and probably the best LNB we ever tested, even the black one version is in the high class among the modern today's devices.

You won't regret the money if you buy one of them!



Technomate

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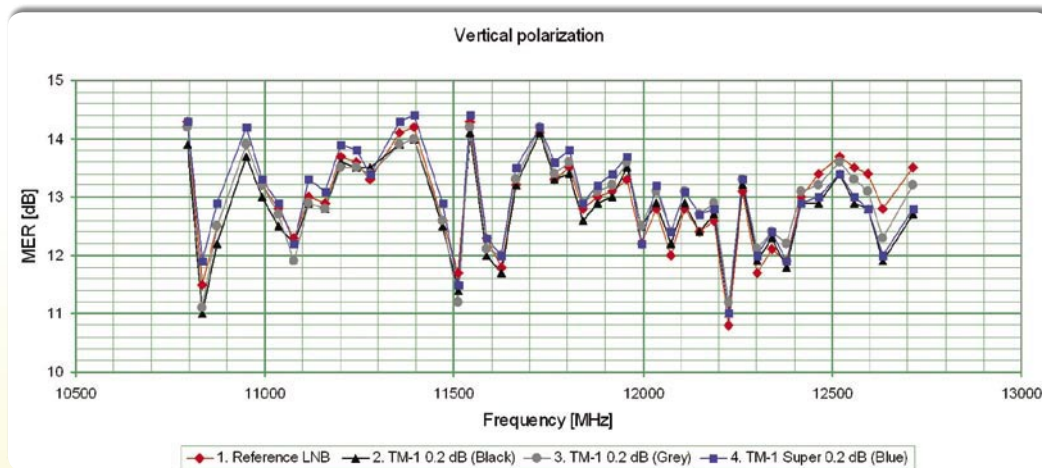


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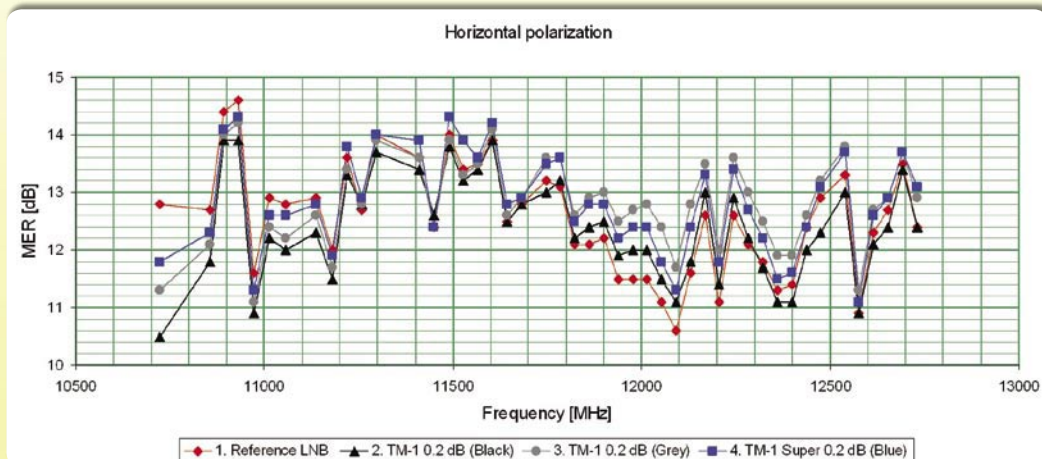
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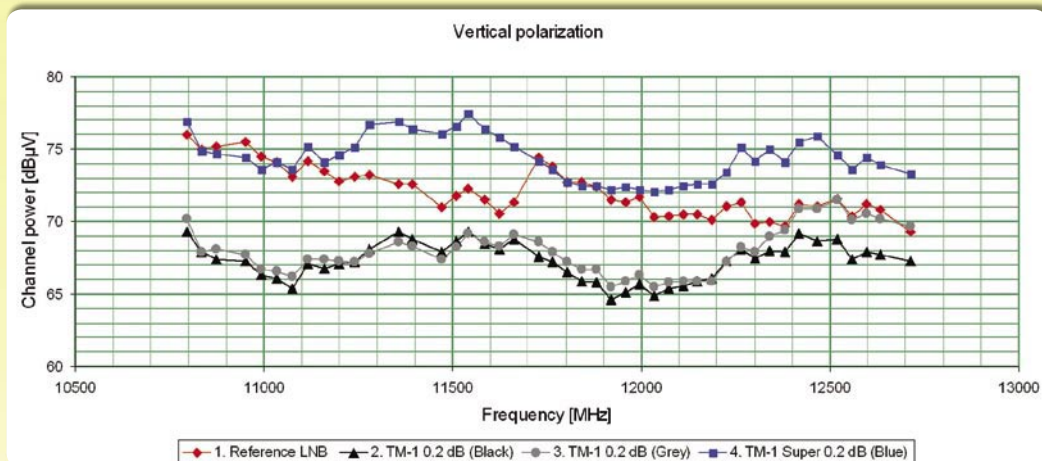
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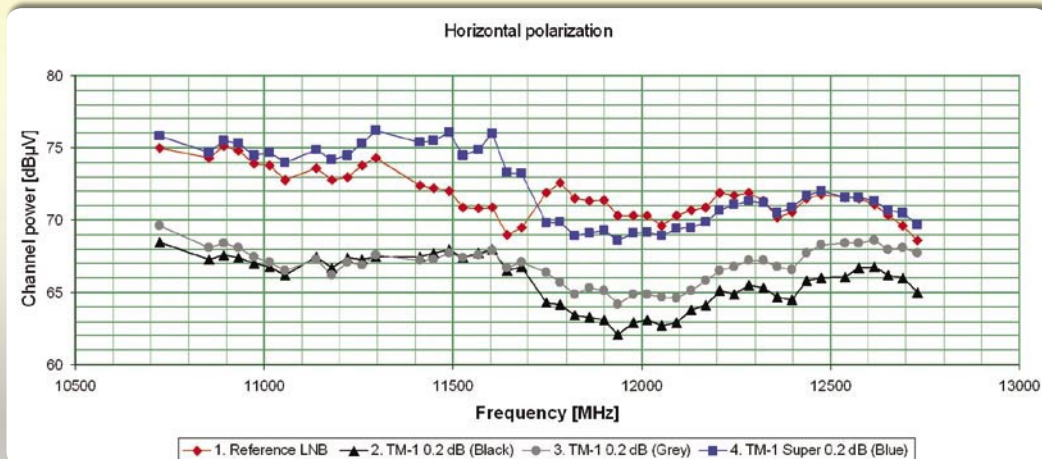
■ Fig. 1. Noise performance of the 0.2 dB models – vertical polarization.



■ Fig. 2. Noise performance of the 0.2 dB models – horizontal polarization.



■ Fig. 3. Output power of the 0.2 dB models – vertical polarization.



■ Fig. 4. Output power of the 0.2 dB models – horizontal polarization.



Expert Opinion

+

TM-1's are very high performance LNBs. They provide very

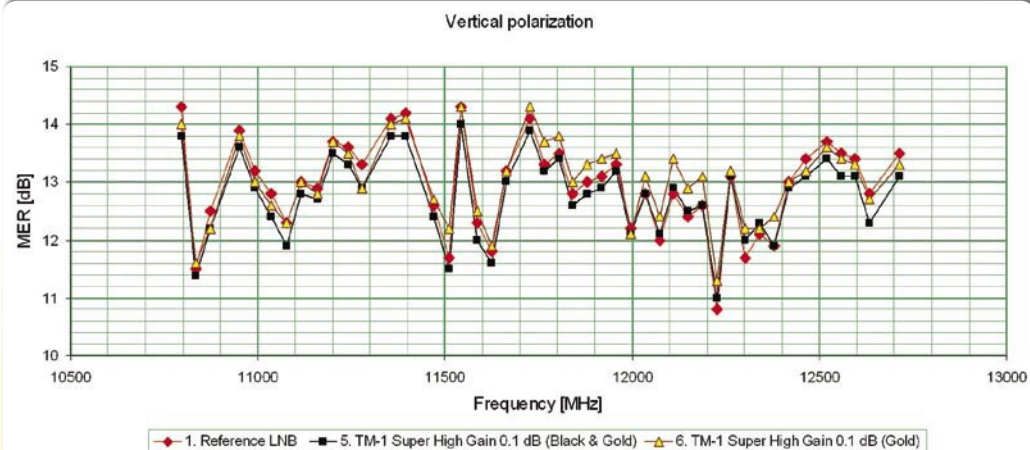
good C/N ratio what enables the user to receive weak transponders with high bad weather margin. The "Super High Gain" and "Super" versions additionally give high level of output signal what is important in those antenna installations in which long cables or signal distribution devices are used. Additionally, the "Super High Gain" devices have gold plated F connectors. This is an extra protection from the environmental factors – even after a long time the quality of the connection should not degrade due to oxidation. Of course, one should also take care of the F connector attached to the cable. A rubber sleeve is yet another protection for the connection.

Workmanship of all units is very good.

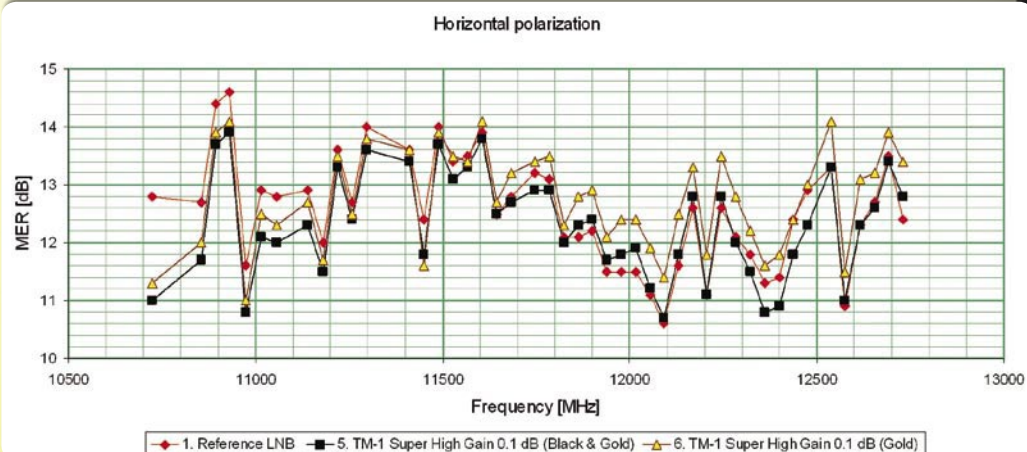


Jacek Pawlowski
TELE-satellite
Test Center
Poland

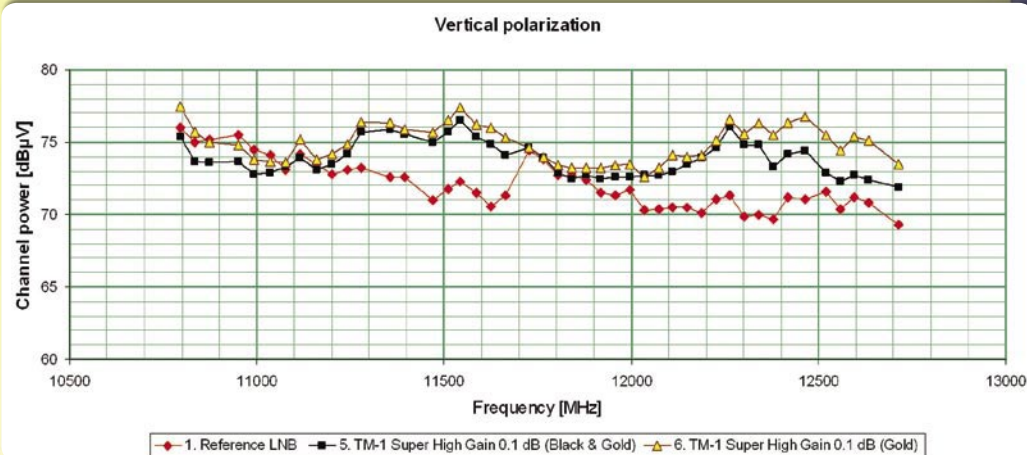
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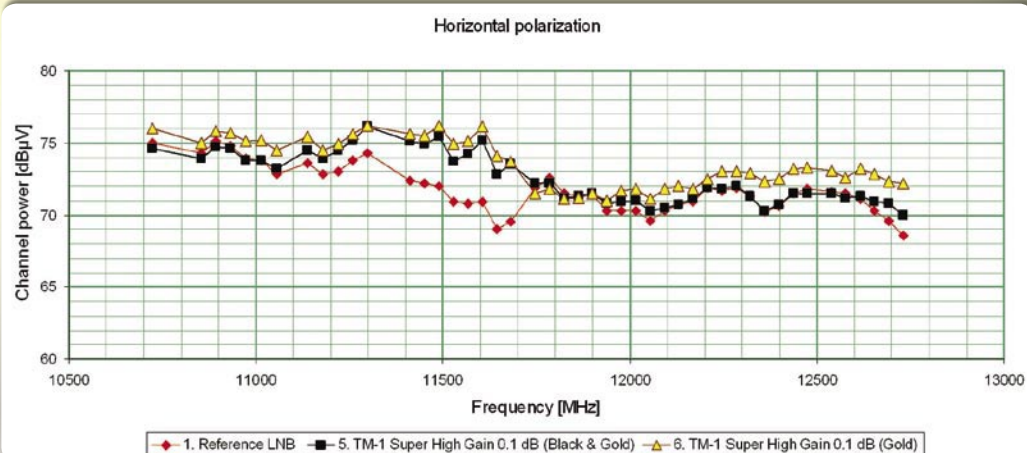
■ Fig. 5. Noise performance of the 0.1 dB models – vertical polarization.



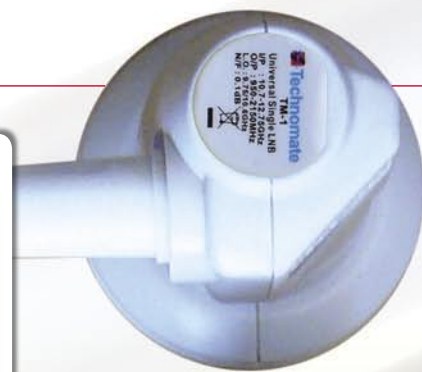
■ Fig. 6. Noise performance of the 0.1 dB models – horizontal polarization.



■ Fig. 7. Output power of the 0.1 dB models – vertical polarization.



■ Fig. 8. Output power of the 0.1 dB models – horizontal polarization.



Enigma Alternative Firmware for AB IPBox HD Family

Hot or Not?

Nickolas Ovsyadovskiy

Why would someone consider installing an alternative firmware to a satellite receiver nowadays? If we take a look in the past, some 10 or 15 years ago it really made sense. When mass public satellite television started to appear in Europe, satellite DXers and enthusiasts who wanted to see "almost everything", had not much choice in receivers. Being seriously limited with its original firmware, a receiver fully unlocked its potential only after being upgraded with an alternative image file. Although its interface couldn't be called user friendly, alternative firmware in the old days made possible the SCPC reception, PID entering and much more. It was a real revolution back then.

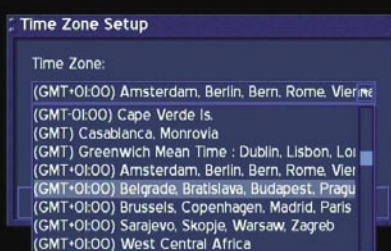
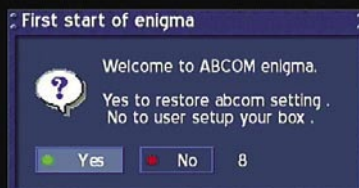
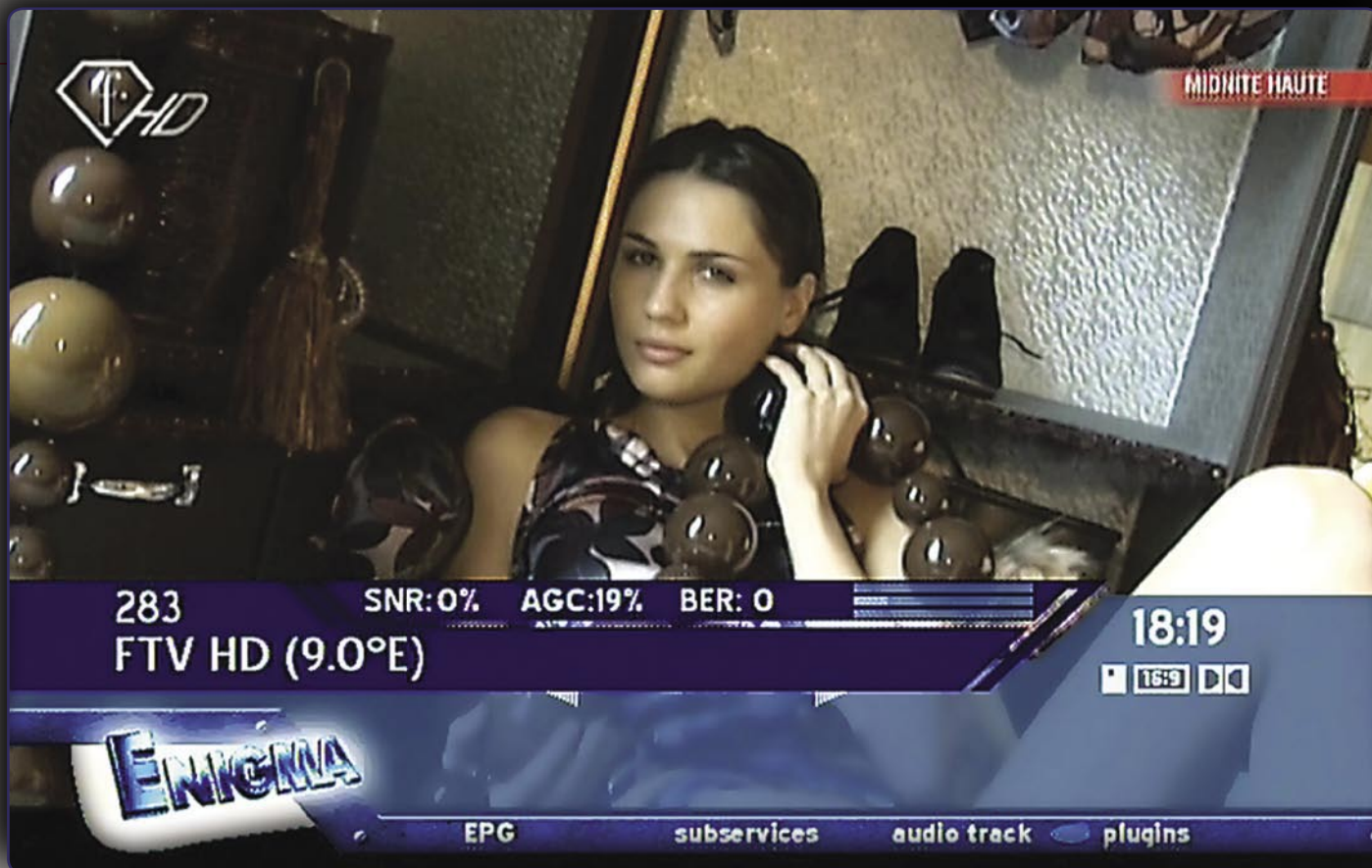
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But enough nostalgia, we live in the 21st century now. Not just digital satellite television, but also HDTV made its way into all parts of the world. There are lots and lots of different receivers available, which would perfectly fit the needs of almost any user already with its original firmware. So does it make sense to "think alternative" today?

Especially if we are talking about powerful Linux-based HD PVR receivers. ABCom, one of the market leaders in this segment, even with the original firmware could reach such flexibility, that hardly anything was left to be desired. And once we learned that even ABCom itself is releasing an alternative firmware for its IPBox HD receiver family, we decided to have a look and find out, what made them do so. We decided to carry out the tests on AB IPBox 910HD, although, Enigma1 is already available also for 91HD, 900HD and 9000HD as well.

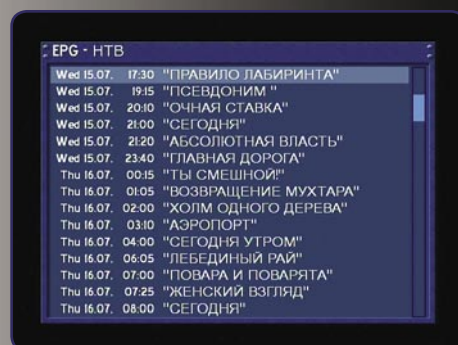
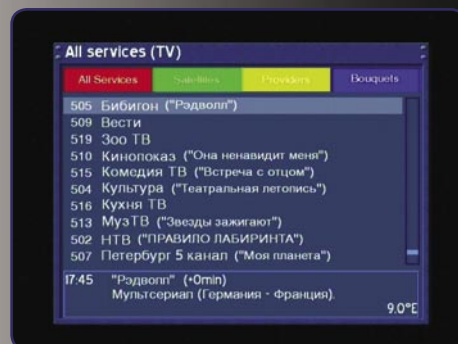
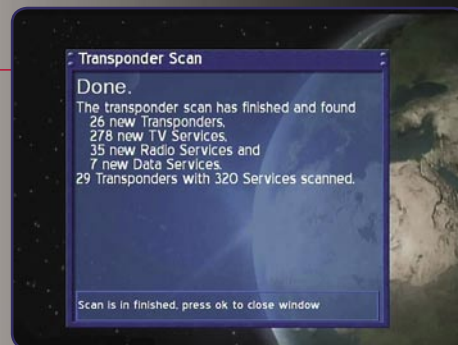
Installation

The most comfortable and worry-free way could be an Online Update, which normally would allow us to download the image right into the box's memory from the Internet, however, we didn't find Enigma1 in the list of available updates. So we had to download the image from <http://download.abcom.sk> and upload it via USB. To do so, first you need a USB

stick, which should be formatted in FAT or FAT32 just before the image file is transferred to it. Next step is to rename the image file to `usb_update.img`, and "safely" remove the USB stick from your PC, stopping it in the OS you use. Now plug it into your IPBox HD receiver, and for some time put the remote control away - now all the operations need to be done with the buttons on the front panel.

Simultaneously press "Standby" and "OK" buttons to reboot your box, then hold "Standby" and "Up" for a few seconds, releasing first the "Standby", then the "Up" button. The front display should clearly read "USB Upgrade" now, and if the receiver finds the `usb_update.img` file on the USB stick and no extra files were left there by the user, the process should start. In some cases it might say "ER 10", nothing is wrong, it could happen sometimes with earlier versions of bootloaders. Just try it couple of more times, and soon you'll have the job done. Upgrading this way is safe enough, just make sure that the power is not shut off until the new image file successfully lands in the box's memory and it's front display says "Done".

Following an upgrade, you'll first see "Booting", then "Loading", then "Load Enigma HD". Then just a black screen.



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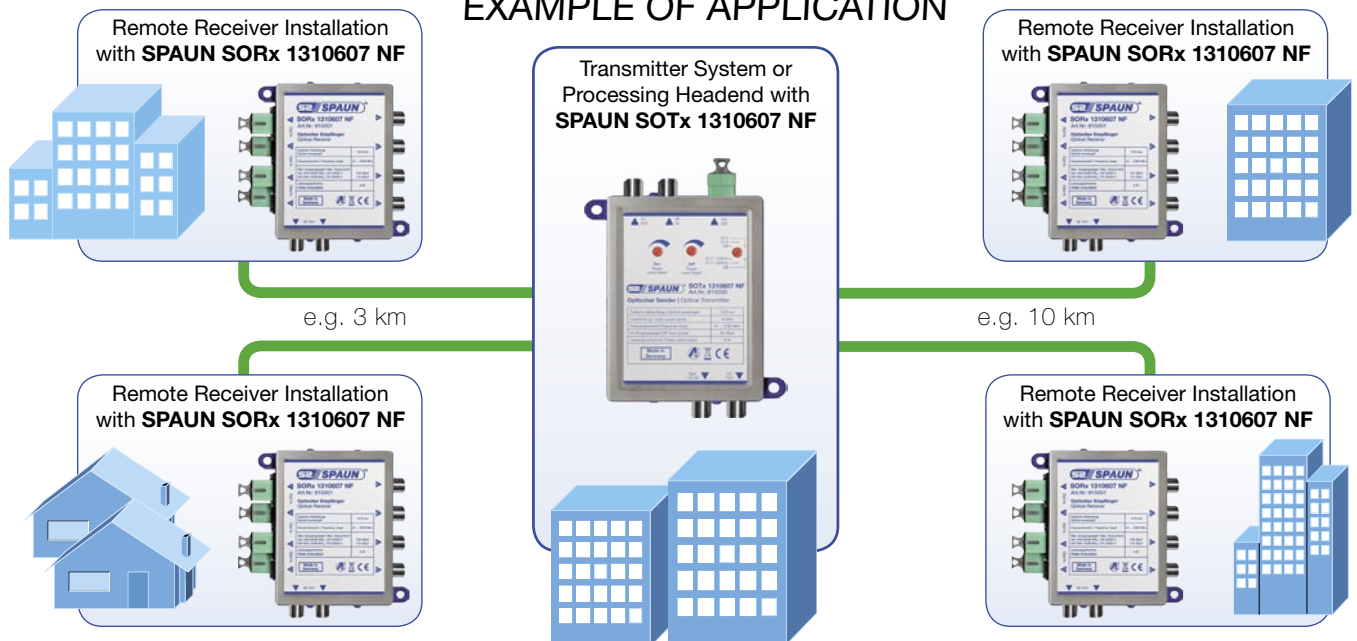
Optical Receiver SORx1310607 NF

- Typ. optical input sensitivity -12 dBm
- High output level
- Push Pull Technology

Optical Transmitter SOTx1310607 NF

- + 6 dBm optical output power
- Amplifier stage in Splitband Technology
- LNB-Remote Power (Quattro & QUAD)

EXAMPLE OF APPLICATION



Strange, in case of an official firmware a nice wizard would greet us here, offering to select various options. Enigma also has it, but in the current version it only appears after a "Factory Reset". Don't worry, just press "Menu" on the remote control, then choose "Setup" - "Expert Setup" - "Factory Reset", and you can configure the new firmware from zero right the way you'd like it. First the receiver asks you about the TV system (PAL, PAL60, Multinorm and NTSC are offered), then you can select the preferred OSD language (the on-screen menus are currently available in English, Czech, Danish, German, Greek, Spanish, Estonian, Finnish, French, Croatian, Hungarian, Icelandic, Italian, Dutch, Norwegian, Polish, Portuguese, Romanian, Russian, Slovakian, Slovenian, Serbian, Swedish and Turkish). Third step is the time zone, with lots of sample cities to select from the dropdown box. Next menu brings three icons to the screen, which pretty much speak for themselves - "No DiSEqC", "Simple" and "Complex". Yes, it's the right time to select the options of your multi-satellite system. And once you're done with it, nothing prevents you from starting the most interesting procedure at this point - the Channel Search.

Again, three options are offered here, "Automatic Transponder Scan", "Automatic Multisat Scan" and "Manual Scan". Unfortunately, the current beta version of Enigma1 is behind the official one here. Automatic Scan on a 100-transponder satellite position kept the receiver busy for a long 19 minutes and 30 seconds, storing 1052 TV and Radio channels.

Some work is surely still to be done here, as well as with adding new satellites and transponders to the Enigma's database.

The built-in list of satellites is more or less up-to-date for Europe, but if, for example, you plan to receive some Asian bird, like ABS-1 at 0750, the only way now to do this is to download the satellite/transponder list from the receiver to your PC and manually edit it. The OSD allows adding new satellites and transponders, but, unfortunately, once you exit the menu, even pressing "Save", all entered information is "forgotten". And since the official PCEditor does not support Enigma (as it's clearly stated in its readme file), the only choice is to use some text editor that would not ruin the Linux CR/LF in the downloaded file. Most of IPBox HD users have their receivers

connected to the Internet and know the box's IP number, if not, it's easy to find it out - go to Setup - Expert Setup - Communication Setup menu and make note of it, since, most likely, the receiver already automatically configured the connection. If for whatever reason it didn't happen, all the connection parameters can be entered manually in the same menu.

Open your favorite FTP client, then enter the IP address of your IPBox HD. Once prompted for username and password, enter root and ipbox respectively. Go to /var/etc directory and download satellites.xml file. First make a backup copy of it in case something goes wrong, then copy one of the existing satellites, changing the name, position and transponders to the ones you need. Note that





- iWire-IRE
- Ku-Band LNB
- C-Band LNB
- Multiswitch
- DiSEqC switch
- Satellite Finder
- Splitter
- TV Amplifier



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Mobile: +86-13823053562
E-mail: jason@boiingsat.com ■ sales@boiingsat.com
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all the frequency values are in Hz and all the symbol rates are in sps, which means three extra zeros compared to values available in SatcoDX satellite chart. Once all the changes are made, make sure there are no extra spaces, returns or letters, then save and upload the file right to where you got the original from. If you go to Setup - Service Searching - now, the new satellite becomes fully visible and available.

Probably this is the biggest problem with Enigma currently, which should be relatively easy to fix. And most European users would hardly notice it since their favorite birds are already there with quite-up-to-date transponder lists.

Enigma1 also has an Internet update function, which can be reached by accessing Setup - Expert Setup - Software Update - Internet Update menu. The updating process is as easy as with official firmware, and once the new image sees the light, it can be in the memory of your box within minutes, fixing old problems and bringing new features.

While we're still at the Installation stage, it's worth noticing that even Enigma itself can look totally different after just a few clicks. You can switch between several "skins", the menu itself can appear like a "wheel" which can be moved left and right by the cursor keys, or can be easily switched back to a more traditional look. Even the buttons on the remote control can be used for different purposes by selecting a different "Remote style". However, not to get too lost at first we would advise to stick to "Ipbox (Relook)" style at first, which copies almost all remote functions of the original firmware.

Everyday Use

If you've selected the above men-

tioned "Ipbox" remote control style in the menu, press "OK" to open the classic Enigma channel list. If you already had a chance to try out the Enigma firmware on earlier SD models of ABCom receivers, you would know that coloured buttons of the remote control play the key role here. For example, red button brings up all channels from all satellites in one list, green one first shows satellites as directories, you can open them one by one to find the channel you'd like to watch tonight. Yellow one forms the directories by providers, and the blue button opens the "Bouquets" mode, which actually means the favorite lists here. Differently from original firmware, channel list editing here could be reached by going to Setup - Service Organizing menu. And actually editing here only means the favorite lists, unfortunately, it's not possible to delete, move or rename channels in the main list. However, maintaining the favorite lists is absolutely easy - just select the "Add Services to bouquet" submenu, mark the needed channels with "OK" button and voila! You always have the needed channels in one place, without the need to endlessly browse through one of the main lists.

Channel list can be displayed in three different modes - channel names would come in one column, in three columns, or, in case of "bouquets", the left column becomes outlined, displaying the "directories", while the rest of the screen is filled with channel names. This way, reminding some popular file managers, channels from several different favorite lists can be quickly accessed, without the need to endlessly change screens and select different lists. Pretty convenient! Three channel list modes can be selected by repeatedly pressing the "check" ("v") button on the remote control.

Satellite DXers would really enjoy the

extended channel information screen, available at Information - Streaminfo menu. Channel name, provider, Video, Audio, PCR, PMT, Teletext PIDs, video format, Transponder Stream ID, Original Network ID, Service ID, Encryption systems, as well as transponder parameters are displayed here. Audio and video bitrates are available from the Bitrate Viewer plugin, accessible by clicking the Yellow button and selecting "Bitrate viewer". Pretty helpful to find out if the channel is really HD or just pretending to be one.

Double-click on the EPG button makes the "EPG Style" menu appear, with three options - Channel EPG, Multi EPG and EPG Search. The first one displays the EPG only for the currently selected channel, line-by-line. Multi EPG brings to the screen a grid with the current and neighbouring channels. The selection that you make (Channel EPG/Multi EPG) is remembered, and next time you single-click the EPG button, the chosen EPG type would be displayed. EPG search allows looking for a specific program either in the EPG of selected channel, or on all available channels, even "Genre" can be selected here. Another serious improvement! Although, it would be nice to make the text typing a bit more user-friendly, not just by pressing "up" or "down" in the typing field, but also in the SMS-style, using the numerical buttons to enter letters, for example.

Unfortunately, at the moment it's not possible to select specific programs for recording right in the EPG, this was mentioned in the release notes. However, manual recording timer programming is there, in the "Timer" menu. Start/stop times can easily be selected, and there is a link to EPG here that would help you to get the proper values for beginning/end of the show you'd like to record.



PVR

Our tests were carried out on AB IPBox 910HD with a built-in HDD. The file systems of original and Enigma1 firmware are not compatible with each other, so make sure you've backed up all the valuable recordings before switching to the new OS. Once the Setup-System Settings-Harddisk Setup menu is accessed, the receiver will offer you to format the HDD so it becomes accessible from Enigma. The process doesn't take too long and the experimenting spirit has no chance to disappear until it's completed.

Surely the good old red circle button starts the recording right away, and the files are stored properly, regardless if SD or HD channel is recorded. Fast forwarding/pausing still needs some work to be done, but the regular playback rises no questions. The recordings are easily accessed from the wonderful "File Mode" (Menu - File Mode), which might look simple, but from the usability viewpoint leaves the original firmware far behind. Indeed it looks like a computer's file system with different directories for photos, MP3s, PVR recordings and so on. Everything is so logically organized that you'll find the needed file within seconds. But the really hot thing here is the Internet streaming radio, which was also introduced in the latest original firmware versions. In case of Enigma1, there is no need to endlessly look around and edit endless files, just get the m3u file from your favorite station, and upload it via FTP to /media/mp3. Voila, the station immediately appears in the File Mode menu. Getting access to Internet music outside of your PC has never been so easy!

Description of the glorious "File Mode" would not be complete without mentioning the "Playlist", which stores all lately accessed recordings, files or Internet

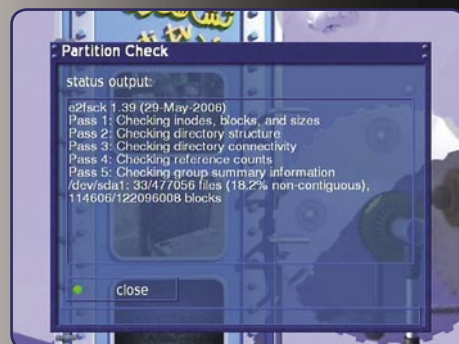
radiostations. That's right, the receivers are no longer storing just the list of lately accessed channels, but also of all other accessed multimedia. Since we are no longer talking about just a satellite receiver, but about a really powerful computer-like device - it's just a matter of installing the right firmware.

Web Interface

This is also something Enigma1 can be proud of. Open your favorite web browser and type in the same IP address you've used earlier to access the box via FTP. Being prompted for UserID/password, use root/ipbox again. Almost all receiver features can be addressed from here, even a virtual remote control can be brought to the PC's screen. Are your kids too busy watching cartoons instead of doing their homework? You can send a "message" to the IPBox that will appear right on their TV set! Extended stream, channel, EPG and teletext information is also available via Enigma1 Web Interface in one or two mouse clicks. PVR recording and playback can also be controlled, up-to-date information about remaining disk space is provided in the upper right part of the screen.

Conclusion

Although it's clear that the first beta version can't be perfect from all sides, Enigma1 is really a promising project. Computer geeks at heart and hardcore DXers would be absolutely happy with it, since it really erases the borders between a PC and a satellite receiver, unlocking the full power of the Linux-based box. And now we are not talking about some amateur project, but about the one fully supported by the manufacturer. It's definitely worth trying out, and hopefully easy-to-install updates will follow soon, making it even more flexible, powerful and reliable.



ab-com

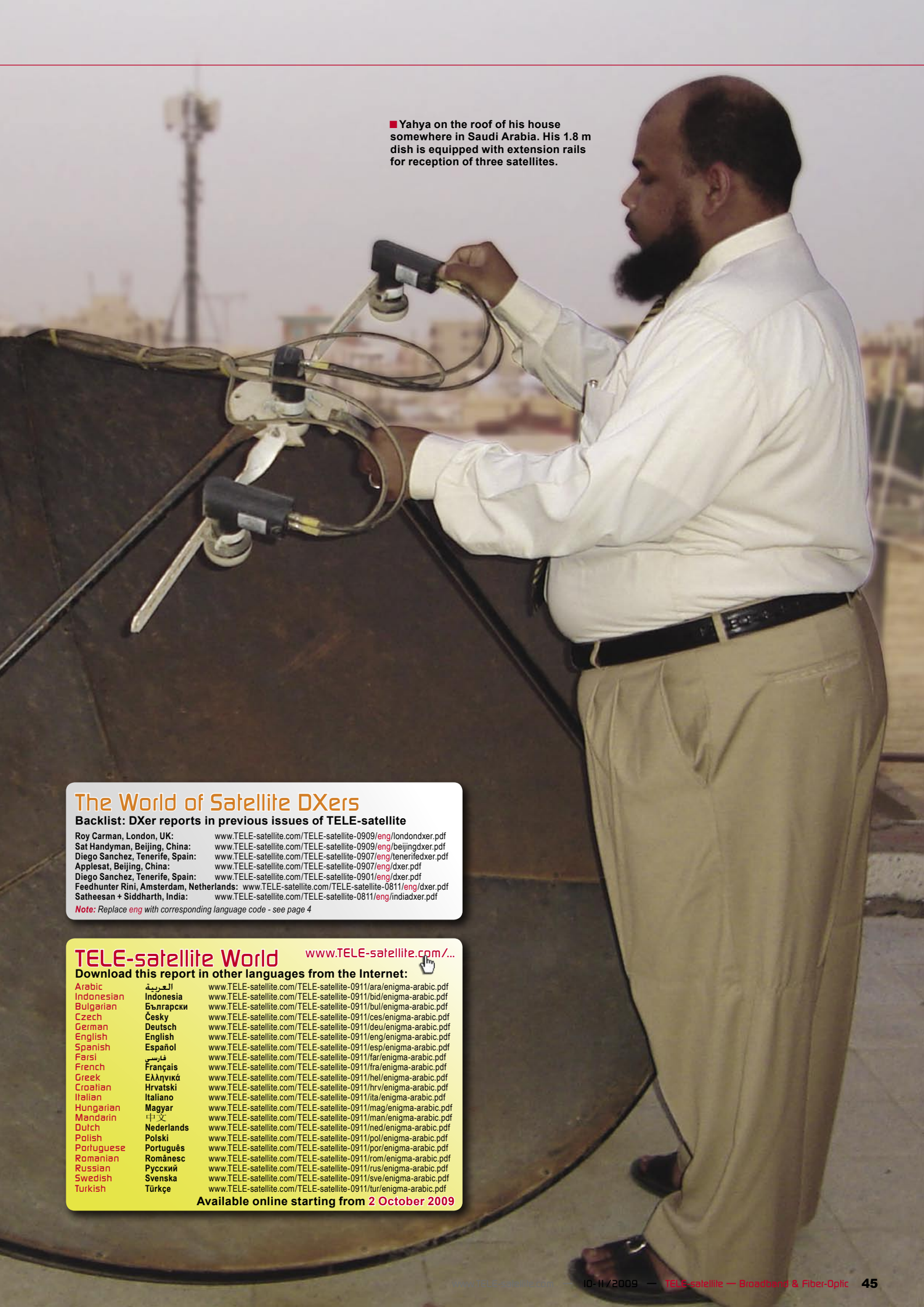
Enigma in Arabic – How does it work?

Paying a visit to Yahya in Saudi Arabia

When you switch on a receiver for the very first time you are usually asked which language you prefer. English, German or French are obvious choices, but what about Russian or... Arabic? From a technical point of view translating one language into another is no big deal. But while most languages are written from left to right, some – such as Arabic – start on the right and go left, and that's where the problems begin. We set off to meet Yahya and to learn how these problems can be solved. He lives somewhere in Saudi Arabia and would rather not have his last name published because what he does is considered a grey zone by some, even though it's not against the law.



■ Yahya presenting his three receivers.



■ Yahya on the roof of his house somewhere in Saudi Arabia. His 1.8 m dish is equipped with extension rails for reception of three satellites.

The World of Satellite DXers

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■ This is the result of Yahya's efforts: Screenshots showing menu items of the Enigma2 receiver software. All Arabic texts have been translated by Yahya.

Yahya is a huge fan of the almost endless possibilities of ABCom receivers and is currently working on translating the Enigma on-screen menu items into Arabic. "It's not as simple as it sounds, because the software has not been developed with Arabic peculiarities in mind," Yahya explains. All texts popping up on

screen are actually stored in a text file which is compiled into the final Enigma version by the responsible software engineer. Everything has to be compatible with each other, and this leaves no room for compromise. "In some cases we have to insert words character by character," Yahya continues, "which for Arabic means writing backward."

Yahya says 'we' for a reason – his friend Al-Alil lends him a hand and together they have set up the so-called 'Arabic Cubebox Team'. Since May 2009 they have even been operating their own website featuring the www.cubebox.org forum, which has turned into a playground for Arabic-speaking ABCom fans. "These receivers enjoy huge popularity in our part of the world," Yahya tells us, "and with our translation work we want to help increase ABCom customer satisfaction even further."

How come somebody like Yahya has decided to translate OSD menus in the first place? He tells us that "this is actually not my first translation project. Before that, I had already translated the 'PC Editor' channel editing software."

It all started as early as 1996, which was when Yahya got hands on his first satellite receiver. In 2002 he began to look at receiver software in-depth, mainly because of the very restrictive situation in Saudi Arabia.

Yahya explains that "most of Gulf countries do not allow the import of receivers which are equipped with an Ethernet

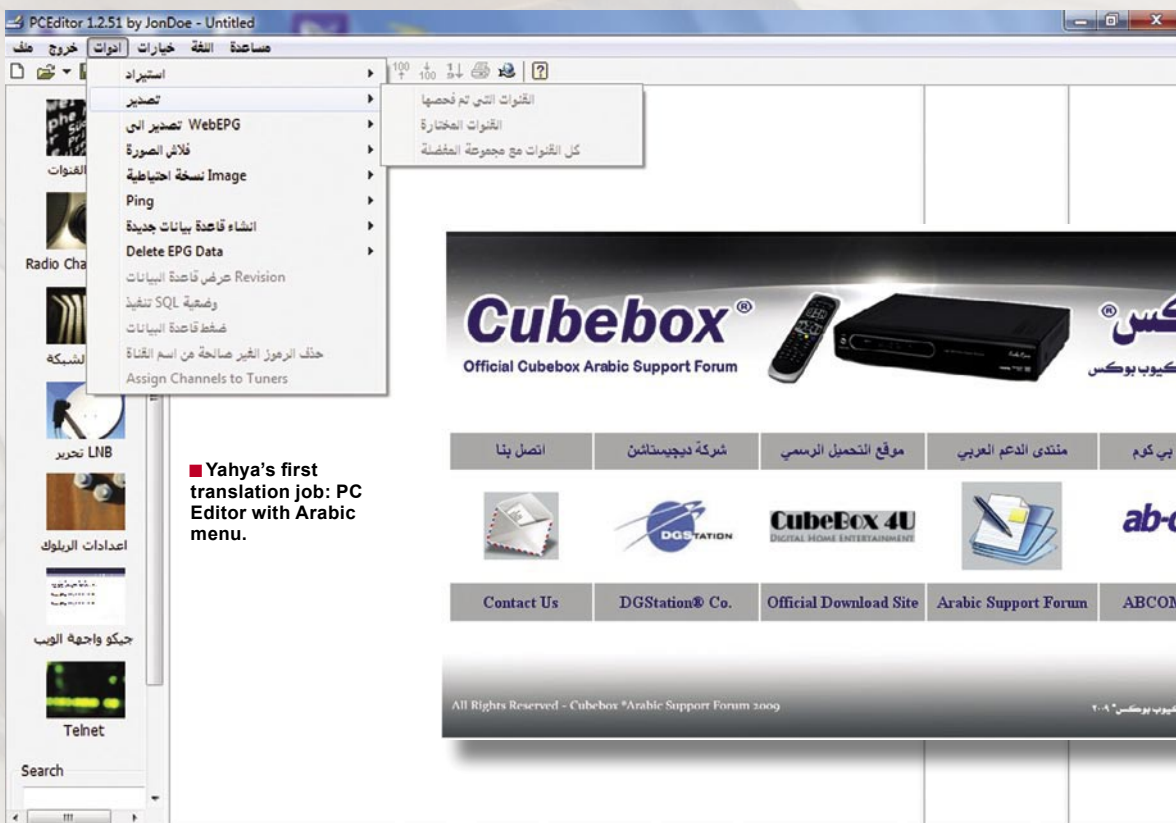
interface due to intellectual property rights. Authorities know the specific brands and makes and simply refuse to let them into the country."

But as always, obstacles exist to be overcome and receivers still enter Saudi Arabia on a small-scale with friends and acquaintances. Even receivers by other brands reach Saudi Arabia. Since 2003 Yahya has also been a loyal reader of the Arabic edition of TELE-satellite.

Not only is Yahya self-educated when it comes to software expertise, he also acquired the English language without any formal education. "I only went to normal school," he says with a remarkably authentic English pronunciation. "My first boss taught me English. He managed a glass factory and was originally from England." Today Yahya is employed by a marketing company and works as Services Administrator.

Which channels does a satellite expert watch when he's off duty? "Al Jazeera, Al Arabic, MBC and Moga are my favourites," Yahya reveals. Al Jazeera is an all-news channel from Qatar, Al Arabia a news channel based in Dubai, and MBC and Moga are a movie and a comedy channel from Egypt.

What are Yahya's plans for the future? "I want to create a forum for all Arabic-language satellite enthusiasts on my website, which I have designed all by myself. Plus I will keep helping with the translation of OSD texts into Arabic, above all for ABCom receivers."



■ Yahya's first translation job: PC Editor with Arabic menu.



■ Yahya's new website at www.cubebox.org



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The New SatCatcher DigiPro Excel-TV MK3

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with
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AWARD MAGAZINE
10-11/2009

**SATCATCHER
DIGIPRO EXCEL-TV MK3**
Easy and self-explanatory – a device for
laymen and pros alike

For as long as we can think back, our magazine's 'agony aunt' has always received tons of letters and mails from readers struggling to correctly align their satellite antennas. We were able to help solve hundreds of problems, but more recently the single biggest issue has been the increasing absence of analog channels, because being stuck with digital signals only can easily turn into every satellite enthusiast's nightmare.

Up until a few years ago almost every satellite had still transmitted at least some analog channels which could be used as points of reference when moving the antenna. You simply selected the appropriate channel on the receiver and slightly moved the antenna until the appropriate channel appeared on screen (faintly and full of video noise first, but improving after some antenna adjustment).

With digital receivers this is not possible any longer. Their signal strength indicators react too slowly when the selected transponder is finally found, and the level of signal strength and quality they display is frequently rather unreliable. Waiting for a channel to gradually appear on screen doesn't lead anywhere either, because with digital you either have a perfectly clear picture or none at all.

British company SatCatcher has quickly identified this market gap and launched an easy-to-use measuring device with excellent value for money, which helps aligning an existing antenna to any available satellite in next to no time at all. What's even more, this new device doesn't cost you a fortune. About a year ago we tested the SatCatcher DigiPro Excel-TV MK2 (TELE-satellite issue 08-09/2008). In the meantime the manufacturer has not rested on its laurels but rather implemented a number of user suggestions

and some design refinements, which resulted in the new model DigiPro Excel-TV MK3.

Nothing has changed on the outside. The SatCatcher DigiPro Excel-TV MK3 still comes with an extremely heavy-duty aluminium carrying case which is foam-coated on the inside. This makes sure the device is safe even when the going gets tough every once in a while. While we didn't try to find out how safe this protection really is we nonetheless are convinced the SatCatcher will not be damaged if dropped several meters, thanks to its carrying case.

The meter itself is covered with a robust cloth lining featuring openings for all connections as well as a flap for protecting the 128x64 pixel LCD display. We have special praise for the included sun visor which can easily be attached to the cloth cover of the SatCatcher and which is a godsend for reading the display even in direct sunlight.

In addition, the aluminium carrying case has room for the internal battery's charger, an adaptor cable for connecting the device to the on-board power supply in cars and trucks, a cable to connect the device to a PC as well as a serial->USB adapter in case your PC is not equipped with a serial interface. The driver required comes on CD, which also includes the in-

house SatCatcher software application. Our package also came with a comprehensive user manual in English, even though SatCatcher's global distribution partners will ship the device with instructions in the respective local languages to make sure each customer receives the manual in their own language.

As far as connections are concerned the DigiPro Excel-TV MK3 features a satellite IF input as well as a RCA video output on the top side and the power socket for the external power pack as well as an interface for PC connection on the bottom side.

The overall quality of workmanship leaves a very good impression, supported by small but very welcome details such as a warning message and automatic switch-off in case a short circuit occurs along the signal line to the LNB.

Everyday use

SatCatcher generally does not ship their satellite meter with a fully charged battery, which means that according to the manual the built-in battery needs to be charged for approximately five hours before use. The test model we were sent, however, was ready to go and we could begin our tests right away.

What strikes the eye at first sight is SatCatcher's effort to use as few buttons and switches as possible for the

DigiPro Excel-TV MK3, which is something we cannot praise highly enough. One part of this laudable strategy is using four function buttons right below the display. They are labelled F1 through F4 and can be used for a variety of operations, each of which is clearly described in the lowest display line right above each button. In addition, there are seven easily readable function keys in all the right places, as well as arrow keys and a number pad with buttons from 0 to 9.

As soon as you switch on the unit with the large and not-to-miss power button the meter displays the main menu from where the various sub-items are easy to access. Thanks to the wonderfully efficient function keys major items can also be accessed with a single touch of a button rather than by navigating through the display menu.

Even though the SatCatcher clearly is a measuring device for more sophisticated use, the manufacturer has still attempted to design a clear and self-explaining menu structure. The DigiPro Excel-TV MK3 has various operating modes, like signal measuring, spectrum analyser or TV display. The latter is a feature we usually only expect from top-of-the line products with a correspondingly high price. Thanks to the implementation of newly available innovative technology SatCatcher has managed to make this avail-

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able in the more affordable models as well.

Which satellite equipment is supported?

The SatCatcher DigiPro Excel-TV MK3 is a truly universal satellite meter which supports all DiSEqC protocols and can therefore be used in any possible reception set-up.

This means that a single antenna can be correctly aligned as easily as a complex DiSEqC 1.1 design with up to eight LNBs, a DiSEqC 1.2 or 1.3 (USALS) motorised antenna, a monoblock LNB with DiSEqC 1.0 switch or the somewhat more complicated SCR technology (Unicable). As the saying goes: the sky's the limit! Even the LOF can be entered manually so that all frequency bands and ranges from the C band all the way to the S band can be thrown at this neat device.

Aligning the antenna

At first we attached the meter to a standard 80cm offset antenna with a single LNB, which needed to be aligned towards ASTRA2 at 28.2° East.

The nicely up-to-date internal data memory of the DigiPro Excel-TV MK3 includes all satellite positions between 45° East and 34.5° West so that it is easy to find the corresponding entry on the memory list. Incidentally, SatCatcher even provides a pre-programmed list of global transponder data which features information for positions outside the range specified above. Alternatively, it is always an option

to manually enter a transponder of ASTRA2 at 28.2° East, but why bother if the DigiPro Excel-TV MK3 lets you do it the easy way?

Speaking of helping hands, we should like to emphasise that the SatCatcher's pre-stored list features individual parameters for various polarisation and sometimes even for different satellites sharing the same orbital position.

This is a very convenient feature, considering that individual co-positioned satellites may have dramatically different footprints and consequently might be unavailable at certain locations. Just take the classic example of ASTRA2D at 28.8 East in Central Europe. While its signals come in perfectly with only a 60cm dish in Great Britain and 90 to 120 cm are sufficient for reception in France and Germany, a huge 2.4 meter antenna would be required to collect signals at the TELE-satellite test center in Vienna/Austria.

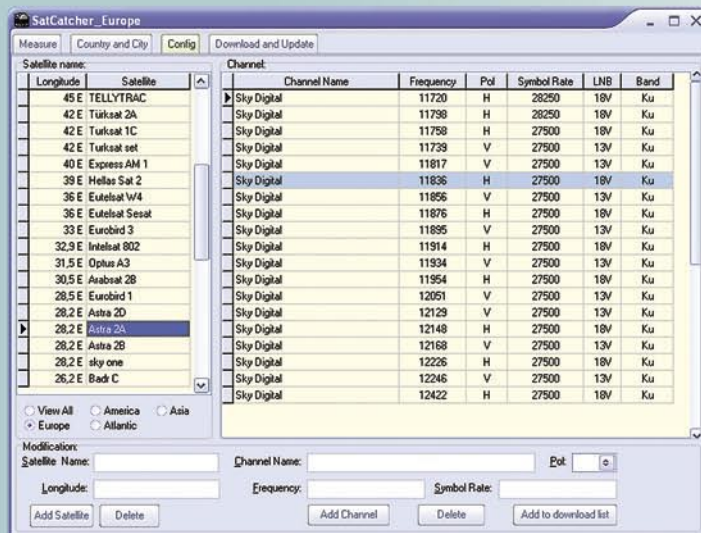
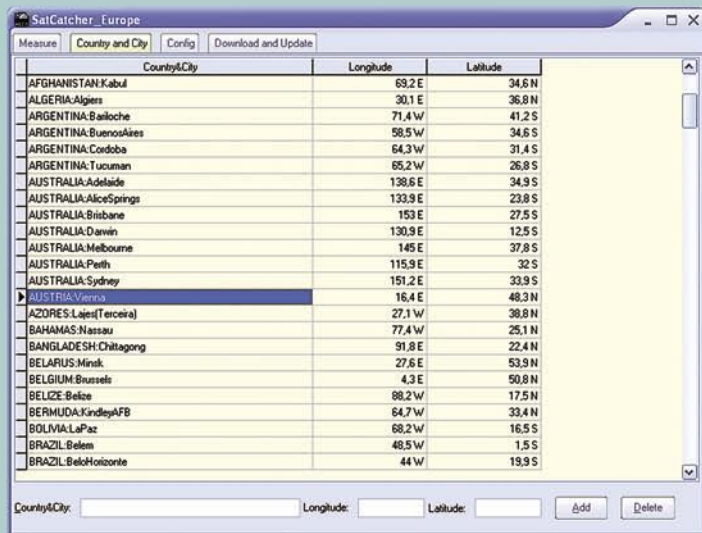
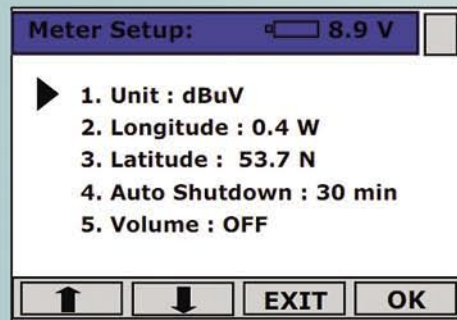
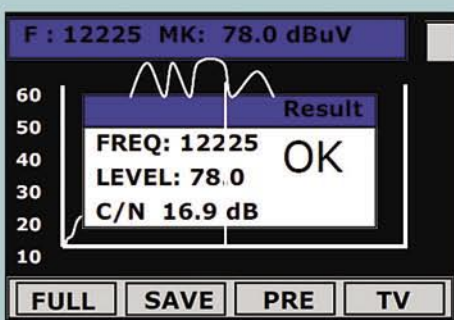
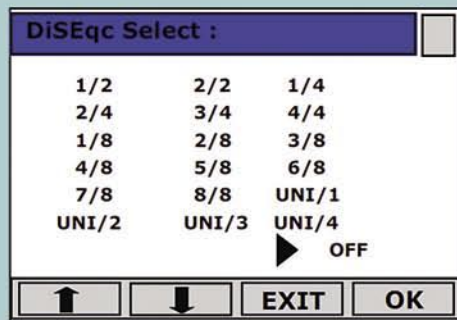
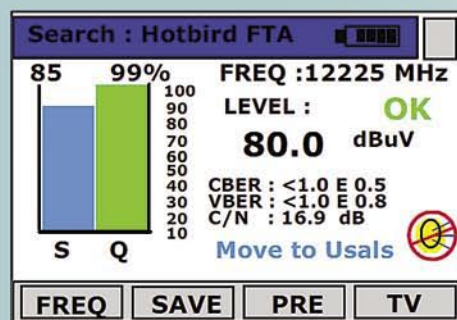
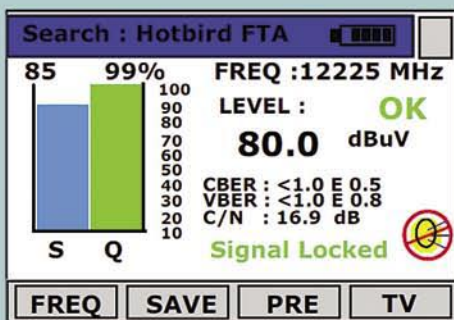
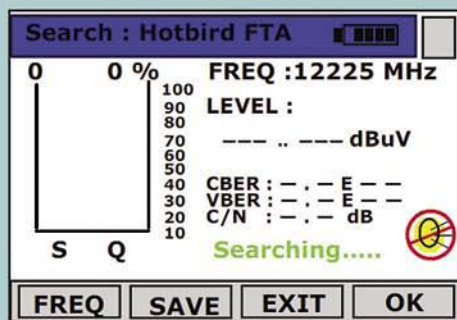
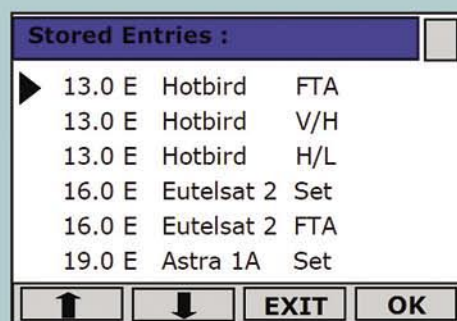
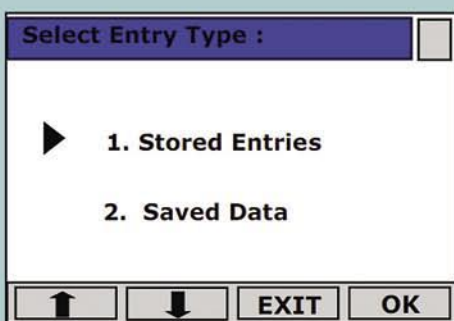
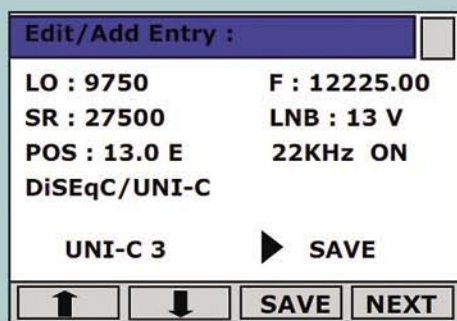
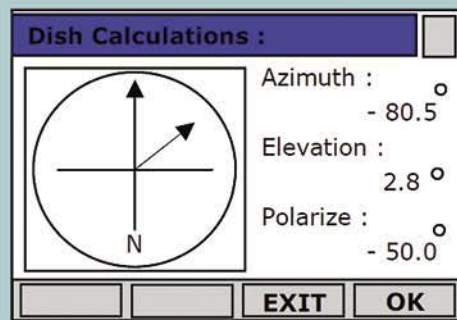
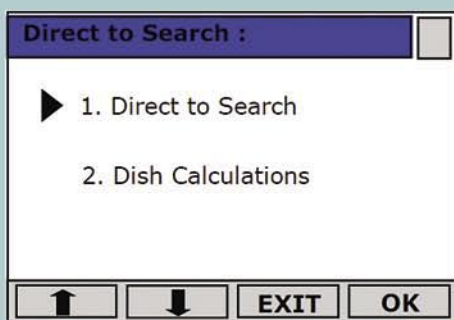
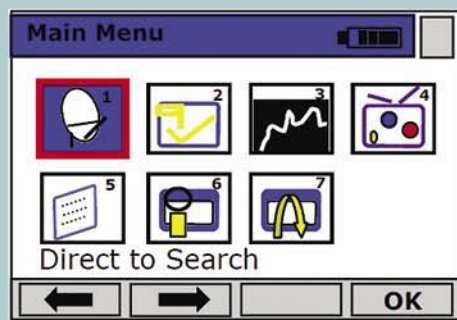
So once we had selected the satellite we wanted, the DigiPro Excel-TV MK3 started right away to calculate the cor-

responding Azimuth, elevation and polarisation angle parameters. In addition, a compass inserted on the display shows the approximate position of the correctly aligned antenna. Please note, however, that the meter's geographic location has to be set first to make sure these calculations can be performed correctly, as the DigiPro Excel-TV MK3 does not have a built-in GPS receiver.

A dedicated settings menu is available for entering the location data, which can easily be obtained from Google Earth, for example. Alternatively, you can decide to connect the satellite meter to the PC before aligning the antenna and to run the SatCatcher software provided on CD-ROM. With this application it is easy to find your location on a comprehensive list of cities and countries.

Once we had finished setting the antenna's elevation correctly we simply started moving it until the peaks in the spectrum analyser display become more pronounced and – above all – until the white line signifying the chosen ASTRA2 28.2° East transponder was right in the middle of





■ SatCatcher Software showing a selection of locations

■ Checking transponder entries

the spectrum peaks. Still not sure if you've got it right? Well, just use the 'Check' function to find out whether the antenna is aligned to a satellite and is receiving a usable signal.

However, we're still in doubt whether the satellite we're receiving is actually the one we're looking for. The solution is simple: As soon as a signal is detected and the DigiPro can lock the found transponder the corresponding information pops up on the display. Now all you have to do is change to TV mode to see the first available channel. It should be noted, that this works only with free-to-air channels, as the DigiPro Excel-TV MK3 does not come with a CI slot for pay TV smart cards.

We checked the results against information obtained from www.SatcoDX.com and were pleased to discover that we hit ASTRA2 at 28.2° East spot on. This allowed us to proceed to fine-tuning right away. A separate menu item is available for this procedure and displays two large bars for signal quality and signal strength, as well as the values for CBER (Channel Bit Error Rate), VBER (Viterbi Bit Error Rate) and signal level with C/N (Carrier to Noise Ratio).

We would also have appreciated the MER (Modulation Error Rate) which the DigiPro Excel-TV MK3 unfortunately

does not display. If you prefer to adjust your antenna without constantly keeping an eye on the satellite meter you can of course rely on acoustic representation of the signal strength as well. In this case the pitch of the tone increases as the signal gets stronger.

To summarise, the DigiPro Excel-TV MK3 helped us align the antenna within no more than a few minutes and a check with the meter confirmed that we had not only hit our target, but also achieved the best possible reception quality.

Function key F2 with the labelling "Save" features prominently in both the spectrum display and the menu for fine-tuning. What it does is save the spectrum pattern of a satellite, which is an extremely smart feature that we fell in love with at first sight.

Once a pattern is saved it can be inserted over the currently received spectrum in future every time the antenna needs to be re-aligned. So if the need arises to align the antenna again to a particular satellite, all you need to do is move the antenna until the stored and the current spectrum patterns match. There can hardly be an easier way of re-finding a satellite.

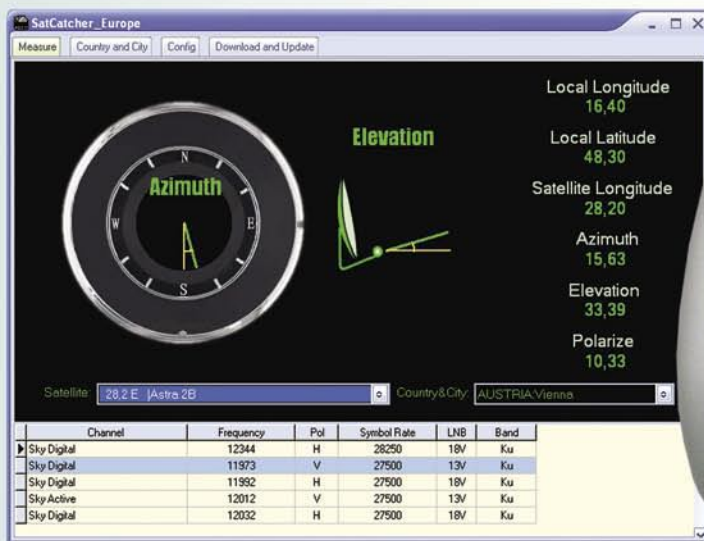
We also highly appreciated the four zoom modes in

the spectrum display, which allow a close examination of individual signal peaks. When working in spectrum analyser mode we noticed that the display reacts quickly and with hardly any lag at all.

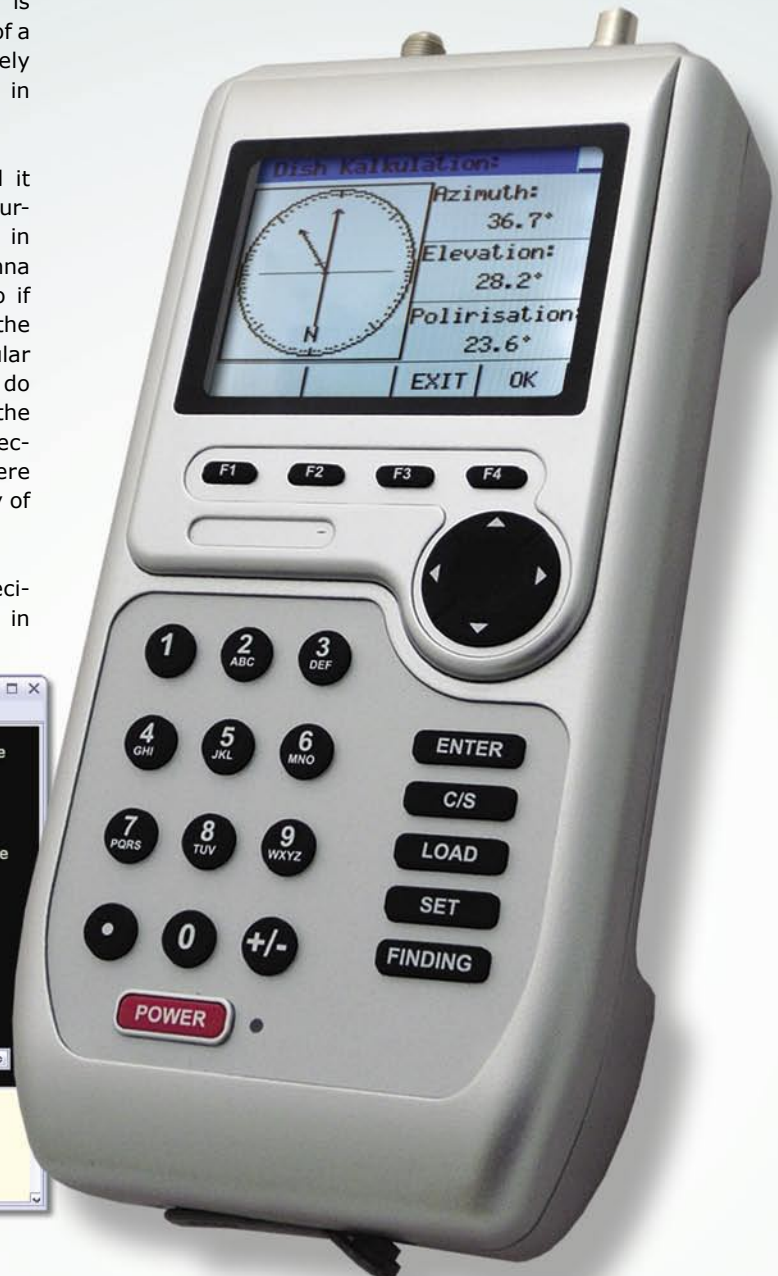
Apart from spectrum patterns, the unit is capable of storing measurement results, which is helpful with motorised dishes to determine whether recent antenna movements have improved or deteriorated the reception of the westernmost and easternmost positions. Up to 40 entries can be stored in the SatCatcher DigiPro Excel-TV MK3's memory, each of which can be filled with either a spectrum pattern or measurement data.

DiSEqC, motorised antennas and SCR (Unicable)

As mentioned above the SatCatcher DigiPro Excel-TV MK3 is compatible with all DiSEqC protocols. With DiSEqC 1.0 up to four satellites can be received, with this number rising to eight if DiSEqC 1.1 is used. Motor protocols DiSEqC 1.2 and 1.3 (USALS) are also dealt with flawlessly and with the single touch of a button a DiSEqC motor moves the dish to the all important zero position. Alternatively, the SatCatcher satellite meter can command antenna movement to the East or to the West, even with-



■ Calculation of azimuth, elevation and polarization angle



out any external power supply thanks to the built-in battery. Aligning a DiSEqC motorised dish with the SatCatcher DigiPro Excel-TV MK3 turned out to be real fun rather than tiresome hassle and the whole process went about much speedier than with many professional meters we have tried in the past. Now we can really say good-bye to the times that required a team of two for adjusting DiSEqC motors.

Since we happened to have set up a small SCR (Unicable) distribution system with two different matrices for another test this gave us ample opportunity to verify the manufacturer's claim of full Unicable compatibility. Would it deliver as brilliant results as SatCatcher's other features?

All we really had to take note of was that Unicable commands 1, 2, 3 and 4 in the SatCatcher DigiPro Excel-TV MK3's menu correspond to SCR commands 0, 1, 2 and 3. Once that was established we quickly hooked up the meter to our SCR matrix and went on to connect two more receivers. It came as no big surprise that the satellite meter delivered first-rate results as long as these two additional receivers remained switched off. The moment of truth only arrived as soon as they had been turned on. And voilà, the SatCatcher DigiPro Excel-TV MK3 still displayed a brilliant TV picture after the appropriate frequency had been selected.

Our verdict: SCR commands and SatCatcher form an excellent team. One of SatCatcher advertising claims is full compatibility of the DigiPro Excel-TV MK3 with Unicable LNBs provided by Italian pay TV platform Sky Italia. Never believe a claim without verification, we thought, and called up our colleague at the Italian Test Center of TELE-satellite to arrange for a Sky Italia LNB to be sent to Vienna. And what can we say – it was yet another test the SatCatcher DigiPro Excel-TV MK3 passed with flying colours. Soon after

we had mounted the LNB and activated Unicable mode signals from HOTBIRD 13° East started flowing in.

Let's add some general remarks about this handy new satellite meter now. Throughout our test we noticed the surprisingly high capacity of the battery. Not once did we have to interrupt our test for charging and it wasn't before the DiSEqC motor test that we realised that moving the antenna frequently does indeed draw a lot of power from the battery. Overall, however, we were using the device for almost four hours free of any external power supply. This might easily be a record achievement among satellite measuring devices!

In addition, the low-threshold tuner proved its worth whenever weak satellites came into play. It helped aligning the antenna with a C/N as low as 3.5 dB. The 'Utilities' menu is the place to go for customising the SatCatcher DigiPro Excel-TV MK3 to individual requirements. In case you cannot or do not want to use the PC software you can enter your local geographic position here. In addition, a pre-defined period of time can be selected after which the measuring device turns off automatically if not used, which helps increase battery life.

When we looked for a way to change the default language, however, we did not find any such option. We finally came across a statement on the manufacturer's website saying that regional distributors will add localised software before shipping. This way customers will receive the SatCatcher DigiPro Excel-TV MK3 with on-screen texts in their own language.

Transponder Settings

Transponder data stored in the DigiPro Excel-TV MK3's internal memory is subject to change, as dozens of transponders are switched off, turned on or modified on each

single day. But SatCatcher made it very easy to change or add transponder data on-site. The installer can easily change every parameter of a transponder or add a new one with a few buttons. Most other meters on the market can not be fully controlled by the user this way and we can just praise SatCatcher for making it so easy for the user.

But of course the DigiPro Excel-TV MK3 can also be updated by PC; SatCatcher has chosen to add an interface for connecting the device to a PC. In combination with the included software application all transponder data can then conveniently be edited on the PC, or you may turn to www.satcatcher.com in regular intervals for updated satellite and transponder lists which can be

transferred to the device with only a few mouse clicks. The SatCatcher software even calculates the selected satellite's Azimuth, elevation and polarisation angles directly on the PC (provided the application knows your position, which can be determined using geographic coordinates or selecting a city or country out of a list).

To sum up, we can clearly state that the SatCatcher DigiPro Excel-TV MK3 is an absolutely worthwhile alternative to professional measuring devices. It provides all relevant features and can easily be programmed. Thanks to its implementation of all DiSEqC protocols and also the SCR standard even professional installers needn't look any further.

Expert Opinion

+

The SatCatcher DigiPro Excel-TV MK3 is easy and self-explanatory to use while still offering a wide range of helpful features. Apart from spectrum analysis this device is also capable of showing measurement results on its display and can even be used to watch TV channels. All DiSEqC protocols are supported and SCR (Unicable) is available as well. Transponder Settings can be changed manually very easily.



Thomas Haring
TELE-satellite
Test Center
Austria

-

The only thing that makes the SatCatcher DigiPro Excel-TV MK3 short of perfect is the missing MER analysis.

TECHNICAL

DATA

Distributor	SatCatcher, Unit 7 Salvesen Way Hull, East Yorkshire, UK HU3 4UQ, United Kingdom
Tel	+44 (0) 148 222 15 77
Email	sales@satcatcher.com
Model	Digipro Excel-TV MK3
Frequency range	930~2150 MHz
Level range	-65 dBm ~ -25 dBm
Input resistance	75 Ohm
Symbol rate	2~45 Ms/s
DiSEqC	Yes (1.0,1.1, 1.2, 1.3)
SCR-Standard	Yes
Power supply	Up to 5 hours without recharge
Supplied items	Fold away sun visor, Software CD, User guide, Mains charging unit, Car charger, P.C. Connection cable, USB converter (optional)
Dimension	250x120x60mm
Net weight	0.8kg
Gross weight	1.6kg
Working temperature	0°C ~ +40°C
Display	120x64 3.5" LCD color display

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Website	www.abipbox.com
Function	Digital Linux-based HDTV PVR Receiver
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Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0909/tur/abcom.pdf

Manufacturer	Topfield
Website	www.topfield.co.kr
Function	Digital HDTV DVB-S2 Receiver with Various Multimedia Features
DVB-S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0907/tur/topfield.pdf



Manufacturer	AB-COM
Website	www.abipbox.com
Function	Digital Linux-based HDTV PVR receiver for DVB-S, DVB-S2, DVB-C and DVB-T
DVB-S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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AB-COM



Manufacturer	ABC BIZNIS
Website	www.opensat.info
Function	Digital DVB-S CI-PVR Receiver
DVB-S2/LAN	— / —
Channel Memory	4000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / —
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OPENSAT



Manufacturer	Topfield
Website	www.topfield.co.kr
Function	HDTV PVR Satellite Receiver with Scaler
DVB-S2/LAN	• / •
Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	• / •
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Mandarin	中文	www.TELE-satellite.com/TELE-satellite-0903/man/topfield.pdf
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0903/tur/topfield.pdf



TOPFIELD



Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	Digital PVR Satellite Receiver for SDTV/HDTV
DVB-S2/LAN	• / —
Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

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JIUZHOU



Manufacturer	ABC BIZNIS
Website	www.opensat.info
Function	HDTV Satellite Receiver with Two CI Slots
DVB-S2/LAN	• / —
Channel Memory	!
DiSEqC	1.2
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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Manufacturer	AB-COM
Website	www.abipbox.com
Function	Digital Linux-based HDTV PVR Receiver for DVB-S, DVB-S2, DVB-C and DVB-T
DVB-S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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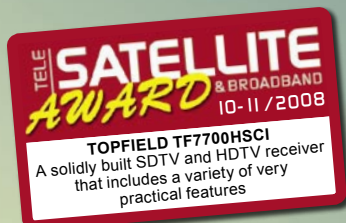
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Manufacturer	Topfield
Website	www.topfield.co.kr
Function	HDTV PVR Satellite Receiver
DVB-S2/LAN	• / —
Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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TOPFIELD

Manufacturer	Sonicview
Website	www.sonicviewusa.com
Function	Digital Satellite PVR Receiver With Two Tuners
DVB-S2/LAN	— / —
Channel Memory	6000
DiSEqC	1.0 / 1.1 / 1.2
S-Video/HDMI	• / —
Scart/Digital Audio	— / •



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SONICVIEW

Manufacturer	PT. Subur Semesta
Website	www.subur-sm.com
Function	Digital Satellite Receiver for Motorized Dishes
DVB-S2/LAN	— / —
Channel Memory	4000
DiSEqC	1.2
S-Video/HDMI	— / —
Scart/Digital Audio	— / —



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Manufacturer	AB-COM
Website	www.abipbox.com
Function	HDTV PVR for DVB-S, DVB-S2, DVB-C and DVB-T
DVB-S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	• / •
Scart/Digital Audio	• / •



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Manufacturer	Arion
Website	www.arion.co.kr
Function	Digital Satellite PVR Receiver with Built-in Scaler
DVB-S2/LAN	• / —
Channel Memory	8000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	• / •
Scart/Digital Audio	• / •

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06-07/2008

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Manufacturer	NanoXX
Website	www.nanoxx.info
Function	Digital HDTV PVR Receiver
DVB-S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	• / •
Scart/Digital Audio	• / •

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04-05/2008

NANOXX 9500HD
Small enclosure, superbly crisp picture, extremely fast channel search, and connection for HDD

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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0805/tur/nanoxx.pdf





Manufacturer	Topfield
Website	www.topfield.co.kr
Function	DVB-S, DVB-S2 HDTV Receiver with Irdeto CA
DVB-S2/LAN	• / —
Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	• / •
Scart/Digital Audio	• / •



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Manufacturer	ABC Biznis
Website	www.opensat.info
Function	DVB-S/S2 MPEG2/4 HD Receiver with Single Tuner
DVB-S2/LAN	• / —
Channel Memory	4000
DiSEqC	1.0 / 1.2
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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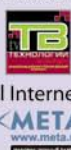
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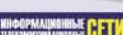
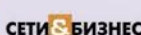
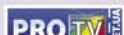
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Viewtech & Viewsat

Two names, one company. What's behind the company Viewtech and its Viewsat line of satellite receivers? Viewtech's headquarters is located in Oceanside, California, USA. They can be found in an extremely large industrial park that was constructed in 2007 in which Viewtech leased a large complex and equipped it with the most modern technology.

The first thing visitors will notice is that workers use the newest surround monitors: the large monitor in the middle is framed on both sides by two smaller vertically-mounted monitors. It gives visitors the feeling that they are on the bridge of a spaceship.

There are also no light switches. Motion sensors automatically turn on the ceiling light fixtures. The window shutters also move into place automatically and all of the telephone, Internet and satellite connections are all linked to a central location. If an employee should move from one office to another, he simply has to unplug his phone from the old location and plug it in to the new office; his tele-

■ Viewtech's headquarters in Oceanside, California.

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■ Rob Rhine
is Viewtech's
President
and runs the
company
together with
Jung Kwak.

VS



■ Ethan Morris is Operations Manager and sits in his office in front of a futuristic surround monitor system: Starship Viewsat is ready for blastoff.



■ Viewsat receiver problems? Jonathan Mitsunaga is one of the technical Support employees. Every Viewsat model is on his desk; he can quickly switch from one model to another in order to help customers.



■ A critical area of any company would be Accounting; Lucy Roe manages this department for Viewtech. She also utilizes the 3-D monitor system to organize all the incoming and outgoing invoices.



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■ Donna Elder is Viewsat's receptionist; she greets every visitor. The display case can be seen in the background with all of Viewsat's satellite receiver models.



phone number would follow him to the new office. Sophisticated!

It's not surprising that Viewtech is so sophisticated. It is made up of 12 employ-

ees, all of which are young. In the large president's office on the first floor we find Rob Rhine, President of Viewtech, Inc. He explains to us how it all started: "Jung Kwak founded the company in May of

2005." Jung Kwak is originally from South Korea but has since become a US citizen.

Rob Rhine and Jung Kwak were colleagues years before in a computer company. Rob thinks back: "Back then I was Vice President of this company and Jung Kwak was a Sales Account Executive." Rob could see back then already that there was a lot more to Jung Kwak and that he came up with many different ideas. Jung Kwak eventually left that company and their paths separated for several years.

Early in 2005, Jung Kwak came to Rob Rhine looking for help in starting a company that dealt with satellite reception, particularly with the sale of satellite systems to the Korean population in California. For Rob that could have been the end of it, but towards the end of 2005 he got a call from Jung Kwak: his business was expanding so fast that he needed help. Rob explains, "That call couldn't have come at a better time; I had been at that company for 11 years and was beginning to look into other opportunities."

Without any hesitation, Rob Rhine jumped on board in January 2006 as Viewtech's President and took over running the company. In the meantime Jung Kwak for the most part backed away from day-to-day operations and now dedicates himself to coming up with new ideas for the company. "Hence the company name Viewtech", explains Rob pointing out that their receiver product line is marketed under the brand name Viewsat: "We wanted to leave open the possibility that we might market products other than those related to satellite reception."

Viewtech has had quite a bit of growth over the past few years: "On average



■ A view of only a small portion of the warehouse. The pallets in the background are stacked with 250 receivers.



■ Repairs, even with the best quality products, cannot be avoided. For Heung Kuk Choi, who comes from South Korea, it's not a problem. He can handle any problem in Viewtech's fully equipped repair shop.



■ His colleague Sejong Kim, also from South Korea, can handle repairs just as effectively.

we've had about US\$ 35 million in sales each year", comments Rob, "for 2009 we're expecting the same result."

The largest market for Viewtech is the USA although sales in Latin America are strongly increasing. "We are working with a distributor in Mexico and also one in Panama that covers all of the remaining South American region." Rob is convinced that the expansion into South America should in the future more than make up for the economic downturn in the USA.

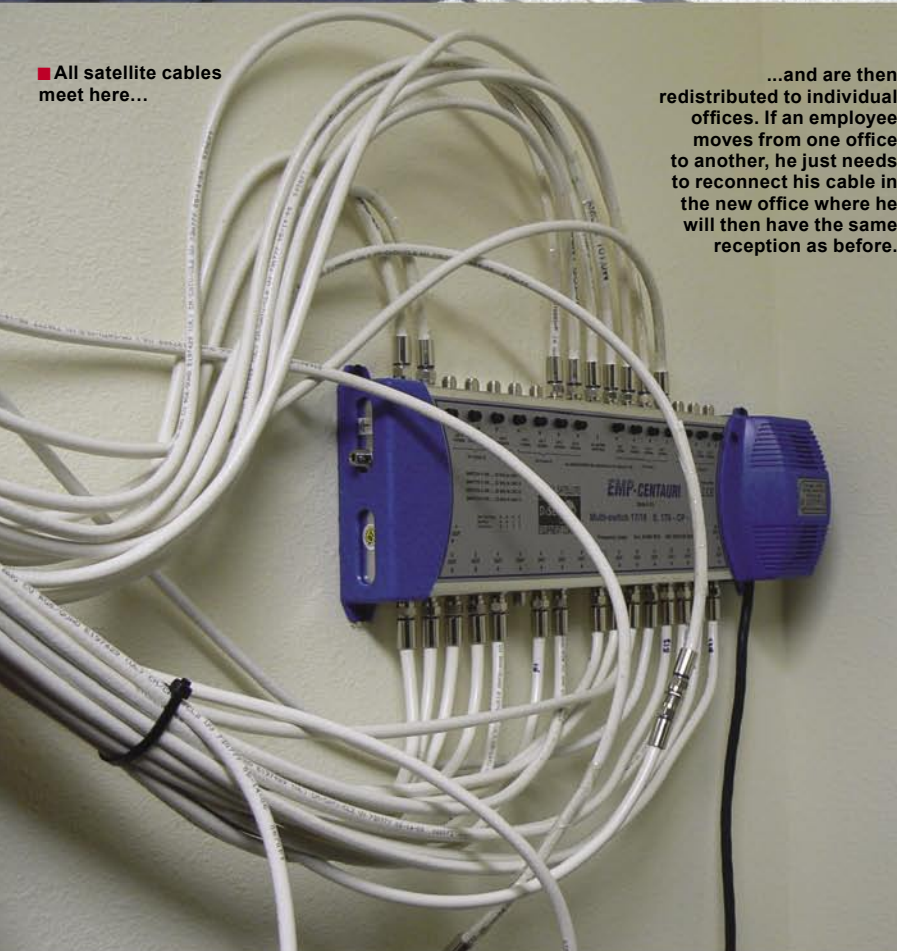
We asked Operations Manager Ethan Morris what the HD situation is: "In 2009 10% of our receivers will be HD models but in 2010 we expect that number to increase to 25%." A test report for the brand new HD MAX model is planned for the next issue of TELE-satellite. "In just a few months we will be introducing our first Twin HD PVR to the market", added Ethan. This upcoming model is also planned for a test in a future issue of TELE-satellite. We can't wait to see what quality products will carry the Viewsat label!

Viewtech is growth-oriented. Their large headquarters has plenty of room, and not just for increased storage space.

Viewtech is clearly on an expansion course!



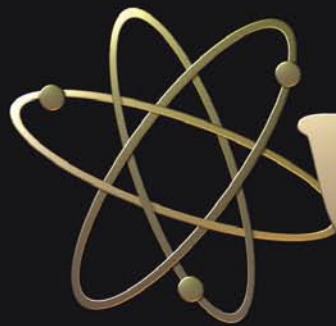
■ Is Viewtech really a satellite company? A peek on the roof would tell us without a doubt. Sure enough, there's Heung Kuk Choi aligning one of their six satellite dishes. The sixth antenna is on the other side of the roof and is a multifeed dish.



■ All satellite cables meet here...

...and are then redistributed to individual offices. If an employee moves from one office to another, he just needs to reconnect his cable in the new office where he will then have the same reception as before.





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PULSTAR

On an island like Tenerife that is visited by tourists from all over Europe and is also home to many retirees, the desire to watch TV from home is especially high. But at the same time the equipment requirements to do this are also extraordinarily unique since Tenerife lies far outside the official footprints of many European satellites. PULSTAR, a company located in southwestern Tenerife, makes it their business to deal with these special needs.

TELE-satellite already reported on PULSTAR's owner, Diego Fernando Sanchez Rosende, and his successful attempts to receive American satellites. Diego is not only an enthusiastic satellite DXer, but also has been running PULSTAR since 2005. Diego is originally from Argentina, "My parents moved from Galicia in Spain to Buenos Aires; this is where I was born." When he turned 23, he decided to see the world. He first ended up in Brazil and lived for many years near the Iguazu waterfalls located at the three-corner border of Brazil, Argentina and Paraguay: "It was a smuggling hot spot; you could get all kinds of electronics very cheap", Diego recalls.

By 2001, he had enough and moved to the vacation island of Majorca. "The climate was similar to South America", explains Diego, "but after a month it was time for me to move on and I ended up in Tenerife." He soon began to miss the TV channels from his childhood and thus





■ Diego is seen here adjusting the LNB on a 3.1-meter antenna in the town of Adeje in southern Tenerife.

acquired his first satellite system: "It was an 80cm system for HISPASAT reception. Back then I could receive two channels from Brazil – TV Record and Tango TV."

Diego began to wonder if there weren't other channels from South America that could be received. He Googled "Frecuencias Satelites" and landed at SatcoDX and ultimately at TELE-satellite. "I learned quite a bit from the magazine, in fact, everything I know", explains Diego. He recalled specific articles that allowed him to expand his hobby.

In 2003 he upgraded his satellite system to include a 1.8-meter dish and in 2005 he added a 2.4-meter antenna. In between he started installing systems for friends and relatives. In 2005 "I began working for myself and founded my company PULSTAR." He came up with the name from pulsars, stars that emit pulses. "For me the name was very fitting to my work", says Diego, "with satellite dishes you can receive signals from very far away. Satellite signals are like pulses from a distant galaxy."

In his first year of business he managed to install 200 systems, most of which with dish sizes between 80 and 100cm. In 2008 the numbers decreased "to about 50", remembers Diego, "but the antennas were much larger, from 1.8 to 3.1 meters." These systems were no longer for end users; instead in some cases it involved very complicated systems for larger communities. There are quite a few housing communities in Tenerife that are occupied by tourists and retirees. For the most part they come from Great Britain and Germany but there are also plenty from Sweden and Holland. "The Russians are also coming in greater numbers", explains Diego, "and they all want to see their TV from home."

The demands are steadily rising. Diego needs to find solutions not only for the various PayTV encryption systems, but the signal reception itself can prove difficult. How do you distribute the channels on a C-band satellite when there are no appropriate C-band channel converters available in Europe? How do you receive signals from the Russian EXPRESS satel-

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■ A look at the spectrum shows how tightly packed the cable network really is. Diego uses not only the VHF/UHF band with all of its special channels but also picks up the HISPASAT signal for the Spanish PayTV package Digital+ and of course the terrestrial DVB-T signals. He exploited the coax cable he uses to its fullest extent.



■ Diego's most complex system in the Orlando apartment complex in Adeje. His system here even receives the C-band signals from NSS 806 at 40.5° west with its many South American channels. These are received with standard satellite receivers (stacked on the shelves). The UHF outputs are taken and routed into the apartment network via individual channel converters. "This manufacturer's UHF modulator is very stable; I use channels 21, 23, 25, 27, 29, 31 and 33." Diego nevertheless likes to play it safe: "I use a timer switch to turn the receivers off every night at 3AM for twenty minutes." In this way Diego can be sure that the receivers are rebooted on a daily basis. It's one of those little tricks that he learned from experience.



■ Diego on the roof of the Orlando apartment complex. In the foreground to the right is the 2.4-meter antenna with C-band LNB used to receive South American channels.



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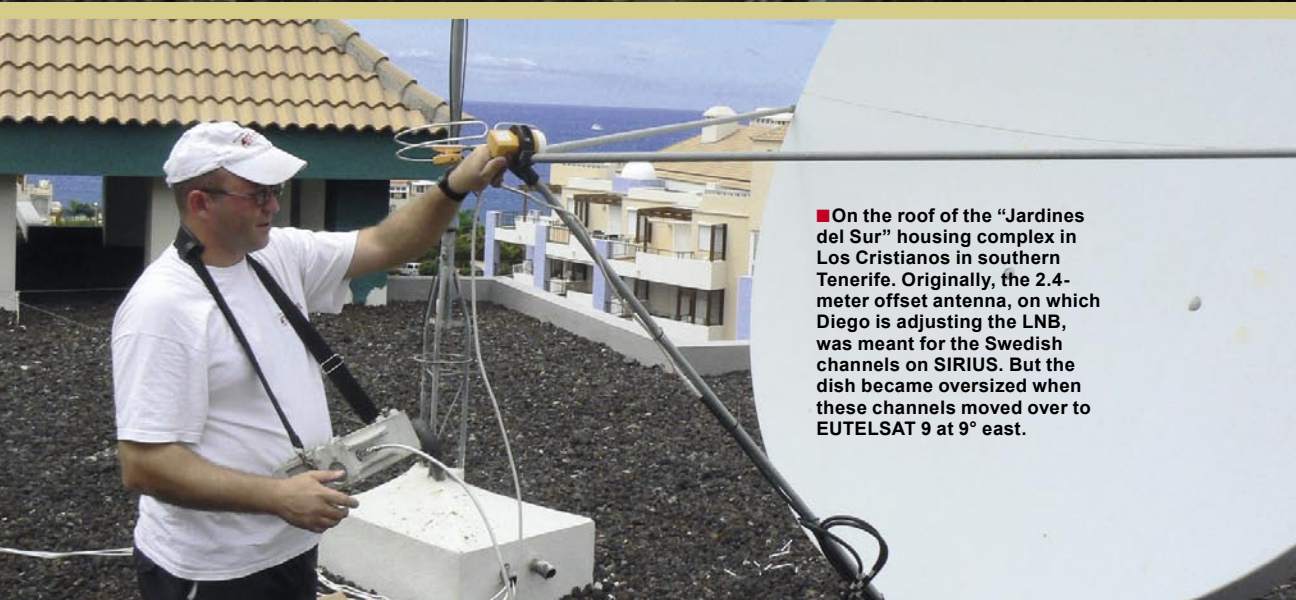
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■ The 3.1-meter dish for the reception of BBC and ITV channels on ASTRA 2 at 28.2° east.



■ On the roof of the “Jardines del Sur” housing complex in Los Cristianos in southern Tenerife. Originally, the 2.4-meter offset antenna, on which Diego is adjusting the LNB, was meant for the Swedish channels on SIRIUS. But the dish became oversized when these channels moved over to EUTELSAT 9 at 9° east.

■ Diego shows us one of his tricks: the antennas are braced not only because of wind load: “This lets me easily handle fine tuning adjustments in order to precisely align the dishes.”



lites that are in SD but transmit in MPEG-4? Do you split the satellite IF, and if so, which polarization when multiple satellites can be received? How do you satisfy the Spanish-speaking inhabitants who also want to receive terrestrial signals?

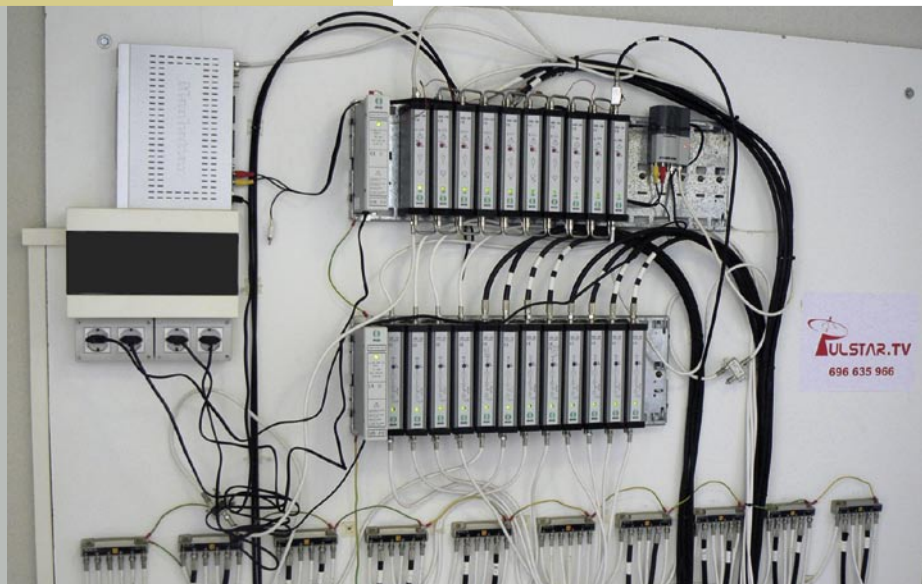
Diego has to deal with all of these questions and up until now he has been able to find a solution for every situation. Diego is good with his hands, "I don't rely on manufacturers specifications, instead I test everything myself." This is how he discovered some manufacturers are better than others at channel conversions when dealing with weaker signals such as the British channels on ASTRA 2. Another manufacturer might be better at handling the UHF signals in a standard receiver. "I do other things that don't necessarily make sense like rotating a circular LNB in the mount." The position of a circular LNB is normally not critical but if his experience suggests otherwise, Diego simply ignores the theory.

Diego is optimistic about the future: "I am in the process of entering into an agreement with an electronics dealer." They are making a showroom available to him and adding a selection of satellite channels to their own assortment of flat-screen TV's. "The customers can then immediately see what can be received here", says Diego.

He is looking forward to the challenges yet to come.



Diego used multiswitches to supply each of the 100 apartments with every polarization from the satellites at 13° east, 19.2° east and 28.2° east. Only the Swedish channels are added as an individual channel via a single receiver in addition to the terrestrial DVB-T signals.



SeaTel's Five-Satellite Antenna

Alexander Wiese

Self-adjusting satellite antennas are typically used on ships: they automatically adjust the position of the antenna according to the movement of the ship so that the antenna is always properly pointed to the desired satellite. The emphasis here is on "one satellite". But what if you want to receive five satellites at the same time? SeaTel, a division of Cobham, Plc, a large group of companies manufacturing and engineering many different communication systems for avionics, transport, government, etc, recently developed just such a system. TELE-satellite reported on their first prototype back in the 12-01/2009 issue. But now that they are mass producing these antennas, we want to see one of these systems in normal operation. So off we go to Florida to SeaTel's regional office in Fort Lauderdale where one of the first of these five-satellite antennas were recently shipped to.



■ DTV04 HD Antenna, 5-Satellite System with the dish system by DirecTV

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This regional office was opened in 2002 and for the longest time was a one-man office. However at the end of 2008 a large warehouse with a number of offices was rented near Fort Lauderdale's Hollywood International Airport. It's also just a few minutes by car away from the many coastal marinas where countless luxury yachts are anchored. Vincent Valdeperas is the Manager of SeaTel's Fort Lauderdale's office and explains, "We employ here two additional technicians that work together with technicians from SeaTel's headquarters in Concord, California and also from SeaTel in Southampton, England." The moment a SeaTel customer anywhere in the world has a problem with his antenna system, he has access to 24-hour technical assistance

even from the technicians in Florida. Who are SeaTel's customers? Vincent explains, "We reach our end users via our vast network of authorized and specially trained dealers who install, support and service Sea Tel products." We asked him how long a typical installation can take. "On average, two technicians need just one day", explains Vincent and continues: "A significant part of any installation is the running of cables, once these are installed the system must be lifted into place, after which the connection and commissioning process should take only a few hours. Typically our dealers would take a day to install and commission a system, although we would recommend a sea trial as this is when you really get to test the full functionality of the stabi-

lisation - this typically would occur on a second day."

And what are sales like for these antenna systems? We posed this question to Peter Broadhurst, SeaTel's Vice President and always on the go from one SeaTel office to the next. "Here in Florida we sold 300 systems in 2008 and 2009", says Peter Broadhurst, "but for 2010 we expect a slight increase over 300 systems." Such an excellent automatic satellite tracking system is high-tech in conjunction with high-quality. "The installed price of our new five-satellite system will be around \$35K", comments Peter Broadhurst and brings it into perspective: "This is an insignificant amount compared to the value of the vessel and



■ Vincent Valldeperas in his office. His official title is Technical Support Supervisor. Vincent, born in Venezuela and able to speak both English and Spanish fluently, has spent many years working on the technical side of marine applications installing and maintaining Autopilots, GPS units and V-SAT systems. He has been running the SeaTel regional office in Fort Lauderdale since the end of 2008. He explains, "We work here locally in Florida together with about 15 dealers, with another 30 dealers on the east coast of the USA and six more in South America. All of these dealers receive technical support from the regional Fort Lauderdale office. Every year in March and August we hold technical seminars for our dealers here in our conference room", explains Vincent, "giving every participant an opportunity to get to know a SeaTel system in detail."



the service it provides." In Fort Lauderdale's nearby yacht harbor, Vincent shows us the yachts with SeaTel antenna systems. "Here in the Bahia Mar Marina you will find the most expensive yachts", says Vincent as he gestures to all of the shiny clean super yachts.

We couldn't find a single yacht that didn't have at least one radome installed; most of them had two radomes. Vincent explains, "The completely white radomes are from SeaTel; those with a gray stripe near the bottom are from a competitor and the oval ones are from another competitor." More than three-quarters of the yachts we saw carried radomes from SeaTel.

So what about this five-satellite dish antenna? This concept really put our technicians to the test", explains Vincent, "but our TVRO Product Manager Bobby Jones managed to produce a marketable product." This new system utilizes a multi-satellite dish from DirecTV with a special feed holder that holds a single LNB and two monoblock LNBs as well as a special multiswitch.

This setup takes the signals from the 99 west satellite's Ka-band, on which can be found an large number of HD chan-

■ The SeaTel regional office in Fort Lauderdale, Florida. The office is part of SeaTel's Global Support Team with particular focus on the East Coast and South America regions.



■ Tom Torpey is a Field Technician. If there's a problem with a SeaTel system, the dealers call him up. If the problem can't be solved over the phone, Tom goes on-site and fixes the problem.



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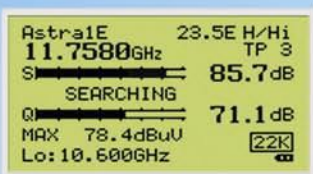
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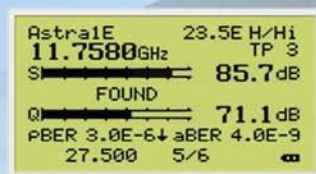
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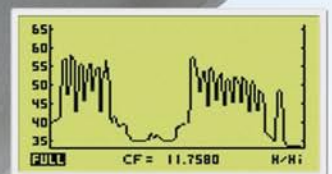
Satellite signal measurement
(Analog / Digital)



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



I/Q Constellation Diagram
(QPSK / 8PSK)



Spectrum analyzer
(with Rotator control)



■ Steven Calice is also a Field Service Support Technician. Here we see him installing the new five-satellite system with DirecTV dish. The radome can be seen in the background and serves to protect the system on the yacht from weather and waves.

nels, and performs a frequency conversion on them. Vincent gestures to the multiswitch output on the feed holder: "Here we connect four extremely thin, extremely low-loss and extremely robust coax cables that are linked to this connector box on the inside of the radome."

The reason, of course, is that the dish antenna inside the radome is constantly moving so that it can stay focused on the five satellites, therefore the coax cables need to be especially stable. Normal coax cable is then used to connect this connector box to a receiver. "One of the multiswitch output is connected to the SeaTel control modul as a reference signal", explains Vincent, "this leaves three outputs to either connect directly to three individual DirecTV receivers or to a wide band multiswitch, when a lot more DirecTV receivers should be connected."

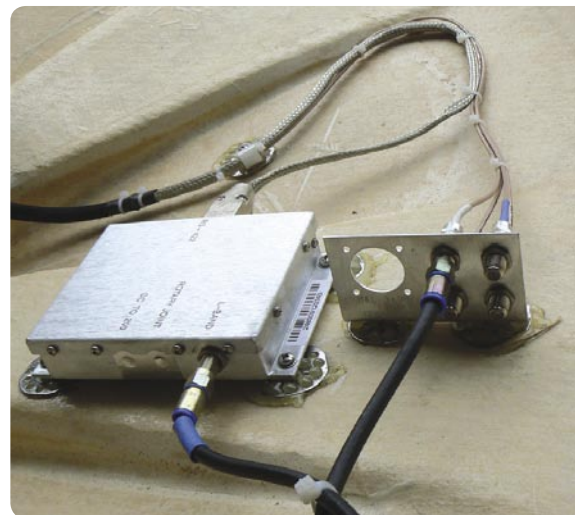
"The primary challenge", explains Vincent "was that we were not going to be using a prime focus antenna with Cassegrain like we have used with all of our other systems. Instead it involved a specially formed offset dish." It no longer

was enough to control azimuth and elevation; now the entire antenna had to follow polarization as well.

Vincent shows us exactly how this works using an actual production sample: he moves the palette on which the antenna is mounted to simulate the movement of a ship. The motorized mechanism of the antenna reacts instantly and regulates the dish such that it continuously points to the DirecTV satellites.

Obviously, a satellite antenna system meant only for DirecTV will have a limited group of buyers. "This system is designed for Yachts, commercial vessels, oil platforms, etc. that operate in US coastal waters within the DirecTV coverage area", comments Vincent, "since the DirecTV satellite footprints are focused only on the USA." SeaTel is working on an upgrade: "Soon we will expand the five-satellite system to a six-satellite system adding an LNB for DirecTV Latin America."

Vincent looks even further into the future: "The LNBs for the American satellites are circularly polarized; as soon as



■ Close-up view of the connector unit: from the multiswitch integrated into the feed horn, four very thin cables emerge. The box on the left contains the connection for the motor and control cables. The two black cables that go to SeaTel's control module can be seen in the picture. This means that three receivers can be connected to the remaining three outputs.

our customers travel to Europe and the Mediterranean, we will adapt the system to linear polarized LNBs. "Then we should have the ability to receive in all ocean regions," highlights Vincent.

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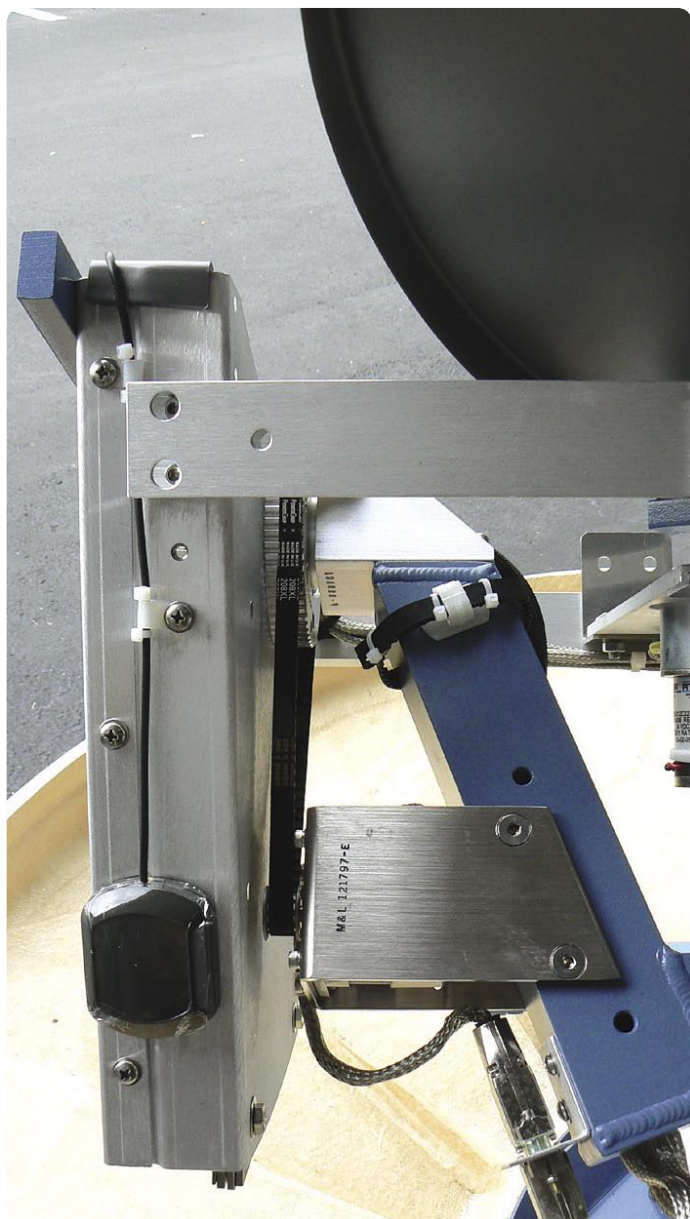
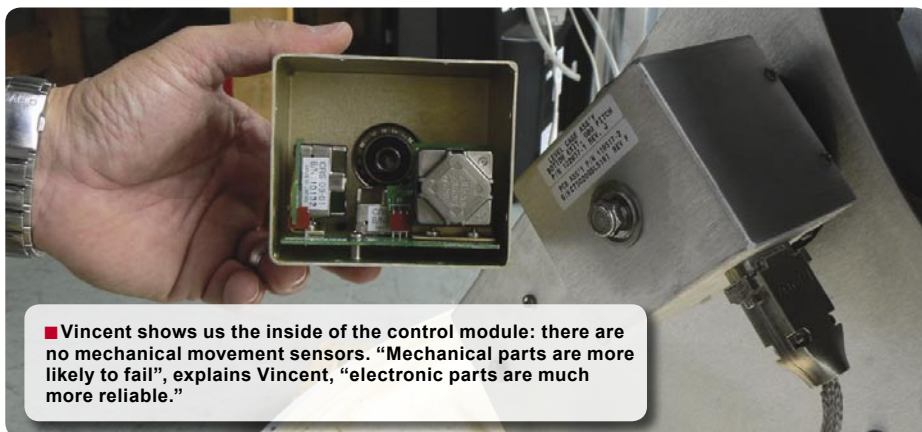


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* Hanya berlaku di Indonesia

No doubt, SeaTel will surprise us with exciting new products in the future!



A close-up photograph of a blue-painted metal plate. A black cable is looped over a pulley system consisting of two stacked metal wheels. A hex nut is visible on top of the upper wheel. The plate is resting on a wooden surface.

A close-up photograph of the blue robotic gripper. A person's finger is pointing to the sensor array, which consists of a row of small, dark, cylindrical components. The gripper is mounted on a white base, and various cables and mechanical parts are visible.

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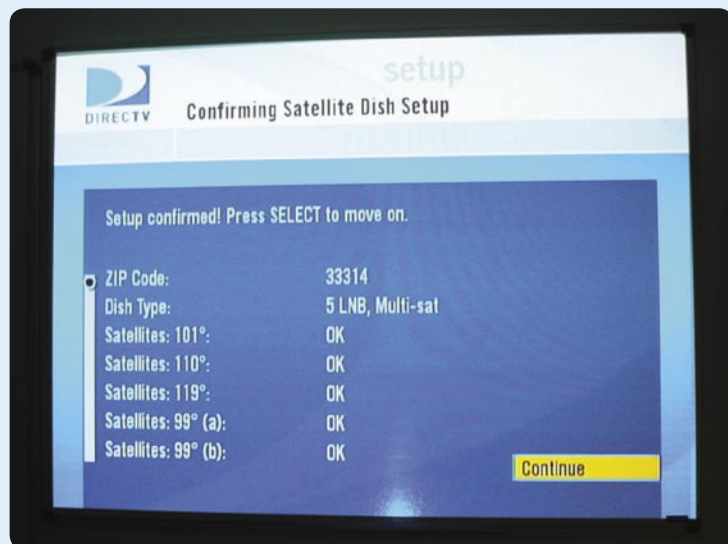
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■ The high point: does this new reception system work? The picture shows that, yes, the active transponders on 119 west are being received. SeaTel's control module is to the lower left. It controls the system motors based on actual reception data. The control module receives one of the signals from the multiswitch. The receiver is DirectTV's HD model. The white box is a projector that acts as the TV for demonstration purposes.



■ The DirectTV receiver's system display shows that all five satellites are being received. (99 west in Ku and Ka band)



■ In Fort Lauderdale's Bahia Mar Marina: Vincent Valdeperas in front of a yacht with a SeaTel system

SeaTel Reports in TELE-satellite

Backlist: Reports on SeaTel in previous issues of TELE-satellite:

SeaTel in Southampton, UK:

www.TELE-satellite.com/TELE-satellite-0803/eng/seatel.pdf

SeaTel in Concorde, California, USA:

www.TELE-satellite.com/TELE-satellite-0901/eng/seatel.pdf

SeaTel in Fort Lauderdale, Florida, USA:

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

Note: Replace *eng* with corresponding language code - see page 4



■ SeaTel radomes on every ship, sometimes more than one. One system is often used for TV reception while the second is used for Internet-via-Satellite.



■ Even here: SeaTel radomes. Most of the time the yachts here in Fort Lauderdale are anchored and constantly being attended to.



■ Wherever you look: nearly every yacht has a SeaTel reception system. Even without the logo, they are easily recognizable by the characteristic shape of the radome.



Shalom Beijing

Shalom Hahn, that's not really his name, but that's about what it sounds like in Chinese. He finds his name to be very catchy and at the same time very appropriate. Shalom is a satellite installer in Beijing, in a country where private satellite reception is still officially illegal, or risky at the very least. Of course, this makes it all the more interesting for us so we wanted to get a closer look at his business. We met up with him in one of Beijing's more popular sports bars – The Den.

■ Shalom Hahn in his home office in northern Beijing near the 5th Ring Road. He keeps in touch with other satellite enthusiasts in China through the Chinese forum www.sat888.com.

TELE-satellite World

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■ Why would a satellite enthusiast want to live on the top floor of a building? Yes, so he could install his satellite antennas on the roof. But since it is sometimes too much trouble for him to always climb up on the roof, Shalom installed a 60cm dish on his window on the 19th floor from which he leans out precariously to align his dish to a different satellite.



The bar is located close to the workers stadium and what first caught our eye was the location of the dish: it was anchored right on the sidewalk in front of the bar – the same sidewalk that the local police pedal by on their bicycles on a daily basis on their way to the police station right behind the bar. The regulations in China can be interpreted in different ways from one day to the next.



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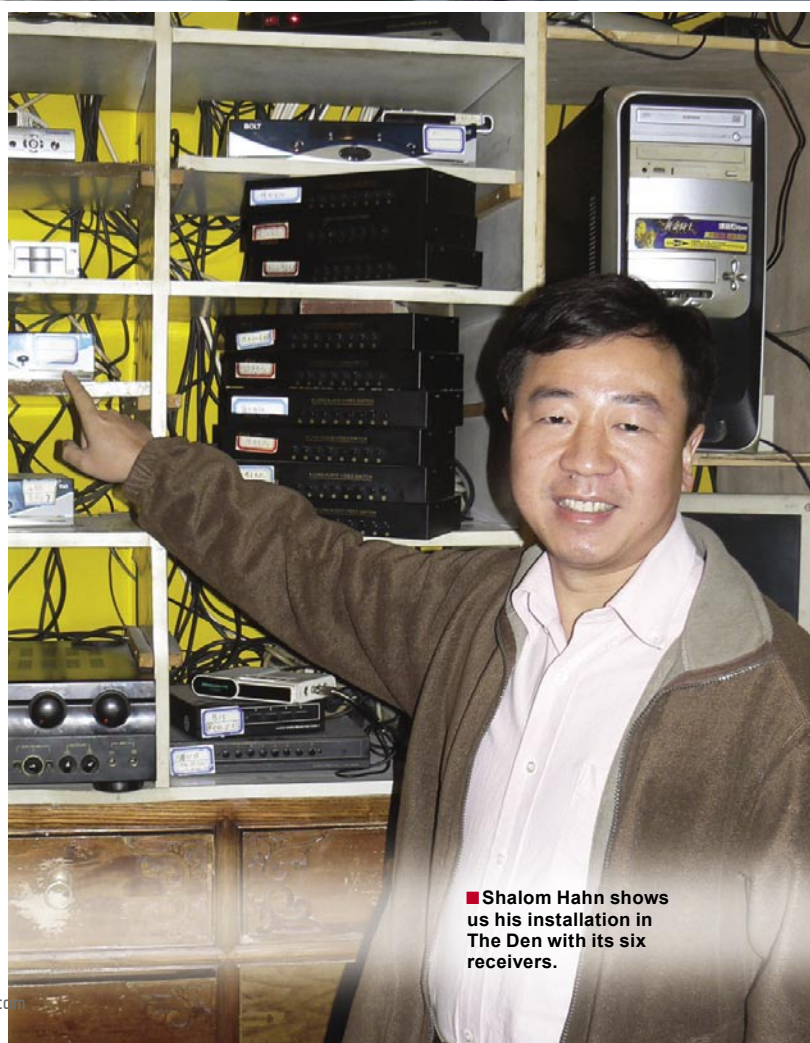
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■ The police don't seem to be interested in the illegal dishes as they roll past The Den sports bar on their bicycles. Private satellite dishes are officially not allowed in China and especially not in the open on a public sidewalk!



■ Paul Peng is manager of The Den and somehow managed to get the police to look the other way when they pass the permanently installed 1.8-meter dish on the sidewalk.



■ Shalom Hahn shows us his installation in The Den with its six receivers.

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■ Sports programming is constantly running on the flat screen TV's in the bar.

■ This is the Rickshaw bar in Beijing. Shalom Hahn installed four antennas here: a 1.5-meter dish for 166°E, a 2.4-meter dish for 68.5°E, a 1.8-meter dish for 110.5°E and a 60cm antenna with two LNBs for 138°E and 146°E.

For Paul Peng, the manager of The Den, this works in his favor and he admits that this is only a temporary solution: a newly constructed apartment building was built directly in the line of sight to the satellite from the roof of the bar and managed to block reception. Installing the dish on the sidewalk is only a temporary solution until a better location can be found.

The Den is mostly patronized by expatriates who are primarily interested in watching football games from home. For this reason Shalom has installed four antennas, one each for 68.5°E, 138°E, 146°E and 166°E. A total of six receivers are in use. According to Paul Peng, the most watched channels in his bar are "Super Sports 1 and 2, BEN Sports, the Australian sports channel networks and those from Star Sports." Customers can see all the action on eight different flat screen TVs.

How did Shalom actually get his name and how did he become involved in satellite TV? "I saw my first satellite antenna in 1990", remembers Shalom, "When ASIASEAT was launched, someone near my university erected an antenna. Back then you couldn't choose your profession and I ended up studying history."

But he already knew at that point that this was not the direction he wanted to go. Alongside his studies he also began





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■ Hebe is one of the bartenders in Frank's Place and is seen here standing in front of the shack containing the receivers. A friend in the USA is even providing access to the TSN sports channel via a Slingbox. Frank's claim is really true: "The best coverage of TV sport."

■ Another sports bar: Frank's Place is the oldest sports bar in Beijing and was opened in 1989. Thanks to Shalom, there's also quite an assortment of sports programming available here as well. Shalom elaborates: "On the roof are a 2.4-meter antenna for 68.5°E, a 1.8-meter dish for 166°E as well as two 60cm antennas, one for 138°E and the other for 146°E."



to learn English. He got a break in 1993 when he was invited by one of his ex-professors to spend a year at the Central Washington University in the USA and was even allowed to live in this professor's house. Since this family was Jewish and his Chinese name sounded very similar to the Hebrew greeting Shalom, his new nickname was born!

In 1995 luck came his way again: he was once again able to travel to the USA in order to finish his Bachelor of Arts studies. Back in China he began to teach English to others and in order to expose his students and of course himself to the way English is actually spoken, he had a satellite antenna installed in 2003. He was surprised at how easy it was and from that point on he dedicated more and more time to satellite antenna installations.

In 2007, he turned his hobby into his profession. Shalom reflects on those early days: "In 2004 I sold and installed between five and seven systems a month; in 2008 it became 25 per month." Unfortunately though, Shalom is not all that optimistic about the future: "Most of the ex-patriots already have a satellite system."

For this reason Shalom is looking to get his fingers involved in new possibilities: "I've been thinking a lot about taking part in producing and transmitting my own programming." Specifically it would be English-language programming for the Chinese coastal region. Until that idea becomes a reality, he will continue to work with his team of two full-time employees installing satellite antennas in Beijing!



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www.TELE-satellite.com/TELE-satellite-0801/eng/horizon.pdf

JIUZHOU



Satellite Receiver Manufacturer, China



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

MFC



Satellite Filter Manufacturer, USA



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

MOTTECK



Antenna Motor Manufacturer, Taiwan



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MTI



LNB Manufacturer, Taiwan



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

NANOXX



Wholesaler & Receiver Manufacturer, Germany



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PROMAX



Digital Powerhouse, Spain



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

SEA TEL



Maritime 3-Axis Dish Manufacturer, USA



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SMARTWI



Wireless Card Reader Producer, Denmark



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SONICVIEW



Satellite Receiver Manufacturer, USA



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SPAUN



High Quality Accessory Manufacturer, Germany



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SUBUR SEMESTA



Satellite Dish Manufacturer, Indonesia



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High-End Receiver Manufacturer, Korea



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GlobalView Network

An Ambitious FTA Provider

There's an FTA provider that is still rather young. The company GlobalView Network was only founded in February of 2006 and is today transmitting on four transponders around the world. In North America they can be found on GALAXY 25 at 97° west (263° east), in Europe they are on HOTBIRD at 13° east, in Asia on INTELSAT 7,10 at 68.5° east in C-band and lastly for Africa on INTELSAT 7,10 in the Ku-band.

Rodgers Gamuti, President of the ViewAfrica Network in Johannesburg, explained to us: "There are two companies, one in London for ViewEurope and ViewAmerica, and one here in South Africa for ViewAfrica and ViewAsia." The original idea was to provide a platform for the missionary preachers in Africa to be able to spread their views to a very large audience.

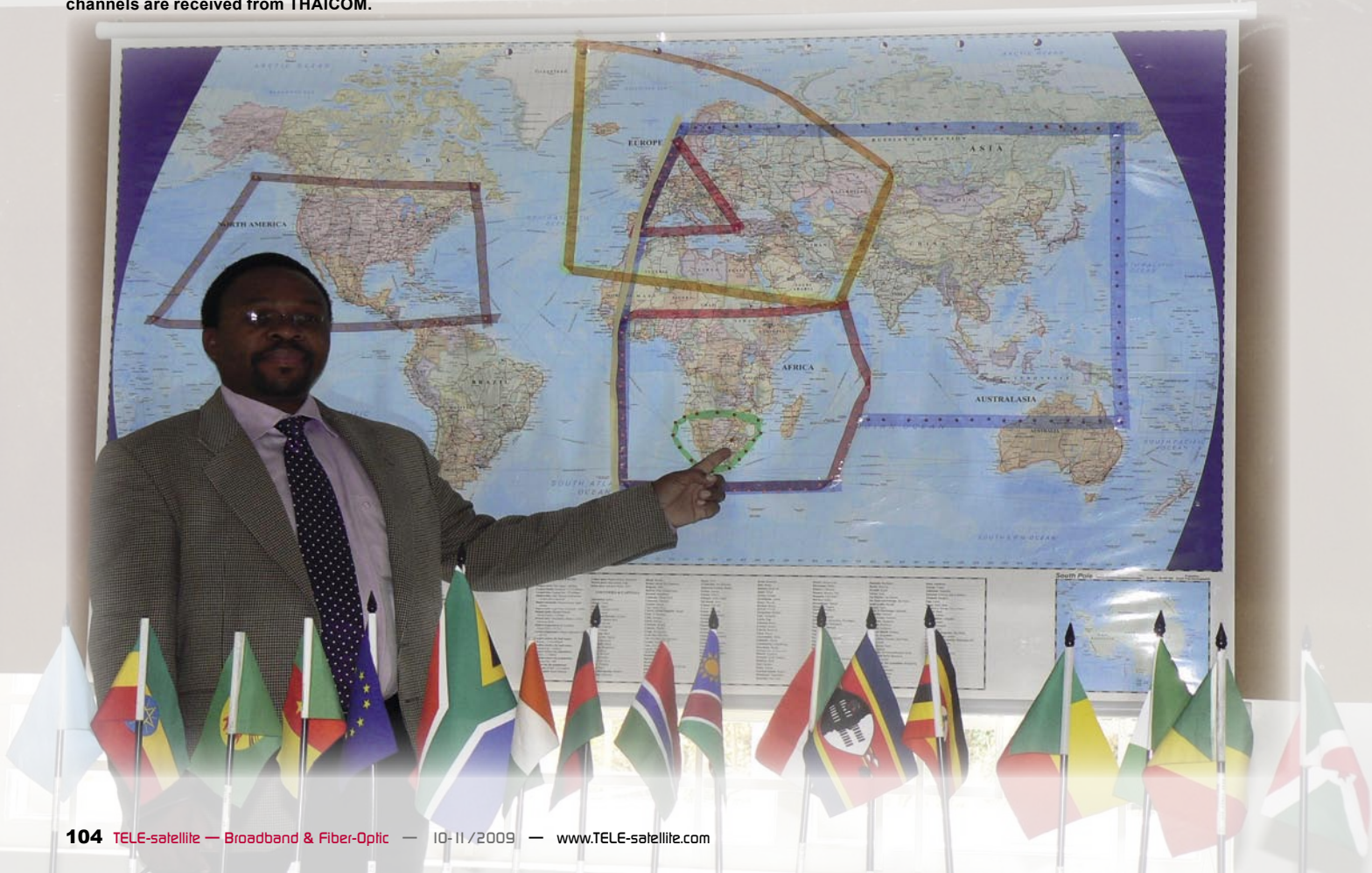
While there are satellites already full of religious programming primarily from the USA with more and more now coming from Islamic countries, the GlobalView Network is going in the opposite direction, by providing a global platform for religious channels from Africa. In addition to religious programming, tourist-related content and additional non-religious programming from Africa will become avail-

able at the GlobalView Network outside of Africa.

A wide variety of programming is already available today. ViewAfrica carries the channels Adonai from the Johannesburg suburb of Sandton, TKC from Soweto (also Johannesburg), John 3:16 (also from Johannesburg), Manna from Limpopo (Venda province in northern South Africa) and Divine (also from Limpopo and occasionally transmitted in the local Venda language). Loveworld and Emanuel come from Nigeria, dbn (deya) comes from Great Britain and lastly Daystar and 3ABN from the USA. Surprisingly the PRESSTV newschannel from Iran is also available as is ViewAfrica's own Tourism and Trade channel with many tourist related programs not only about South Africa but also many other African countries. Even the South African police and Standard Bank provide content. All of the programs are in English.

Rodgers Gamuti is ViewAfrica's CEO. Here he is highlighting a few uplink examples on the display board: the programming produced in South Africa is uplinked to INTELSAT 7,10 by Telemedia. The signal is captured by Stellar in Cologne/Germany who then re-uplinks it to HOTBIRD for Europe and INTELSAT 7,10 in C-band for Asia. The signal is also sent via fiberglass lines to Atlanta in the USA where it is then uplinked to GALAXY 25. The dbn channel from Great Britain takes an unusual path: Stellar first receives it via VSAT, it is then uplinked to INTELSAT 7,10 in the C-band, Telemedia then takes the C-band signal and re-uplinks it to INTELSAT 7,10 in the Ku-band. The Daystar and 3ABN channels are received from THAICOM.

GlobalView's goal is to paint a better picture of Africa to the rest of the world. The World Cup Championships in Johannesburg in 2010 should help to increase interest. GlobalView has taken on the



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role of negotiator and marketer; GlobalView leases the transponders and then re-leases them to programming providers.

Rodgers Gamuti doesn't see any future in PayTV: "All of our channels are transmitted in the clear!" Naturally he also one day hopes to market advertising. But right now their primary objective is to expand their available programming. "We already have signed contracts with other channels from South Africa, Kenya, Nigeria, Uganda and Botswana", explains Rodgers Gamuti who previously worked for 12 years in Business Development for the private company Sentech, the technical provider for SABC.

They are even thinking of radio channels. "We will soon be starting with two channels, Devine Truth and Rainbow Radio from Johannesburg; in the future it will be 10 channels."

An interesting project is the setting up of two-way Internet access via the

ViewAfrica's headquarters can be found in this villa in the Johannesburg suburb of Parkview. In addition to the director, one engineer, three sales personnel as well as three call-center employees work here. In the London office there are three employees that handle all the finances and one software IT specialist. Three directors manage the GlobalView Network company.

same transponders. "This will be used by mobile medical clinics." It will allow medical personnel to travel to regions with little or no medical facilities particularly in the northern provinces and communicate with doctors in hospitals via a video link.

In order to realize all of these ambitions, ViewAfrica has leased a second transponder on INTELSAT 7,10.

The company, that in its first year realized sales of roughly two million British Pounds, has some lofty goals!



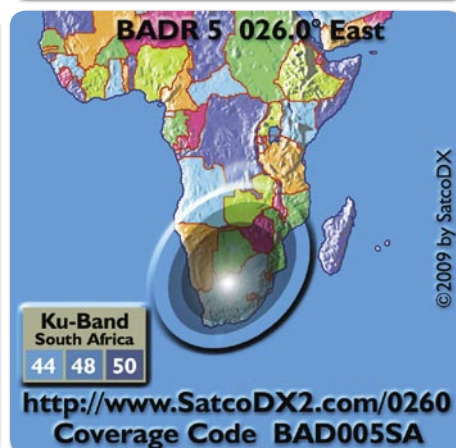
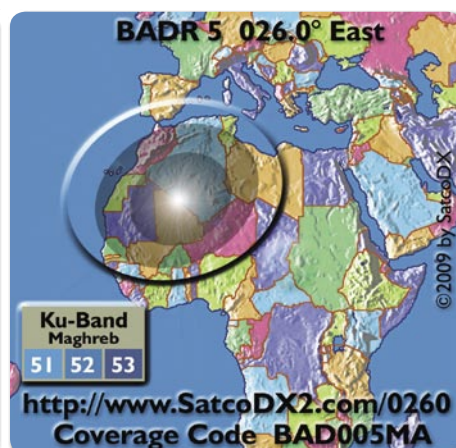
New Satellites *to be launched soon*



Edited by
Aleksandar Medic

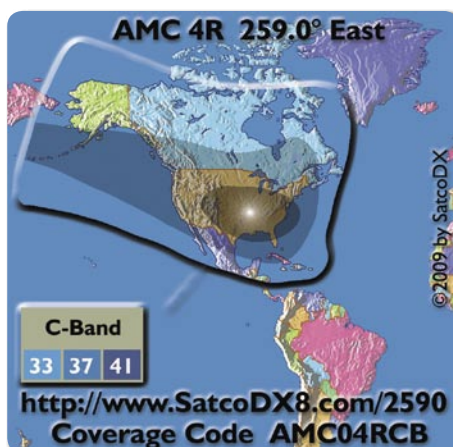
BADR-5

This EADS-Astrium built satellite with 1 Ka-band and 56 Ku-band transponders will be co-located with the rest of ARABSAT's BADR constellation of Direct-To-Home satellites at its 26° East video "hot-spot", primarily providing full in-orbit back-up capacity both for BADR-4 and BADR-6 television services, now reaching an audience of 164 million viewers in Middle East and North Africa. Most of its transponders will have pan-Arabic coverage that excludes Southern parts of Europe for content rights management constraints. However, BADR-5 will also have transponders with coverage focusing on Maghreb region, South Africa and Central Asia. Its complementary missions will include providing support to the expected HD-TV boom and to the development of new sophisticated interactive television services by the broadcasters in Ka-band. The Eurostar E3000 model satellite with a launch mass of 5400 kg and a spacecraft power of 14 kW at the end of its 15-year service lifetime shall be launched by an Ariane 5 from the Space Center in Kourou, French Guiana.



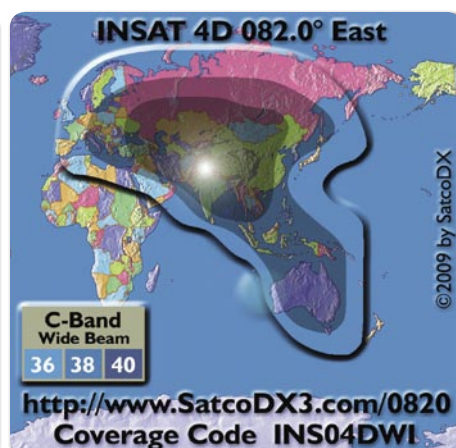
AMC-4R

SES-Americom's AMC-4R satellite will replace existing AMC-4 satellite at 259° East (101° West). It will have 24 C-band and 24 Ku-band transponders, all of them 36 MHz wide. AMC-4R will serve the Continental United States and portions of the Caribbean. Six of the channels in each band can be cross-strapped to the opposite band, allowing signals to be transmitted to the satellite in one frequency and received in the other, giving customers added flexibility while enabling new service developments and enhancements. This Orbital Sciences Corporation Star-2.4 satellite with an expected lifetime of 15 years and a launch mass of 3,170 kg, will be launched from Baikonur cosmodrome on the Proton Breeze M vehicle.



INSAT 4D

This Indian Space Research Organisation satellite will be launched into orbit on the India's own cryogenic engine based GSLV (Geosynchronous Satellite Launch Vehicle) Mk.II expendable launch system that is capable of launching 2500 kg into geostationary transfer orbit. It will have 18 C-band transponders, 12 of which will operate in the normal C-band with wider coverage in uplink and downlink to cover Asia, Africa and Eastern Europe/zonal coverage. The remaining 6 transponders operate in Extended C-band and cover India only. This satellite will be positioned at 82° East, very near to the 83° East orbital slot which is already occupied by three INSAT satellites – 2E, 3B and 4A. Its launch mass is 2250 kg.





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EUROPE

EUROPE

KYLIN AND PHOENIX TV TEAM UP ON IPTV PLATFORM

Chinese IPTV platform KyLinTV has teamed up with Phoenix China News and Entertainment, aimed at delivering the latest and best in Chinese TV programming to viewers in Europe. KyLinTV Europe will offer more than 20 popular Chinese TV channels from mainland China, Hong Kong, Macau and Taiwan. Those include Phoenix China News and Entertainment, Phoenix InfoNews, CCTV-9, CCTV-E, CCTV-F, MASTV, Sun TV, PTS Dimo, Kunlun Drama and Yangtze Drama. The new service will also include a children's channel, business channel Trading Day.

PENTHOUSE TO LAUNCH HD ADULT CHANNELS

Penthouse is launching three pan-European high-definition adult channels. The channels will be operated by Digital Media Productions, a subsidiary of Friend Finder Networks, PH Media and Russia's General Satellite. The three channels are Penthouse HD, a softcore offering, targeting markets such as Germany and the UK, while Penthouse HD1 and Penthouse HD2 are hardcore services and will broadcast to markets where such content is currently available, such as France, Spain and The Netherlands.

AUSTRIA

TELEKOM AUSTRIA REACHES 75.000 IPTV SUBSCRIBERS

Telekom Austria recently celebrated reaching its 75,000th customer for aonTV and reported that the platform's footprint now covers 65% of all households in the country. The IPTV service offers 63 linear channels on its basic tier, as well as over 300 on-demand movies (including the release of blockbuster movies simultaneously with their DVD release), and the option to subscribe to a number of premium channels, in addition to interactive features such as traffic and weather reports.

BELARUS

BELTELECOM SELECTS VERIMATRIX FOR IPTV PROTECTION

The Verimatrix Video Content Authority System for IPTV has been implemented by Beltelecom. VCAS for IPTV is the integrated content security solution for ZTE's ZXBIV IPTV Eyewill platform that enables the delivery of Beltelecom's Premiere service available in all Belarus cities. Verimatrix's solution was a natural choice for Beltelecom because of its IP-centric, software-based advantages and dominant leadership position in Eastern Europe.

BELGIUM

BELGACOM REACHES 589.000 IPTV SUBSCRIBERS

Belgacom added 82,000 subscribers to its IPTV service Belgacom TV in the first half of this year to reach a total of 589,000 customers by last June. Revenues for the service meanwhile reached €59 million for the first half of this year, up 53.3% from the same period of last year. Average revenue per user for Belgacom TV reached €19.80 by June

2009, compared to €19.50 one year previously. Belgacom has invested a total of €44 million in its TV service in the first half of this year, including in the platform, set-top boxes and content.

CROATIA

T-HRVATSKI TELEKOM WITH 170.000 IPTV SUBSCRIBERS

T-Hrvatski Telekom (T-HT) reached 170,591 subscribers for its IPTV service MAXtv by the end of June, up 138.2% from one year previously, having added 19,638 customers in the second quarter of this year alone.

ESTONIA

IPTV TAKE-UP BY 40 PER CENT

According to the annual publication "Telecoms, Mobile and Broadband in Estonia", broadband TV (IPTV) is used by over 10% of total of TV viewers, with a 40% annual increase in subscriptions during 2008 alone. Subscriber figures for major cable TV operators have remained constant since IPTV was introduced in 2006, suggesting IPTV has been predominantly taken up by first time pay TV subscribers.

FRANCE

VIAPASS OPTS FOR MICROSOFT MEDIAROOM IPTV PLATFORM

Viapass has selected the Microsoft Mediaroom platform as the basis for an interactive TV-enabled IPTV service that its Viapass TV subsidiary plans to offer to hotels, hospitals and MDU's. According to Microsoft, Viapass will be the first European Mediaroom customer to take advantage of the platform's virtualization capability. According to Viapass, the new IPTV service - to launch in the fourth quarter - will offer live TV and VOD, HD, and rich interactive TV applications, most likely including travel information, financial and news.

SFR AND NETGEM BOOST IPTV PARTNERSHIP

SFR and Netgem have announced the signing of a licence and knowledge-transfer agreement for Netgem's IPTV middleware. The Netgem middleware is the operating system of SFR's IPTV terminals that are provided within SFR's triple-play service. The agreement will enable both parties to continue their business partnership, while allowing SFR to completely manage the evolution of its IPTV services, and Netgem to capitalise on its expertise and technology within the rapidly developing, global IPTV market.

THOMSON DELIVERS HD STBS TO ORANGE

Thomson has commenced deliveries of a new version of its hybrid (ADSL and broadcast) HD set-top box to Orange for its digital TV service in France, supporting both free-to-air and subscription TV services, as well as interactive and on-demand services. As a result, subscribers can use Orange Television's catch-up TV service and its extensive library of VOD content, including those available in HD, through a seamless interface.

GERMANY

IPTV USERS TO GROW BY 50% IN 2010

Bitkom, the German association for information technology, telecommunications and new media, has presented a study estimating the number of IPTV users in the country to grow by 50% next year to 1.8 million. Some 180,000 viewers watched TV over the Internet in 2007. The following year, that number grew to 536,000 and by the end of 2009, it's expected to reach 1.2 million.

HISTORY HD TO LAUNCH ON SKY PLATFORM

A&E Television Networks and The History Channel Germany are teaming up to launch a bouquet of channels on the Sky platform in Germany and Austria, including History HD for the first time. The package of factual channels includes History in HD and SD and The Biography Channel.

PROSIEBENSAT.1 TO LAUNCH THREE HDTV CHANNELS

ProSiebenSat.1 will launch high-definition versions of its three free-to-air flagship channels from the beginning of next year. The company's Free TV Group has tied with satellite operator SES Astra to add Sat.1, ProSieben and Kabel Eins to the line up of the latter's HD+ service, which is due to go live in January 2010.

GREECE

OTE'S IPTV REACHES 25 CITIES

OTE has launched its IPTV services in five additional cities, bringing the total number of cities covered to 25. The conn-x TV service was soft launched in October 2008 in Athens and the surrounding Attica region, Thessaloniki, Patras, Larissa and Iraklion (on the island of Crete), ahead of a full commercial launch in February 2009 and subsequent expansion to other cities. Most recently the service was launched in Veria, Giannitsa, Katerini, Rethymnon and Chania, and OTE plans to reach all major cities in Greece by the end of this year.

IRELAND

CHORUS LAUNCHES HDTV SERVICES ON CABLE

Chorus ntl has unveiled its new high definition digital + TV service in Ireland which features a range of programmes from channels including BBC HD and Discovery HD. The service also includes functionality to pause, record and rewind up to 140 hours of live television. The HD Digital+ Set Top Box delivers a high-resolution crystal clear picture with Dolby Digital surround sound.

ITALY

TELECOM OPERATORS WORKING ON IPTV STANDARD

According to local media reports, the three main IPTV operators - Telecom Italia, FastWeb and Wind - have joined together to establish a common standard for IPTV set-top boxes. The aim is to support development of a set-top box compatible with all three IPTV services as well as Italian DTT and DTH signals, which could substantially lower production and development costs. The new set-top box could be available as soon as this November.

LITHUANIA

TEO CLOSE TO 50.000 IPTV SUBSCRIBERS

Teo added 7,600 subscribers to its IPTV service Gala TV in the first six months of this year, bringing the total to 47,900 at the end of June. Revenues from television services (both IPTV and DVB-T) accounted for 3.1% of total revenues.

PORTUGAL

PORTUGAL TELECOM LAUNCHES FTTH NETWORK IN MADEIRA

Portugal Telecom has launched triple-play services delivered over its new fibre-to-the-home (FTTH) network on the island of Madeira. The "Meo Fibra 20 Megas" package offers, 20 Mbps Internet, unlimited telephone calls and 70 linear channels on the IPTV service Meo,



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costing €47.41. The "Meo Fibra 100 Megas" offers 100 Mbps Internet, unlimited telephone calls and 100 linear channels for EUR 61.66 per month.

VODAFONE PORTUGAL LAUNCHES IPTV SERVICE

Vodafone Portugal has launched a new IPTV service, Vodafone Casa TV, for its existing DSL customer base. To entice subscribers to sign up for its IPTV service, Vodafone Portugal will offer Casa TV for free to current broadband customers until the end of 2009. New customers will be able to purchase a triple play bundle with 24 Mbps Internet service for USD 28.11 beginning in September, a rate that will rise to USD 56.37 per month at the end of the year.

SCANDINAVIA

TELIAISONERA PASSES 532.000 IPTV SUBSCRIBERS

TeliaSonera reached 532,000 IPTV subscribers at the end of the second quarter of this year. The company added 23,000 IPTV subscribers across all markets in the three months to June 2009, of which 17,000 were in Sweden. TeliaSonera now has 350,000 IPTV subscribers in Sweden, 5,000 in Norway, 3,000 in Denmark, 86,000 in Lithuania and 88,000 in Estonia. Revenues from IPTV services tripled in the second quarter of this year compared to the same period of last year.

VIASAT ENDS SECOND QUARTER WITH 112.000 IPTV SUBSCRIBERS

Viasat Broadcasting ended the second quarter with 112,000 IPTV subscribers, breaking the 100,000 subscriber mark for the first time and more than doubling the 51,000 IPTV subscribers it had in 2008.

UNITED KINGDOM

SKY NEWS TO LAUNCH HD VERSION

Sky News is to become the first UK news channel to launch in high definition, with a dedicated HD channel rolling out in the first quarter of 2010, following an upgrade to studios and production facilities. Sky News HD will be simulcast alongside Sky News's existing standard definition channel.

FIVE AWARDED FINAL FREEVIEW SLOT

UK media regulator Ofcom has awarded terrestrial channel Five the final vacant HD slot on the Freeview platform, which it will fill with a HD simulcast of its main channel from 2010. Five anticipates sharing the slot, using it in peaktime while another broadcaster uses it during the day.

IP VISION OFFERS BBC IPLAYER

IP Vision has become the first company to offer the BBC's iPlayer catch-up service via IPTV, using its Fetch TV SmartBoxes. Users are able to watch BBC iPlayer catch-up content directly on their televisions as well as selected video from Channel 4, Sky Sports News, Discovery Channel and CNN. The device can be connected to any UK broadband service allowing the user to access more than 1,500 hours of VoD content direct to their TV screen.

BSKYB TO LAUNCH 3D TV IN 2010

BSkyB has announced it will launch the UK's first 3D channel next year, offering a broad selection of the best available 3D programming, which is expected to include movies, entertainment and sport. The service will be broadcast across Sky's existing HD infrastructure and be available via the current generation of Sky+HD set-top boxes. To watch 3D, customers will also require a new '3D Ready' TV, which are expected to be on sale in the UK next year.

BT SIGNS IPTV DEALS WITH ESPN, SONY

BT Vision has signed a deal with Disney-owned ESPN to carry the new U.K. ESPN channel offering live Premier League football. BT Vision, which has about 500,000 IPTV customers, said its users would be able to access ESPN for free if they were in the top three subscription tiers and would retail at US\$ 25 per month for other customers. BT has also entered a deal which will see it airing on demand Sony Pictures, which includes the offerings of many major Hollywood studios including Warner Bros, Disney, Fox, and NBC Universal.

NORTH AMERICA

CANADA

TELESAT CANADA SELL LEASEHOLD TO APT SATELLITE

Telesat Canada has sold its leasehold interests in a satellite to APT Satellite of Hong Kong for US\$ 69 million. APT has been operating Telstar 10, also known as Apstar 2. The agreement to transfer Telstar 10, originally announced in May, was made for several reasons, Telesat said, including a "complex regulatory environment" and the fact that the satellite is scheduled for replacement. Telesat Canada, which lost \$822 million in 2008, will use the proceeds to either repay debt or replace satellites.

UNITED STATES

VERIZON IN HD DISPUTE WITH CABLEVISION

Verizon Communications said in a complaint that the Federal Communications Commission should compel Cablevision Systems Corp. and its Madison Square Garden network to provide it with high-definition sports programming. In the complaint, filed with the FCC, Verizon said Cablevision "continually

has denied Verizon access to the HD versions of its regional sports programming on any terms."

DISH OFFERS HD IN 150 MARKETS

Dish Network has increased the number of markets it serves with HD to 150, now serving over 92% of their customers with HD locals. Dish Networks HD claims its local markets count is far higher than that of HD markets offered by DirecTV. DirecTV intends to offer 133 HD cities by the end of the 3rd quarter of 2009.

CABLEVISION OFFERS MORE THAN 100 HD CHANNELS

After launching 27 new high-definition channels in its Long Island, New Jersey and Connecticut systems, Cablevision Systems now offers more than 100 channels of free HD now available across its entire service area. The company said approximately 1.6 million of digital cable customers take HD service, up almost 40% from a year ago. Overall, Cablevision had 2.8 million digital video customers as of the end of March.

FIOS OFFERS UP TO 130 HD CHANNELS

With the recent addition of six new HD channels from Viacom's MTV Networks, FiOS TV customers now have to access 118 to 130 HD channels, depending on the number of local and regional HD channels in the market.

ONEFI SIGNS IPTV MOU

OneFi Technology has signed a MOU to provide IPTV for its networks. The IPTV will be in both standard digital and High Definition.

tion. The offering, which OneFi will be able to deliver, is in excess of 800 channels.

AT&T EXTENDS ALCATEL DEAL FOR IPTV PLATFORM

AT&T has extended Alcatel-Lucent's contract for end-to-end multivendor network integration for AT&T U-verse. The portfolio brings together TV, High Speed Internet and Voice services all delivered over AT&T's advanced IP network using Alcatel-Lucent's Triple Play Service Delivery Architecture. AT&T U-verse services are now offered in 93 markets in 19 states, with more than 1.3 million U-verse TV customers.

VERIZON REACHES 2.5 MILLION IPTV SUBSCRIBERS

Verizon added 300,000 new subscribers to its IPTV service in the past three months, pushing it past the 2.5 million mark. The company maintained the same subscriber growth in its second quarter as in its first. Over the past year Verizon has signed up 1.1 million IPTV customers, around the same as rival AT&T, which trails behind with a total of 1.6 million subscribers.

EPIX HD TO LAUNCH ON FIOS TV

Epix HD has signed an agreement with Verizon to run its channel on Verizon's FiOS TV network, a distribution deal that could reach as many as 2.5 million households. The 15-month-old joint venture owned by Viacom (Paramount Pictures), Lions Gate Entertainment and Metro-Goldwyn-Mayer Studios will start service exclusively with Verizon on October 1.

SUREWEST TO DELIVER IPTV OVER ADSL2+

SureWest Communications is planning to IPTV over ADSL2+ lines to some 25,000 homes in Sacramento, California. The company already offers IPTV through its FTTH network, but its ADSL2+ customers have so far only had access to SureWest's voice and data services. The company recently decided to switch from Minerva middleware to Microsoft's Mediaroom and to use MPEG-4 encoding for video compression.

AT&T ARRIVES TO 1.6 MILLION IPTV SUBSCRIBERS

AT&T has added nearly a quarter of a million new customers to its U-Verse IPTV service in the second quarter of this year. The operator reported a 248,000 net increase in U-verse users in the three months to June 30, bringing the total subscriber base to 1.6 million.

LATIN AMERICA

IPTV TO CAPTURE 5.7% OF REGIONAL PAY-TV MARKET

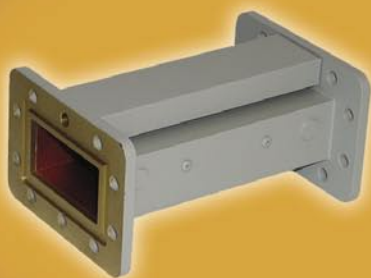
IPTV operators will hold 5.7% of Latin America's pay-TV subscribers by 2014, according to a new report from Argentinian consultancy Signals Telecom Consulting. Brazil, Mexico, Venezuela and Colombia (in that order) will add the largest number of IPTV subscribers in the medium term. IPTV services will be available to more than 13 million households in the region by 2014. Investments in the development of IPTV platforms in Latin America are expected to exceed US\$ 4.2 billion by 2014.



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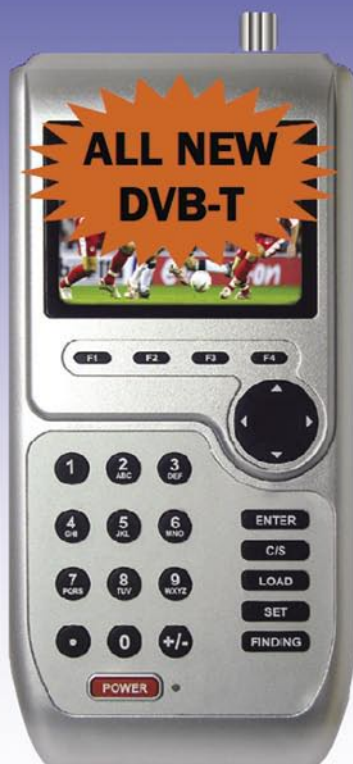
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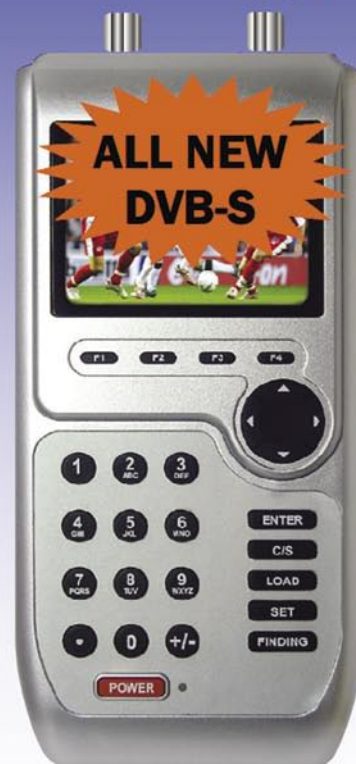
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ILS AND SES AGREE ON QUETZSAT-1 LAUNCH

ILS and SES have announced the execution of an agreement for the launch of QuetzSat-1 on a Proton booster in 2011. QuetzSat-1 is under construction by Space Systems/Loral on behalf of SES Satellite Leasing in the Isle of Man. QuetzSat-1 is a Ku-band satellite that will be located at the orbital position of 77 degrees West, providing coverage over Mexico, North America and Central America. The satellite will be used in part by Dish Mexico, an EchoStar joint venture, for DTH services in Mexico.

BERMUDA

PROTOSTAR FILES FOR BANKRUPTCY

Bermuda-based ProtoStar, the operator of two satellites providing digital TV and broadband Internet to Asia, filed for bankruptcy protection in the US, citing a dispute over a contract cancelled by Moscow-based Intersputnik. The company operates two satellites, ProtoStar I, which was launched in July 2008 and ProtoStar II, launched in May. The company said it plans to sell one or both satellites in bankruptcy. ProtoStar said it was forced to shut down operations of ProtoStar I after it received a termination notice in April from Intersputnik, which has the rights to ProtoStar I's orbital slot.

MEXICO

TELMEX EXPECTS REGULATORY APPROVAL FOR IPTV

Telmex has confirmed a capital expenditure plan of MXN 8 billion (US\$ 606 million) for 2009, and is still intending to launch IPTV services once it receives regulatory approval. Speaking during a conference call, Adolfo Cerezo, CFO of Telmex, said that if and when it receives regulatory approval to offer pay-TV, Telmex will offer the

services through a combination of IPTV technology using its fixed-line network and satellite TV.

VENEZUELA

VERIMATRIX TO SECURE CANTV IPTV SERVICE

CANTV has selected the Verimatrix Video Content Authority System for IPTV. VCAS for IPTV has been integrated with ZTE's ZXBIV IPTV Eyewill solution for the CANTV deployment. In this initial deployment phase, CANTV plans to offer IPTV services with 140 channels to 67,000 subscribers, which is considered the largest IPTV project in South America. CANTV is targeting 1.26 million IPTV customers within the next six years. The IPTV service will feature VOD, live TV pause, PVR capabilities and time-shifted TV and is expected to launch at the end of 2009.

ASIA & PACIFIC

INTELSAT TO 5 SATELLITES FOR ASIA BY 2012

Intelsat expects to launch 11 satellites between now and the end of 2012, five of which will provide new or replacement capacity in the Asia-Pacific region. The Intelsat 17 satellite (66° E) will provide capacity across Europe, the Middle East, Russia and Asia, as well as expand C-band video distribution in the IOR. The Intelsat 18 satellite (180° E) will provide services to the Pacific Islands and the Western US. The Intelsat 19 satellite (166° E) will increase Ku-band capacity in Australia, while C-band capacity will be available throughout Asia-Pacific with reach to the Western US. The Intelsat 20 satellite (68.5° E) will provide C-band penetration in South Asia while the Ku-band payload will provide services into Asia, Africa and the Middle East.

ASIASAT READY FOR LAUNCH

AsiaSat-5, a new commercial satellite built by Space Systems/Loral, is scheduled to launch in early- to mid-August aboard a ILS Proton Breeze M launch vehicle provided by International Launch Services (ILS). AsiaSat 5 will replace AsiaSat 2 at the orbital location of 100.5 degrees East and carries 26 C-band and 14 Ku-band transponders.

UTSTARCOM LEADING IPTV PROVIDER IN ASIA

UTStarcom was named the leading IPTV provider in Asia in Multimedia Research Group's latest Global IPTV Market Leaders Report. The in-depth analysis tracks the top 100 IPTV vendors in 24 regional sub-segments. UTStarcom's strategic IPTV deployments and strong subscriber gains drove the company's rise to the top in the Access, VOD, STB, Middleware and Content Protection categories.

MENA REGION OFFERS GOOD IPTV POTENTIAL

IPTV offers a potential opportunity for telecom companies in the Middle East and North Africa (MENA) region, according to a new report by Booz & Company. A few operators have recently launched IPTV ventures, and more are in the pipeline. However, IPTV household penetration at the beginning of 2008 was low at just 0.2 per cent.

ARMENIA

UCOM SELECTS ERICSSON FOR IPTV ROLLOUT

United Communications (Ucom) has selected Ericsson to deliver its IPTV solution including GPON technology to support the operator's rollout of IPTV services next month. The services will be delivered using Ericsson's GPON fibre-access technology, enabling subscri-

ers to watch several HDTV channels, download large files from the Internet and place voice calls simultaneously without service disruptions.

AUSTRALIA

FOXTEL TO PROVIDE 4 HD CHANNELS FOR OLYMPICS

Foxtel will provide Australian TV viewers with four channels of live, HD coverage of the Vancouver Winter Olympics in February, according to CEO Kim Williams. Under its rights deal, Foxtel gets live, simultaneous rights to all Olympic events except the opening and closing ceremonies, for which it has replay rights. The four HD Olympics channels will be simulcast in standard definition for those pay TV subscribers that don't have a high-definition set-top box.

TELSTRA TERMINATES MICROSOFT IPTV EVALUATION

Telstra is still searching for an Internet television platform, having decided to terminate its evaluation of Microsoft's IPTV system. Telstra is sticking to that line despite reports that it was pitching for partnerships with TV broadcasters and aimed to launch a service in 18 months.

TWO NEW IPTV OPERATORS TAKE ON FOXTEL

Two European content Companies are set to take on the Foxtel pay TV monopoly, with new IPTV services, which include movies, and all free to air TV stations in Australia. TriplePlay is expected to announce their new service by the end of the summer. Also set to enter the Australian market is Fetch TV who, via a set top box, plan to deliver every free to air TV station in Australia including all HD channels as well as 25 selected channels as well as movie downloads.

AZERBAIJAN

ORBITAL TO LAUNCH COUNTRY'S FIRST SATELLITE

Orbital Sciences Corporation has won a tender from the government of Azerbaijan to put the country's first telecommunications satellite into orbit. Orbital was the best bidder, followed by Space Systems/Loral Inc. and Thales Alenia Space. The satellite is slated for launch in December 2011. Azerbaijan has leased two orbital slots to orbit two satellites – AzerSpace and AzerSat. Azerbaijan's satellite will deliver broadcasting services though a broader area covering the entire Europe (excluding Scandinavia) and half of Asia with most of Kazakhstan.

CHINA

ERICSSON WINS CHINESE DEALS

Ericsson has signed contracts with China's top three telecom operators to provide fixed-line broadband access. China Mobile, China Unicom and China Telecom were upgrading their networks to provide services such as high-speed broadband and high-definition IPTV.

CHINA TELECOM LAUNCHES NEW IPTV BID PROCESS

China Telecom has launched a new round of a bidding process for IPTV set-top box terminals to make preparations for implementing its new strategy following the acquisition of China Unicom's CDMA network. A total of 16 companies have submitted their bids including ZTE, Huawei Technologies, UTStarcom, Shanghai Bell, and Guangzhou New Postcom Equipment. Only five of them will be the winners. So far, China Telecom has some 2 million IPTV subscribers, mainly located in major cities such as Shanghai.

INDIA

BSNL LAUNCHES IPTV SERVICES IN KOLKATA

BSNL-Calcutta Telephones in partnership with Smart Digivision has rolled out IPTV services in Kolkata under the 'MyWay' brand. BSNL customers in the city will be able to access IPTV using their broadband, fixed-line connection and a set-top box. On offer are content (video, games, music and education) on demand and interactive style service.

GREEN LIGHT FOR NEW GSAT SATELLITES

The Cabinet has approved a communication satellite, GSAT 10, which will replace the existing and ageing Insat 2E and Insat 3B satellites. The satellite will have 12 high power Ku-band transponders, 12 C-band and 12 Extended C band India coverage transponders and a navigation payload. It will also provide on-orbit back up for the GAGAN navigation payload. The Cabinet also approved the launch of GSAT 11 within 30 months with 16 beams in Ku-band. The two new communication satellites are to be launched within the next three years at a cost of Rs 12.35 billion.

DD RECEIVES GREEN LIGHT FOR HD PLANS

The Union Cabinet has greenlighted an ambitious Rs 165 crore plan to allow Doordarshan to upgrade its picture quality to HDTV. This will pave the way for DD to telecast the Commonwealth Games 2010 in the new format. Most of DD's 1,400 transmitters are still on analogue mode, which requires an antenna, and the public broadcaster will need to digitise its entire system.

KEISENSE AND DIVINET TO DELIVER IPTV

IPTV solutions provider DiviNet and Keisense have announced the successful integration of Keisense's ConnectiVi into DiviNet's IPTV network. The combined solution will enable a range of interactive services over legacy TV sets. A consortium, made up of DiviNet, WICE Net and MKCL, is providing IPTV services on the BSNL's broadband network, and are providing IPTV services in 21 cities covering 5 states in India. WICE Net, the operations partner of DiviNet, has also deployed IPTV solution in Ghana, on Vodafone Ghana network.

MALAYSIA

MEASAT-3A SUCCESSFULLY LAUNCHED

Malaysia's newest satellite, the MEASAT-3a satellite, was successfully launched on June 22 from the Baikonur Cosmodrome and became operational in July. It will replace MEASAT-1 at 91.5 degrees East which is scheduled to complete its service in 2015. The company now has four satellites in orbit.

TELEKOM MALAYSIA TO LAUNCH IPTV SERVICE

Malaysia's sole pay-TV operator, Astro All Asia Networks, is expected to face stiff competition from Telekom Malaysia's upcoming IPTV service, but will likely remain dominant in the short term, according to local market analysts. TM will rollout its IPTV service by the first quarter 2010.

FINE TV AIMS TO INCREASE SUBSCRIBER BASE TO 22.000

IPTV operator Fine TV, which launched its service in December 2005, currently has about 1.000 subscribers nationwide, with the bulk of these in the Klang Valley. Its owner, Network Guidance, plans to increase its subscriber base to 22.000 by 2011. There are currently 20 channels available on Fine TV and subscribers only need a 1Mbps broadband connection speed.

NEW ZEALAND

TELSTRACLEAR TO DEVELOP HYBRID IPTV BOX

TelstraClear has signed deals with Digisoft and Verimatrix to develop a high-definition hybrid cable/IPTV set-top box with PVR capabilities for its cable television subscribers. The new STB will be based on Digisoft's Digihost Service Delivery Platform and advanced Java middleware solution, and use the Verimatrix Video Content Authority System for DVB content protection solution, enabling TelstraClear to combine its cable broadcast network with interactive IP delivery using a single content security architecture

THE PHILLIPPINES

PLDT ADDS HD CHANNELS

Mediascape, a wholly owned subsidiary of MediaQuest, which in turn is owned by the PLDT Beneficial Trust Fund (BTF), is adding more HDTV channels following an encouraging take-up of its recently launched DTH satellite-TV service. At present, MediScape's DTH offering under the brand Signal offers two HD channels. Subscription of the service is now at around 3,000. On top of the two HD channels, Signal also offers 20 channels in standard definition.

QATAR

QTEL COMPLETES FTTH TRIAL

Qatar Telecom (Qtel) has completed a trial of fibre-to-the-home (FTTH) technology. The new broadband service should be available to Qtel customers in the Mesaieed and West Bay Lagoon areas by the end of 2009, giving access to internet connection speeds of up to 50Mbps initially, upgradeable to 100Mbps in the near future. Qtel's FTTH trial was carried out in partnership with China's Huawei Technologies and featured triple-play internet, telephony and IPTV services.

SINGAPORE

MIO TV TOPS 100.000 CUSTOMER MARK

Singapore Telecommunications' IPTV platform mio TV has passed the 100,000 customer mark as it celebrates its second birthday. Launched in July 2007, mio TV delivers 61 channels, of which 19 are on-demand channels.

SOUTH KOREA

IPTV SUBSCRIBERS EXCEED 600.000

According to the Korea Communications Commission yesterday, the number of IPTV subscribers in Korea at present exceeds 600,000. This is in comparison to a little less than 100,000 this January. And the number of new subscribers is growing rapidly every month, with 94.000 new subscribers in June and 126.000 new subscribers in July. At the end of July, KT had 273.000 subscribers, while LG Dacom and SK Broadband had 189.000 and 132.000, respectively.

UNITED ARAB EMIRATES

E-VISION LAUNCHES FIRST HDTV SERVICE IN REGION

E-Vision has launched the first commercial HDTV service in the Middle East which will initially offer content from Abu Dhabi TV HD, Luxe HD, Fashion TV HD, Showtime HD and Al Jazeera Sports HD. E-Vision customers need to buy a new set-top box that costs Dhs999 (US\$ 270) and pay an additional monthly fee of Dhs30. Showtime Cable Premier customers will be able to upgrade to a new package that includes the HD service for an additional Dhs45 per month. Showtime said its new HD channel

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250 CM



240 CM



220 CM



210 CM



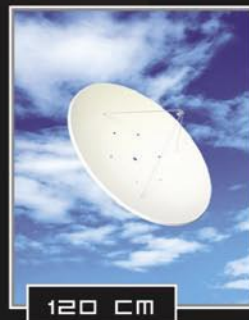
190 CM



170 CM



140 CM



120 CM



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would include three English Premier League football matches each week, as well as hit TV shows.

DU TO LAUNCH HDTV IN 2010

du launched a pay-TV service in the UAE whose star attraction is undoubtedly HDTV. Currently HD channels like National Geographic HD, myZen TV, Luxe TV and Showtime HD are available as part of the suite of Free-to-Air channels at no extra charge until 31 July, 2009. The du TV service is powered by the IPTV software platform Microsoft Mediaroom. The basic package includes more than 130 channels from around the world in different genres and subscribers will also have access to pay-TV bouquets from Showtime, Orbit Pehla, Firstnet, ART and JSTV.

ABU DHABI HD TO ARRIVE IN OCTOBER

Abu Dhabi Media Company plans to launch its high-definition cable television channel in October. Abu Dhabi HD will feature programmes including English Premier League football matches, documentaries from National Geographic Abu Dhabi, drama and film – all in high definition. The channel will be available through E-Vision, Etisalat's cable television provider, to UAE viewers with compatible high-definition sets and set-top boxes.

AFRICA

INTELSAT AND CONVERGENCE PLAN NEW SATELLITE

New Dawn is a joint initiative between Intelsat and Convergence Partners that aims to build and launch a new satellite that will service the African continent's demand for communication infrastructure and to address current capacity constraints. The satellite is expected to cost US\$ 250 million with African institutions contributing 90% of the total financing required. The satellite is likely to be

known as Intelsat New Dawn and will be placed in a 33° west orbit. New Dawn is expected to be launched towards the end of this year and will become operational by the first quarter, 2010.

SOUTH AFRICA

MULTICHOICE TO LAUNCH IPTV SOLUTION IN OCTOBER

MultiChoice will release a commercial version of its IPTV solution in October. The offering will be streamed over the company's normal satellite connection to a server at a hotel or gated community, where the signal will be converted for packet transfer over the network. Users will have to buy a decoder with an Ethernet port that will then convert the data for TV viewing. MultiChoice says it has not finalised the costs for the new decoders, but promises that the price of the STB will be under US\$ 100 (R736).

WORLD

INTELSAT AWARDS SATELLITE CONTRACT TO BOEING

Boeing has won a four-satellite contract from Intelsat, the first order for Boeing's large 702B satellite series. The four Boeing 702B telecommunication satellites to be built will offer C- and Ku-band capacity to distribute video, network and voice services from Asia and Africa to the Americas and Europe.

IPTV SUBSCRIBERS TO GROW TO 155 MILLION BY 2013

The number of IPTV subscribers worldwide more than doubled in 2008 to reach 26 million, and is predicted to surge to around 155 million by 2013, according to a new report from Infonetics Research. The report also indicates

that IP set-top box sales will grow at an average of 14% annually between 2008 and 2013. By the end of the period, service providers are expected to derive about US\$ 56 billion worldwide from IPTV services. The only region to have seen growth in IPTV revenue was Central and Latin America, according to the report.

ITU GIVES INITIAL APPROVAL TO NEW IPTV STANDARD

The International Telecommunications Union (ITU) has given first-stage approval to a new standard that enables an IPTV end-user to locate and subscribe to content coming from different, independent service providers. Recommendation ITU-T H.770 describes the mechanisms for service provider discovery, service discovery and selection. The ITU relates that it believes the new standard will "enable a greater deal of choice for end-users and will help service providers offer a more competitive package".

MTV EXPANDS GLOBAL HD COVERAGE

MTV Networks is to launch its international HD channel in Austria, Brazil, Croatia, Italy, Mexico, Peru, Portugal and Spain by the end of the year. MTVNHD started broadcasting last autumn and is already available in 21 countries.

IPTV WITH 40 MILLION SUBSCRIBERS IN 2009

The number of subscribers worldwide to IPTV services will approach 40 million by year-end 2009, according to international research firm Parks Associates. It is estimated that the number of IPTV households worldwide grew by nearly 80% in 2008 to exceed 20 million. The growth rate will exceed 50% in 2009.

Exhibition Preview

- **6 - 11 October 2009: CeBIT Eurasia**
ICT Trade Show
Tüyap Fuar ve Kongre Merkezi
E5 Karayolu, Gürpınar Kavşağı, 34522 Büyükçekmece
İstanbul, Turkey
www.cebitbilisim.com



- **21 - 23 October 2009: EEBC 2009**
7th Eastern Europe Exhibition and Conference in
Telecommunications and Broadcasting
Exhibition Centre "KyivExpoPlaza", Kiev, Ukraine
www.eebc.net.ua



- **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



- **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 Professionals
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.satcomafrika.com



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



TELE-satellite Deadlines

Editorial Deadlines, Magazine Publishing Dates

Number	Issue	Deadline	Hardcopies	Available Online
#214	12-01/2010	2 October 2009	13 November 2009	27 November 2009
#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

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Satellites of the World

C-Band: 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: BRASISAT B2 ◀ 295.0 East (065.0 West)
C-Band: BRASISAT 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: BRASISAT 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 10R - 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)

004.8 East ▶ SIRIUS 4 - South Africa

004.8 East ▶ SIRIUS 4 - Europe

007.0 East ▶ EUTELSAT W3A - Europe

007.0 East ▶ EUTELSAT W3A - South Africa

009.0 East ▶ EUROBIRO 9A - Europe

010.0 East ▶ EUTELSAT W2A - Europe

013.0 East ▶ HOTBIRD 6,8,9 - Europe, Middle East

016.0 East ▶ EUTELSAT W2 - Europe

016.0 East ▶ EUTELSAT W2 - East Africa

016.0 East ▶ EUROBIRO 16A

019.2 East ▶ ASTRA 1F,1G,1H,1KR,1L,1M - Europe

023.5 East ▶ ASTRA 1E,1G,3A - Europe

025.5 East ▶ EUROBIRO 2 - North Africa, Middle East

026.0 East ▶ BADR 4,6 - North Africa, Middle East

028.2 East ▶ ASTRA 2A,2B,2C,2D,EUROBIRO 1 - Europe

030.5 East ▶ ARABSAT 2B

030.5 East ▶ C-Band: ARABSAT 2B

031.3 East ▶ ASTRA 1D - Europe

033.0 East ▶ INTELSAT 802/EUROBIRO 3

036.0 East ▶ EUTELSAT SESAT, EUTELSAT W4 - East Europe

036.0 East ▶ EUTELSAT SESAT, EUTELSAT W4 - Africa

036.0 East ▶ EUTELSAT SESAT, EUTELSAT W4 - Europe

038.0 East ▶ C-Band: PAKSAT 1

038.0 East ▶ PAKSAT 1

039.0 East ▶ HELLAS SAT 2 - Europe

040.0 East ▶ EXPRESS AM1

040.0 East ▶ C-Band: EXPRESS AM1 - Europe, Russia

042.0 East ▶ TURKSAT 2A, 3A

045.0 East ▶ INTELSAT 12 - South Africa

045.0 East ▶ INTELSAT 12 - India

045.0 East ▶ INTELSAT 12 - Europe

049.0 East ▶ C-Band: YAMAL 202 - Asia, Europe

053.0 East ▶ EXPRESS AM22/SESAT 2

055.0 East ▶ C-Band: INSAT 3E

056.0 East ▶ BONUM 1

057.0 East ▶ NSS 703

060.0 East ▶ INTELSAT 904

062.0 East ▶ INTELSAT 902

064.2 East ▶ C-Band: INTELSAT 906

066.0 East ▶ C-Band: INTELSAT 704

068.5 East ▶ INTELSAT 7, 10 - South Africa

068.5 East ▶ C-Band: INTELSAT 7,10

070.5 East ▶ EUTELSAT W5 - South East Asia

070.5 East ▶ EUTELSAT W5 - Europe

072.0 East ▶ C-Band: INTELSAT 4 - Africa

074.0 East ▶ C-Band: INSAT 3C

074.0 East ▶ EDUSAT, INSAT 4CR

075.0 East ▶ ABS-1 - South-East Asia - North Beam

075.0 East ▶ ABS-1 - South-East Asia - South Beam

075.0 East ▶ C-Band: ABS-1

076.5 East ▶ TELSTAR 10

076.5 East ▶ C-Band: TELSTAR 10

078.5 East ▶ THAICOM 5

078.5 East ▶ C-Band: THAICOM 5

080.0 East ▶ EXPRESS AM2

080.0 East ▶ C-Band: EXPRESS AM2

083.0 East ▶ INSAT 4A - India

083.0 East ▶ C-Band: INSAT 2E,3B

085.2 East ▶ INTELSAT 709

087.5 East ▶ C-Band: CHINASTAR 1

088.0 East ▶ C-Band: ST 1

088.0 East ▶ ST 1

090.0 East ▶ YAMAL 201

090.0 East ▶ C-Band: YAMAL 201

091.5 East ▶ MEASAT 3 - Indonesia

091.5 East ▶ C-Band: MEASAT 3

091.5 East ▶ MEASAT 3 - India

093.5 East ▶ C-Band: INSAT 3A,4B

095.0 East ▶ INSAT 4B, NSS 6 - India

095.0 East ▶ NSS 6 - South East Asia

096.5 East ▶ C-Band: EXPRESS AM 33

100.5 East ▶ C-Band: ASIASEAT 2

100.5 East ▶ ASIASEAT 2

103.0 East ▶ EXPRESS A2, KAZSAT 1

105.5 East ▶ C-Band: ASIASEAT 3S

105.5 East ▶ ASIASEAT 3S

107.7 East ▶ CAKRAWARTA 1

108.0 East ▶ C-Band: TELKOM 1

108.2 East ▶ NSS 11 - China

108.2 East ▶ NSS 11 - India

110.0 East ▶ BSAT 1A,2A

110.0 East ▶ N-SAT 110

110.5 East ▶ C-Band: SINOSAT 1

113.0 East ▶ C-Band: PALAPA C2

113.0 East ▶ KOREASAT 5

115.5 East ▶ C-Band: CHINASTAR 6B

116.0 East ▶ KOREASAT 3

120.0 East ▶ THAICOM 1A

122.2 East ▶ ASIASEAT 4

122.2 East ▶ C-Band: ASIASEAT 4

124.0 East ▶ JCSAT 4A

125.0 East ▶ C-Band: SINOSAT 3

128.0 East ▶ JCSAT 3A

128.0 East ▶ C-Band: JCSAT 3A

132.0 East ▶ C-Band: VINASAT 1(132.0E)

134.0 East ▶ C-Band: APSTAR 6

134.0 East ▶ APSTAR 6 - Asia

138.0 East ▶ TELSTAR 18

138.0 East ▶ C-Band: TELSTAR 18

140.0 East ▶ EXPRESS AM3

140.0 East ▶ C-Band: EXPRESS AM3

144.0 East ▶ SUPERBIRO C2

146.0 East ▶ AGILA 2

146.0 East ▶ C-Band: AGILA 2

148.0 East ▶ MEASAT 2

152.0 East ▶ OPTUS D2

154.0 East ▶ JCSAT 2A

156.0 East ▶ OPTUS C1

160.0 East ▶ OPTUS D1

166.0 East ▶ C-Band: INTELSAT 8

166.0 East ▶ INTELSAT 8

169.0 East ▶ C-Band: INTELSAT 5

172.0 East ▶ GE 23

172.0 East ▶ C-Band: GE 232



Global Satellite TV Chart

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

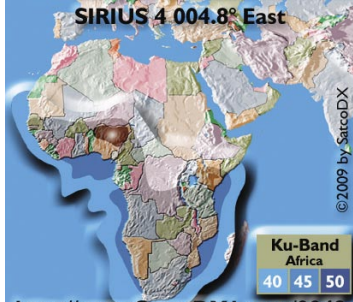
New Channels Since Last Issue of TELE-satellite Magazine are marked with a ●

South Africa

SIRIUS 4

4.9 East

SIR004KA



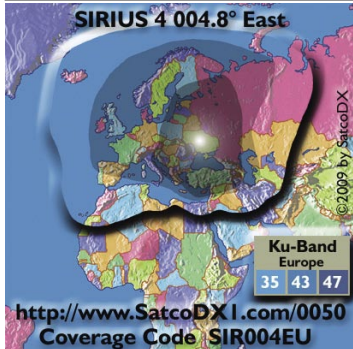
● 12.533 V STV1	2206	Advertisement
● 12.562 V Free2View Demo	27500	Quality Entertainment.
12.606 V 04 Walf TV	29950	News + Series
12.606 V 00 Canal Promo Afrig	29950	News + Series
12.606 V 01 VOX AFRICA	29950	News + Series
12.606 V 03 Prochainement	29950	News + Series
12.606 V 05 Prochainement	29950	News + Series
12.606 V 06 Prochainement	29950	News + Series
● 12.606 V 07 LMTV	29950	News + Series
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 11 MABCTV	29950	Low Level
● 12.606 V 21 BVN	29950	Quality Entertainment.
12.606 V 99 Canal Promo SAT	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
12.727 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

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**

same as before, but encrypted

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

same as 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.

11.766 H KANAL UKRAINA	27500	Quality Entertainment.
11.766 H TEST	27500	Quality Entertainment.
11.766 H TET	27500	Quality Entertainment.
11.766 H TRK Novyny	27500	Low Level
11.766 H Channel 5 (Ukraine)	27500	Quality Entertainment.
11.766 H GLAS	27500	Quality Entertainment.
11.766 H KRT	27500	Quality Entertainment.
11.766 H NOVY CHANNEL	27500	Quality Entertainment.
11.766 H RADA	27500	Quality Entertainment.
12.072 H UT1	27500	High Quality Home
12.072 H ENTER	27500	Quality Entertainment.
12.072 H ENTER-FILM	27500	Quality Entertainment.
12.072 H INTER+	27500	Quality Entertainment.
12.072 H OSK-Odessa	27500	Quality Entertainment.
12.072 H SCI	27500	Quality Entertainment.
12.072 H Star TV UKR	27500	Quality Entertainment.
12.072 H UBC	27500	Quality Entertainment.
12.072 H Univermag	27500	News + Series
● 12.111 H ESPN Europe	27500	Quality Entertainment.
● 12.111 H PB	27500	News + Series
● 12.111 H PG	27500	News + Series
● 12.111 H Romantica 1	27500	Quality Entertainment.
● 12.111 H Romantica 2	27500	Quality Entertainment.
● 12.111 H TNT Germany	27500	News + Series
● 12.111 H Travel	27500	Quality Entertainment.
● 12.111 H Amore TV	27500	Low Level
● 12.111 H CUSTOMER NETWORKS27500	27500	Quality Entertainment.
● 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	Low Level
12.149 H AXN SciFi	27500	News + Series
12.149 H Da Vinci Learning	27500	Low Level
12.149 H Eurosport	27500	Quality Entertainment.
12.149 H Kanal D	27500	Quality Entertainment.
12.149 H OTV	27500	Low Level
12.149 H Prima TV	27500	Low Level
12.149 H Realitatea	27500	News + Series
12.149 H TV Sport	27500	Low Level
12.149 H TVR 1	27500	News + Series
12.149 H TVR 2	27500	News + Series
12.149 H TVRM	27500	Low Level
12.149 H Viasat History	27500	News + Series
12.149 H AKTA Info	27500	Low Level
12.149 H TV Paprika	27500	Advertisement
● 12.169 V 1+1	27500	High Quality Home
● 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 Russkii Illusion	27500	High Quality Home
● 12.169 V Spice	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 Entertainment.
● 12.188 H TEST ENCODER2 AND	27500	Quality Entertainment.
● 12.188 H WHO TEST	27500	Quality Entertainment.
12.207 V 24 Texno	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 страшно	27500	High Quality Home
● 12.207 V Феникс + Кино	27500	High Quality Home
12.226 H Animal Planet Benelux	25540	News + Series
12.226 H Animal Planet Europe	25540	Quality Entertainment.
12.226 H Animal Planet Europe	25540	Low Level
12.226 H Animal Planet Poland	25540	News + Series
12.226 H Discovery Benelux	25540	Quality Entertainment.
12.226 H Discovery Benelux	25540	Quality Entertainment.
12.226 H Discovery Central EU	25540	News + Series
12.226 H Discovery Middle Eas	25540	News + Series
12.226 H Discovery Poland	25540	News + Series
12.226 H Discovery World	25540	Quality Entertainment.
12.226 H Discovery World - Cz	25540	News + Series
12.226 H Discovery World DV	25540	Quality Entertainment.
12.226 H Discovery World Turk	25540	News + Series
12.226 H ID Europe	25540	News + Series
12.226 H Science Europe	25540	News + Series
12.226 H Science Europe - Cze	25540	Quality Entertainment.
12.226 H Science Europe DVB	25540	Low Level
12.226 H Science Europe Turki	25540	News + Series
12.226 H Travel & Living Euro	25540	News + Series
12.226 H Travel & Living Euro	25540	Quality Entertainment.
● 12.245 V Ebs Europe By Satel	27500	Quality Entertainment.
● 12.245 V Ebs+	27500	Quality Entertainment.
12.265 H Boomerang	27500	Low Level
12.265 H Cartoon Network	27500	Low Level
12.265 H Discovery Science	27500	Quality Entertainment.
12.265 H Discovery Travel	27500	News + Series
12.265 H Discovery World	27500	Quality Entertainment.
12.265 H Hallmark	27500	News + Series
12.265 H Jetix	27500	Low Level
12.265 H Minimax	27500	Advertisement
12.265 H Movies 24	27500	News + Series
12.265 H Romantica	27500	Quality Entertainment.
12.265 H TCM	27500	Low Level
12.265 H TVR Cultural	27500	Quality Entertainment.
12.265 H Viasat Explorer	27500	Advertisement
12.265 H Canal Teleshop	27500	News + Series
12.265 H Etno	27500	News + Series
12.265 H Meteo TV	27500	News + Series
12.265 H Taraf	27500	Quality Entertainment.
● 12.284 V H264-Test	27500	High Quality Home
12.284 V AcasaTV	27500	News + Series
12.284 V Download	27500	Quality Entertainment.
12.284 V MTV Romania	27500	Home Cinema
12.284 V Pro TV	27500	Quality Entertainment.
12.284 V ProCinema	27500	News + Series
12.284 V Radio Pro Fm Infopro	27500	Quality Entertainment.
12.284 V Sport.ro	27500	Quality Entertainment.
12.284 V ProTV Intl	27500	Quality Entertainment.
12.303 H AP Romania Discovery	25548	Quality Entertainment.
12.303 H B4U	25548	Quality Entertainment.
12.303 H Disc Science-Poland	25548	Quality Entertainment.
12.303 H Disc World-Poland	25548	Quality Entertainment.
12.303 H Disc Romania	25548	Quality Entertainment.
12.303 H Discovery (Hungary)	25548	Quality Entertainment.
12.303 H Discovery Czech/Slov	25548	Quality Entertainment.
12.303 H TCM/Cartoon	25548	Quality Entertainment.
12.303 H TCM/Cartoon NL	25548	Quality Entertainment.
12.303 H TCM/Cartoon Russian	25548	Quality Entertainment.
● 12.303 H OU Enterprise	25548	Quality Entertainment.
● 12.341 H Acasa TV	27500	News + Series
12.341 H Animal Planet	27500	News + Series
12.341 H Antena 1	27500	News + Series

12.341 H B1	27500	News + Series
12.341 H Cinemax	27500	News + Series
12.341 H Discovery	27500	Quality Entertainment.
● 12.341 H FreeX TV	27500	News + Series
12.341 H HBO	27500	News + Series
12.341 H HBO Comedy	27500	News + Series
● 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 Entertainment.
● 12.341 H TV 1000	27500	News + Series
● 12.341 H XStream TV	27500	News + Series
12.360 V GreeceUn 1P9	27500	Quality Entertainment.
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 Entertainment.
12.360 V Hallmark Israel 1P8	27500	News + Series
12.360 V Hallmark Poland 1P3	27500	News + Series
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	News + Series
12.360 V KidsCo EastEur 1-8	27500	News + Series
12.360 V KidsCo EastEur 9-1	27500	Quality Entertainment.
12.360 V KidsCo EastEur Gre	27500	News + Series
12.360 V KidsCo EastEur Hun	27500	News + Series
12.360 V KidsCo EastEur Mi	27500	Quality Entertainment.
12.360 V KidsCo EastEur Pol	27500	News + Series
12.360 V KidsCo EastEur Rom	27500	Quality Entertainment.
12.360 V KidsCo EastEur Rus	27500	Quality Entertainment.
12.360 V KidsCo EastEur Tur	27500	News + Series
12.360 V KidsCo WestEur 1-8	27500	News + Series
12.360 V KidsCo WestEur 9-1	27500	News + Series
12.360 V KidsCo WestEur A11	27500	News + Series
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	News + Series
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	News + Series
12.360 V Mov24 CEE Romania	27500	News + Series
12.360 V Mov24 CEE Turkey 1	27500	News + Series
12.360 V Mov24 CEEEurope 1P11	27500	News + Series
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 Entertainment.
12.380 H Harness Racing	27500	News + Series
12.380 H Multmania	27500	News + Series
12.380 H NTV	27500	Quality Entertainment.
12.380 H Thoroughbred Racing	27500	News + Series
12.380 H Belsat TV	27500	Quality Entertainment.
12.380 H LTV World	27500	Quality Entertainment.
12.380 H TVCI new	27500	Quality Entertainment.
12.418 H Alphameric Games	27500	Quality Entertainment.
12.418 H Alphameric Games plu	27500	Quality Entertainment.
12.418 H Alphameric Studio	27500	Quality Entertainment.
12.418 H Alphameric Studio pl	27500	Quality Entertainment.
12.418 H ATRI - English	27500	Quality Entertainment.
12.418 H ATRI - German	27500	Quality Entertainment.
12.418 H Btffred	27500	Quality Entertainment.
12.418 H BETFRED TV	27500	Quality Entertainment.
12.418 H BOYLES SPORTS	27500	Quality Entertainment.
12.418 H BRAND TV DEMO	27500	Quality Entertainment.
12.418 H CCC TEST CHANNEL	27500	Quality Entertainment.
12.418 H CORAL - SIRIUS	27500	Quality Entertainment.
12.418 H CORAL EUROPE	27500	Quality Entertainment.
12.418 H CORAL UK SIS	27500	Quality Entertainment.
12.418 H CORAL WITH SIS DA	27500	Quality Entertainment.
12.418 H ESP CHANNEL - SIRI	27500	Quality Entertainment.
12.418 H EURO RACING - NO	27500	Quality Entertainment.

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

Freq Pol Channel Name	Symbol Rate	Programming Type	Freq Pol Channel Name	Symbol Rate	Programming Type	Freq Pol Channel Name	Symbol Rate	Programming Type	Freq Pol Channel Name	Symbol Rate	Programming Type
GHz	ksym/sec	SatcoDX Definition	GHz	ksym/sec	SatcoDX Definition	GHz	ksym/sec	SatcoDX Definition	GHz	ksym/sec	SatcoDX Definition
12.418 H EURO RACING - SIR	27500	Quality Entertain.	11.727 H DR Update	27500	Quality Entertain.	11.785 V SVT2 Östnytt	27500	Home Cinema	11.900 V MTV LT LV	27500	Quality Entertain.
12.418 H ISIS Channel	27500	Quality Entertain.	11.727 H TV 2 Sport	27500	Quality Entertain.	11.804 H Kanal 11	27500	Quality Entertain.	11.900 V RTR Planeta Baltic	27500	Quality Entertain.
12.418 H LADBROKES IP DATA	27500	Quality Entertain.	11.727 H TV2 Charlie	27500	Quality Entertain.	11.804 H MTV NO	27500	Quality Entertain.	11.900 V TV6 Estonia	27500	Quality Entertain.
12.418 H LTEST	27500	Quality Entertain.	11.727 H TV2 Film	27500	News + Series	11.804 H Ticket	27500	News + Series	11.900 V TV6 Latvia	27500	Quality Entertain.
12.418 H LXTRA SILVER	27500	Quality Entertain.	11.727 H TV2 Zulu	27500	Quality Entertain.	11.804 H TV 2 Filmkanalen	27500	Quality Entertain.	11.900 V Viasat Sport	27500	Quality Entertain.
12.418 H SIS Racing - Data	27500	Quality Entertain.	● 11.727 H Mustang	27500	News + Series	11.804 H TV4 Film	27500	Quality Entertain.	11.919 H MTV3 AVA	27500	News + Series
12.418 H SIS Racing - Germ	27500	Quality Entertain.	● 11.727 H tb-test	27500	News + Series	11.804 H TV4 Plus	27500	News + Series	11.919 H MTV3 Fakta	27500	News + Series
12.418 H SIS Racing - Germ	27500	Quality Entertain.	● 11.727 H Vibe Test	27500	News + Series	11.804 H TV400	27500	News + Series	11.919 H MTV3 MAX	27500	Quality Entertain.
12.418 H SIS Racing - INDE	27500	Quality Entertain.	11.747 V TV3 Puls	27500	Quality Entertain.	11.804 H Viasat History	27500	Quality Entertain.	11.919 H MTV3 Sarja	27500	News + Series
12.418 H SIS+	27500	Quality Entertain.	11.747 V TV4	27500	Quality Entertain.	11.804 H Viasat Sport Baltic	27500	Quality Entertain.	11.919 H Sub Juniori	27500	Low Level
12.418 H SPECIAL LADBROKES	27500	Quality Entertain.	11.747 V Viasat Xtra 4	27500	Quality Entertain.	11.823 V CNN	27500	Quality Entertain.	11.919 H Sub Leffa	27500	News + Series
12.418 H SPECIAL WILLIAM H	27500	Quality Entertain.	11.747 V Allsvenskan 1	27500	Advertisement	11.823 V DR 1	27500	Quality Entertain.	11.919 H TV 2 Nyhetskanalen	27500	Quality Entertain.
12.418 H STAN JAMES	27500	Quality Entertain.	11.747 V Allsvenskan 2	27500	Advertisement	11.823 V DR 2	27500	Quality Entertain.	11.919 H TV1000 Premium	27500	Quality Entertain.
12.418 H TEMP LADBROKES EI	27500	Quality Entertain.	11.747 V Allsvenskan 3	27500	Advertisement	11.823 V DR1	27500	Quality Entertain.	11.919 H Viasat Golf	27500	Quality Entertain.
12.418 H TOTE - SIRIUS	27500	Quality Entertain.	11.747 V Allsvenskan 4	27500	Advertisement	11.823 V DR2	27500	Quality Entertain.	● 11.938 V Animal Planet EE	27500	Quality Entertain.
12.418 H TOTE SIS AUDIO AN	27500	Quality Entertain.	11.747 V Allsvenskan 5	27500	Advertisement	11.823 V Explorer/Spice	27500	Quality Entertain.	11.938 V Cartoon/TCM EE	27500	News + Series
12.418 H VISION AUDIO AND	27500	Quality Entertain.	11.747 V TV 2 Sport 2	27500	Advertisement	11.823 V MTV DK	27500	Quality Entertain.	11.938 V Discovery EE	27500	News + Series
12.418 H WHO IP CLEAR	27500	Quality Entertain.	11.747 V TV 2 Sport 3	27500	Advertisement	11.823 V TV 2 SPORT	27500	Quality Entertain.	11.938 V Nat Geo / CNBC	27500	News + Series
12.608 H TV 1000 Ru Kino FS	27500	Quality Entertain.	11.747 V TV 2 Sport 4	27500	Advertisement	11.823 V TV1000 Ru Kino	27500	Quality Entertain.	11.938 V TV3 Mitt	27500	Quality Entertain.
12.608 H Tv1000 Action East	27500	Quality Entertain.	11.747 V TV 2 Sport 5	27500	Advertisement	11.823 V TV8	27500	Quality Entertain.	11.938 V TV3 Noryd	27500	Quality Entertain.
12.608 H TV1000 East FSS	27500	News + Series	11.747 V Viasat Xtra 1	27500	Advertisement	11.843 H 1st Baltic Ch. Eston	27500	Quality Entertain.	11.938 V TV3 Sør	27500	Quality Entertain.
12.608 H TV6 Hungary FSS	27500	Quality Entertain.	11.747 V Viasat Xtra 2	27500	Advertisement	11.843 H 1st Baltic Ch. Latv	27500	Quality Entertain.	11.938 V TV3 Väst	27500	Quality Entertain.
12.608 H Viasat Sport FSS	27500	Quality Entertain.	11.747 V Viasat Xtra 3	27500	Advertisement	11.843 H 1st Baltic Ch. Lithu	27500	Quality Entertain.	11.938 V TV3 Öst	27500	Quality Entertain.
12.608 H Viasat3 FSS	27500	Quality Entertain.	11.747 V Viasat Xtra 5	27500	Advertisement	11.843 H Lietuvos Rytas TV	27500	News + Series	11.958 H 3+ Baltics	27500	Quality Entertain.
12.637 H Explorer/Spice(FSS)	14463	Quality Entertain.	11.747 V Viasat Xtra 6	27500	Advertisement	11.843 H LNK	27500	News + Series	11.958 H 3+ Baltics E	27500	Quality Entertain.
12.637 H TV1000 Balkan FSS	14463	Quality Entertain.	11.785 V SVT1 ABC	27500	Quality Entertain.	11.843 H LTV7	27500	Quality Entertain.	11.958 H ETV	27500	News + Series
12.637 H TV1000 Poland (FSS)	14463	Quality Entertain.	11.785 V SVT1 Gävledala	27500	Quality Entertain.	11.843 H Ren-TV B	27500	News + Series	11.958 H Lithuanian TV1	27500	News + Series
12.637 H Viasat History (FSS)	14463	Quality Entertain.	11.785 V SVT1 Mittnytt	27500	Quality Entertain.	11.843 H TV1 Lithuania	27500	Quality Entertain.	11.958 H LNT Latvia	27500	News + Series
● 12.672 H TISA1	3300	Quality Entertain.	11.785 V SVT1 Nordnytt	27500	Quality Entertain.	11.843 H 1st Baltic Music Cha	27500	News + Series	11.958 H LTV1	27500	News + Series
12.674 V ROMANTICA	10000	News + Series	11.785 V SVT1 REG	27500	Home Cinema	11.843 H TV5	27500	Quality Entertain.	11.958 H TV3 Estonia	27500	Quality Entertain.
12.674 V ALPHA TV	10000	News + Series	11.785 V SVT1 Smålandsnytt	27500	Home Cinema	11.862 V FEM	27500	Quality Entertain.	11.958 H TV3 Latvia	27500	Quality Entertain.
● 12.674 V CREDO TV	10000	News + Series	11.785 V SVT1 Sydnytt	27500	Home Cinema	11.862 V Nickelodeon nordic	27500	News + Series	11.958 H TV3 Lithuania	27500	Quality Entertain.
12.674 V MONEY CHANNEL	10000	News + Series	11.785 V SVT1 Tvärsnytt	27500	Quality Entertain.	11.862 V TV1000 Action East	27500	Quality Entertain.	11.958 H TV6 Lithuania	27500	Quality Entertain.
12.674 V REALITATEA TV	10000	News + Series	11.785 V SVT1 Värmlandsnytt	27500	Quality Entertain.	11.862 V Viasat Fotboll	27500	Quality Entertain.	11.977 V BBC World	27500	News + Series
● 12.685 V ALFA OMEGA	4444	News + Series	11.785 V SVT1 Västerbottensnytt	27500	Quality Entertain.	11.862 V Viasat Motor	27500	Quality Entertain.	11.977 V Hallmark	27500	News + Series
● 12.703 H TV_BelViasat	2894	High Quality Home	11.785 V SVT1 Västnytt	27500	Home Cinema	11.862 V Viasat Sport Norge	27500	Quality Entertain.	11.977 V MTV SE	27500	Quality Entertain.
● 12.715 H DaVinci Learning	3330	Quality Entertain.	11.785 V SVT1 Östnytt	27500	Home Cinema	11.862 V ztv.se	27500	Quality Entertain.	11.977 V Nature/Crime/Playboy	27500	News + Series
● 12.731 V 2T	15300	High Quality Home	11.785 V SVT2 ABC	27500	Home Cinema	11.881 H 24	27500	News + Series	11.977 V TV1000 East	27500	News + Series
● 12.731 V KiKo	15300	High Quality Home	11.785 V SVT2 Gävledala	27500	Home Cinema	11.881 H Barnkanalen	27500	Quality Entertain.	11.977 V TV3+	27500	Quality Entertain.
● 12.731 V Planeta	15300	High Quality Home	11.785 V SVT2 Mittnytt	27500	Quality Entertain.	11.881 H Nat Geo Wild	27500	Quality Entertain.	11.977 V TV4 Fakta	27500	Quality Entertain.
● 12.731 V Svit	15300	High Quality Home	11.785 V SVT2 Nordnytt	27500	Quality Entertain.	11.881 H SVT1	27500	Home Cinema	11.977 V Viasat 4	27500	News + Series
● 12.731 V English_Club	15300	News + Series	11.785 V SVT2 REG	27500	Home Cinema	11.881 H SVT2	27500	Home Cinema	11.977 V Viasat Sport Sverige	27500	Home Cinema
● 12.731 V MalyatkoTV	15300	News + Series	11.785 V SVT2 Smålandsnytt	27500	Home Cinema	11.881 H TV1000 Plus One	27500	Quality Entertain.	11.996 H K75 NORDEN	27500	News + Series
● 12.731 V Menu TV	15300	News + Series	11.785 V SVT2 Sydnytt	27500	Home Cinema	11.881 H TV1K+1	27500	Quality Entertain.	11.996 H TV7	27500	Quality Entertain.
● 12.731 V People	15300	Quality Entertain.	11.785 V SVT2 Tvärsnytt	27500	Home Cinema	11.881 H GOD Channel	27500	News + Series	11.996 H TVN Chile Nordic	27500	Quality Entertain.
● 12.731 V SHOPping TV	15300	News + Series	11.785 V SVT2 Värmlandsnytt	27500	Home Cinema	11.881 H Kanal 10	27500	News + Series	11.996 H Russia today	27500	Quality Entertain.
● 12.731 V Turburo	15300	News + Series	11.785 V SVT2 Västerbottensnytt	27500	Home Cinema	11.900 V BTV	27500	Quality Entertain.	11.996 H Visjon Norge	27500	Quality Entertain.
SIR0404NO			11.785 V SVT2 Västnytt	27500	Home Cinema	11.900 V Kanal 2	27500	Quality Entertain.	12.015 V NRK1 Nordnytt	27500	Home Cinema

SatcoDX World of Satellites

SatcoDX 12/2009

World of Satellites

Worldwide Satellite Programming Database - Information Programme

Software V3.12

Data Base

Worldwide Satellite Charts
Every Channel from Every Satellite

Sat Wizard: What Channels Can You Receive from Where You Are With What You've Got?

DishTrak: What Satellites Can You Receive?

Channel Locator: Find the Channel You want

Online Chart Updates:
Internet Updates Anytime You Want

Receiver Programming: Sort and Filter, then Upload To SatcoDX Compatible Receivers

Satellite Footprints:
See Where the Satellite Beams Really Go

Exporting and Printing of Chart Data:
Save Your Customized Lists

Export Data Base in:

- [*.sdx] SatcoDX Standard Protocol
- [*.sdp] Professional Protocol
- [*.txt] Tabulator Delimited
- [*.csv] Comma Delimited
- [*.htm] HTML List
- [*.html] HTML List with Coverage
- [*.txt] DVB 98 Settings Editor
- [*.dub] DVB 2000 Binary File
- [*.xml] Neutrino
- [*.xls] Microsoft Excel
- [*.rpt] Report
- [*.txt] Tagged Text
- [*.txt] Newsmail
- [*.ini] SkyStar

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The software SatcoDX World of Satellites will no longer be part of TELE-satellite subscription from 2010 on. Instead, TELE-satellite subscribers are getting the SatcoDX Satellite TV Handbook, which is becoming part of TELE-satellite magazine. The software SatcoDX World of Satellites, Edition 12/2009, is the last available to subscribers, and can be downloaded from the links hereunder.

Hinweis an TELE-satellite Abonnenten: Die Software SatcoDX World of Satellites ist ab 2010 nicht mehr Teil des Abonnements und wird durch das SatcoDX Satellite TV Handbook ersetzt, das Bestandteil der TELE-satellite wird. Die Edition 12/2009 der SatcoDX World of Satellites Software ist die letzte Version für Abonnenten und kann über die hier angegebenen Links heruntergeladen werden.

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http://www.TELE-satellite.com/cd/0912/SatcoDX_CD_2009_12.iso

download program - download coverage images later - 7 MB

<http://www.TELE-satellite.com/cd/0912/Setup0912.exe>

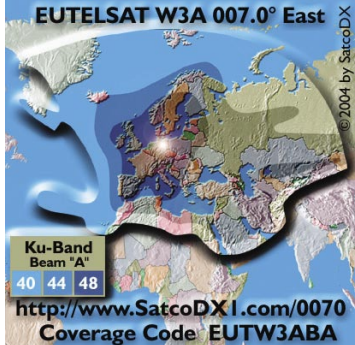
Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type	SatcoDX Definition
12.015	V	NRK1 Østfold	27500	Home Cinema	
12.015	V	NRK Super / NRK3	27500	Quality Entertain.	
12.015	V	NRK1	27500	Home Cinema	
12.015	V	NRK1 Midtøst	27500	Home Cinema	
12.015	V	NRK1 Møre og Romsdal	27500	Quality Entertain.	
12.015	V	NRK1 Nordland	27500	Home Cinema	
12.015	V	NRK1 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	Quality Entertain.	
12.015	V	NRK1 Østafjells	27500	Home Cinema	
12.015	V	NRK1 Østnytt	27500	Home Cinema	
12.015	V	NRK2	27500	Home Cinema	
12.034	H	Disney Channel	27500	Quality Entertain.	
12.034	H	E!	27500	Quality Entertain.	
12.034	H	NickelodeonSE/VH1	27500	Quality Entertain.	
12.034	H	TV1000 Family	27500	Quality Entertain.	
12.034	H	TV1000 Classic	27500	News + Series	
12.034	H	TV1000 Nordic	27500	Quality Entertain.	
12.034	H	TVIKC	27500	Quality Entertain.	
12.034	H	Zone Reality	27500	Quality Entertain.	
12.054	V	Cartoon/TCM	27500	News + Series	
12.054	V	Jetix	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	TVIK	27500	Quality Entertain.	
12.054	V	TV1KA	27500	Quality Entertain.	
12.054	V	TV3 Denmark	27500	Quality Entertain.	
12.054	V	TV3 Norge	27500	Quality Entertain.	
12.054	V	TV3 Stockholm	27500	Quality Entertain.	
12.054	V	TV6	27500	News + Series	
12.092	V	Kanal 5	27500	News + Series	
12.092	V	Playhouse Disney	27500	Quality Entertain.	
12.092	V	SportN	27500	Quality Entertain.	
12.092	V	TV 2 Norge	27500	Quality Entertain.	
12.092	V	TV2 NEWS	27500	Quality Entertain.	
12.092	V	TV4 Science Fiction	27500	Quality Entertain.	
12.092	V	TV4 Sport	27500	Quality Entertain.	
12.092	V	TVNorge	27500	Quality Entertain.	
12.399	V	MTVNH	27500	High Qual. Cinema	
12.399	V	NatGeo HD	27500	High Qual. Cinema	
12.399	V	Viasat Sport HD	27500	High Qual. Cinema	
12.437	V	SVT HD	27500	High Qual. Cinema	
12.437	V	TV1000 HD	27500	High Qual. 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/Sjælland	27500	Quality Entertain.	

Europe

EUTELSAT W3A

7.0 East

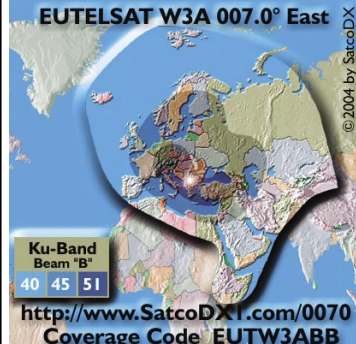
EUTW3ABA



10.963	H	CHEVC3	9874	Home Cinema	
10.986	V	CHEVC5	6666	Home Cinema	
10.996	H	DEARD2	6666	Home Cinema	
10.996	H	Nonthaburi E/S TB.3	6666	Home Cinema	
11.014	H	FEED	6666	Home Cinema	
11.014	H	D-370 PATH 1	6666	Home Cinema	
11.014	H	F106NWK	6666	Home Cinema	
11.014	H	F106WSHT	6666	Home Cinema	
11.023	H	D-370 PATH 2	6666	Home Cinema	
11.023	H	NLTECH TX3	6666	Home Cinema	
11.052	H	CHEVC1	6666	Home Cinema	
11.052	V	F106WSHT	6666	Home Cinema	
11.060	V	MotoGPBrno	4336	Home Cinema	
11.060	V	FRGC3	4336	Home Cinema	
11.070	H	FRGC1	6666	Home Cinema	
11.070	H	RUSTAVI 2 GERB TB	6666	Home Cinema	
11.079	H	Gx_01	6666	Home Cinema	
11.088	H	GxBBC Tx3	6666	Home Cinema	
11.097	V	YSM010	6666	Home Cinema	
11.106	H	ITINFI CH7	6666	Home Cinema	
11.108	V	Anal 1	4936	Home Cinema	
11.127	H	ITA 390	6666	Home Cinema	
11.127	V	INT 6 for DSNG	6666	Quality Entertain.	
11.127	V	TV Polonia	6666	Quality Entertain.	
11.133	V	ROL-48 GDANSK	2678	Quality Entertain.	
11.136	H	HAI-ITA99a+393351	6666	Home Cinema	
11.283	V	EUROSPORT	27500	Home Cinema	
11.283	V	EUROSPORTNEWS	27500	Quality Entertain.	
11.283	V	PROD ESP	27500	Home Cinema	
11.283	V	EUROSPORT2	27500	Quality Entertain.	
11.283	V	M6 Suisse	27500	Quality Entertain.	
11.283	V	OCCA_1_W3	27500	Quality Entertain.	
11.283	V	PROD ESP2	27500	Quality Entertain.	
11.283	V	RFI Newzik	27500	Advertisement	

Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type	SatcoDX Definition
11.324	V	BFBS 1	27500	Home Cinema	
11.324	V	BFBS 10	27500	Low Level	
11.324	V	BFBS 2	27500	Quality Entertain.	
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	Quality Entertain.	
11.324	V	BFBS 7	27500	Low Level	
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



10.880	V	HD1	13333	High Quality Home	
10.880	V	HD3	13333	High Quality Home	
10.880	V	WDS	13333	Quality Entertain.	
10.927	V	iConcert	27500	High Quality Home	
10.927	V	EUROSPORT2 BL	27500	Quality Entertain.	
10.928	V	iConcert	27500	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	IZ HD	30000	High Quality Home	
10.928	H	EUROSPORT HD	30000	High Qual. Cinema	
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	News + Series	
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	Quality Entertain.	
11.471	H	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	Quality Entertain.	
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	News + Series	
11.471	H	SHOWGALLERY	30000	News + Series	
11.471	H	TVNET	30000	News + Series	
11.492	V	DİZİMAX	30000	News + Series	
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	News + Series	
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	News + Series	
11.513	H	BABY TV	27500	News + Series	
11.513	H	BABYFIRST	27500	News + Series	
11.513	H	CRIME&INVESTIGATI	27500	News + Series	
11.513	H	FLASH TV	27500	Quality Entertain.	
11.513	H	POWERTURK TV	27500	News + Series	
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	IZ	27500	Quality Entertain.	
11.534	V	6 NEWS	30000	News + Series	
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	Quality Entertain.	
11.534	V	KRAL TV	30000	Quality Entertain.	
11.534	V	MOVIE MAX	30000	News + Series	
11.534	V	NTV	30000	News + Series	
11.534	V	TV8	30000	News + Series	
11.534	V	TRT3	30000	Quality Entertain.	
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	DIGITURK INFO	27500	News + Series	
11.554	H	FX	27500	Quality Entertain.	
11.554	H	KANAL A	27500	News + Series	
11.554	H	KANAL BİZ	27500	Quality Entertain.	
11.554	H	SAUDI 1 TV	27500	Quality Entertain.	
11.575	V	JETIX	30000	News + Series	

Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type	SatcoDX Definition
11.575	V	JETIX PLAY	30000	News + Series	
11.575	V	KANAL D	30000	News + Series	
11.575	V	NBA TV	30000	Quality Entertainment.	
11.575	V	SALON 2	30000	Quality Entertainment.	
11.575	V	SHOW TV	30000	News + Series	
11.575	V	SHOWMAX	30000	Quality Entertainment.	
11.575	V	TOUCH	30000	Quality Entertainment.	
11.575	V	TURKCELL SALON 1	30000	News + Series	
11.575	V	VIP TV	30000	Quality Entertainment.	
11.595	H	AL JAZEERA English	30000	News + Series	
11.595	H	CNN INTERNATIONAL	30000	News + Series	
11.595	H	FB TV	30000	Quality Entertainment.	
11.595	H	FOX SPORTS	30000	News + Series	
11.595	H	GOLDMAX 2	30000	Quality Entertainment.	
11.595	H	HABERTURK	30000	News + Series	
11.595	H	KANAL 778	30000	Quality Entertainment.	
11.595	H	LIG TV TICARI	30000	Quality Entertainment.	
11.595	H	MYMAX	30000	News + Series	
11.595	H	RAY1	30000	News + Series	
11.595	H	SPORMAX	30000	Home Cinema	
11.595	H	TGRT HABER	30000	News + Series	
11.595	H	TJK TV	30000	Quality Entertainment.	
11.617	V	BTV 2	30000	News + Series	
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 Entertainment.	
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	ALORNIATIVE ROCK	30000	News + Series	
11.617	V	ARIONADIO.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	LIG 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	HINTIMACY	30000	News + Series	
11.637	H	JOLLY TAŞIL TV	30000	News + Series	
11.637	H	KANAL 1	30000	News + Series	
11.637	H	MGM MOVIES	30000	News + Series	
11.637	H	PRO7	30000	News + Series	
11.637	H	YACHT&SAIL	30000	Quality Entertainment.	
11.637	H	DIGIYUN	30000	Low Level	
11.637	H	JOJO	30000	Advertisement	
11.637	H	TRT AVAZ	30000	Quality Entertainment.	
11.679	H	ATV	30000	Home Cinema	
11.679	H	COMEDYMAX	30000	Quality Entertainment.	
11.679	H	DISNEY CHANNEL	30000	News + Series	
11.679	H	DREAM TV	30000	Quality Entertainment.	
11.679	H	EUROSPORT	30000	Quality Entertainment.	
11.679	H	FOX	30000	Quality Entertainment.	
11.679	H	KANAL 7	30000	News + Series	
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	

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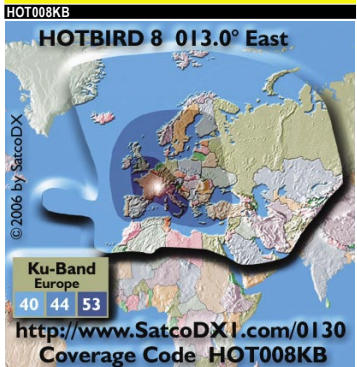
Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
● 11.881	V	I-Concert	27500	High Quality Home
● 11.881	V	FTV HD	27500	High Quality Home
● 11.900	H	TSG 4	27500	High Quality Home
● 11.900	H	TSG	27500	News + Series
● 11.916	V	FTV HD	27500	High Quality Home
● 11.916	V	SVT 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	DIVINE TV	27500	News + Series
● 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	RRSat Promo	27500	Home Cinema
● 11.916	V	TEST 1	27500	Advertisement
● 11.916	V	TEST 2	27500	Advertisement
● 11.916	V	TEST 3	27500	Advertisement
● 11.916	V	TEST 4	27500	Advertisement
● 11.919	V	FTV HD	27500	High Quality Home
● 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	DIVINE TV	27500	News + Series
● 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	RRSat Promo	27500	Home Cinema
● 11.919	V	TEST 1	27500	Advertisement
● 11.919	V	TEST 2	27500	Advertisement
● 11.919	V	TEST 3	27500	Advertisement
● 11.919	V	TEST 4	27500	Low Level
● 11.938	V	FTV HD	27500	High Quality Home
● 11.938	V	SVT WORLD	27500	Quality Entertain.
● 11.938	V	TIN_972737998873	27500	News + Series
● 11.938	V	Walf TV	27500	News + Series
● 11.938	V	Amarita channel	27500	Low Level
● 11.938	V	AL BASHARA	27500	Low Level
● 11.938	V	DIVINE TV	27500	News + Series
● 11.938	V	Fantasy Channel	27500	News + Series
● 11.938	V	Kairali channel	27500	Low Level
● 11.938	V	MTA	27500	News + Series
● 11.938	V	NLM TV	27500	Low Level
● 11.938	V	PTV	27500	Low Level
● 11.938	V	Rainbow	27500	News + Series
● 11.938	V	RRSat Promo	27500	Home Cinema
● 11.938	V	TAM TAM TV	27500	Low Level
● 11.938	V	TEST 1	27500	Advertisement
● 11.938	V	TEST 2	27500	Advertisement
● 11.938	V	TEST 3	27500	Advertisement
● 11.938	V	TEST 4	27500	Advertisement
● 11.938	H	TV NETH LANKA	27500	News + Series
● 11.977	H	Akubis Classic	27500	News + Series
● 11.977	H	Akubis Direkt	27500	News + Series
● 11.977	H	OCC	27500	Quality Entertain.
● 11.977	H	OCC 2	27500	Quality Entertain.
● 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 Special IG	27500	Advertisement
● 11.977	H	Testbild	27500	Low Level
● 11.996	V	BBC Prime	27500	Quality Entertain.
● 11.996	V	MTV Portugal	27500	Quality Entertain.
● 11.996	V	BAU Movies ME	27500	News + Series
● 11.996	V	CCTV-A	27500	News + Series
● 11.996	V	SUNADITHYA+4420833	27500	Advertisement
● 11.996	V	SUNKTV+44208335678	27500	News + Series
● 11.996	V	SUNMUSIC+442083356	27500	News + Series
● 11.996	V	SUNTV+442083356780	27500	News + Series
● 12.015	H	BBC World	27500	News + Series
● 12.015	H	Bibel TV	27500	News + Series
● 12.015	H	Bloomberg	27500	Quality Entertain.
● 12.015	H	Deluxe	27500	Low Level
● 12.015	H	DSF	27500	News + Series
● 12.015	H	Luxe TV	27500	News + Series
● 12.015	H	QVC	27500	Quality Entertain.
● 12.015	H	Tele 5	27500	Quality Entertain.
● 12.015	H	TV 5 Monde	27500	Quality Entertain.
● 12.015	H	TV Gusto	27500	News + Series
● 12.015	H	UProm.TV	27500	News + Series
● 12.015	H	Volksmusik TV	27500	Quality Entertain.
● 12.015	H	XX Home	27500	News + Series
● 12.015	H	DAF (8 bis 18 Uhr)	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	HiTV	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	Musimax/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	H	Test	27500	High Quality Home
● 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	27500	High Quality Home
● 12.034	V	HBO HD	27500	Quality Entertain.
● 12.034	H	BBC World	27500	Quality Entertain.
● 12.034	H	Bibel TV	27500	News + Series
● 12.034	H	Bloomberg	27500	Quality Entertain.
● 12.034	H	Deluxe	27500	Low Level
● 12.034	H	Disney Cinemagic	27500	Quality Entertain.

Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
● 12.034	H	Disney Cinemagic +1	27500	Quality Entertain.
● 12.034	H	DSF	27500	News + Series
● 12.034	V	Filmbox Extra	27500	Advertisement
● 12.034	H	Iberalia	27500	News + Series
● 12.034	H	Luxe TV	27500	Quality Entertain.
● 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	Quality Entertain.
● 12.034	H	XX Home	27500	News + Series
● 12.034	H	AIERTA	27500	News + Series
● 12.034	H	DAF (8 bis 18 Uhr)	27500	Advertisement
● 12.034	H	FEEDS TSA	27500	News + Series
● 12.034	H	France 24	27500	News + Series
● 12.034	H	OPAL TV	27500	News + Series
● 12.034	H	Tu Tele Local	27500	News + Series
● 12.054	H	Test	27500	High Quality Home
● 12.054	H	Penthouse HD	27500	High Quality Home
● 12.054	H	Disney Cinemagic	27500	Quality Entertain.
● 12.054	H	Disney Cinemagic +1	27500	Quality Entertain.
● 12.054	H	Iberalia	27500	News + Series
● 12.054	H	AIERTA	27500	News + Series
● 12.054	H	FEEDS TSA	27500	News + Series
● 12.054	H	OPAL TV	27500	News + Series
● 12.054	H	Tu Tele Local	27500	News + Series
● 12.074	V	ANA FILMS	27500	Advertisement
● 12.074	V	DESTINO GALICIA	27500	Advertisement
● 12.074	H	DISNEY CINEMAGIC	27500	Quality Entertain.
● 12.074	H	DISNEY CINEMAGIC	27500	Quality Entertain.
● 12.074	H	IBERIALIA	27500	Quality Entertain.
● 12.074	H	Aleria	27500	News + Series
● 12.074	H	ANA FILMS	27500	News + Series
● 12.074	H	DESTINO GALICIA	27500	Quality Entertain.
● 12.074	H	Feeds Tsa	27500	News + Series
● 12.074	H	Opal TV	27500	News + Series
● 12.074	H	PARLAMENTARIO	27500	Quality Entertain.
● 12.074	H	TU TV LOCAL	27500	News + Series
● 12.092	H	DISNEY CINEMAGIC	27500	Quality Entertain.
● 12.092	H	DISNEY CINEMAGIC	27500	Quality Entertain.
● 12.092	H	IBERIALIA	27500	Quality Entertain.
● 12.092	H	Aleria	27500	News + Series
● 12.092	H	ANA FILMS	27500	News + Series
● 12.092	H	DESTINO GALICIA	27500	Quality Entertain.
● 12.092	H	Feeds Tsa	27500	News + Series
● 12.092	H	Opal TV	27500	News + Series
● 12.092	H	PARLAMENTARIO	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	Quality Entertain.
● 12.130	H	Channel One Russia	27500	News + Series
● 12.130	H	Euro Star	27500	News + Series
● 12.130	H	Euronews	27500	Quality Entertain.
● 12.130	H	Euronews English	27500	Quality Entertain.
● 12.130	H	Euronews French	27500	Quality Entertain.
● 12.130	H	Euronews Italy	27500	Quality Entertain.
● 12.130	H	Euronews Portugese	27500	Quality Entertain.
● 12.130	H	Euronews Russia	27500	Quality Entertain.
● 12.130	H	Euronews Spain	27500	Quality Entertain.
● 12.130	H	Kinowelt	27500	Quality Entertain.
● 12.130	H	LiGTV	27500	Quality Entertain.
● 12.130	H	PinkPlus	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	Автотюс	27500	High Quality Home
● 12.207	H	Бибион	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
● 12.207	H	Спорт	27500	High Quality Home
● 12.207	H	ТНТ	27500	High Quality Home
● 12.207	H	Теленгустествия	27500	High Quality Home
● 12.207	H	Тест	27500	High Quality Home
● 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	Ive 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	Teleputeshhestviya HD	26400	High Qual. Cinema
● 12.303	V	Zhenskij Mir HD	26400	High Quality Home
● 12.322	H	ATV Avrura	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	auto motor and sport	27500	News + Series
● 12.360	H	ESPN Classic	27500	News + Series
● 12.360	H	Hustler TV	27500	Quality Entertain.
● 12.360	H	ITVN	27500	News + Series
● 12.360	H	Lust Pur	27500	Quality Entertain.
● 12.360	H	rush	27500	Quality Entertain.
● 12.360	H	Travel Channel	27500	News + Series
● 12.360	H	TV Country	27500	News + Series
● 12.360	H	Yacht & Sail	27500	News + Series
● 12.360	H	KabelKiosk - Infokan	27500	Quality Entertain.
● 12.380	V	HD Life	26400	High Quality Home
● 12.380	V	Kinopokaz HD	26400	High Qual. Cinema
● 12.380	V	Infokanal	26400	High Quality Home
● 12.380	V	Eurosport HD	26400	High Quality Home

Freq GHz	Pol	Channel Name	Symbol Rate ksym/Sec	Programming Type SatcoDX Definition
12.380	V	MTVN HD	26400	High Qual. Cinema
12.380	V	NGC HD	26400	High Qual. Cinema
12.399	H	13TH Street	27500	Low Level
12.399	H	AXN	27500	News + Series
12.399	H	Boomerang	27500	Quality Entertain.
12.399	H	Cartoon Network	27500	News + Series
12.399	H	ESPN America	27500	News + Series
12.399	H	History	27500	News + Series
12.399	H	Motors TV Deutschland	27500	Quality Entertain.
12.399	H	National Geographic	27500	Quality Entertain.
12.399	H	Sci Fi Deutschland	27500	News + Series
12.399	H	Silverline	27500	Quality Entertain.
12.399	H	The Biography Channel	27500	Quality Entertain.
● 12.399	H	TNT Film	27500	News + Series
12.437	H	BBC Prime	27500	News + Series
12.437	H	E! Entertainment (D/	27500	Quality Entertain.
12.437	H	E! Entertainment (PL	27500	News + Series
12.437	H	E! Entertainment (TR	27500	News + Series
● 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	Low Level
● 12.437	H	VH1 Classic	27500	News + Series
● 12.437	H	Volksmusik TV	27500	Quality Entertain.
12.437	H	voorfamiliv	27500	News + Series

Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type	SatcoDX Definition
11.179	H	ALL TV	27500	News + Series	
11.179	H	Cancao Nova Int.	27500	Advertisement	
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	T.R. Padre Pio	27500	News + Series	
11.179	H	TEF CHANNEL	27500	News + Series	
11.179	H	Telcelito	27500	Low Level	
11.179	H	Telemarket	27500	Quality Entertain.	
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	ALL SEX	27500	Low Level	
11.200	V	Betting Channel	27500	News + Series	
11.200	V	EBG.1	27500	Low Level	
11.200	V	ELITE SHOPPING	27500	News + Series	
11.200	V	Hot Club	27500	Advertisement	
11.200	V	Jewish Life TV	27500	Low Level	
11.200	V	M.SAT	27500	Low Level	
11.200	V	Made In Italy	27500	Low Level	
11.200	V	Mediate	27500	News + Series	
11.200	V	MOTORI TV	27500	Low Level	
11.200	V	Napoli Nova	27500	Low Level	
11.200	V	OSAI TV	27500	Low Level	
11.200	V	ODEON SAT	27500	News + Series	
11.200	V	PEOPLE TV-RETE7	27500	News + Series	
11.200	V	PLAY TV ITALIA	27500	News + Series	
11.200	V	ROMA SAT	27500	Low Level	
11.200	V	Sexy 1	27500	Low Level	
11.200	V	STARST	27500	Low Level	
11.200	V	Telenor	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	Low Level	
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	Low Level	
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	ETV Emilia Romagna	27500	News + Series	
11.585	V	EWTV UK	27500	Quality Entertain.	
11.585	V	Galaxy	27500	Low Level	
11.585	V	INSPIRATIONAL	27500	News + Series	
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	Pisham	27500	News + Series	
11.585	V	TAYAK	27500	Low Level	
11.623	V	KBS_WORLD	27500	News + Series	
11.623	V	ALLOVE	27500	Low Level	
11.623	V	IEL HOBB 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	News + Series	
11.623	V	South for You	27500	News + Series	
11.623	V	TV ROMANIA	27500	News + Series	
11.642	H	Bloomberg Feeds (Blo	27500	Quality Entertain.	
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 (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	Quality Entertain.	
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	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	ABO Channel	27500	Low Level	
11.662	V	BLU	27500	Low Level	
11.662	V	Canale Italia	27500	News + Series	
11.662	V	CONTO TV	27500	News + Series	
11.662	V	CONTO TV 3	27500	News + Series	
11.662	V	CONTO TV 4	27500	News + Series	
11.662	V	CONTO TV1_B	27500	News + Series	
11.662	V	CONTO TV2_B	27500	News + Series	
11.662	V	Extra Channel 3	27500	Low Level	
11.662	V	IMC	27500	News + Series	
11.662	V	Italy Sat	27500	Low Level	
11.662	V	ItalySat	27500	Advertisement	
11.662	V	LAZIO CHANNEL	27500	Low Level	
11.662	V	Libera	27500	News + Series	
11.662	V	Link TP 158	27500	Advertisement	
11.662	V	MUSIC LIFE	27500	Low Level	
11.662	V	Napoli Mia	27500	Low Level	
11.662	V	Nostradamus	27500	Low Level	
11.662	V	PQO Channel	27500	Low Level	
11.662	V	PUNTOSAT	27500	News + Series	
11.662	V	Rolsat	27500	Low Level	
11.662	V	Sport Channel	27500	Low Level	
11.662	V	TELECOLORE	27500	News + Series	
11.662	V	TELEMODENASAT	27500	News + Series	
11.662	V	Tr2 Sat	27500	Low Level	
11.662	V	Tv7 Lombardia	27500	Low Level	

Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type	SatcoDX Definition
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	Low Level	
11.678	H	ENCYCLOPEDIA	27500	Low Level	
11.678	H	ESCALES	27500	News + Series	
11.678	H	Fit/Toute l'Histoire	27500	Low Level	
11.678	H	France 5	27500	News + Series	
11.678	H	France 6	27500	News + Series	
11.678	H	LCP	27500	Low Level	
11.678	H	MANGAS	27500	News + Series	
11.678	H	NT1	27500	News + Series	
11.678	H	RTL9	27500	News + Series	
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	Home Cinema	
12.520	V	HRT-TV2	27500	Home Cinema	
12.520	V	HRT-TV1	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	NOELLO SAT	27500	Low Level	
12.520	V	RBC-TV	27500	Quality Entertain.	
12.520	V	SexyChannel	27500	Low Level	
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 - FLTV	27500	Quality Entertain.	
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	EUROITALY	27500	News + Series	
12.539	H	feed	27500	News + Series	
12.539	H	GENIUS TV	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	ONE	27500	Low Level	
12.539	H	TV8 Mt Blanc	27500	News + Series	
12.539	H	TVA Vicenza	27500	News + Series	
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	JSTV2	27500	News + Series	
12.597	V	ITVRUS Europe	27500	Quality Entertain.	
12.597	V	ARM. 1	27500	Quality Entertain.	
12.597	V	BBC World News	27500	Quality Entertain.	
12.597	V	DIAA TV	27500	Low Level	
12.597	V	Euronews	27500	Quality Entertain.	
12.597	V	JSTV1	27500	News + Series	
12.597	V	Sonshine TV	27500	News + Series	



Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type	SatcoDX Definition
10.723	H	10.722 H	29900	Quality Entertain.	
10.723	H	Deepam TV	29900	Quality Entertain.	
10.723	H	Lady Channel	29900	News + Series	
10.723	H	MTA INTL	29900	Quality Entertain.	
10.723	H	RTPI	29900	News + Series	
10.723	H	Thendral	29900	News + Series	
10.834	V	Animal Planet	27500	High Quality Home	
10.834	V	AXN Crime	27500	High Qual. Cinema	
10.834	V	AXN SciFi	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	Jetix	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	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	Travel & Living	27500	High Quality Home	
10.834	V	Eska TV	27500	Quality Entertain.	
10.834	V	H1	27500	Quality Entertain.	
10.834	V	H2	27500	News + Series	
10.834	V	H3	27500	Quality Entertain.	
10.949	V	Cartoon Network	27500	News + Series	

Freq	Pol	Channel Name	GHz	Symbol Rate ksym/sec	Programming Type	SatcoDX Definition
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	Alil 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	
10.971	H	Asianet Plus		27500	News + Series	
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	Itimial TV		27500	News + Series	
● 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	Suruyo tv		27500	Low Level	
10.971	H	Telenova		27500	News + Series	
10.971	H	The World 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	SmartCast Tapesht		27500	News + Series	
11.470	V	Nick Polska		27500	News + Series	
● 11.470	V	Al Hayat		27500	News + Series	
11.470	V	Al Malkoot TV		27500	News + Series	
● 11.470	V	Al-Feker		27500	Low Level	
11.470	V	Ariana		27500	Low Level	
11.470	V	BET NAHRAIN		27500	News + Series	
11.470	V	Channel 6		27500	Low Level	
11.470	V	IRAN		27500	News + Series	
11.470	V	JAAM E JAM		27500	News + Series	
11.470	V	Mkvt Sat		27500	News + Series	
11.470	V	MOHABAT TV		27500	News + Series	
11.470	V	OMID E IRAN		27500	News + Series	
11.470	V	PEN TV		27500	Quality Entertain.	
11.470	V	PROPHETIC		27500	Low Level	
11.470	V	RIKSAT		27500	News + Series	
● 11.470	V	SATLINK OU		27500	Quality Entertain.	
11.470	V	TAPESH		27500	Low Level	
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	Low Level	
11.488	H	TVP INFO		27500	Low Level	
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	Low Level	
11.488	H	PULS		27500	Low Level	
11.488	H	TV POLONIA		27500	Quality Entertain.	
11.488	H	TVP Kultura		27500	News + Series	
● 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	Quality Entertain.	
● 11.541	V	LA7		22000	News + Series	
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	ROMAUONO		22000	News + Series	
11.541	V	Sardegna Channel		22000	Low Level	
11.541	V	Telemolbardia		22000	News + Series	
11.541	V	TeleTirreno		22000	Low Level	
11.541	V	THOU TV		22000	Low Level	
● 11.541	V	TIVITUVI		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	Body Time TV		27500	Low Level	
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	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 ETV		27500	News + Series	
11.566	H	TBN ITALIA		27500	News + Series	
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	7'armanat Nar		27500	Advertisement	
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.	

Freq Pol Channel Name	Symbol Rate	Programming Type	Freq Pol Channel Name	Symbol Rate	Programming Type	Freq Pol Channel Name	Symbol Rate	Programming Type	Freq Pol Channel Name	Symbol Rate	Programming Type
GHz	Ksym/s	SatCoDX Definition	GHz	Ksym/s	SatCoDX Definition	GHz	Ksym/s	SatCoDX Definition	GHz	Ksym/s	SatCoDX Definition
11.958 V Toon Disney	27500	News + Series	12.188 V FoxLife	27500	News + Series	12.360 H SEX VIEW 247	27500	Low Level	10.719 V Movies24	27500	News + Series
11.976 H Cartoon Network	27500	News + Series	12.188 V Jetix	27500	News + Series	12.360 H SEX VIEW CLIMAX	27500	Low Level	10.719 V Orange Sport	27500	Quality Entertain.
11.976 H Cult	27500	Quality Entertain.	● 12.188 V test_desc	27500	News + Series	12.360 H SEX VIEW DP	27500	Low Level	10.719 V PLANETE	27500	Quality Entertain.
11.976 H Fantasy	27500	News + Series	12.188 V TPV1	27500	News + Series	12.360 H SEX VIEW EXTRA	27500	Low Level	10.719 V 4fun.TV	27500	News + Series
11.976 H Fox	27500	News + Series	12.188 V TPV2	27500	Quality Entertain.	12.360 H SEX VIEW EXTREME	27500	Low Level	10.719 V PATIO TV	27500	Low Level
11.976 H Fox Crime	27500	News + Series	12.188 V Zone Romantica	27500	News + Series	12.360 H SEX VIEW GAY	27500	News + Series	10.723 H ANT1 EUROPE	29900	Quality Entertain.
11.976 H Fox Life	27500	News + Series	12.207 H Asianet	27500	Low Level	12.360 H SEX VIEW HARDCORE	27500	Low Level	● 10.723 H Andisheh	29900	News + Series
11.976 H History +1	27500	News + Series	12.207 H Free-X-TV	27500	Low Level	12.360 H SEX VIEW HOT	27500	Low Level	10.723 H Ariana Afghanistan	29900	Low Level
11.976 H Jetix	27500	Quality Entertain.	12.207 H FREE-XTV 2	27500	Low Level	12.360 H SEX VIEW INTER	27500	Low Level	● 10.723 H NewRox	29900	News + Series
11.976 H NatGeo Wild	27500	Quality Entertain.	12.207 H 3ABN International	27500	Low Level	12.360 H SEX VIEW PLUS	27500	News + Series	10.723 H RTB	29900	News + Series
11.976 H NatGeoAdventur	27500	News + Series	12.207 H Arirang TV	27500	Quality Entertain.	12.360 H SEX VIEW SPECIAL	27500	Low Level	● 10.775 H AFN Atlantic	28000	News + Series
11.976 H NationalGeo +1	27500	Low Level	● 12.207 H BVN	27500	News + Series	12.360 H 40 India	27500	Low Level	10.775 H AFN Iraq Radio	28000	News + Series
● 11.996 V SKY Focus HD	27500	High Qual. Cinema	12.207 H CNL	27500	Low Level	12.360 H BIO TV	27500	Low Level	● 10.775 H AFN Pacific	28000	News + Series
● 11.996 V SKY Sport 3 HD	27500	High Qual. Cinema	12.207 H F men	27500	News + Series	12.360 H DIPRE ART CHANNEL	27500	Low Level	● 10.775 H AFN Program Guide	28000	News + Series
● 11.996 V SKY SupCalcioHD	27500	High Qual. Cinema	12.207 H Fashion TV	27500	News + Series	12.360 H HOUSE CHANNEL	27500	Low Level	● 10.775 H AFN Spectrum	28000	News + Series
● 11.996 V SKY Sport 1 HD	27500	High Qual. Cinema	12.207 H IPN TV	27500	News + Series	12.360 H MARE TV	27500	Low Level	● 10.775 H AFN Sports	28000	News + Series
● 11.996 V SKY Sport 2 HD	27500	High Qual. Cinema	● 12.207 H ITN	27500	News + Series	● 12.360 H ORANGE INFO	27500	Quality Entertain.	● 10.775 H Benavix	28000	News + Series
12.015 H ART - ARABESQUE	27500	Low Level	12.207 H KICC TV	27500	News + Series	● 12.360 H RAI Africa	27500	Quality Entertain.	10.775 H Banelux	28000	News + Series
12.015 H ART CINEMA - AR	27500	News + Series	12.207 H KURDSAT	27500	Quality Entertain.	12.360 H SEX VIEW TV	27500	Low Level	10.775 H Eiffel	28000	News + Series
12.015 H ART HEKAYAT - A	27500	Low Level	12.207 H PDF Channel	27500	Low Level	12.360 H SEXYSAT2	27500	News + Series	10.775 H Guide/Adult Rock	28000	News + Series
● 12.015 H ART HEKAYAT KAMAN	27500	News + Series	12.207 H Rojhatel	27500	News + Series	12.360 H SUBACQUA PRO	27500	Low Level	● 10.775 H Guide/AFN Bavaria	28000	News + Series
12.015 H ART MOVIES - AR	27500	News + Series	12.207 H Thai Global Network	27500	Low Level	12.380 V EQUIPIDA PRA	27500	Quality Entertain.	● 10.775 H Guide/AFN Bavaria	28000	News + Series
12.015 H ART MOVIES2 - A	27500	Low Level	12.207 H VTV4	27500	Low Level	12.380 V Abu Dhabi	27500	News + Series	10.775 H Guide/AFN Benelux	28000	News + Series
12.015 H ART PRIME SPORT - A	27500	News + Series	● 12.226 V DOOS TV 340	16300	Quality Entertain.	12.380 V HOLY GOD	27500	News + Series	10.775 H Guide/AFN Benelux	28000	News + Series
12.015 H ART SPORT 1 - A	27500	News + Series	● 12.226 V IBB OS Download 8	16300	Quality Entertain.	12.380 V RTV Montenegro	27500	News + Series	10.775 H Guide/AFN Heidebe	28000	News + Series
12.015 H ART SPORT 2 - A	27500	Low Level	● 12.226 V IBB OS Download 9	16300	Quality Entertain.	12.380 V SAT 7	27500	News + Series	10.775 H Guide/AFN Heidebe	28000	News + Series
12.015 H ART SPORT 3 - A	27500	News + Series	● 12.226 V IBB VOA RFERL Rad	16300	Quality Entertain.	12.380 V Saudi arabia TV2	27500	Low Level	10.775 H Guide/AFN Hessen E	28000	News + Series
12.015 H ART SPORT 4 - A	27500	Quality Entertain.	● 12.226 V IBB VOA RFERL Rad	16300	Quality Entertain.	12.380 V Syria Satellite Chan	27500	Quality Entertain.	10.775 H Guide/AFN Hessen P	28000	News + Series
12.015 H ART Sport 5 - A	27500	Low Level	● 12.226 V IBB VOA RFERL Rad	16300	Quality Entertain.	12.380 V Telepa	27500	News + Series	10.775 H Guide/AFN Kaisersl	28000	News + Series
12.015 H ART Sport 6 - A	27500	Low Level	● 12.226 V IBB VOA RFERL Rad	16300	Quality Entertain.	12.380 V The Spirit Word Chan	27500	News + Series	10.775 H Guide/AFN Kaisersl	28000	News + Series
12.015 H LBC EUROPE - AR	27500	News + Series	● 12.226 V IBB VOA RFERL Rad	16300	Quality Entertain.	12.380 V Yemen TV	27500	News + Series	10.775 H Guide/AFN News Rad	28000	News + Series
12.015 H FUTUTRE NEWS - A	27500	Low Level	● 12.226 V IBB VOA RFERL Rad	16300	Quality Entertain.	12.380 V ZAHRAA TV	27500	Low Level	10.775 H Guide/AFNE Age	28000	News + Series
12.015 H IGRAA - ARABESQ	27500	Low Level	● 12.226 V IBB VOA RFERL Rad	16300	Quality Entertain.	12.399 H HD suisse	27500	High Qual. Cinema	10.775 H Guide/AFNE PowerNe	28000	News + Series
12.034 V Disney Channel	27500	News + Series	● 12.226 V IBB VOA RFERL Rad	16300	Quality Entertain.	12.399 H SF 1	27500	Home Cinema	10.775 H Guide/Bright AC	28000	News + Series
12.034 V E!	27500	News + Series	● 12.226 V IBB VOA RFERL Rad	16300	Quality Entertain.	12.399 H SF zwei	27500	Home Cinema	10.775 H Guide/Contingency	28000	News + Series
12.034 V ESPN America	27500	Quality Entertain.	● 12.226 V IBB VOA RFERL Rad	16300	Quality Entertain.	12.399 H SF info	27500	News + Series	10.775 H Guide/Country	28000	News + Series
12.034 V Playhouse Disney	27500	Low Level	● 12.226 V IBB VOA RFERL Rad	16300	Quality Entertain.	12.418 V Prima Fila 1	27500	News + Series	10.775 H Guide/ESPN Radio	28000	News + Series
12.034 V SKY Cinema 1	27500	Home Cinema	● 12.226 V IBB VOA RFERL Rad	16300	Quality Entertain.	12.418 V Prima Fila 10	27500	News + Series	10.775 H Guide/Fox Sports Tal	28000	News + Series
12.034 V SKY Family	27500	Quality Entertain.	● 12.226 V IBB VOA RFERL Rad	16300	Quality Entertain.	12.418 V Prima Fila 12	27500	News + Series	10.775 H Guide/Hot AC	28000	News + Series
12.034 V SKY Family	27500	Quality Entertain.	● 12.226 V IBB VOA RFERL Rad	16300	Quality Entertain.	12.418 V Prima Fila 2	27500	News + Series	10.775 H Guide/NPR	28000	News + Series
12.034 V SKY Max	27500	Home Cinema	● 12.226 V IBB VOA RFERL Rad	16300	Quality Entertain.	● 12.418 V Prima Fila 35	27500	News + Series	10.775 H Guide/Pure Gold	28000	News + Series
12.034 V SKY Uno +1	27500	News + Series	● 12.226 V IBB VOA RFERL Rad	16300	Quality Entertain.	12.418 V Prima Fila 4	27500	News + Series	10.775 H Guide/The Touch	28000	News + Series
● 12.054 H Prima Fila 31	27500	News + Series	● 12.226 V MTN-E 284	16300	Quality Entertain.	12.418 V Prima Fila 6	27500	News + Series	10.775 H Guide/Z-rock ABC H	28000	News + Series
12.054 H SKY Calcio 1	27500	News + Series	● 12.226 V MTN-E TV 190	16300	Quality Entertain.	12.418 V Prima Fila 7	27500	News + Series	10.775 H Heidelberg	28000	News + Series
● 12.054 H SKY Calcio 14	27500	Low Level	● 12.226 V VOA Music Mix 260	16300	Quality Entertain.	12.418 V Prima Fila 9	27500	News + Series	10.775 H Hessen	28000	News + Series
● 12.054 H SKY Calcio 15	27500	Quality Entertain.	● 12.226 V VOA Music Mix 261	16300	Quality Entertain.	12.418 V Vetrina Primafila	27500	News + Series	10.775 H Kaiserslautern	28000	News + Series
12.054 H SKY Cinema +1	27500	Quality Entertain.	● 12.226 V VOA Music Mix 262	16300	Quality Entertain.	12.418 V SKY TEST	27500	Low Level	10.775 H UK	28000	News + Series
12.054 H SKY Hits	27500	Home Cinema	● 12.226 V VOA Music Mix 268	16300	Quality Entertain.	● 12.437 H AL-ALAM	27500	Quality Entertain.	10.795 V TEST	27500	High Qual. Cinema
12.054 H SKY Sport 3	27500	Home Cinema	● 12.226 V VOA Persian TV 295	16300	Quality Entertain.	12.437 H ALKAWTHAR	27500	Quality Entertain.	10.795 V D. SCIENCE	27500	News + Series
12.054 H SKY Sport Extra	27500	News + Series	● 12.226 V VOA Persian TV 298	16300	Quality Entertain.	● 12.437 H FEED	27500	News + Series	10.795 V D. TRAVEL	27500	Low Level
12.054 H SKY Uno	27500	News + Series	● 12.226 V VOA TV 1 (HB1-8)	16300	Quality Entertain.	12.437 H IRIB QURAN	27500	Quality Entertain.	10.795 V D. WORLD	27500	Quality Entertain.
12.072 V Prima Fila 11	27500	Quality Entertain.	● 12.226 V VOA TV 100 (HB1-4)	16300	Quality Entertain.	12.437 H IRIB1 ENG	27500	Home Cinema	10.795 V MTV TWO	27500	News + Series
● 12.072 V Prima Fila 27	27500	Quality Entertain.	● 12.226 V VOA TV 240 (HB1-8)	16300	Quality Entertain.	12.437 H IRIB1 PER	27500	Home Cinema	10.795 V NATIONAL GEO	27500	News + Series
● 12.072 V Prima Fila 28	27500	Quality Entertain.	● 12.226 V VOA TV 241 (HB1-2)	16300	Quality Entertain.	12.437 H IRIB2 ENG	27500	Quality Entertain.	10.795 V EDUSAT	27500	Low Level
● 12.072 V Prima Fila 29	27500	Quality Entertain.	● 12.226 V VOA TV 242 (HB1-2)	16300	Quality Entertain.	12.437 H IRIB2 PER	27500	Quality Entertain.	10.795 V POLONIA1	27500	News + Series
● 12.072 V Prima Fila 30	27500	Quality Entertain.	● 12.226 V VOA TV 250 (HB1-8)	16300	Quality Entertain.	12.437 H IRIBN	27500	Quality Entertain.	10.795 V TELE5	27500	News + Series
12.072 V Prima Fila 5	27500	Quality Entertain.	● 12.226 V VOA TV 251 (HB1-2)	16300	Quality Entertain.	12.437 H PRESS TV	27500	Quality Entertain.	10.892 H H test 3	27500	Home Cinema
12.072 V SKY Calcio 2	27500	Low Level	● 12.226 V VOA TV 252 (HB1-2)	16300	Quality Entertain.	12.437 H SAHAR	27500	Quality Entertain.	10.892 H 119 test 1 E	27500	Quality Entertain.
12.072 V SKY Calcio 3	27500	Low Level	● 12.242 V MPEG TEST SERVICE	3700	Quality Entertain.	● 12.466 V Boomerang	29900	News + Series	10.892 H 119 test 1 E	27500	Quality Entertain.
12.072 V SKY Calcio 4	27500	Low Level	● 12.242 V VOA PERSIAN	3700	Quality Entertain.	● 12.466 V Boomerang +1	29900	Quality Entertain.	10.892 H 119 test 2 E	27500	News + Series
12.072 V SKY Calcio 5	27500	Low Level	12.245 H FOXlife	27500	News + Series	● 12.466 V Cartoon +1	29900	News + Series	10.892 H 119 test 2 E	27500	News + Series
12.072 V SKY Calcio 6	27500	Low Level	12.245 H MEZZO	27500	News + Series	● 12.466 V CNBC	29900	News + Series	10.892 H 119 test 3 E	27500	Quality Entertain.
12.072 V SKY Calcio 7	27500	Low Level	12.245 H AL BAGHDADIA	27500	Quality Entertain.	● 12.466 V Cooltoon	29900	News + Series	10.892 H 119 test 3 E	27500	Quality Entertain.
12.092 H AXN	27500	Low Level	12.245 H Al sumarijah	27500	News + Series	● 12.466 V Fox News	29900	Quality Entertain.	10.892 H 4823	27500	News + Series
● 12.092 H Class CNBC	27500	News + Series	12.245 H AL.Haqia	27500	News + Series	● 12.466 V Hallmark	29900	Quality Entertain.	10.892 H AL KINO!	27500	News + Series
12.092 H Comedy Central +1	27500	News + Series	12.245 H COMING SOON	27500	Quality Entertain.	● 12.466 V Jetix +1	29900	News + Series	10.892 H CANAL+	27500	Home Cinema
12.092 H Discovery Sci	27500	Quality Entertain.	12.245 H KURD 1	27500	News + Series	● 12.466 V LEI	29900	News + Series	10.892 H CANAL+ FILM	27500	Quality Entertain.
12.092 H Discovery Travel	27500	News + Series	12.245 H SAMACOM	27500	Home Cinema	● 12.466 V Roma Channel	29900	News + Series	10.892 H CANAL+ SPORT	27500	Quality Entertain.
● 12.092 H Fox Retro	27500	Quality Entertain.	12.245 H Syrian Drama Channel	27500	News + Series	● 12.466 V Sky News	29900	News + Series	10.892 H DOMO	27500	News + Series
12.092 H Gambero Rosso	27500	News + Series	12.264 V Discovery HD	27500	High Qual. Cinema	● 12.466 V SKY Service	29900	News + Series	10.892 H DTV CABLE	27500	News + Series
12.092 H Lady Channel	27500	News + Series	12.264 V HBO HD	27500	High Qual. Cinema	● 12.466 V The MGM Channel	29900	News + Series	10.892 H DTV CABLE 2	27500	Quality Entertain.
12.092 H Nick Jr	27500	News + Series	12.264 V Polsat Sport HD	27500	High Quality Home	12.476 H Alpha Punjab	27500	Low Level	10.892 H DTV CABLE 3	27500	Quality Entertain.
12.092 H Onda Latina	27500	Quality Entertain.	12.264 V HBO HD	27500	High Qual. Cinema	12.476 H Zee cinema	27500	News + Series	10.892 H DTV CABLE AL	27500	Quality Entertain.
12.092 H SKY Italia	27500	Quality Entertain.	● 12.264 V TEST_L	27500	High Qual. Cinema	12.476 H Zee TV	27500	News + Series	10.892 H DTV CABLE KU	27500	News + Series
12.130 H m2 HD	27500	High Quality Home	12.284 H Blue Hyster	27500	News + Series	12.476 H AIR BOX TV	27500	News + Series	10.892 H DTV CABLE ZI	27500	News + Series
12.130 H m2	27500	Home Cinema	12.284 H Boomerang	27500	News + Series	12.476 H AL Rasheed TV	27500	Quality Entertain.	10.892 H H test 1	27500	Quality Entertain.
12.130 H m2 16:9	27500	Home Cinema	12.284 H Dia Abonentow	27500	News + Series	12.476 H ICC+	27500	Low Level	10.892 H H test 2	27500	News + Series
● 12.149 V EQUIDIA	27500	Quality Entertain.	12.284 H E!	27500	News + Series	12.476 H ITN+	27500	Low Level	10.892 H KUCHNIA.TV	27500	Quality Entertain.
12.149 V CCTV4	27500	News + Series	12.284 H Jetix Play	27500	News + Series	12.476 H KANAL 4	27500	Low Level	10.892 H TVP 1	27500	News + Series
12.149 V DunaTV	27500	Quality Entertain.	● 12.284 H Superstacja	27500	Low Level	12.476 H KNN TV	27500	News + Series	10.892 H TVP 2	27500	Quality Entertain.
12.149 V FUEGO	27500	Low Level	12.284 H Test1	27500	Advertisement	● 12.476 H KOMALA TV	27500	News + Series	10.892 H ZipZap	27500	News + Series
12.149 V IN TV	27500	News + Series	12.284 H Travel	27500	News + Series	12.476 H KOREK TV	27500	News + Series	10.930 H A TEST	27500	Advertisement
12.149 V Khabar TV	27500	Quality Entertain.	12.284 H TV1000	27500	News + Series	12.476 H LIBERTY TV NL	27500	Advertisement	10.930 H Animal Planet	27500	News + Series
12.149 V LIDER TV AZE	27500	Quality Entertain.	12.284 H TVP INFO	27500	News + Series	12.476 H LIVE CHANNEL	27500	News + Series	10.930 H MGM	27500	News + Series
12.149 V SALENTINO CHANNEL	27500	News + Series	12.284 H TVP Sport	27500	Quality Entertain.	● 12.476 H NEWROZ TV	27500	News + Series	10.930 H MTV	27500	Quality Entertain.
12.149 V STUDIO 100 TV	27500	News + Series	12.284 H Zone Europa	27500	News + Series	12.476 H					



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11.219 H Onda Latina	27500	Low Level	11.258 H TVP HD	27500	High Qual. Cinema	11.411 H SEX ON TV CRYSTAL	27500	Low Level	11.804 V Rai Storia	27500	Quality Entertain.
11.219 H Opera	27500	Low Level	11.258 H ITVN EU	27500	Quality Entertain.	11.411 H SEX ON TV GOLD	27500	News + Series	11.804 V RaiNettunoSat1	27500	News + Series
11.219 H Out Of Mind	27500	Low Level	11.278 V CANAL+ FILM HD	27500	High Qual. Cinema	11.411 H SEX ON TV Silver	27500	Low Level	11.804 V RaiNotizie24	27500	Quality Entertain.
● 11.219 H Playhouse Disney +	27500	News + Series	11.278 V CANAL+ SPORT HD	27500	High Qual. Cinema	● 11.411 H Sevince TV	27500	Low Level	● 11.804 V SAT 2000	27500	Quality Entertain.
11.219 H Rock Classic	27500	Low Level	11.278 V ESP HD Bulgaria	27500	High Quality Home	11.411 H Al-Hayat	27500	News + Series	● 11.919 V Boing	27500	News + Series
11.219 H Rock Shock	27500	Low Level	11.278 V ESP HD Czech	27500	High Quality Home	11.411 H Bethel TV	27500	Low Level	● 11.919 V Iris	27500	News + Series
11.219 H Rock TV	27500	Quality Entertain.	11.278 V ESP HD Dutch	27500	High Qual. Cinema	11.411 H CALABRIA	27500	Low Level	11.919 V Canale 5	27500	Home Cinema
11.219 H Sinfonia	27500	Low Level	11.278 V ESP HD German	27500	High Qual. Cinema	11.411 H Cancao Nova	27500	News + Series	11.919 V Italia 1	27500	Home Cinema
11.219 H Soul Train	27500	Low Level	11.278 V ESP HD Hungarian	27500	High Quality Home	11.411 H Club Prive TV	27500	Advertisement	● 11.919 V MDS Test1	27500	News + Series
11.219 H Soulsister	27500	Low Level	11.278 V ESP HD Intl	27500	High Qual. Cinema	11.411 H ECTV	27500	Low Level	● 11.919 V Retequattro	27500	Home Cinema
11.219 H Stardust	27500	Low Level	11.278 V ESP HD Italy	27500	High Qual. Cinema	11.411 H Extra 3	27500	Low Level	12.111 V ACM Channel	27500	Low Level
11.219 H Vintage '60	27500	Low Level	11.278 V ESP HD Polish	27500	High Quality Home	11.411 H Kiss	27500	Advertisement	12.111 V AL JAZEERA	27500	Quality Entertain.
11.219 H Yesterday '80	27500	Low Level	11.278 V ESP HD Portuguese	27500	High Quality Home	11.411 H PTV	27500	Low Level	12.111 V AlJazeera Documentar	27500	Quality Entertain.
11.219 H Yesterday '90	27500	Low Level	11.278 V ESP HD Russian	27500	High Quality Home	11.411 H RTA	27500	Low Level	12.111 V AlJazeera Mubasher	27500	Quality Entertain.
11.240 V Club-RTL	27500	High Quality Home	11.278 V ESP HD Turk	27500	High Quality Home	● 11.411 H RTS SAT	27500	Quality Entertain.	● 12.111 V BETHEL	27500	Low Level
11.240 V Disney Channel	27500	High Quality Home	11.278 V EUROSORT HD	27500	High Quality Home	11.411 H SEX ON TV DIAMOND	27500	Advertisement	12.111 V Challenger Test	27500	Low Level
11.240 V La Deux	27500	High Quality Home	11.278 V EUROSORT HD PL	27500	High Qual. Cinema	11.411 H TAPESH TV2	27500	News + Series	12.111 V HIGH LIFE TV	27500	News + Series
11.240 V La Une	27500	High Quality Home	11.278 V NATIONAL GEO HD	27500	High Qual. Cinema	11.411 H TIZIANA SAT	27500	News + Series	● 12.111 V Jighen	27500	Advertisement
11.240 V Plug-RTL	27500	High Quality Home	● 11.296 H JSC Sports +1	27500	News + Series	11.449 H Filmbox HD	27500	High Qual. Cinema	12.111 V MediterraneoSat	27500	News + Series
11.240 V RTL-TVI	27500	High Quality Home	● 11.296 H JSC Sports +2	27500	News + Series	11.449 H Discovery HD	27500	High Qual. Cinema	12.111 V Puggia Channel	27500	Low Level
11.240 V ESP Bulgarian	27500	Quality Entertain.	● 11.296 H JSC Sports +3	27500	Quality Entertain.	11.449 H MGM HD	27500	High Qual. Cinema	12.111 V Radio Radio TV	27500	News + Series
11.240 V ESP Cyprus	27500	Quality Entertain.	● 11.296 H JSC Sports +4	27500	Quality Entertain.	11.449 H nSport	27500	High Qual. Cinema	12.111 V S.NEU JERUSALEM	27500	Low Level
11.240 V ESP Czech	27500	Quality Entertain.	● 11.296 H JSC Sports +5	27500	Quality Entertain.	11.449 H pVOD	27500	High Quality Home	12.111 V Sicilia Channel	27500	News + Series
11.240 V ESP Dutch	27500	Quality Entertain.	● 11.296 H JSC Sports +6	27500	News + Series	11.449 H TVN HD	27500	High Qual. Cinema	● 12.111 V Silk Road TV	27500	Low Level
11.240 V ESP Greek	27500	Quality Entertain.	● 11.296 H JSC Sports +7	27500	News + Series	● 11.508 V Discovery Channel	27500	Quality Entertain.	12.111 V Telefoggia	27500	Low Level
11.240 V ESP Hungarian	27500	Quality Entertain.	● 11.296 H JSC Sports +8	27500	News + Series	11.508 V Filmbox	27500	Quality Entertain.	12.111 V Telemarket 2	27500	Quality Entertain.
11.240 V ESP Int'l	27500	Quality Entertain.	11.355 V Fox Life +1	27500	News + Series	11.508 V Filmbox Extra	27500	Quality Entertain.	● 12.616 H Baby TV	27500	News + Series
11.240 V ESP Polish	27500	Quality Entertain.	● 11.355 V GXT +1	27500	News + Series	11.508 V Filmbox Family	27500	Quality Entertain.	12.616 H Comedy Central	27500	News + Series
11.240 V ESP Portuguese	27500	Quality Entertain.	11.355 V Kiss Kiss	27500	Low Level	● 11.508 V ID	27500	Quality Entertain.	● 12.616 H DeeJay TV	27500	Quality Entertain.
11.240 V ESP Romanian	27500	Quality Entertain.	11.355 V Live!	27500	Quality Entertain.	11.508 V n Sport	27500	Quality Entertain.	12.616 H La7	27500	News + Series
11.240 V ESP Russian	27500	Quality Entertain.	11.355 V MZO	27500	Low Level	11.508 V Religia TV	27500	Quality Entertain.	12.616 H Milan Channel	27500	News + Series
11.240 V ESP Serbia	27500	Quality Entertain.	11.355 V Music Box	27500	News + Series	11.508 V TVP Sport	27500	Home Cinema	12.616 H Nickelodeon	27500	News + Series
11.240 V ESP Turk	27500	Quality Entertain.	● 11.355 V Prima Filia 25	27500	News + Series	● 11.508 V TVN Warszawa	27500	Quality Entertain.	● 12.616 H Nickelodeon +1	27500	Quality Entertain.
11.240 V ESP2 German	27500	Quality Entertain.	● 11.355 V Prima Filia 32	27500	News + Series	11.526 H TS11	27500	Home Cinema	12.616 H Sportitalia	27500	Quality Entertain.
11.240 V ESP2 Greek	27500	Quality Entertain.	● 11.355 V Prima Filia 33	27500	News + Series	11.526 H TS12	27500	Home Cinema	● 12.616 H sportitalia24	27500	Quality Entertain.
11.240 V ESP2 Int'l	27500	Quality Entertain.	11.355 V R 101	27500	Low Level	11.526 H TSR1	27500	Home Cinema	12.616 H Videotalia	27500	Quality Entertain.
11.240 V ESP2 Romanian	27500	Quality Entertain.	11.355 V Radio 105	27500	Low Level	11.526 H TSR2	27500	Home Cinema	12.635 V Classica	27500	News + Series
11.240 V ESP2 Rus	27500	Quality Entertain.	11.355 V Radio 24	27500	Low Level	11.747 H AL ARABIYA	27500	News + Series	12.635 V DeAKids	27500	News + Series
11.240 V ESP2 Serbia	27500	Quality Entertain.	11.355 V Radio Capital	27500	Low Level	11.747 H AL SHARQIYA	27500	Quality Entertain.	12.635 V Disney Ch. +1	27500	News + Series
11.240 V ESP2 Turk	27500	Quality Entertain.	11.355 V Radio DeeJay	27500	Low Level	11.747 H DUBAI SPORTS	27500	Quality Entertain.	12.635 V Disney in English	27500	Low Level
11.240 V EUROSORT PL	27500	Quality Entertain.	11.355 V Radio Italia	27500	Low Level	11.747 H DUBAI TV	27500	Quality Entertain.	12.635 V Inter Channel	27500	Quality Entertain.
11.240 V EUROSORT2 PL	27500	Quality Entertain.	11.355 V Radio Montecarlo	27500	Low Level	11.747 H EZ Shop	27500	News + Series	12.635 V Juventus Channel	27500	News + Series
11.240 V EUSP2 PL	27500	Quality Entertain.	11.355 V Radio on SKY	27500	Low Level	● 11.747 H INTER TV SHOP	27500	News + Series	12.635 V SKY Cinema +24	27500	Quality Entertain.
11.240 V France 24 (en Franca	27500	Quality Entertain.	11.355 V RDS	27500	Low Level	11.747 H MBC MAGHREB AL AR	27500	News + Series	12.635 V SKY Max +1	27500	Quality Entertain.
11.240 V France 24 (en Inglis	27500	Quality Entertain.	11.355 V RTL 102.5	27500	Low Level	11.747 H ME SHOP	27500	News + Series	12.635 V Toon Disney +1	27500	News + Series
11.240 V RTBF SAT	27500	Quality Entertain.	11.355 V SKY Assist	27500	News + Series	11.747 H PMC	27500	Quality Entertain.	12.654 H AL IRAQIA TV	27500	News + Series
11.258 H AXN	27500	High Qual. Cinema	11.355 V Virgin Radio	27500	Low Level	11.747 H SAMADUBAI	27500	Quality Entertain.	12.654 H ALMUSTAKILLA	27500	News + Series
11.258 H Boomerang	27500	High Qual. Cinema	11.355 V Voce	27500	News + Series	11.766 V RAI2	27500	Quality Entertain.	12.654 H ESC	27500	News + Series
11.258 H Cartoon TCM	27500	High Qual. Cinema	11.393 V Tv	27500	News + Series	● 11.766 V RaiSat Extra	27500	Home Cinema	12.654 H JORDAN	27500	Quality Entertain.
11.258 H Cinemax 1	27500	High Qual. Cinema	11.393 V TVN	27500	Home Cinema	● 11.766 V RaiSat Yofo	27500	News + Series	12.654 H KUWAIT	27500	News + Series
11.258 H Cinemax 2	27500	High Qual. Cinema	11.393 V TVN 24	27500	Quality Entertain.	11.766 V RAIH	27500	Quality Entertain.	12.654 H LIBYA	27500	News + Series
11.258 H Jetix Play	27500	High Qual. Cinema	11.393 V TVN CNBC Biznes	27500	News + Series	11.766 V RAI3	27500	Home Cinema	12.654 H LIVE TV	27500	Quality Entertain.
11.258 H MTV2	27500	High Qual. Cinema	11.393 V TVN METEO	27500	Quality Entertain.	11.766 V RaiEdu1	27500	News + Series	12.654 H OMAN	27500	Quality Entertain.
● 11.258 H N2	27500	High Qual. Cinema	11.393 V TVN Siedem	27500	Home Cinema	11.766 V RaiMed	27500	News + Series	12.654 H QATAR TV	27500	Quality Entertain.
11.258 H NASN	27500	High Qual. Cinema	11.393 V TVN Style	27500	Quality Entertain.	11.766 V Senato	27500	News + Series	12.654 H SAUDI 1	27500	News + Series
11.258 H Sport Klub	27500	High Qual. Cinema	11.393 V TVN TURBO	27500	Quality Entertain.	● 11.804 V RaiSat Premium	27500	News + Series	12.654 H SHARJAH TV	27500	Quality Entertain.
11.258 H Sport Klub +	27500	High Qual. Cinema	● 11.393 V Mango 24	27500	News + Series	11.804 V Camera Deputati	27500	News + Series	12.654 H SUDAN	27500	News + Series
11.258 H TVP Historia	27500	High Qual. Cinema	11.411 H Dorcel TV	27500	News + Series	11.804 V Rai Gulp	27500	News + Series	● 12.673 V SKY Sport 1 HD	27500	News + Series
11.258 H Wojna i Pokoj	27500	High Qual. Cinema	● 11.411 H Redlight Premium	27500	News + Series	● 11.804 V Rai HD 1	27500	Advertisement	● 12.673 V Prima Filia 13	27500	News + Series
● 11.258 H Eurosport 2 HD	27500	High Qual. Cinema	11.411 H SEX ON TV CLASSIC	27500	Low Level	● 11.804 V Rai Sport pu	27500	Quality Entertain.	● 12.673 V Prima Filia 14	27500	News + Series

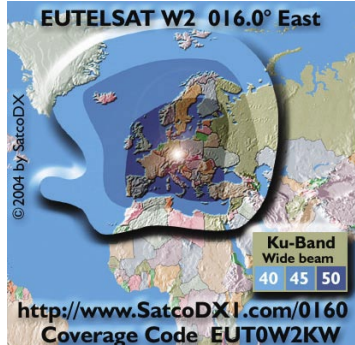
Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type	SatcoDX Definition
● 12.673 V		Prima Fila 15	27500	News + Series	
● 12.673 V		Prima Fila 18	27500	News + Series	
● 12.673 V		Prima Fila 20	27500	News + Series	
● 12.673 V		Prima Fila 23	27500	News + Series	
● 12.673 V		Prima Fila 24	27500	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	Low Level	
12.692 H		AB4	27500	News + Series	
12.692 H		CINE FIRST	27500	News + Series	
12.692 H		CINE FX	27500	News + Series	
12.692 H		CINE POLAR	27500	News + Series	
12.692 H		France 2	27500	News + Series	
12.692 H		France 3	27500	News + Series	
12.692 H		France 4	27500	Low Level	
12.692 H		Gulli	27500	Low Level	
12.692 H		M6	27500	Low Level	
12.692 H		NRJ12	27500	News + Series	
12.692 H		O. sport info	27500	News + Series	
12.692 H		TMC	27500	News + Series	
12.692 H		Virgin 17	27500	News + Series	
12.692 H		W9	27500	Low Level	
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	Quality Entertain.	
12.731 H		Discovery Real Time	27500	News + Series	
12.731 H		ESPN Classic	27500	Quality Entertain.	
12.731 H		MTV	27500	Quality Entertain.	
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		Vh1	27500	News + Series	

Europe

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16.0 East

EUTOW2KW



10.976 H		DigitAlb HD-2	22500	High Quality Home	
10.976 H		Nat Geo HD	22500	High Quality Home	
10.976 H		DigitAlb HD-1	22500	High Quality Home	
10.976 H		DigitAlb HD-3	22500	High Quality Home	
11.055 V		Bang Bang	27900	Low Level	
11.055 V		Cufo TV	27900	Low Level	
● 11.055 V		Digi Plus	27900	Low Level	
● 11.055 V		EXP histori	27900	Low Level	
● 11.055 V		EXP natrya	27900	Low Level	
● 11.055 V		EXP shkenca	27900	Low Level	
● 11.055 V		Film Autor	27900	Low Level	
11.055 V		Junior TV	27900	Low Level	
11.055 V		My-Music	27900	Low Level	
11.055 V		Top Channel	27900	Quality Entertain.	
11.055 V		Top News	27900	News + Series	
● 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	News + Series	
● 11.094 V		Film Drame	27900	News + Series	
● 11.094 V		Film Hits	27900	Low Level	
● 11.094 V		Film Komedi	27900	Low Level	
● 11.094 V		Film Thriller	27900	News + Series	
● 11.094 V		T	27900	News + Series	
● 11.094 V		X1	27900	Low Level	
● 11.094 V		X2	27900	News + Series	
● 11.094 V		SERVICE 1	27900	News + Series	
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	
● 11.148 V		FILM BOX Extra	8900	Quality Entertain.	
11.158 V		PINK DSNG	2894	Quality Entertain.	
11.166 H		GOD Europe	11850	High Quality Home	
● 11.166 H		FOOTSCCHOOL 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		RR-PROMO	11850	Low Level	
11.166 H		Telemidia 11	11850	News + Series	
11.178 H		CBS-NY STBY	5632	Home Cinema	
11.304 V		Animal Planet	30000	News + Series	
11.304 V		AXN	30000	Low Level	
11.304 V		BTv1	30000	Quality Entertain.	
11.304 V		BTv2	30000	Home Cinema	

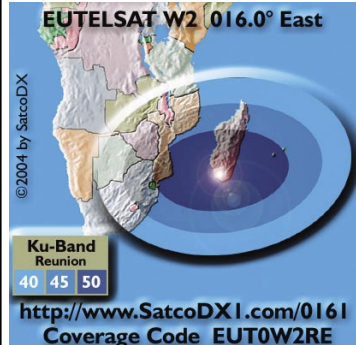
Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type	SatcoDX Definition
11.304 V		Discovery	30000	Low Level	
11.304 V		GTV	30000	News + Series	
11.304 V		NW	30000	Quality Entertain.	
11.304 V		Planeta	30000	Low Level	
11.304 V		Premium Digital	30000	Low Level	
11.304 V		RBS	30000	Quality Entertain.	
11.304 V		EBF	30000	News + Series	
11.304 V		Folklor TV	30000	News + Series	
11.304 V		SC Folk	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	Quality Entertain.	
11.449 H		SuperSport 3	27500	Quality Entertain.	
11.449 H		SuperSport 4	27500	Quality Entertain.	
11.449 H		SuperSport 5	27500	Quality Entertain.	
● 11.449 H		TeleNorba	27500	Advertisement	
11.449 H		TVSH Tokesor	27500	News + Series	
● 11.766 V		4Shabab	27500	News + Series	
● 11.766 V		AL HAYAT MUSALSAL	27500	News + Series	
● 11.766 V		Al Rouh	27500	Low Level	
● 11.766 V		AL TAWASOL	27500	News + Series	
● 11.766 V		AL-MAAREF	27500	News + Series	
● 11.766 V		ALQUDS TV	27500	News + Series	
● 11.766 V		ARRAI	27500	News + Series	
● 11.766 V		HADI TV	27500	News + Series	
● 11.766 V		IRAQ ECONOMY	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		TOYOR AL-JANAH	27500	News + Series	
● 11.766 V		WTV	27500	News + Series	
12.538 V		BN R.Srpska	4340	Quality Entertain.	
12.568 H		SIC INTERNACIONAL	3703	Home Cinema	
12.592 V		first_service	2934	News + Series	
12.600 V		ATLAS	6771	News + Series	
12.600 V		RTV MONTENEGRO	6771	Quality Entertain.	
12.621 V		CTV	2850	Quality Entertain.	
12.640 V		BBC Prime	6428	News + Series	
12.640 V		Carli TV	6428	News + Series	
12.640 V		Golica TV	6428	News + Series	
12.648 V		BH-TV1	5200	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 6 - U GRIGIO 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		44-SNAI TV promo	15000	Quality Entertain.	
12.650 H		77-AUDIO UNICO	15000	Quality Entertain.	
12.650 H		CH 3 - CANALE TES	15000	Advertisement	
12.650 H		CH 4 - SNAI TV	15000	Quality Entertain.	
12.650 H		CH 7 - SPORTIVE S	15000	Quality Entertain.	
12.683 H		TV7	2894	News + Series	
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		Kanal A	30000	Quality Entertain.	
12.726 V		Pop TV	30000	Quality Entertain.	
12.726 V		SportKlub Slovenia	30000	Quality Entertain.	
12.726 V		TV Pika	30000	News + Series	
12.726 V		TV3 Slovenia	30000	Quality Entertain.	
12.726 V		Art Channel	30000	Low Level	
12.726 V		Astro TV	30000	News + Series	
12.726 V		Best of Macedonia	30000	News + Series	
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		Info TV	30000	News + Series	
12.726 V		MKTV Sat	30000	News + Series	
12.726 V		Svet Plus	30000	News + Series	
● 12.726 V		TV1	30000	News + Series	
12.726 V		YU Planet Bec	30000	Advertisement	
12.735 H		AB Kanal	7609	News + Series	
12.735 H		Alfa TV	7609	Low Level	
12.735 H		Sitel 3	7609	News + Series	
12.735 H		K15 Music	7609	Low Level	
12.735 H		K15 TV	7609	Low Level	
12.735 H		Sitel	7609	News + Series	

East Africa

EUTELSAT W2

16.1 East

EUTOW2RE



11.486 H		Antenne Reunion	29950	Low Level	
11.486 H		BFM TV	29950	Low Level	
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	News + Series	

Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type	SatcoDX Definition
11.486 H		CC Frissons	29950	Low Level	
11.486 H		CC Premier	29950	Low Level	
11.486 H		CC Star	29950	Low Level	
11.486 H		Discovery	29950	Quality Entertain.	
11.486 H		Discovery XD	29950	Low Level	
11.486 H		M6	29950	Low Level	
11.486 H		MANGAS	29950	Low Level	
● 11.486 H		NOOT TV	29950	News + Series	
11.486 H		REAL TIME	29950	Low Level	
11.486 H		RTL9	29950	Low Level	
11.486 H		Serie Club	29950	News + Series	
11.486 H		Supersport 3	29950	News + Series	
11.486 H		TeleReunion	29950	Low Level	
11.486 H		Tempo	29950	News + Series	
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	Quality Entertain.	
● 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	News + Series	
● 11.490 H		CC Frissons	29950	News + Series	
● 11.490 H		CC Premier	29950	Low Level	
● 11.490 H		CC Star	29950	News + Series	
● 11.490 H		Discovery	29950	Low Level	
● 11.490 H		Discovery XD	29950	News + Series	
● 11.490 H		M6	29950	News + Series	
● 11.490 H		MANGAS	29950	News + Series	
● 11.490 H		NOOT TV	29950	News + Series	
● 11.490 H		REAL TIME	29950	News + Series	
● 11.490 H		RTL9	29950	Low Level	
● 11.490 H		Serie Club	29950	Low Level	
● 11.490 H		Supersport 3	29950	News + Series	
● 11.490 H		TeleReunion	29950	Low Level	
● 11.490 H		Tempo	29950	News + Series	
● 11.490 H		Teva	29950	Low Level	
● 11.490 H		TF6	29950	Low Level	

Aluo-Sat Satellite Consulting Service for China Import/Export from China



Luo Shi Gang,
Owner and Chief Consultant
of Aluo-Sat

深圳希罗世刚科技有限公司

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11.739 V MTV ESP	27500	Quality Entertain.
11.739 V MTV Hits	27500	News + Series
11.739 V MTV Hits	27500	News + Series
11.739 V MTV TWO	27500	News + Series
11.739 V MTV TWO.	27500	News + Series
11.739 V Nick ESP	27500	News + Series
11.739 V NICKELODEON Franc	27500	News + Series
11.739 V VH1	27500	Quality Entertain.
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	Quality Entertain.
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	News + Series
11.758 V MTV TWO.	27500	News + Series
11.758 V Nick ESP	27500	News + Series
11.758 V NICKELODEON Franc	27500	News + Series
11.758 V VH1	27500	Quality Entertain.
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	News + Series
11.759 H Classica	27500	Low Level
11.759 H Disney Channel	27500	Quality Entertain.
11.759 H Goldstar TV	27500	News + Series
11.759 H Helmatkanal	27500	News + Series
11.759 H Jetix	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 7	27500	News + Series
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.
11.759 H Sky Sport 4	27500	News + Series
11.759 H Sky Sport 5	27500	News + Series
11.759 H Sky Sport 6	27500	News + Series
11.759 H Sky Action	27500	Home Cinema
11.797 H Sky Bundesliga 1	27500	Low Level
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	News + Series
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	Home Cinema
11.797 H Sky Select Event B	27500	Quality Entertain.
11.797 H Sky Sport 3	27500	News + Series
11.817 V C CINEMA EMOTION	27500	News + Series
11.817 V C CINEMA FRISSON	27500	News + Series
11.817 V HISTOIRE	27500	Quality Entertain.
11.817 V ITELE	27500	Quality Entertain.
11.817 V JIMMY	27500	News + Series
11.817 V LA CHAINE METEO	27500	News + Series
11.817 V MEZZO	27500	News + Series

11.817 V MEZZO.	27500	News + Series
11.817 V PARIS PREMIERE	27500	News + Series
11.817 V SEASONS	27500	Home Cinema
11.817 V SPORT+	27500	Quality Entertain.
11.817 V EURONEWS	27500	Advertisement
11.876 H AXN Action	27500	News + Series
11.876 H Boomerang	27500	Quality Entertain.
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	Quality Entertain.
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	Quality Entertain.
11.895 V CINECINEMA CLUB	27500	News + Series
11.895 V M6	27500	News + Series
11.895 V MCM	27500	News + Series
11.895 V MCM POP	27500	Quality Entertain.
11.895 V MCM TOP	27500	Quality Entertain.
11.895 V TELEMAISON	27500	News + Series
11.895 V TF1	27500	Quality Entertain.
11.895 V VIRGIN 17	27500	Quality Entertain.
11.934 V CANAL J	27500	News + Series
11.934 V CUISINE TV	27500	News + Series
11.934 V EUROSPORT	27500	News + Series
11.934 V FILLES TV	27500	News + Series
11.934 V LCI	27500	News + Series
11.934 V PLANETE	27500	Quality Entertain.
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	News + Series
11.973 V MTV ENTERTAINMENT	27500	Quality Entertain.
11.973 V MTV Euro	27500	News + Series
11.973 V MTV IDOL	27500	News + Series
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	Low Level
11.973 V COMEDY CENTRAL Ge	27500	News + Series
11.973 V MTV Germany	27500	Quality Entertain.
11.973 V NICK/COMEDY	27500	Quality Entertain.
11.973 V VIVA Germany	27500	News + Series
11.993 H Cool	27500	Quality Entertain.
11.993 H deko	27500	Quality Entertain.
11.993 H Duna TV	27500	News + Series
11.993 H Echo TV	27500	News + Series
11.993 H Film+	27500	News + Series
11.993 H HBO	27500	Quality Entertain.
11.993 H HBO2	27500	News + Series
11.993 H m2	27500	News + Series
11.993 H Magyar ATV	27500	News + Series
11.993 H Minimax / Animax	27500	Low Level
11.993 H Sport 1	27500	News + Series
11.993 H Sport 2	27500	Quality Entertain.

11.993 H TV Paprika	27500	News + Series
12.012 V A LA CARTE 10	27500	News + Series
12.012 V A LA CARTE 11	27500	News + Series
12.012 V ESPN CLASSIC	27500	News + Series
12.012 V FRANCE 2	27500	News + Series
12.012 V FRANCE 3	27500	Home Cinema
12.012 V MOTORS TV	27500	News + Series
12.012 V TELE MELODY	27500	News + Series
12.012 V TRACE TV	27500	News + Series
12.012 V CINE+	27500	News + Series
12.031 H Blue Movie	27500	News + Series
12.031 H Discovery Channel	27500	News + Series
12.031 H Focus Gesundheit	27500	Low Level
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	Quality Entertain.
12.031 H Sky Sport 2	27500	Quality Entertain.
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 Extreme Sports	27500	News + Series
12.305 H Hallmark	27500	Low Level
12.305 H HBO Comedy	27500	Low Level
12.305 H Hustler TV	27500	News + Series
12.305 H Jetix/Jetix Max	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	News + Series
12.383 H Eurosport 2	27500	Quality Entertain.
12.383 H Filmmuzeum	27500	News + Series
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	News + Series
12.383 H TV Markiza	27500	News + Series
12.383 H TV Nova	27500	News + Series
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	Quality Entertain.
12.515 H NED3	22000	Quality Entertain.
12.515 H NGC	22000	Quality Entertain.
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	Quality Entertain.
12.552 V Bibel TV	22000	Low Level
12.552 V Chamber TV	22000	News + Series
12.552 V uRotic NEU	22000	Low Level
12.552 V LibertyTV FR	22000	Low Level

12.552 V LUXE.TV SD	22000	Quality Entertain.
12.552 V MediASAT	22000	News + Series
12.552 V QVC Deutschland	22000	Quality Entertain.
12.552 V RTL Tele Letzeburg	22000	Quality Entertain.
12.574 H Erediseleive 1	22000	Quality Entertain.
12.574 H Film1.3	22000	News + Series
12.574 H MGM	22000	News + Series
12.574 H NET5	22000	Quality Entertain.
12.574 H SBS6	22000	News + Series
12.574 H TBF	22000	News + Series
12.574 H Veronica/JETIX	22000	News + Series
12.574 H BVN	22000	News + Series
12.574 H Schlager TV	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 ARTE 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

AST01HKU

ASTRA 1H 019.2° East

Ku-Band
45 49 52

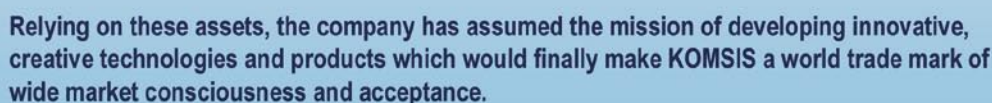
http://www.SatcoDX2.com/0192
Coverage Code AST01HKU

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	Quality Entertain.
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	Home Cinema
11.836 H WDR Köln	27500	Quality Entertain.
11.915 H Discovery HD	27500	High Qual. Cinema
11.915 H Eurosport HD	27500	High Qual. Cinema
11.915 H Sky Cinema HD	27500	High Qual. Cinema
11.915 H Sky Sport HD	27500	High Qual. Cinema

Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
11.954	H	3sat	27500	Quality Entertain.
11.954	H	KiKa	27500	News + Series
11.954	H	ZDF	27500	Home Cinema
11.954	H	ZDFdokukanal	27500	Quality Entertain.
11.954	H	ZDFinfokanal	27500	Quality Entertain.
11.954	H	ZDFtheaterkanal	27500	Home Cinema
12.051	V	PULS 4 Austria	27500	News + Series
12.051	V	Kabel 1 Austria	27500	Home Cinema
12.051	V	Kabel 1 Schweiz	27500	Home Cinema
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	Quality Entertain.
12.070	H	13th Street	27500	News + Series
12.070	H	Blue Movie 1	27500	News + Series
12.070	H	Blue Movie 2	27500	News + Series
12.070	H	Blue Movie 3	27500	News + Series
12.070	H	Fox Serie	27500	News + Series
12.070	H	Motorvision TV	27500	Quality Entertain.
12.070	H	RTL Crime	27500	Quality Entertain.
12.070	H	RTL Passion	27500	News + Series
12.070	H	Kix Krimi	27500	Quality Entertain.
12.070	H	TNT Serie	27500	News + Series
12.090	V	C CINEMA STAR	27500	News + Series
12.090	V	DISCOVERY	27500	Quality Entertain.
12.090	V	INFOSPORT	27500	Quality Entertain.
12.090	V	M6 MUSIC HITS	27500	Quality Entertain.
12.090	V	PINK TV/PINK X	27500	Quality Entertain.
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	News + Series
12.090	V	W9	27500	News + Series
12.110	H	ARD-TEST-1	27500	Home Cinema
12.110	H	MDR S-Anhalt	27500	Home Cinema
12.110	H	MDR Sachsen	27500	Home Cinema
12.110	H	MDR Thüringen	27500	Home Cinema
12.110	H	MDR FS HH	27500	Home Cinema
12.110	H	MDR FS NDS	27500	Home Cinema
12.110	H	MDR FS SH	27500	Home Cinema
12.110	H	rbb Berlin	27500	Quality Entertain.
12.110	H	rbb Brandenburg	27500	Home Cinema
12.110	H	SWR Fernsehen RP	27500	Home Cinema
12.129	V	A LA CARTE 13	27500	Quality Entertain.
12.129	V	A LA CARTE 14	27500	News + Series
12.129	V	A LA CARTE 2	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	Home Cinema
12.129	V	A LA CARTE 7	27500	News + Series
12.129	V	A LA CARTE 8	27500	Home Cinema
12.129	V	A LA CARTE 9	27500	News + Series
12.129	V	A LA CARTE 1	27500	Quality Entertain.
12.149	H	Alpenglücken TVX	27500	News + Series
12.149	H	BD 4	27500	Low Level
12.149	H	Sky Sport Austria	27500	Home Cinema
12.149	H	Channel 21	27500	News + Series
12.149	H	Der Schmuckkanal	27500	Quality Entertain.
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	Low Level
12.149	H	YAVIDO CLIPS	27500	News + Series
12.168	V	C CINEMA 16/9	27500	News + Series
12.168	V	EUROSPORT 2	27500	Home Cinema
12.168	V	EXTREME SPORTS	27500	News + Series
12.168	V	FRANCE 4	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	News + Series
12.168	V	A LA DEMANDE	27500	Quality Entertain.
12.188	H	Channel 21	27500	News + Series
12.188	H	n-tv	27500	Quality Entertain.
12.188	H	RTL FS	27500	Quality Entertain.
12.188	H	RTL HB NDS	27500	News + Series
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	Home Cinema
12.188	H	Super RTL CH	27500	News + Series
12.188	H	VOX	27500	Quality Entertain.
12.188	H	VOX CH	27500	News + Series
12.207	V	A LA CARTE 12	27500	News + Series
12.207	V	FRANCE 5	27500	News + Series
12.207	V	FRANCE Ô	27500	Quality Entertain.
12.207	V	OLTV	27500	News + Series
12.207	V	OM-TV	27500	Quality Entertain.
12.207	V	PLANETE THALASSA	27500	Quality Entertain.
12.207	V	PLAYBOY TV	27500	Quality Entertain.
12.207	V	TV BREIZH	27500	News + Series
12.227	H	EuroNews	27500	Quality Entertain.
12.227	H	Eurosport	27500	Quality Entertain.
12.227	H	HSE24 extra	27500	Quality Entertain.
12.227	H	RTL AUSTRIA	27500	Quality Entertain.
12.227	H	NICK AUSTRIA	27500	News + Series
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	!lifestyle.tv	27500	Advertisement
12.246	V	!live	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 Usexy Sexy Sat	27500	Advertisement
12.246	V	Bunny X	27500	Advertisement
12.246	V	Club1.TV	27500	Advertisement
12.246	V	DAF-AnlegerTV	27500	News + Series
12.246	V	Deleux MUSIC	27500	Quality Entertain.
12.246	V	Deutsches Erotik.TV	27500	Advertisement
12.246	V	Die Neue Zeit TV	27500	Low Level

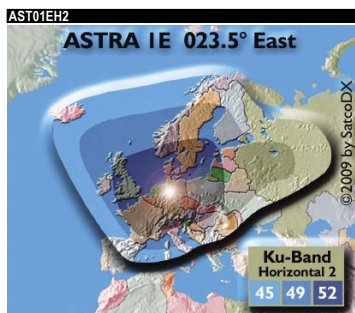
Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
12.246	V	DMAX	27500	News + Series
12.246	V	DrDish Television	27500	Low Level
12.246	V	Eros TV	27500	Advertisement
12.246	V	EroticDome	27500	Advertisement
12.246	V	Franken SAT	27500	News + Series
12.246	V	GayBoys LIVE	27500	Advertisement
12.246	V	Guter Sex.TV	27500	Advertisement
12.246	V	Herzschlag69	27500	Advertisement
12.246	V	Hot Girls.TV	27500	Advertisement
12.246	V	Liebesglück.TV	27500	Advertisement
12.246	V	Liebesraum.TV	27500	Advertisement
12.246	V	LokalSAT	27500	News + Series
12.246	V	maennerwelt.tv	27500	Advertisement
12.246	V	Mallorca.TV	27500	Advertisement
12.246	V	MehrGeld.TV	27500	Advertisement
12.246	V	münchen.tv/RFO	27500	News + Series
12.246	V	ONTV Regional	27500	Quality Entertain.
12.246	V	P'mMe.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	SAT Erotiktreff.TV	27500	Advertisement
12.246	V	SexyGirls.TV	27500	Advertisement
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	Low Level
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	Low Level
12.285	V	DORCEL TV	27500	Quality Entertain.
12.285	V	ENCYCLOPEDIA	27500	Low Level
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	News + Series
12.285	V	TMC	27500	News + Series
12.285	V	toute L'HISTOIRE	27500	News + Series
12.285	V	XXL	27500	News + Series
12.324	V	MOSAÏQUE C+	27500	News + Series
12.324	V	ONZEO	27500	Home Cinema
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	MOSAÏQUE	27500	News + Series
12.344	H	Animal Planet	27500	Quality Entertain.
12.344	H	Discovery	27500	Quality Entertain.
12.344	H	DORCEL TV	27500	News + Series
12.344	H	EUROSPORT	27500	Quality Entertain.
12.344	H	Hallmark	27500	News + Series
12.344	H	RTL 4	27500	News + Series
12.344	H	RTL 5	27500	News + Series
12.344	H	RTL 7	27500	News + Series
12.344	H	RTL 8	27500	Quality Entertain.
12.344	H	Test 97	27500	News + Series
12.344	H	TV Oranje	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	Low Level
12.363	V	DT8	27500	Advertisement
12.363	V	DT9	27500	Advertisement
12.402	V	13EME RUE	27500	Quality Entertain.
12.402	V	C CINEMA CLASSIC	27500	Quality Entertain.
12.402	V	C CINEMA FAMIZ	27500	News + Series
12.402	V	COMEDIE !	27500	News + Series
12.402	V	DISNEY XD	27500	Quality Entertain.
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	NRJ 12	27500	Quality Entertain.
12.402	V	PLANETE NO LIMIT	27500	News + Series
12.402	V	REAL TIME	27500	Home Cinema
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	News + Series
12.441	V	HISTORY	27500	News + Series
12.441	V	Kinowelt	27500	Quality Entertain.
12.441	V	National Geographic	27500	News + Series
12.441	V	Playboy TV (a)	27500	News + Series
12.441	V	RTL Living	27500	Quality Entertain.
12.441	V	arenaSAT Home	27500	News + Series
12.461	H	1-2-3.TV	27500	Quality Entertain.
12.461	H	ANIXE SD	27500	News + Series
12.461	H	DAS VIERTER	27500	Quality Entertain.
12.461	H	Daystar Television N	27500	News + Series

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12.461	H	ERF	27500	News + Series
12.461	H	Imusic TV	27500	News + Series
12.461	H	JAMBA! TV	27500	News + Series
● 12.461	H	Press TV	27500	News + Series
12.461	H	tv.gusto	27500	Quality Entertain.
12.480	V	AstroTV	27500	Low Level
12.480	V	DSF	27500	Quality Entertain.
12.480	V	equi8	27500	News + Series
12.480	V	glück TV	27500	Quality Entertain.
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	News + Series
12.522	V	CANAL HD TEST 3	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	CINE PREMIER HD	22000	High Qual. Cinema
12.581	V	DISNEY MAGIC HD	22000	High Qual. Cinema
12.581	V	13EME RUE 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	Quality Entertain.
12.640	V	DISNEY CINEMAGIC	22000	Quality Entertain.
12.640	V	DISNEY MAGIC+1	22000	Quality Entertain.
12.640	V	E! ENTERTAINMENT	22000	Quality Entertain.
12.640	V	GULLI	22000	Quality Entertain.
12.640	V	PLAYHOUSE DISNEY	22000	Quality Entertain.
12.640	V	TEVA	22000	News + Series
12.640	V	BLOOMBERG TV	22000	Advertisement
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	.Ab18	22000	Advertisement
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	Kuren und Wellness	22000	Advertisement
12.663	H	LT1-OOE	22000	Advertisement
12.663	H	NM-TV	22000	Advertisement
12.663	H	Piep Show	22000	Advertisement
12.663	H	S-TV	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	Advertisement
12.663	H	Weiber TV	22000	Advertisement
12.692	H	ORF2 T	22000	Home Cinema
12.692	H	ATV+	22000	Quality Entertain.
12.692	H	ORF1	22000	Home Cinema
12.692	H	ORF2	22000	Home Cinema
12.692	H	ORF2 B	22000	Home Cinema
12.692	H	ORF2 K	22000	Home Cinema
12.692	H	ORF2 N	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 V	22000	Home Cinema
12.692	H	ORF2 W	22000	Home Cinema
12.692	H	HITRADIO OE3	22000	Low Level
12.692	H	ORF2ZE	22000	Low Level



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Coverage Code AST01EH2

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 ElEntertainment	27500	News + Series
11.915 H History	27500	News + Series
11.915 H LIMBURG	27500	News + Series
11.915 H Omroep Brabant Telev	27500	News + Series
11.915 H Omroep Zeeland Telev	27500	News + Series
11.915 H Omroep Fryslan Televi	27500	Quality Entertain.
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 Eurosport	27500	Quality Entertain.
11.993 H FILMBOX	27500	Quality Entertain.
11.993 H FILMBOX EXTRA	27500	Low Level
11.993 H JimJam	27500	News + Series
11.993 H Leo TV	27500	Quality Entertain.
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 Public TV	27500	Low Level
12.031 H 9Live	27500	
12.031 H DSF	27500	
12.031 H HSE24	27500	
12.031 H kabel eins	27500	
12.031 H N24	27500	
12.031 H OraiaTV (engl)	27500	News + Series
12.031 H ProSieben	27500	
12.031 H Sat. 1	27500	
12.031 H Tele 5	27500	
12.070 H Nova HD test	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 Nova Sport HD	27500	High Quality Home
12.109 H EUROSPORT HD	27500	High Qual. Cinema
12.109 H Nova HD	27500	High Quality Home



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Coverage Code AST01EV2

11.739 V Consumenten TV 24	27500	Quality Entertain.
11.739 V Discovery Science	27500	Low Level
11.739 V Discovery Travel	27500	Quality Entertain.
11.739 V Film1.3 24h	27500	News + Series
11.739 V Geschiedenis 24	27500	News + Series
11.739 V Het Gesprek	27500	Quality Entertain.
11.739 V Holland Doc 24	27500	Quality Entertain.
11.739 V Humor 24/Nost.Net	27500	News + Series
11.739 V Nederland 24	27500	News + Series
11.739 V NGC Wild	27500	Quality Entertain.
11.739 V Sport1.2/Erediv.2	27500	News + Series
11.739 V Vitaliteit	27500	News + Series
11.739 V BiB	27500	Advertisement

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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 test	22000	Low Level
11.515 V ANIXE SD	28500	News + Series
11.515 H Ch1 BT + KT	27500	News + Series
11.515 H Ch2 BPK	27500	News + Series
11.515 H Ch3 BR	27500	News + Series
11.515 H Ch4 MAZ	27500	News + Series
11.515 V Das Vierte	28500	
11.515 H DAYSTAR TV	28500	News + Series
11.515 H DELUXE MUSIC	28500	Quality Entertain.
11.515 H 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 RhiP/Hessen	27500	Quality Entertain.
11.515 H Test BY	27500	Quality Entertain.
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	Home Cinema
11.555 H Tele 5	28500	
11.592 V Cartoon Network	28500	Quality Entertain.
11.592 V Cartoon Network (eng)	28500	Quality Entertain.
11.592 V Club TV	28500	Quality Entertain.
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	News + Series
11.592 V MTV Hits (engl)	28500	Quality Entertain.
11.592 V National Geo (engl)	28500	Quality Entertain.
11.592 V National Geographic	28500	News + Series
11.592 V Playboy TV	28500	
11.592 V Relax TV	28500	Home Cinema
11.592 V SciFi (KD)	28500	Quality Entertain.
11.592 V Spiegel TV Digital	28500	Quality Entertain.
11.592 V sportdigital.tv	28500	News + Series
11.592 V The Biography Channel	28500	News + Series
11.592 V TNT Film	28500	News + Series
11.592 V TNT Film (engl)	28500	News + Series
11.592 V Yacht & Sail	28500	News + Series
11.592 V Yacht & Sail (engl)	28500	News + Series
11.595 H ATV Avrupa (türk)	28500	News + Series
11.595 H Canal 24 Horas	28500	Quality Entertain.
11.595 H Channel21	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 H Nashe Kino (rus)	28500	
11.595 H RTP Internacional	28500	
11.595 H RTR Planeta (rus)	28500	News + Series
11.595 H RTVi (rus)	28500	
11.595 H Tier TV	28500	News + Series
11.595 H TRTi (türk)	28500	
11.595 H TV Polonia (pol)	28500	
11.595 H TVEi (span)	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	Quality Entertain.
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 redClub 1	28500	Quality Entertain.
11.635 V redClub 2	28500	Quality Entertain.
11.635 V redClub 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 TraceTV	28500	News + Series
11.635 H tv.gusto Premium	28500	
11.635 H Wetter Fernsehen	28500	
11.675 V AJ Jazeera Int (engl)	28500	

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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 [tru:] young tv	27500	News + Series
11.720 H ANIXE SD	27500	Quality Entertain.
11.720 H Channel 21	27500	Quality Entertain.
11.720 H Die Neue Zeit TV	27500	Low Level
11.720 H equi8	27500	Quality Entertain.
11.720 H EWTN Europe	27500	News + Series
11.720 H Kuren and Wellness	27500	News + Series
11.720 H Luxe TV	27500	News + Series
11.720 H TIMM TV	27500	Low Level
11.720 H TW1	27500	Home Cinema
11.720 H XXHOME	27500	Low Level
11.720 H YAVIDO CLIPS	27500	News + Series
11.797 H Discovery	27500	Quality Entertain.
11.797 H Duna TV test	27500	Quality Entertain.
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 M2	27500	Quality Entertain.
11.797 H TV Barrandov	27500	News + Series
11.797 H TV JOJ	27500	Quality Entertain.
11.797 H TA3	27500	News + Series
11.797 H Z 1	27500	Quality Entertain.
11.856 V Discovery HD	27500	High Qual. Cinema
11.856 V een HD	27500	High Quality Home
11.856 V NED1 HD	27500	High Quality Home
11.856 V NGC HD	27500	High Qual. Cinema
11.856 V BravaHDTV	27500	High Qual. Cinema
11.856 V MelodyZen.tv	27500	High Quality Home
11.876 H AXN	27500	Low Level
11.876 H AXN Sci-fi	27500	News + Series
11.876 H CSFilm/XXX/CSMini	27500	News + Series
11.876 H DoQ	27500	Quality Entertain.
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	News + Series
12.525 V CT 2	27500	Home Cinema
12.525 V CT 1	27500	Quality Entertain.
12.525 V CT 4	27500	Home Cinema
12.525 V Prima TV	27500	Home Cinema
12.525 V CT 24	27500	Home Cinema
12.525 V Noe TV	27500	News + Series
12.565 V 1-2-3.tv	27500	Quality Entertain.
12.565 V BBC World (engl)	27500	
12.565 V BibeTV	27500	
12.565 V Bloomberg	27500	
12.565 H DOMA	27500	Quality Entertain.
12.565 V EuroNews	27500	
12.565 V Eurosport 2	27500	News + Series
12.565 H Infokanal	27500	Low Level
12.565 H Markiza	27500	Quality Entertain.
12.565 V MTV	27500	
12.565 V NICK/COMEDY CENTR	27500	
12.565 H STV1	27500	Home Cinema
12.565 H STV2	27500	Quality Entertain.
12.565 H STV3	27500	Quality Entertain.
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	Low Level
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	Home Cinema
12.605 V DMAX	28500	
12.605 H El 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	Quality Entertain.
12.605 H Jukebox	28500	Quality Entertain.
12.605 V Juwelo TV	28500	News + Series
12.605 H kabel eins classics	28500	News + Series
12.605 H MTV Entertainment	28500	Quality Entertain.
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	Home Cinema
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	
12.636 V K-TV	2277	News + Series

North Africa, Middle East

EUROBIRD 2

25.5 East

EU8002FB



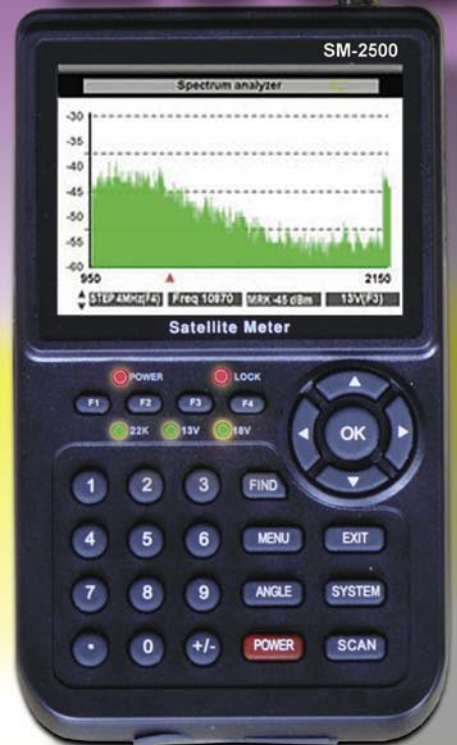
<http://www.SatcoDX2.com/0255>
Coverage Code EUB002FB

11.012 H BLOOMBERG	27500	News + Series
11.012 H CINEMA CITY	27500	News + Series
11.012 H FASHION TV	27500	Low Level
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	News + Series
11.012 H TOON DISNEY	27500	News + Series
11.012 H TVMAX	27500	Quality Entertain.
11.055 H AL RIYADIYAH	27500	News + Series
11.055 H AMERICA PLUS	27500	News + Series
11.055 H C-SPAN	27500	News + Series
11.055 H CNBC	27500	News + Series
11.055 H MUSIC NOW	27500	Quality Entertain.
11.055 H ORBIT NEWS 2	27500	News + Series
11.055 H PTest	27500	Low Level
11.055 H SHOWSERIES	27500	News + Series
11.055 H SKY NEWS	27500	Low Level
11.055 H SUPER COMEDY	27500	News + Series
11.075 H AL RIYADIYAH	27500	News + Series
11.075 H AMERICA PLUS	27500	News + Series
11.075 H C-SPAN	27500	Quality Entertain.
11.075 H CNBC-US	27500	Quality Entertain.
11.075 H FOX NEWS	27500	News + Series
11.075 H FOX SPORTS	27500	Quality Entertain.
11.075 H MUSIC NOW	27500	Quality Ent

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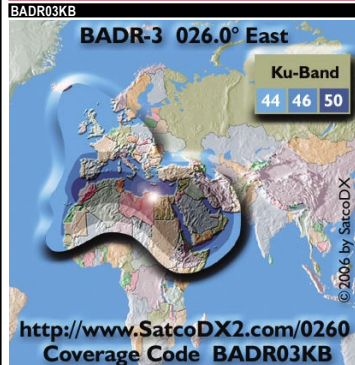
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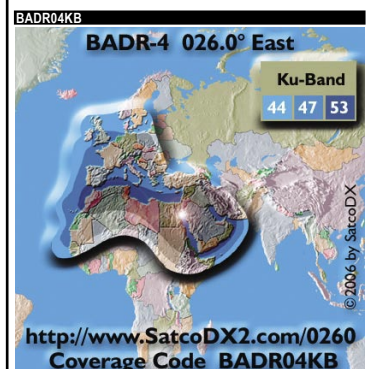
11.623 V Al Athar 156	27500	News + Series
11.623 V AL MASEE TV	27500	News + Series
11.623 V Al-Khel TV	27500	News + Series
11.623 V Bin-Othaimen	27500	News + Series
11.623 V Harmony TV	27500	News + Series
11.623 V Jasco	27500	News + Series
11.623 V NART	27500	News + Series
11.623 V NOOR AL HODA	27500	News + Series
11.623 V Oscar Drama	27500	News + Series
11.623 V Sada Al Islam	27500	Low Level
11.623 V Salwa	27500	Low Level
11.623 V SANA	27500	News + Series
11.623 V Touor Al-Janah	27500	News + Series
11.623 V WESAL	27500	News + Series
11.635 H Fann	14468	Quality Entertain.
11.635 H Mkis Feed	14468	Low Level
11.635 H Music Now	14468	Quality Entertain.
11.635 H Salwa	14468	News + Series
11.662 V Fox Sport	27500	Quality Entertain.
11.662 V Al Habeeb TV	27500	News + Series
11.662 V Al JADEED	27500	News + Series
11.662 V Al Khel	27500	News + Series
11.662 V Al Lafetah	27500	News + Series
11.662 V Al Sumariah	27500	News + Series
11.662 V Awal	27500	Low Level
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 Mihnat Artvision	27500	Low Level
11.662 V NART	27500	News + Series
11.662 V SALWA	27500	Low Level
11.662 V Supreme Master	27500	News + Series
11.662 V Taleemiah	27500	News + Series
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	News + Series
11.681 H CINEMA 2	27500	News + Series
11.681 H FANN	27500	News + Series
11.681 H GMA LIFE TV	27500	Quality Entertain.
11.681 H AL YAWM	27500	News + Series
11.681 H HISTORY CHANNEL	27500	News + Series
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	Quality Entertain.
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



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 Morocco 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 Oyoum 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 A1pha 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 Sehraja TV	27500	Advertisement
11.862 V Test 2	27500	Low Level
11.862 V Test 3	27500	Low Level
11.862 V Test 4	27500	Low Level
11.862 V Yara TV	27500	Low Level
12.015 V Al-Ekhabria	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.



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 Beatty 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

Freq GHz	Pol	Channel Name	Symbol ksym/sec	Rate SatcoDX Definition	Programming Type
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 Entertainment	
11.976	V	Al Watan TV	27500	Quality Entertainment	
11.976	V	Rawasy	27500	News + Series	
11.996	H	Al Jazeera	27500	Advertisement	
11.996	H	AlAlam	27500	Quality Entertainment	
11.996	H	AlMustakillah	27500	Quality Entertainment	
11.996	H	Arabsat Promotion Ch	27500	Quality Entertainment	
11.996	H	BBC Arabic	27500	Quality Entertainment	
11.996	H	CNBC Arabiya	27500	Quality Entertainment	
11.996	H	France 24 (in Arabic)	27500	Quality Entertainment	
11.996	H	Ruslita Al-Yaum	27500	News + Series	
11.996	H	TEST	27500	Advertisement	
12.034	H	AL JAZEERA CHILDR	27500	Quality Entertainment	
12.034	H	Alkass	27500	Home Cinema	
12.034	H	JSC	27500	Quality Entertainment	
12.034	H	JSC Documentary	27500	Quality Entertainment	
12.034	H	JSC English	27500	Quality Entertainment	
12.034	H	JSC Mubasher	27500	Quality Entertainment	
12.034	H	JSC Sports	27500	Quality Entertainment	
12.034	H	JSC Test	27500		
12.034	H	Qatar TV	27500	Quality Entertainment	
12.053	V	Addouna TV	27500	News + Series	
12.053	V	AlAqsa	27500	News + Series	
12.053	V	AlRai	27500	Quality Entertainment	
12.053	V	Awlan	27500	News + Series	
12.053	V	Jordan TV	27500	Quality Entertainment	
12.053	V	KBS V	27500	Quality Entertainment	
12.053	V	Khabar	27500	News + Series	
12.053	V	Live TV	27500	News + Series	
12.053	V	Press TV	27500	Quality Entertainment	
12.053	V	Syria TV	27500	Quality Entertainment	
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	Aliliya Satellite C	27500	News + Series	
12.072	H	ANB TV	27500	News + Series	
12.072	H	Arabsat Promotion Ch	27500	Quality Entertainment	
12.072	H	BBC World Middle E	27500	Quality Entertainment	
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 Entertainment	
12.072	H	NHK World	27500	Quality Entertainment	
12.072	H	Seha TV	27500	Advertisement	
12.072	H	TEST	27500	Advertisement	
12.072	H	TV5 Monde Orient	27500	Quality Entertainment	
12.073	H	Aalam Hawaa	27500	Low Level	
12.073	H	Al Hiwar TV	27500	News + Series	
12.073	H	Aliliya Satellite C	27500	News + Series	
12.073	H	ANB TV	27500	News + Series	
12.073	H	Arabsat Promotion Ch	27500	Quality Entertainment	
12.073	H	BBC World Middle E	27500	Quality Entertainment	
12.073	H	ETNTV	27500	Low Level	
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12.073	H	NHK World	27500	Quality Entertainment	
12.073	H	Seha TV	27500	Advertisement	
12.073	H	TEST	27500	Advertisement	
12.073	H	TV5 Monde Orient	27500	Quality Entertainment	
12.092	V	AL MOJTAMA	27500	News + Series	
12.092	V	Al Wasat TV	27500	News + Series	
12.092	V	ALDAFAH Music	27500	Quality Entertainment	
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	ALAAAN TV	27500	News + Series	
12.111	H	ARIRANG	27500	Home Cinema	
12.111	H	ASHOROQ TV	27500	Quality Entertainment	
12.111	H	Decision Makers Tv	27500	News + Series	
12.111	H	DUBAI RACING	27500	Quality Entertainment	
12.111	H	Dubai Sports 2	27500	Quality Entertainment	
12.111	H	INFINITY 2	27500	Quality Entertainment	
12.111	H	Jawna	27500	Low Level	
12.111	H	SHARQIYA	27500	Quality Entertainment	
12.111	H	Test	27500	Quality Entertainment	
12.130	V	4FUN	27500	Low Level	
12.130	V	Al Haqiqa	27500	News + Series	
12.130	V	AL-Adalah 2	27500	Quality Entertainment	
12.130	V	ALBAGHDADIA	27500	Quality Entertainment	
12.130	V	Albairaq	27500	News + Series	
12.130	V	AlHayat	27500	Quality Entertainment	
12.130	V	Amwaj	27500	News + Series	
12.130	V	Bedayah Nesaaya TV	27500	News + Series	
12.130	V	Daleel	27500	News + Series	
12.130	V	Dubai One	27500	Quality Entertainment	
12.130	V	Dubai Sport	27500	Quality Entertainment	
12.130	V	Dubai TV	27500	Quality Entertainment	
12.130	V	FUNoon Plus	27500	Quality Entertainment	
12.130	V	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	V	Safa TV	27500	News + Series	
12.130	V	Sama Dubai	27500	Quality Entertainment	

Freq GHz	Pol	Channel Name	Symbol ksym/sec	Rate SatcoDX Definition	Programming Type
12.130	V	Sehaa TV	27500	News + Series	
12.130	H	H Test	27500	News + Series	
12.130	H	Wtanya	27500	News + Series	
12.149	H	AL-Adalah 2	27500	Quality Entertainment	
12.149	H	ALBAGHDADIA	27500	Quality Entertainment	
12.149	H	ALHayat	27500	Quality Entertainment	
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 Entertainment	
12.149	H	Hayatouna TV	27500	News + Series	
12.149	H	Safa TV	27500	News + Series	
12.149	H	H Test	27500	Low Level	
12.149	H	Wtanya	27500	News + Series	
12.167	V	Al Dawliya	27500	Quality Entertainment	
12.167	V	Ghira TV	27500	News + Series	
12.167	V	MTV ARABIA	27500	Quality Entertainment	
12.167	V	Nickelodeon	27500	Quality Entertainment	
12.167	V	NOOR DUBAI	27500	Quality Entertainment	
12.167	V	Test 1	27500	News + Series	
12.167	V	Test 2	27500	Quality Entertainment	
12.167	V	Test 3	27500	Quality Entertainment	
12.167	V	Test 4	27500	Quality Entertainment	
12.167	V	Test 5	27500	Quality Entertainment	
12.182	H	AL-EYMAN	16200	Quality Entertainment	
12.182	H	SHEBA	16200	Home Cinema	
12.182	H	YAMANIA	16200	Quality Entertainment	
12.182	H	YEMEN	16200	Quality Entertainment	
12.206	V	Aalam Hawaa	27500	Low Level	
12.206	V	Al-Iraqia	27500	News + Series	
12.206	V	PEACE TV	27500	Quality Entertainment	
12.206	V	PSC	27500	News + Series	
12.206	V	Qatar TV	27500	Quality Entertainment	
12.206	V	RTD Djibouti	27500	News + Series	
12.206	V	Sehrya	27500	Low Level	
12.206	V	Shada2	27500	Low Level	
12.206	V	SSTV	27500	News + Series	
12.206	V	Sudan TV	27500	Quality Entertainment	
12.206	V	Tayba TV	27500	News + Series	
12.206	V	Test 1	27500	News + Series	
12.226	H	Bahrain 55	27500	Quality Entertainment	
12.226	H	Bahrain Sport	27500	Quality Entertainment	
12.226	H	Bahrain Sport 2	27500	Quality Entertainment	
12.226	H	Bahrain TV	27500	Quality Entertainment	
12.226	H	H Test 2	27500	News + Series	
12.226	H	H Test 3	27500	News + Series	
12.226	H	H Test 4	27500	News + Series	
12.226	H	H Test 5	27500	News + Series	
12.226	H	H Test 6	27500	News + Series	
12.226	H	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 Entertainment	
12.284	V	Future TV	27500	News + Series	
12.284	V	Future USA	27500	Quality Entertainment	
12.284	V	Mauritania TV	27500	Quality Entertainment	
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 Entertainment	
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 Entertainment	
12.523	H	KTV CH1	27500	Quality Entertainment	
12.523	H	KTV CH2	27500	Quality Entertainment	
12.523	H	KTV CH3	27500	Quality Entertainment	
12.523	H	KTV ETHRAA	27500	Quality Entertainment	
12.523	H	KTV Quran	27500	Quality Entertainment	
12.523	H	KTV S.PLUS	27500	Quality Entertainment	
12.523	H	Kuwait Feed	27500	Quality Entertainment	

Europe

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

28.2 East

AST02ANO

Freq GHz	Pol	Channel Name	Symbol ksym/sec	Rate SatcoDX Definition	Programming Type
11.759	H	1381	27500	Low Level	
11.759	H	1382	27500	Home Cinema	
11.759	H	1383	27500	Quality Entertainment	
11.759	H	1384	27500	Quality Entertainment	
11.759	H	1385	27500	Quality Entertainment	
11.759	H	1386	27500	News + Series	
11.759	H	1387	27500	Low Level	
11.759	H	1388	27500	Low Level	
11.759	H	1389	27500	Low Level	

Freq GHz	Pol	Channel Name	Symbol ksym/sec	Rate SatcoDX Definition	Programming Type
11.759	H	1481	27500	Quality Entertainment.	
11.759	H	1482	27500	Quality Entertainment.	
11.759	H	1483	27500	Quality Entertainment.	
11.759	H	1484	27500	Home Cinema	
11.759	H	1485	27500	Low Level	
11.759	H	1486	27500	Low Level	
11.759	H	1487	27500	Low Level	
11.759	H	1488	27500	Low Level	
11.759	H	1489	27500	News + Series	
11.778	V	Music Choice	27500	Advertisement	
11.836	H	Sky Action	27500	Quality Entertainment.	
11.836	H	Sky Classics	27500	Quality Entertainment.	
11.836	H	Sky Comedy	27500	Quality Entertainment.	
11.836	H	Sky Drama	27500	Quality Entertainment.	
11.836	H	Sky Family	27500	Quality Entertainment.	
11.836	H	Sky Indie	27500	Quality Entertainment.	
11.836	H	Sky SciFi/Horror	27500	Quality Entertainment.	
11.856	V	Eurosport HD	29500	High Qual. Cinem	
11.856	V	Sky Arts 2 HD	29500	High Qual. Cinem	
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 Entertainment.	
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 Entertainment.	
11.954	H	T7 STRM-1	27500	News + Series	
12.149	H	Sky Spts Xtra	27500	Home Cinema	
12.149	H	ComedyCtralX	27500	News + Series	
12.149	H	Eurosport 2 UK	27500	News + Series	
12.149	H	Hallmark	27500	News + Series	
12.149	H	S1Test	27500	News + Series	
12.149	H	Sky Sports 1	27500	Quality Entertainment.	
12.149	H	Sky Spts News	27500	News + Series	
12.149	H	Sky Spts Xtra	27500	Home Cinema	
12.149	H	SP News	27500	News + Series	
12.168	V	Sky Comedy HD	29500	High Qual. Cinem	
12.168	V	Sky Drama HD	29500	High Qual. Cinem	
12.168	V	Sky MdnGrtsHD	29500	High Qual. Cinem	
12.168	V	Sky SciFi/HorHD	29500	High Qual. Cinem	
12.227	H	KISS	27500	Home Cinema	
12.227	H	1837	27500	News + Series	
12.227	H	1840	27500	Quality Entertainment.	
12.227	H	1871 SOM Test	27500	News + Series	
12.227	H	Q	27500	Quality Entertainment.	
12.227	H	Sky1	27500	Low Level	
12.227	H	Sky2	27500	Quality Entertainment.	
12.227	H	Sky3	27500	News + Series	
12.227	H	The Box	27500	News + Series	
12.227	H	CommunityChnl	27500	Low Level	
12.246	V	Bio HD	29500	High Qual. Cinem	
12.246	V	Crime HD	29500	High Qual. Cinem	
12.246	V	History HD	29500	High Qual. Cinem	
12.246	V	NatGeoWild HD	29500	High Qual. Cinem	
12.246	V	Sky Action HD	29500	High Qual. Cinem	

DishPointer.com

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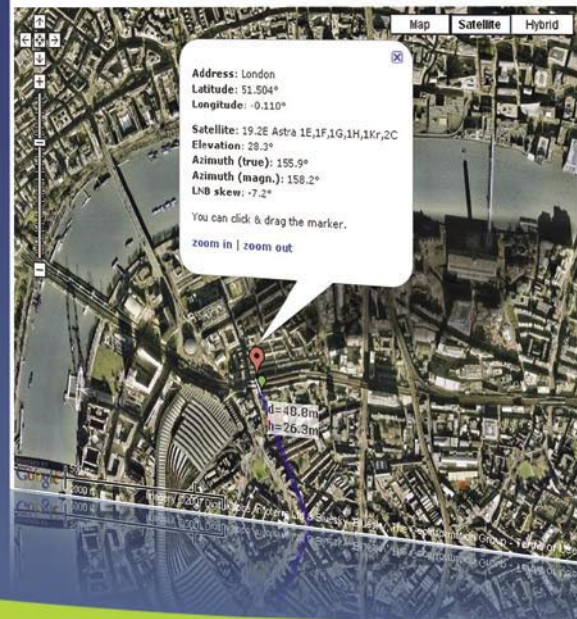
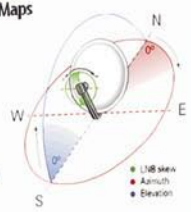
Satellite Dish Pointer / Alignment Calculator with Google Maps

International location: e.g. streetname, postcode, geocode:

Popular Satellites:

- 29.2E Astra 2A-8-D
- 13.0E Hotbird 6,7A,8
- 19.2E Astra 1E,1F,1G,1H,1K,2C
- 42.0E Turksat 1C, 2A
- 16.0E Eutelsat W2
- 26.0E Badr-2,3,4/Eurobird 2
- 5.0E Sirius 2,3
- 5.0W Atlantic Bird 3
- 7.0W Nilesat 101,102, Atlantic Bird 4
- 1.0W Intelsat 10-02

All Satellites & Multi-LNB Setups:



References



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www.dishpointer.com
info@dishpointer.com

AST02BSO

ASTRA 2A 028.2° East

Ku-Band
44 46 51

<http://www.SatcoDX2.com/0282>
Coverage Code **AST02BSO**

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 TSNOW	27500	News + Series
12.110 H Sky Sports 2	27500	Home Cinema
12.110 H Sky Sports 3	27500	Home Cinema
12.110 H Cartoonito	27500	News + Series
12.110 H FX	27500	Home Cinema
12.110 H SBL	27500	Low Level
12.110 H Sky Sports 1	27500	Quality Entertain.
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	Quality Entertain.
12.188 H E! Entertainment	27500	Quality Entertain.
12.188 H Eurosport UK	27500	News + Series
12.188 H Nat Geo Wild	27500	News + Series
12.188 H ShortGeoTV	27500	News + Series
12.188 H TCM	27500	News + Series
12.188 H 5705	27500	Low Level
12.188 H HSSNR	27500	Low Level
12.207 V Sky News	27500	Quality Entertain.
12.207 V Sky News Eire (Cable)	27500	Home Cinema
12.207 V Sky News UK (Cable)	27500	News + Series
12.265 H Jetix +1	27500	Low Level
12.265 H Nick Jr Test	27500	News + Series
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	News + Series
12.265 H Sky Sports 2	27500	Quality Entertain.
12.265 H Portal Video 6	27500	News + Series

12.305 H 1429 27500 News + Series

12.305 H Crime 27500 News + Series

12.305 H ESPN 27500 Quality Entertain.

12.305 H Jetix 27500 News + Series

12.305 H Retail Info 27500 Low Level

12.305 H Sky Vegas 27500 News + Series

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 H 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 News + Series

12.441 V STREAM-1 27500 Quality Entertain.

12.441 V STREAM-2 27500 Quality Entertain.

12.441 V STREAM-3 27500 Quality Entertain.

12.441 V STREAM-4 27500 Quality Entertain.

12.441 V STREAM-5 27500 News + Series

12.441 V STREAM-6 27500 Quality Entertain.

AST02CKU

ASTRA 2C 028.2° East

Ku-Band
45 49 53

<http://www.SatcoDX2.com/0282>
Coverage Code **AST02CKU**

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

AST02DKB

ASTRA 2A 028.2° East

Ku-Band
44 48 52

<http://www.SatcoDX2.com/0282>
Coverage Code **AST02DKB**

10.714 H c41	22000	Quality Entertain.
10.714 H Channel 4	22000	Quality Entertain.
10.714 H Film4	22000	Quality Entertain.
10.714 H Film4 +1	22000	News + Series
10.714 H More4 +1	22000	News + Series
10.729 V 8389	22000	Quality Entertain.
10.729 V Channel 4 +1	22000	News + Series
10.729 V e4	22000	Quality Entertain.
10.729 V e4	22000	Quality Entertain.
10.729 V e4+1	22000	News + Series
10.729 V More4	22000	News + Series
10.744 H RTE One	22000	News + Series
10.744 H RTE TWO	22000	Quality Entertain.
10.744 H TG4	22000	Quality Entertain.
10.744 H TV3	22000	Quality Entertain.
10.744 H FA Dal	22000	Low Level
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	Home Cinema
10.759 V ITV1 Anglia E	22000	News + Series
10.759 V ITV1 Central W	22000	Home Cinema
10.759 V ITV1 Granada	22000	Home Cinema
10.759 V ITV1 London	22000	Low Level
10.759 V ITV2	22000	Home Cinema
10.759 V ITV4	22000	News + Series
10.759 V ITV1 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	Low Level
10.773 H BBC TES 3	22000	News + Series
10.773 H BBC THREE	22000	Quality Entertain.
10.773 H CBBC Channel	22000	Quality Entertain.
10.773 H CBeebies	22000	News + Series
10.773 H ETV	22000	Home Cinema
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	Quality Entertain.
10.832 H ITV1 Wales	22000	News + Series
10.832 H ITV1 West	22000	News + Series
10.832 H ITV4+1	22000	News + Series
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 (151)	22000	Home Cinema
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	Quality Entertain.
10.862 H Play Disney+	22000	Low Level
10.877 V 1356	22000	Quality Entertain.
10.877 V At The Races	22000	Quality Entertain.
10.877 V FX+	22000	Quality Entertain.
10.877 V Sky Real Lives	22000	News + Series
10.877 V Sky Sports 2	22000	Quality Entertain.
10.877 V SkyRealLive+1	22000	Quality Entertain.
10.877 V SkyRealLive2	22000	News + Series
10.877 V Sky Travel	22000	Low Level
10.891 H G53	22000	News + Series
10.891 H ITV1 Anglia S	22000	Quality Entertain.
10.891 H ITV1 Border Sco	22000	Quality Entertain.
10.891 H ITV1 Meridian E	22000	News + Series
10.891 H ITV1 Meridian S	22000	Quality Entertain.
10.891 H ITV1 TT N	22000	Quality Entertain.
10.891 H ITV1 Yorks W	22000	Quality Entertain.
10.891 H ITV2+1	22000	Low Level
10.891 H Men & Motors	22000	Quality Entertain.
10.906 V G54	22000	Quality Entertain.
10.906 V ITV Channel Is	22000	Quality Entertain.
10.906 V ITV3	22000	Quality Entertain.
10.906 V ITV3+1	22000	Quality Entertain.
10.906 V STV	22000	Quality Entertain.

Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
10.906	V	UTV	22000	Quality Entertain.
10.921	H	Current TV	22000	Quality Entertain.
10.921	H	NDTV 24x7	22000	News + Series
10.935	V	1474	22000	Home Cinema
10.935	V	1391	22000	Quality Entertain.
10.935	V	1392	22000	News + Series
10.935	V	1393	22000	Quality Entertain.
10.935	V	1394	22000	Quality Entertain.
10.935	V	1395	22000	News + Series
10.935	V	1396	22000	Low Level
10.935	V	1397	22000	News + Series
10.935	V	1398	22000	Low Level
10.935	V	1399	22000	News + Series
10.935	V	1471	22000	News + Series
10.935	V	1472	22000	Home Cinema
10.935	V	1473	22000	Quality Entertain.
10.935	V	1475	22000	News + Series
10.935	V	1476	22000	News + Series
10.935	V	1477	22000	News + Series
10.935	V	1478	22000	News + Series
10.935	V	(Empty)	22000	News + Series
11.390	H	Animal Plnt+1	27500	News + Series
11.390	H	Disc.Know.+1	27500	Quality Entertain.
11.390	H	Disc.RT+1	27500	News + Series
11.390	H	Disc.Sci+1	27500	Quality Entertain.
11.390	H	Discovery Shed	27500	News + Series
11.390	H	DMAx	27500	News + Series
11.390	H	DMAx+1	27500	News + Series
11.390	H	DMAx+1.5	27500	News + Series
11.390	H	DMAx+2	27500	Quality Entertain.
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	Discovery HD	29500	High Qual. Cinema
12.324	V	SCI FI HD	29500	High Qual. Cinema
12.324	V	Sky Arts 1 HD	29500	High Qual. Cinema
12.607	V	Rush HD	27500	High Qual. Cinema
12.607	V	Gay TV	27500	News + Series
12.607	V	redhot 40+	27500	News + Series
12.607	V	redhot amateur	27500	News + Series
12.607	V	redhot fetish	27500	News + Series
12.607	V	redhot TV	27500	News + Series
12.607	V	Television X	27500	News + Series
12.607	V	TVX Amateur	27500	News + Series
12.607	V	TVX Brits	27500	News + Series
12.607	V	Vee Cinema	27500	News + Series
12.607	V	Zee Punjabi	27500	News + Series
12.607	V	Zee TV	27500	Quality Entertain.
12.607	H	55248	27500	Advertisement
12.607	H	Cream	27500	Low Level
12.607	H	Dirty Talk	27500	Low Level
12.607	H	Filth	27500	Low Level
12.607	H	LA Muscle TV	27500	Low Level
12.607	H	Skintity	27500	Low Level
12.607	V	Zee Music	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	News + Series
12.643	V	The Style Ntwk	27500	Quality Entertain.
12.643	V	1896	27500	News + Series
12.643	V	54350	27500	News + Series
12.643	H	Body In Balance	27500	Advertisement
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	H	Music India	27500	News + Series
12.643	H	Noor TV	27500	News + Series
12.643	V	OceanFinance	27500	News + Series
12.643	V	Teachers 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	Low Level
12.690	V	Entrepreneur	27500	News + Series
12.690	V	Film24	27500	News + Series
12.690	V	Gems tv 3	27500	News + Series
12.690	V	MATV National	27500	Low Level
12.690	V	Pitch TV	27500	News + Series
12.690	V	Pitch World	27500	News + Series
12.690	V	Press TV	27500	News + Series
12.690	V	Sunrise TV	27500	News + Series
12.690	V	SupremeMastr	27500	News + Series
12.690	V	Travel Ch +1	27500	News + Series
12.690	V	Wonderful	27500	News + Series

EUROBIRD | 28.50° East

Ku-Band Fixed beam
43 50 54

<http://www.SatcoDX2.com/0285>
Coverage Code EUB001KF

11.222	H	SportxxxGirls	27500	Low Level
11.222	H	SportxxxWives	27500	Low Level
11.222	H	CelebrityShop	27500	Low Level
11.222	H	Chat Box	27500	Low Level
11.222	H	Clubland TV	27500	News + Series
11.222	H	Controversial tv	27500	Low Level

Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
11.222	H	Fashion TV	27500	News + Series
11.222	H	Get Lucky TV	27500	News + Series
11.222	H	Just4us	27500	News + Series
11.222	H	Northern Birds	27500	News + Series
11.222	H	ROCKWORLDTV	27500	News + Series
11.222	H	The Other Side	27500	News + Series
11.222	H	UCB TV	27500	Quality Entertain.
11.222	H	UMMAH CHNL	27500	Low Level
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 Game	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	oMusic TV	27500	News + Series
11.224	V	PTV Global	27500	News + Series
11.260	V	AAJ TAK	27500	News + Series
11.260	V	52128	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	Low Level
11.260	V	Open Access 3	27500	Advertisement
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	Low Level
11.261	H	STAR Gold	27500	Low Level
11.261	H	STAR Plus	27500	Low Level
11.261	H	DM Digital	27500	Low Level
11.261	H	Gay Network	27500	Low Level
11.261	H	Max TV	27500	News + Series
11.261	H	SportxxxBabes	27500	Low Level
11.261	H	Thane Direct	27500	News + Series
11.261	H	Zone Horror	27500	News + Series
11.261	H	Zone Reality +1	27500	News + Series
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	Low Level
11.307	V	NigeriaMovies	27500	News + Series
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	9X	27500	Quality Entertain.
11.307	V	Aastha TV	27500	Low Level
11.307	V	BET	27500	Quality Entertain.
11.307	V	High Street TV	27500	News + Series
11.307	V	Ideal World 3	27500	News + Series
11.307	V	Jewellery Ch.	27500	Low Level
11.307	H	JML	27500	Quality Entertain.
11.307	H	NTAI	27500	News + Series
11.307	H	propeller	27500	News + Series
11.343	V	ComedyCHIX+1	27500	News + Series
11.343	V	N'toons Replay	27500	News + Series
11.343	V	?TV	27500	Quality Entertain.
11.343	V	AhluBayt TV	27500	News + Series
11.343	V	AT	27500	Quality Entertain.
11.343	V	Babestation	27500	News + Series
11.343	V	Babeworld.tv	27500	News + Series
11.343	V	Cupid TV	27500	News + Series
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	News + Series
11.343	V	SA Direct	27500	News + Series
11.343	V	Starz TV	27500	News + Series
11.343	V	WatchmeTV.TV	27500	Quality Entertain.
11.343	V	ZoneRomantica	27500	Low Level
11.345	H	Nick Jr. 2	27500	Quality Entertain.
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	Quality Entertain.
11.345	H	LA Babes	27500	News + Series
11.345	H	LivexxBabes	27500	Low Level
11.345	H	Sumo TV	27500	News + Series
11.345	H	wedding TV	27500	Quality Entertain.
11.389	H	Animal Plnt+1	27500	News + Series
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	News + Series
11.389	H	Discovery Shed	27500	News + Series
11.389	H	DMAx	27500	Quality Entertain.
11.389	H	DMAx+1	27500	News + Series
11.389	H	DMAx+1.5	27500	Quality Entertain.
11.389	H	DMAx+2	27500	News + Series
11.389	H	Investigation	27500	News + Series
11.390	V	Adult Channel	27500	Quality Entertain.
11.390	V	Climax3 - 1	27500	Low Level
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	psdt	27500	News + Series
11.390	V	Spice Extreme	27500	News + Series
11.390	V	Top Shelf TV	27500	Quality Entertain.
11.390	V	ARY News	27500	News + Series
11.390	V	Dating Channel	27500	Low Level
11.426	V	AAG	27500	News + Series
11.426	V	ARY QTV	27500	News + Series
11.426	V	Diva TV	27500	News + Series
11.426	V	GEO UK	27500	News + Series
11.426	V	9XM	27500	News + Series

Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
11.426	V	Bloomberg	27500	Quality Entertain.
11.426	V	Glory TV	27500	News + Series
11.426	V	Jackpot Games	27500	News + Series
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	News + Series
11.426	V	speedauctonTV	27500	News + Series
11.426	V	Venus TV	27500	News + Series

EUROBIRD | 28.50° East

Ku-Band Steerable 1
38 49 54

<http://www.SatcoDX2.com/0285>
Coverage Code EUB001S1

11.469	H	History +1 hour	27500	News + Series
11.469	H	TVEI	27500	Low Level
11.469	H	(Empty)	27500	Low Level
● 11.488	V	Setanta Sports1	27500	Quality Entertain.
11.488	V	ATN	27500	News + Series
11.488	V	Bedroom TV	27500	News + Series
11.488	V	Channel S'	27500	News + Series
11.488	V	Channel S NTV	27500	News + Series
11.488	V	Info TV2	27500	News + Series
● 11.488	V	Peace TV	27500	News + Series
● 11.488	V	Peace TV Urdu	27500	News + Series
11.508	H	5ADT	27500	Low Level
11.508	H	8N2	27500	Low Level
● 11.508	H	9320	27500	Low Level
11.508	H	9328	27500	Low Level
11.508	H	EIA2 Test	27500	Low Level
11.508	H	EIA2 Test 5	27500	Low Level
11.508	H	ISM Sky1 v6	27500	Low Level
11.508	H	ISM Sports 1 v6	27500	Low Level
11.508	H	ISM Test1 v5	27500	Low Level
11.508	H	Pub Channel	27500	Quality Entertain.
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	News + Series
11.527	V	GayDateTV	27500	News + Series
11.527	V	HBW TV	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	Cinémo! 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	Life	27500	News + Series
11.546	H	Monte Carlo TV	27500	News + Series
11.546	H	Over 18 TV	27500	News + Series
11.546	H	Punjab TV	27500	News + Series
11.546	H	Shop on TV	27500	News + Series
11.565	V	Sky Games	27500	Low Level
● 11.565	V	Sky Games OTV TEST	27500	Low Level
11.585	H	ESPN America	27500	Home Cinema
11.585	H	Setanta Ireland	27500	Home Cinema
11.585	H	Arsenal TV	27500	Low Level
11.585	H	LiverpoolFCTV	27500	Quality Entertain.
11.585	H	Racing UK	27500	Quality Entertain.
● 11.585	H	Racing World	27500	Low Level
● 11.585	H	Set Comm	27500	Low Level
11.585	H	Setanta Sports	27500	Low Level
11.604	V	Bio	27500	Home Cinema
11.604	V	History	27500	News + Series
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	Divia 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	Bliss	27500	Low Level
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	News + Series
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	ESPN Classic	27500	Quality Entertain.
11.662	H	SouthForYou	27500	News + Series



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C-Band: ARABSAT 2B

30.6 East

ARA02BMB



<http://www.SatcoDX2.com/0305>
Coverage Code ARA02BMB

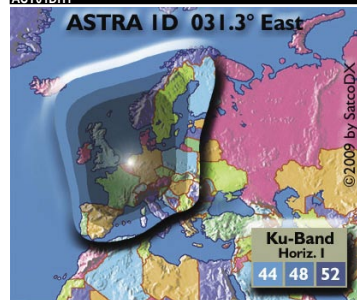
3.718 R Service 2 2593

Europe

ASTRA 1D

31.5 East

AST01DHI



<http://www.SatcoDX2.com/0315>
Coverage Code AST01DHI

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



<http://www.SatcoDX2.com/0330>
Coverage Code 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 BTU	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 BIZ	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

EUTOW4EU



<http://www.SatcoDX2.com/0360>
Coverage Code EUTOW4EU

11.727 L Engineer_1	27500 Low Level
11.727 L Football test	27500 Quality Entertain.
11.727 L Sport 1	27500 Quality Entertain.
11.727 L Sport 2	27500 Quality Entertain.
11.727 L TBI	27500 News + Series
11.727 L BIZ TV	27500 Quality Entertain.
11.727 L CHANSON	27500 Quality Entertain.
11.727 L Che-Pe_INFO	27500 Low Level
11.727 L First Automotive	27500 News + Series
11.727 L O2TV	27500 Quality Entertain.
11.727 L TEST	27500 Low Level
11.727 L TV3	27500 News + Series
12.072 L Discovery HD	27500 High Qual. Cinema
12.072 L Eurosport HD	27500 High Quality Home
12.072 L HD-Life	27500 High Quality Home
12.072 L HD-Кино	27500 High Qual. Cinema
12.072 L HD-Спорт	27500 High Quality Home
12.175 L TNV	4340 Quality Entertain.
12.190 L 365 дней	20000
12.190 L Teen TV	20000
12.190 L Автоплюс	20000
12.190 L Веселое ТВ	20000
12.190 L Дом Кино	20000
12.190 L Комедия ТВ	20000
12.190 L Мать и дитя	20000
12.190 L Много ТВ	20000
12.190 L Ночной Клуб	20000
12.190 L Русская Ночь	20000
12.190 L Теленяня	20000
12.190 L Телепутешествия	20000
12.226 L Бибигон	27500
12.226 L Вести	27500
12.226 L ДТВ	27500
12.226 L Культура	27500
12.226 L МузТВ	27500

12.226 L НТВ	27500
12.226 L Первый	27500
12.226 L Петербург 5 канал	27500
12.226 L Рен ТВ	27500
12.226 L Россия	27500
12.226 L Спорт	27500
12.226 L ТВС	27500
12.226 L ТНТ	27500
12.226 L ТриколорТВ	27500 Quality Entertain.
12.245 R BBC World News	27500
12.245 R Bloomberg	27500
12.245 R Eurosport 2	27500
12.245 R Nickelodeon	27500
12.245 R Russia Today	27500
12.245 R TV5	27500
12.245 R World Fashion	27500
12.245 R Детский мир/Телеклуб	27500
12.245 R Кинохит	27500
12.245 R НТВ Мир	27500
12.245 R Наше новое кино	27500
12.283 R 5 канал (Украина)	27500
12.283 R CCTV4	27500
12.283 R CCTV9	27500
12.283 R ICTV	27500
12.283 R Время: далекое и бли	27500
12.283 R Мегаспорт	27500
12.283 R НТН	27500
12.283 R Парк развлечений	27500
12.283 R Первый канал. Всемир	27500
12.283 R РТР-Планета	27500
12.283 R Совершенно секретно	27500
12.303 L Боец ТВ	27500
12.303 L Домашний	27500
12.303 L Зоо ТВ	27500
12.303 L Индия ТВ	27500
12.303 L Кинопоказ	27500
12.303 L CTC	27500
12.303 L Тонус ТВ	27500
12.303 L ТТV	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 Спорт	27500
12.322 R Blue Hustler	27500
12.322 R REN-TV	27500
12.322 R Кинохит	27500 Home Cinema
12.322 R Кто есть кто	27500
12.322 R Наше кино	27500
12.322 R Первый	27500
12.322 R Премьера	27500 Home Cinema
12.322 R Футбол	27500
12.322 R Инфоканал	27500 News + Series
12.341 L AXN Sci Fi	27500
12.341 L Gameland.TV	27500
12.341 L RU.TV	27500
12.341 L Sci Fi	27500
12.341 L Universal	27500
12.341 L Домашний	27500
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

Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type	SatcoDX Definition
12.360	R	AC Milan Channel	27500	High Quality Home	
12.360	R	Animal Planet	27500	High Quality Home	
12.360	R	CNN	27500	High Quality Home	
12.360	R	Detskiy Mir/Teletub	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	NatGeo Wild test	27500	High Quality Home	
12.360	R	NEWS 24	27500	High Quality Home	
12.360	R	Planeta - SPORT	27500	High Quality Home	
12.360	R	Sci-Fi	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	TEST21	27500	High Quality Home	
12.360	R	TET	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	
12.360	R	Smash TV	27500	High Quality Home	
12.380	L	365 дней ТВ	27500		
12.380	L	Авто Плюс	27500		
12.380	L	Боец ТВ	27500		
12.380	L	Закон-ТВ	27500		
12.380	L	Индия ТВ	27500		
12.380	L	Интересное ТВ	27500		
12.380	L	Комедия ТВ	27500		
12.380	L	Кухня ТВ	27500		
12.380	L	Ля-минор ТВ	27500		
12.380	L	МНОГОСерийное ТВ	27500		
12.380	L	Русская ночь	27500		
12.380	L	ТВ Бульвар	27500		
12.399	R	24DOX	27500		
12.399	R	Fashion TV Network	27500		
12.399	R	MTV Russia	27500		
12.399	R	Вести	27500		
12.399	R	Звезда	27500		
12.399	R	Киносоюз	27500		
12.399	R	Культура	27500		
12.399	R	HTB	27500		
12.399	R	Россия	27500		
12.399	R	СТС-Москва	27500		
12.399	R	Спас	27500		
12.399	R	Спорт on-line	27500		
12.399	R	ТНТ	27500		
12.418	L	3 канал	27500		
12.418	L	Rusiya Al-Yaum	27500		
12.418	L	TV SALE	27500		
12.418	L	VH-1 Russia	27500		
12.418	L	Бибион	27500		
12.418	L	Дом Кино	27500		
12.418	L	МИР	27500		
12.418	L	Музыка Первого	27500		
12.418	L	Первый МЕТЕО	27500		
12.418	L	Петербург - 5 канал	27500		
12.418	L	РБК-ТВ	27500		
12.418	L	ТВЦ	27500		
12.418	L	Теленяня	27500		
12.437	R	NBA TV	27500		
12.437	R	Мюз ТВ	27500		
12.437	R	НСТ	27500		
12.437	R	Наш футбол	27500		
12.437	R	Ностальгия	27500		
12.437	R	РТР-Спорт	27500		
12.437	R	Русское Экстремально	27500		
12.437	R	Спорт Классика	27500		
12.437	R	Спорт Союз	27500		
12.437	R	Теннис	27500		
12.456	L	Animal Planet	27500		
12.456	L	Discovery	27500		
12.456	L	Discovery Travel&Liv	27500		
12.456	L	Eurosport	27500		
12.456	L	Hallmark	27500		
12.456	L	Jetix	27500		
12.456	L	Mezzo (Muzzik)	27500		
12.456	L	Music Box	27500		
12.456	L	National Geographic	27500		
12.456	L	Zone Romantica	27500		
12.456	L	ТДК	27500		
12.456	L	Jetix Play	27500		
12.476	R	Cartoon Network/TCM	27500		
12.476	R	CNN International	27500		
12.476	R	Discovery Science	27500		
12.476	R	Discovery World	27500		
12.476	R	Euronews	27500		
12.476	R	Extreme Sports	27500		
12.476	R	Jim Jam	27500		
12.476	R	MCM	27500		
12.476	R	MGM int.	27500		
12.476	R	MTV Dance	27500		
12.476	R	Nat Geo Wild	27500		
12.476	R	VH1 Classic	27500		
12.476	R	Zone Reality	27500		

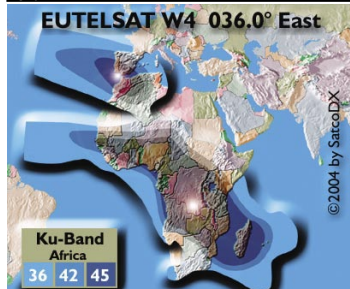
Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type	SatcoDX Definition
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Africa

EUTELSAT SESAT, EUTELSAT W4

36.1 East

EUTOW4AF



http://www.SatcoDX2.com/0360

Coverage Code EUTOW4AF

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	Fut10	30000	News + Series	
11.142	H	Insp	30000	News + Series	
11.142	H	KBC TV	30000	News + Series	
11.142	H	KTN	30000	News + Series	
11.142	H	NGWld	30000	News + Series	
11.142	H	NTA_B	30000	News + Series	
11.142	H	NTV	30000	News + Series	
11.142	H	TBC1	30000	News + Series	
11.142	H	ZDF	30000	Low Level	
11.476	H	13RUE	29000	News + Series	
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	News + Series	
11.476	H	RTBF	29000	News + Series	
11.476	H	RTL9	29000	Low Level	
11.476	H	Sprt+	29000	News + Series	
11.476	H	Tiji	29000	News + Series	
11.476	H	TRACE	29000	Quality Entertain.	
11.507	V	BBC C	30000	Low Level	
11.507	V	BBC K	30000	Quality Entertain.	
11.507	V	CNBCA	30000	News + Series	
11.507	V	ESPNC	30000	News + Series	
11.507	V	FOX	30000	Low Level	
11.507	V	FOX C	30000	Low Level	
11.507	V	FOX L	30000	Quality Entertain.	
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	News + Series	
11.507	V	PFC	30000	Quality Entertain.	
11.507	V	S MAX	30000	Quality Entertain.	
11.507	V	S MAX2	30000	News + Series	
11.559	H	AXN	29000	News + Series	
11.559	H	DsnyP	29000	Low Level	
11.559	H	Globo	29000	Quality Entertain.	
11.559	H	MTV P	29000	Quality Entertain.	
11.559	H	NGeoP	29000	Low Level	
11.559	H	RTNC	29000	News + Series	
11.559	H	RTPa	29000	News + Series	
11.559	H	SIC I	29000	Quality Entertain.	
11.559	H	SIC N	29000	Quality Entertain.	
11.559	H	TVC1	29000	Low Level	
11.559	H	TVC2	29000	Low Level	
11.559	H	TVMoz	29000	News + Series	
11.559	H	TVRec	29000	News + Series	
11.559	H	TVUga	29000	News + Series	
12.284	H	AMag+	26480	News + Series	
12.284	H	BBA	26480	News + Series	
12.284	H	BLITZ	26480	News + Series	
12.284	H	Mwld	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	News + Series	
12.322	H	AnimP	26480	Quality Entertain.	
12.322	H	Boom	26480	News + Series	
12.322	H	FTV	26480	News + Series	
12.322	H	HIST	26480	News + Series	
12.322	H	Rhema	26480	News + Series	
12.322	H	SS6	26480	Low Level	
12.322	H	ZeeTV	26480	News + Series	
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	News + Series	
12.360	H	FR24	26480	News + Series	
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	26480	News + Series	
12.399	H	SET A	26480	News + Series	
12.399	H	TF6	26480	News + Series	
12.399	H	TSN	26480	News + Series	
12.440	H	Actio	23437	Quality Entertain.	
12.440	H	BBC E	23437	News + Series	
12.440	H	BBC W	23437	News + Series	

Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type	SatcoDX Definition
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	News + Series	
12.440	H	TCM	23437	News + Series	
12.476	H	AMag	26040	News + Series	
12.476	H	BBC L	26040	Low Level	
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	News + Series	
12.476	H	MNetW	26040	Low Level	
12.476	H	Serie	26040	Quality Entertain.	
12.476	H	SS1	26040	News + Series	
12.476	H	SS3	26040	Quality Entertain.	
12.476	H	SSmax	26040	News + Series	
12.476	H	TBN	26040	Low Level	

Europe

EUTELSAT SESAT, EUTELSAT W4

36.2 East

EUTSE1EU

EUTELSAT SESAT I 036.0° East



http://www.SatcoDX2.com/0360

Coverage Code EUTSE1EU

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	Teledemia 1	10370		
12.516	V	Teledemia 5	10370		
12.516	V	Teledemia 8	10370		
12.516	V	Teledemia 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



http://www.SatcoDX2.com/0380

Coverage Code PAK001CB



Edited by
Alexander Wiese

20 Years Ago

Travel into the Past
TELE-satellite Magazine
Issue 05/1989



DFS-1 Kopernikus: Der deutsche Star

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Normen-Umsetzer für Antennen-Empfangsanlagen
Typ 2X-1
Normen-Umsetzer für Antennen-Empfangsanlagen

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Satelliten-Markt

Polarmount

SKYSAT hat einen neuen Polarmount im Angebot. Der Mount ist für 1.0 und 1.2 Meter Offset Antennen geeignet. Mit kleinen Adaptern ist der Mount auch für die 0.75 Meter Antenne von ECHOSTAR verwendbar. Der Mount ist feuerverzinkt.



Neuer Polarmount von SKYSAT

Universell verwendbar ist ein aus schwarzlackiertem Druckguß bestehender Polarmount, den SATPARTNER HAMPF anbietet. Die Schrauben und Muttern sind verzinkt und die Laufbüchsen sind aus Messing. Ideal geeignet ist der Polarmount für Masten von 75 bis 80 mm Durchmesser.

mount für Masten von 75 bis 80 mm Durchmesser.



Universeller Polarmount von SATPARTNER

Spiegel

Ein neues Spiegelsystem bringt KREISELMAYER in Zusammenarbeit mit einer führenden skandinavischen Firma auf den Markt. Die neuen Offsetspiegel mit 55 und 90 cm Durchmesser arbeiten mit einem Subreflektor. Die bis jetzt bekannten Offsetspiegel liefern in der Regel einen asymmetrischen Brennpunkt, der im Zusammenhang mit den verwendeten Feeds nicht immer zur optimalen Ausleuchtung der Spiegel führt. Bei dem neuen Offsetspiegel, den KREISELMAYER unter der Bezeichnung „Superfocus“ vertreibt, erfolgt die Bündelung der Wellen über einen ebenfalls im Offset ausgeführten Subreflektor zu einem symmetrischen Brennpunkt. Da die gesamte Spiegelfläche ausgeleuchtet wird, ergibt sich ein extrem hoher Wirkungsgrad, der nach Firmenangaben 82% beträgt. Der Spiegel ist aus Druckguß Aluminium hergestellt und wird mit Wand- und Mastbefestigung geliefert. Ein Test des Spiegels ist für die nächste TELE-satellit in Vorbereitung.

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Satelliten-Technik

Bereich mit 4 dB bedämpft zur Verteilung weiterreichen, was angesichts der 90cm-Antenne zu einer starken Beeinträchtigung der 11 GHz-Kopernikus-Programme führt. Die verwickelte Weiche lässt nicht nur in der Zusammenschaltung mit den übrigen Aluminiumteilen ein elektrostatisches Element in feuchter Umgebung entstehen, sondern die fehlende Einkerbung für den Dichtring lässt die Kopftechnik bei nächster Wettergelegenheit gehörig absaufen.

Im Durchschnitt besitzen die Weichen überraschend gute Qualität, wenn gleich auch ihre äußere Aufmachung eher an Sanitärtechnik denn an Satellitenempfang erinnert. Die Güte der Weiche war daher auch bei den C/N-Werten der Anlage ein tragendes Element, wobei der Schwerpunkt bei den 11 GHz-Programmen zu suchen ist, denn die 12,5 GHz-Programme fallen ca. 4 dB stärker an der Antenne ein.

So war auch eine starke Tendenz bei den Konstrukteuren zu erkennen, die Verluste in Weiche und Polarizer möglichst ins 12,5 GHz-Band zu legen, denn dort richten sie wenig Schaden an. Vor diesem Hintergrund ist es deshalb unwesentlich, ob ein mechanischer oder magnetischer Polarizer verwendet wird, solange die Durchgangsdämpfung im 12,5 GHz-Bereich unter 2 dB bleibt. Bewiesen wurde das auch durch die C/N-Werte bei den Anlagen mit mechanischen oder magnetischen Polarizern.

Nachdem die Signale nun über die Weiche von den Konvertern getrennt in die Block-ZF 0,95-1,75 GHz umgewandelt wurden, müssen sie wieder irgendwie zusammen dem Receiver zugeführt werden.

Die meisten Anbieter fahren mit den beiden Konverterleitungen an ein Koaxial-Umschaltrelais, das vom Receiver gemäß den Programmplätzen gesteuert wird oder mit Tastendruck auf Fernbedienung oder Frontplatte manuell betätigt wird und dem gewünschten Konverter die Fernspeisung zuteilt.

Die Firmen Fischer, Sat-Partner und Multicom bieten eine zusätzliche Variante mit Splitter, der den Betrieb auch ohne Umschaltrelais ermöglicht, von dem allerdings nur im Notfall Gebrauch gemacht werden sollte. Der Splitter mit zwei Fernspeisungsdurchgängen führt parallel beide Konverter zusammen und bedämpft den

Block-ZF-Bereich um ca. 5 dB. Dazu addiert sich das Rauschen des jeweiligen anderen Converters, was einen Pegelverlust am Receiver um ca. 12 dB und einen Einbruch bei den echten C/N-Werten von ca. 4 dB verursacht. Für diese praktische Art der Zusammenschaltung mit Block-ZF Splitter ist der 90 cm-Parabolreflektor grundsätzlich zu klein, weshalb auf das angebotene Koaxialrelais vertrauensvoll zurückgegriffen werden sollte, dessen durchschnittliche Bedämpfung der Block-ZF von 0,5-2 dB keine Rolle spielt.

Bei gleichzeitiger Speisung von 11- und 12,5 GHz-Konvertern

von anderen Anbietern verwendete Koaxialrelais bereits im Receiver eingebaut haben. Eine auf den Programmplatz programmierbare Zuteilung auf den X- oder Y-Eingang schaltet den gewünschten Konverter an den Tuner. Einziger Nachteil könnte die dadurch notwendige doppelte Verkabelung sein, wenn auf Steigleitungen im Haus zurückgegriffen werden muß.



kann es wegen der im 11 GHz-Bereich liegenden Oszillatorfrequenz der 12,5-er-Konverter bei 11,475 GHz zu Störungen von SAT.1 oder TV5 kommen, wenn die Kopernikus-Anlage für EUTELSAT I-F4 zweckentfremdet wird (Bei einigen Spitzenanlagen war auch der Empfang von EUTELSAT mit wenigen oder keinen Einschränkungen, wie Spikes im Testbild, möglich).

Besser haben es da schon KATHREIN und OrbisAT Kreismeyer, die beide auf baugleiche Satelliten-Receiver mit zwei Eingängen zurückgreifen, die das

Alsat und Orbit-Sat verwirklichen die Zweibandempfangstechnik mit Zweibandkonvertern, die keinerlei Weiche oder Koaxialrelais benötigen, da sich die Bauteile bereits im Konverter befinden. Die Montage der Dreiband - alternativ Zweibandkonverter - von Alsat und Zweibandkonverter von Orbit-Sat

Satelliten-Technik

ist aufgrund der angenehmen schnellen und bequemen Platzierung hinter beliebigen Polarizern erleichtert. Der Nachteil bei diesen Konstruktionen besteht in der Notwendigkeit, dem LNC eine programmierbare 13/16 Volt Fernspeise-Umschaltung aus dem Receiver anbieten zu müssen, was momentan nur bei recht wenigen auf dem Markt angebotenen Receivern möglich

Bereich ausgedehnte 12,5 GHz-Band. Wegen ihrer bequemen Handhabung und ihrer Zuverlässigkeit werden diese Zweiband- und Dreibandkonverter künftig öfter anzutreffen sein. (siehe Testbericht "Drei gegen einen" auf S. 74 in diesem Heft).

Der Schutz der Kopftechnik vor eindringender Feuchtigkeit ist bei fast allen Anbietern mangelhaft. Kein vom Monteur nur notdürftig mit Klebeband abgedichteter F-Anschlußstecker der Konverter kann über längere Zeit dem Wetter standhalten.

Mehr Dichtmaterial ist aber auch beim



Fachbetrieb meist nicht vorhanden.

ist die Dichtheit bei Polarizer oder Weiche zu groß oder zu klein, dringt Feuchtigkeit in die Hohlleiterverbindung und/oder Konverter/Weiche/Polarizer ein und zerstört langsam den guten Empfang. Dies betrifft auch die Koaxialrelais, die meist in der Nähe des Reflektors schutzlos mit ihren Buchsen der Witterung ausgesetzt sind. Stellt der Käufer den Wert der Kopftechnik zusammen, wird er sich nicht wenig wundern, warum die Kopftechnik nicht wenigstens durch einen Deckel vor Spritzwasser geschützt, wenn nicht

ist. Während der Triple-LNC dank einer Modifikation der Alsat-Receiver alle interessanten Bänder 11-, 12-(DBS) und 12,5 GHz lückenlos abdeckt, beschränkt sich der LNC SC 1112 SH bei beiden Anbietern auf das gewohnte 11 GHz und das bis in den oberen DBS-

gleich komplett abgedichtet ist.

Eine vorbildliche Vollkapselung der Kopftechnik schützt nur die KATHREIN CAS 09 vor Schäden und stellt den Fernsehgenuß störungsfrei auf Jahre hinaus sicher.

Montage des Reflektors

Schon bei der Verankerung der Kompletanlage ist oft der Ärger bei der Montage vorprogrammiert. Vier der verpackten Testanlagen erreichten das Testgelände mit aufreißender Verpackung, leicht beschädigten Reflektoren und fehlendem Bauteilmaterial.

Während sich der Fachmonteur bei fehlenden Schrauben und Unterlegscheiben noch aus der Werkzeugkiste beheilen kann, steht der Privatmann mit der Mithrasanlage schon ärgerlicher da.

Aber auch der Fachmonteur wird passen müssen, sollte ein Gewinde in der Feedhalterung fehlen, Feedstangen mit falschem Gehringswinkel gesägt sein, Feedhalterung und Koaxialrelais generell verlustig sein oder der Montagewinkel für eine Wandhalterung einfach fehlen. Es soll auch nicht Aufgabe des Testers sein, die fehlenden Teile nachzubestellen, sondern für eine möglichst realistische Testdarstellung zu sorgen, selbst wenn der Anbieter den Einzelfall beteuert.

Bei allen Zweibandempfangsanlagen mit Weichen empfiehlt sich die Vormontage auf dem Boden und keinesfalls auf dem Schrägdach. Im Extremfall waren bis zu 36 Schraubverbindungen zu tätigen, bis die Antenne zum Himmel zeigte.

Während die Anlagen mit Polarmount generell über eine stabile Konstruktion verfügen, sind speziell Offset-Antennen mit der schweren Kopftechnik überaus kostfalsch und stellen an die Fixierung der Elevation große Ansprüche. Überlegen zeigten sich in dieser Disziplin Konstruktionen mit Gewindestangen, die über eine günstigere Hebelwirkung die Antenne an den starken Mast binden. Etwas kritisch verhalten sich auch 90 cm-Antennen, die nur über eine einzige Mastschelle am Mast festgeklemmt sind, sich beim Drehmoment durchbiegen und sich zu wenig im Mast einkrallen können.

Aber auch die 60 cm-Offset-Antennen wurden nicht für die schwere Zweibandtechnik konstruiert und lassen

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Der EchoStar SR-5500 erfüllt nicht nur alle Wünsche der Gegenwart, sondern ist bereits jetzt auf die Anforderungen der Zukunft eingestellt.

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Edited by
Alexander Wiese

ECHOSTAR D-2500IP

For many years, the Echostar LT8700 has been the reference receiver for many satellite enthusiasts and DXers. And although digital reception has gained much more territory today, the good old LT8700 is still in place because of its capability to control magnetic polarisers and servo polarisers. So many digital receivers are connected with an LT8700 as well. At the Mediacast 99 in London, the new Echostar D-2500IP was introduced. Somewhere in June we received our first sample, which was connected to a 240cm dish with S/C/Ku-band reception and has been running here ever since. Let's put one thing straight up front, this receiver can be connected to a fixed dish but will perform better on motorised dishes. And after all, it was designed for multi-satellite reception situations where the use of magnetic and servo polarisers is very common, as is the use of Hall or Reed sensors. At the same time, Echostar developers also had the multi-feed dishes in mind and of course smaller installations using DiSEqC or Variosat. On the front, we found a four-digit display indicating the channel ID. Echostar designed this receiver with a large channel memory: no less than 2000 for TV and 900 for digital radio. When in standby mode, the display shows the time. Only one button is visible: the standby button. But to have complete control of the receiver without using the remote control, a complete set of buttons is hidden behind a lid. Here, we also found the two Common Interface slots. It can handle two different types of decryption modules, like for instance Conax and Irdeto. The smart cards



10 Years Ago

Travel into the Past TELE-satellite Magazine Issue 09-10/1999

are put into the modules themselves, which is the basic principle of Common Interfacing. The rich features of the D-2500IP require the needed connection possibilities. These are of course found at the back of the receiver. Besides three Scart connectors, the D-2500IP also features a separate composite video out (phono jack) and a stereo line-out (also in phono). Another phono jack supplies the 12V control signal for external switches. The serial RS-232 interface (9 pins) support baud rates up to 38.400 baud. The built-in modulator integrates the receiver's signal with an existing terrestrial signal. It can be set to any channel in the VHF/UHF range and will comply with all known PAL/SECAM standards. The switching power supply accepts every current between 90 and 240VAC (50/60Hz). Unfortunately, there is no digital audio output present on this receiver. Also located at the back of the receiver are the clamp connectors for the actuator and the polariser (magnetic/servo). The receiver supplies the actuator with a proper 36-Volt with a max of 5A. We tested a 3.1m mesh dish with a 24-inch actuator without any problem whatsoever. For users of a double motor solution (for recep-



tion of inclined orbit satellites) the according control unit can be connected to the D-2500IP. Only for those situations where the auto-track function is required, the AGC signal should be available as an output on the receiver. The folks at Echostar in Almelo should give this a second thought, because an external AGC signal could also be used to perfectly align the dish using a voltmeter. The remote control of the D-2500IP is more or less the same as that of its predecessors. Clearly marked buttons make it easy to operate the receiver. A lot of functions are available using the circularly positioned buttons. The installation procedure reminded us of the 8700, for the most extensive use that is. Just set the outer limits (east and west). After that, store the most eastern and western satellite positions. An on-screen signal measuring tool will be a great help to do this. Finally, you have to locate the satellite in the middle of the range you have set. This is in fact good enough for the Auto-sat function of the D-2500IP. It will find all other satellites and present you with a simple question and answer game. Even newcomers can perform this installation. The clearly written manual and the ease of use of the Auto-Sat function will help with this. When using a dual motorised dish you will have to do this all





manually. Of course, the parameters of the LNB should be set before performing this Auto-Sat function or doing the satellite programming manually. The on-screen display supports four languages: English, German, French and Spanish. The D-2500IP can store up to 50 satellites with 999 transponders. A favourites list will store the really important programmes for you. This is a cross-satellite list. It is also possible to connect one fixed dish of which you can recall the programmes with just one press on a button. In that case, the position of the motorised dish stays where it is. The fastest way to programme the receivers is performing an Auto-search. All data in the receiver will be overwritten, however. The Transponder-search or Network-search will keep what's in the receiver. Of course, the D-2500IP features an Electronic programme Guide (EPG). A graphical user interface presents you with extensive programme information on what's on right now and what is on next. Unfortunately, not all channels offer this service to the viewers. Sometimes, they are just too lazy to do this, sometimes they don't even know about this technology and some other times they are tied to their own TV-guide and don't want to lose subscribers. To have the receiver indicating the proper time, you have to tell it what time zone it is in. This is done very easily: just by selecting the biggest city in your area. The Echostar will store all channels it finds, including encrypted channels. Of course, these will only be visible when using a proper common-interface with smartcard. Using the edit-mode you can easily delete the channels you don't want. This edit-mode also enables you to swap channels or reorganise them all. A simple option like 'FTA-only' would make it easier to lock out all these encrypted channels to which you are not even able to legally subscribe. This receiver not only indicates the signal strength but the quality as well. And the latter is in fact even more important, since it has much more to say about whether you can receive a digital channel or not. Both measuring tools enable you to perfectly align the dish (azimuth, elevation and skew). It is also possible to use the D-2500IP in a SMATV network (Satellite Master Antenna TV). A separate menu enables you to perform the proper settings for this. Another important menu for the real aficionado is the advanced installation menu. Here you can enter for example the PID codes. Every satellite can be given a name and the same goes for all programmes. The D-2500IP reacts very quickly to every command of the remote control. There were no delays in any operation.

THOMSON Cassegrain: 40HT33

This year's season has actually passed already and some of you may have already bought already the wrong dish for mobile use. But truckers and

people living in areas where dishes are not allowed are in need for suitable satellite antennas all year round. Thomson's Cassegrain dish has two ways of mounting: fixed or with the use of a strong suction pad. One of the major problems with mobile dishes has always been the size as 40cm is really the absolute bottom size for most satellites. A gain of 33.5dB is just not enough to get a stable analogue picture or to guarantee constant digital reception even from medium-power satellites such as Astra or Eutelsat. Thomson uses Cassegrain technology for this 40HT33. It may sound over-sophisticated and mysterious, but it isn't. With normal dishes

The Thomson 40HT33 comes in one piece as well. With only 43cm in size it is no problem to do this. For fixed installation the materials needed are included. For temporary or mobile use the suction pad will do fine, although you might not want to race the 24 hours of Le Mans with this thing on the roof. The Thomson Cassegrain dish comes with the universal LNB fixed at the back of the main dish. This protects it from any inclement weather. There's a mechanical problem with elevations below 10 degrees as the LNB's F-connector will be in the way of the the mount construction, but as a matter of fact this is no real shortcom-



all signals are focused by the dish only once. The Cassegrain system actually uses two dishes in one construction to focus the signals not once but twice. First, the signals are bundled by the larger dish. These are reflected to a second smaller dish at which focus the LNB is located. The signal coming from this second smaller dish is much stronger. As this dish type requires a very precise configuration, in most cases such devices come pre-assembled. Smaller types have the LNB/feed combination mounted weatherproof at the back of the dish. The Cassegrain principle is quite frequently used in commercial SNG or fly-aways. Depending on the quality of the construction, the additional mirror will rise the signal gain by an extra ten to 14 percent.

ing as an antenna this small cannot be used for extreme reception anyway because of thermal noise originating from the Earth's surface. We compared the Thomson dish with another 40cm single-LNB dish. This unbranded product produced a gain of 33.6dB at 11.7GHz. The Thomson 40HT33 however had a gain of up to 37.6dB, thus offering much more reliable digital and analogue reception of medium-power satellites. After our test, we used this dish quite some time for MPEG radio only. It worked fine all the time without any audible dropout. Although the aperture angle of such small dishes are larger by law of nature, the 3.5° of the Thomson dish is still a very good figure. Just as with the 88HT33, the workmanship of this smaller dish is really remarkably high.

Amstrad SRD 6101 CI

After we tested the free-to-air version of the Amstrad 4101 in our last issue it was just a matter of time for the company to implement a Common Interface. At this moment, interface modules are available for almost any encryption system. So even real anti-pay-TV users can later switch to a certain pay-TV package without having to buy a new receiver, if and when the need arises.

most important buttons are all within reach of your fingertips and make it easy to operate. All buttons are clearly marked which prevents any mistakes. We tested the European version of this box that comes with Astra and Hotbird channels pre-programmed, so when your dish is equipped with a universal LNB the box is a real plug-and-play one. An update of the channels can be performed automatically and is done within some minutes. It is possible to find and store FTA channels only, leav-

sary but usually it isn't, maybe for the exception of certain SCPC signals. Normally you will use the automatic search however. The SRD6101 supports the following languages: English, German, Italian, French, Spanish and Portuguese. To enjoy the better video quality of the SRD6101 you can connect it to your television using RGB or Y/C output, both on Scart. Of course, the Amstrad also supports the wide-screen format (16:9). Entering the current time is just a



The Amstrad SRD 6101 CI is a nonetheless a fully equipped Free-to-Air receiver, not some stripped model that subscribers to certain digital pay-TV packages get. All free channels can be caught with this box without any limitation. Required parameters are entered manually or found automatically by this Amstrad box. In fact there is no big difference between this receiver and its predecessor. Behind the lid on the front, we found two slots for Common Interface modules. One can be used for Irdeto and the other for Conax, for instance. In total, the SRD 6101 can store up to 2000 channels. The display indicates the channel ID using green LEDs (Amstrad waved the red ones goodbye.) Also positioned on the front are the emergency operation buttons, enabling you to do even some programming in case space aliens abducted your remote control. At the back, nothing has really changed. The LNB output can be connected to another receiver (analogue, ADR or whatever). Unfortunately, Amstrad decided to stick to only two Scart connectors. The RS-232 serial interface is still there and can be used for a connection to a PC for uploading any channel settings or even new firmware. It can handle connections up to 19kB/s. The usual 12V-control signal is available through a phono jack, and so is a separate audio signal for your stereo. It would have been nice though to have a digital audio output on the box. Another phono jack supplies a composite video signal. The built-in modulator perfectly integrates the a/v into any existing terrestrial signal and is software adjustable to any channel within the UHF range. The integration of Common Interfacing technology had no effects on the layout of the remote control. The

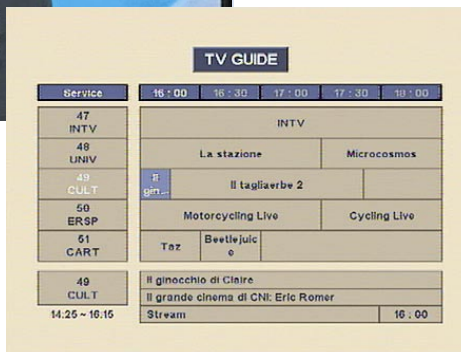


ing out all encrypted stuff. When using a multi-feed installation, just perform the proper settings and the receiver will do the rest for you. Using even more LNBs will require the use of the built-in DiSEqC system and the 12V control. A separate menu is present for all settings when using this receiver in conjunction with a SMATV network. The SRD 6101 can handle up to eight satellites (or rather, orbital positions). The LOF can be entered manually and without any restrictions. To get all information on transponders etc., just refer to the Satco-DX charts on the Internet or browse this very magazine's frequency charts. The advanced menu is for experienced users only. You can enter PID-codes here if neces-

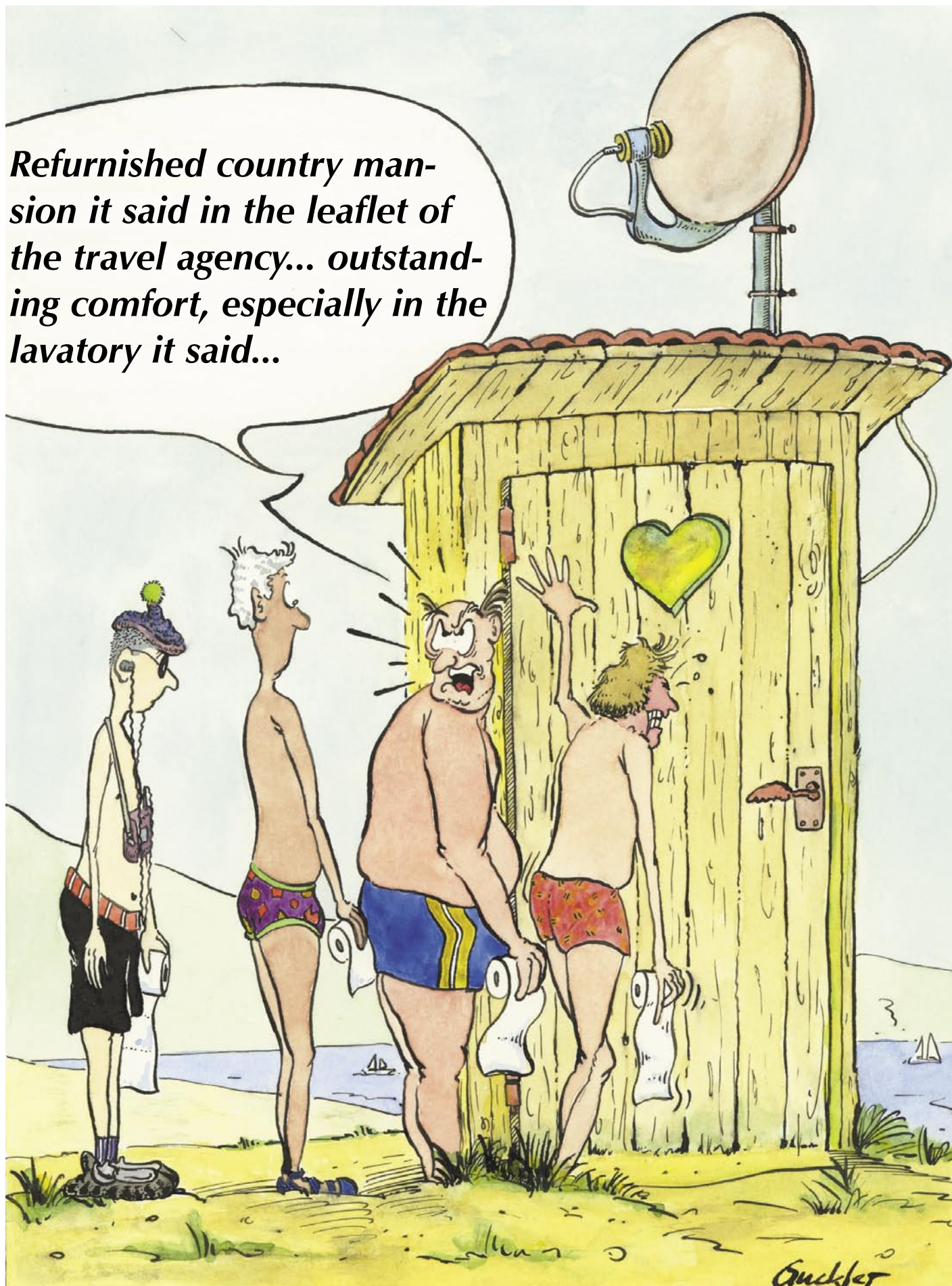
matter of telling the box what time zone you are in and what the current time is approximately. The exact time is then taken from the datastream of the currently selected channel (even though not all seem to have adjusted their clocks recently.) The order of the channels found can be easily changed and unwanted channels can be deleted. Additionally, this receiver offers you a snooze function and sleep timer. To prevent unauthorised use of some channels, you can block them by using

the parental lock. Using an analogue receiver makes it easy to find any signal. With digital receivers however, this is much more difficult, since a weak signal means no picture at all instead of a distorted picture. The reliability of a built-in measuring tool is very important. Besides the signal strength the quality is of great importance.

The SRC6101 shows you both on-screen. The EPG will give you all information a particular channel is supplying. Whenever a channel is encrypted this is shown in the on-screen channel bar. Teletext is built in and selecting a channel can be easily done using the up and down buttons on the remote. Sometimes however, the receiver skips one channel and in fact proceeds two channels. In our opinion, there should be a software update.



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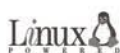
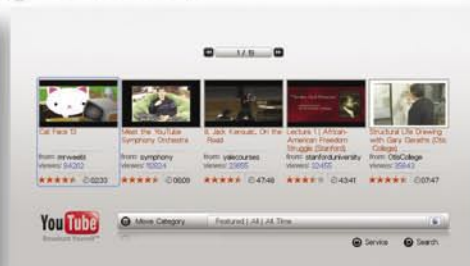
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