

SATELLITE

BROADBAND & FIBER-OPTIC

08-09
2009

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DXer Report

CHINA

Resourceful Satellite Handyman
from Beijing

Company Report

PROMAX

The Four State of the Art
Divisions in Barcelona

Test Report

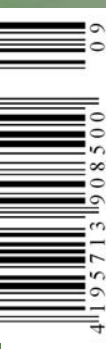
SPAUN SPAROS 609

Surprising New Satellite
Signal Analyzer

Test Report

GLOBAL INVACOM

New Generation of Optical LNBS
Will Revolutionize the Satellite World



global **invacom**

GI FibreMDU



TMS

SRP-2100



Multimedia HDTV Twin Tuner PVR with DivX playback

PVR



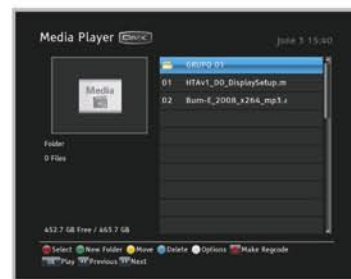
Playing recorded programmes at up to 64 times speed at maximum.

YouTube



Playing media contents of YouTube

Multimedia



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

SHOUTcast



Playing SHOUTcast Internet radio



- Featuring on-line game 'BATTLE TANK'
- Able to transfer media files among network users.
- Providing Yahoo Flickr and Google Weather.





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Alexander Wiese
alex@TELE-satellite.com

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www.TELE-satellite.com

Dear Readers,

I was sitting recently in my favorite café, eating my favorite breakfast (a large cup of coffee and a croissant fresh from the oven) and reading my favorite newspaper when an article caught my eye: the last picture tube factory had closed its doors. And with that, picture tubes are no longer being manufactured! In 2008 there was still a noteworthy number of picture tube TV's that were sold but in 2009 it all came to an end – only flat screens are being manufactured now. Picture tubes have reached the end of their service life.

Will coax cable have the same fate? In my opinion, yes, without a doubt! Just about a year ago TELE-satellite published a worldwide exclusive report on the first pre-production model of an LNB with an optical output. Mass production of this new type of LNB along with the necessary accessories has now begun. In this issue you will find a test report on this first-of-its-kind LNB that is now available to everyone.

Why am I so convinced that fiber-optic transmissions are the way of the future and that one day coax cable will fade away and become a thing of the past? This optical technology reminds me of Skype. No, not because Skype allows you to make free telephone calls, but because distances are no longer an obstacle for Skype. When I'm on one of my business trips somewhere in the world and want to call one of my local colleagues using my mobile phone, these mobile service providers would have you think that it's an enormous technical undertaking for them and thus charge you extremely high rates for a local telephone call. These mobile phone service providers are still living in the last century. They haven't figured out yet that it doesn't matter where I am in the world. Mobile phone operators take note: to Skype my location is irrelevant – by default, every Skype telephone call is a local call.

And that is the basic principle of a global world: distances are no longer a factor and that is exactly what optical signal transmissions are all about. Distances are not an issue any more and that's why fiber-optics is the technology of the 21st century!

And now a pop quiz: what other technology that you know is not limited by distances? Yes, you guessed it, satellite technology is not affected by distances. One satellite can reach nearly half the surface of the world and that simply means it doesn't matter where you are. Unfortunately programming providers still find themselves several centuries in the past – they operate with narrow satellite footprints and reduce the otherwise limitless satellite technology to the terrestrial limits from 200 years ago.

But these are artificially created limits. We are in the 21st century where satellites and fiber-optics are the technologies of this age. They essentially render distances meaningless. Fiber-optic technology and satellite technology are the technology of a global and borderless world!



Alexander Wiese

*P.S.: My favorite radio station of the month:
"BBC 6 Music" on ASTRA 2D (28E) 11.954H with nearly the complete
absence of top hits; unfortunately, the DJ's love to listen to themselves talk.*



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Technomate

The New!



TM-5000 Super Series

with USB PVR for Recording



Introducing the New TM-5000 USB Super Series...

- ✓ 10,000 Channel Memory
- ✓ Component Output (YPbPr)
- ✓ Super Sensitive Tuner
- ✓ Very Fast Blind Search
- ✓ Based on 2008 What Satellite Magazine's Best Enthusiast Receiver

USB Features:

- ✓ Record/Playback Scrambled & Free-To-Air (FTA) Channels by USB 2.0
- ✓ Pause Live TV by Timeshift via USB 2.0
- ✓ Forward/Rewind Recordings
- ✓ USB 2.0 for Software Download/Upload, MP3 & JPEG Playback
- ✓ Rear Mounted USB 2.0 ✓ Silver or Black

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

The TM-5200 D USB reviewed by What Satellite Magazine (Jan 2008)

TM-5200 D USB
super

Free-To-Air Satellite Receiver

TM-5300 D+ USB
super

with Built-in Smart Card Reader

TM-5400 CI+ USB
super

with Card Reader + Common Interface

TM-5600 CI USB
super

with Common Interface

High-Definition

Satellite & Terrestrial Receiver

TM-6900 HD COMBO Super



- ✓ Based on the Award Winning TM-6900 HD COMBO
- ✓ 2x USB 2.0 Ports (Front + Rear)
- ✓ Very Fast & Detailed Hardware Blind Search
- ✓ RF Modulator
- ✓ eSATA
- ✓ Ethernet Communication Port

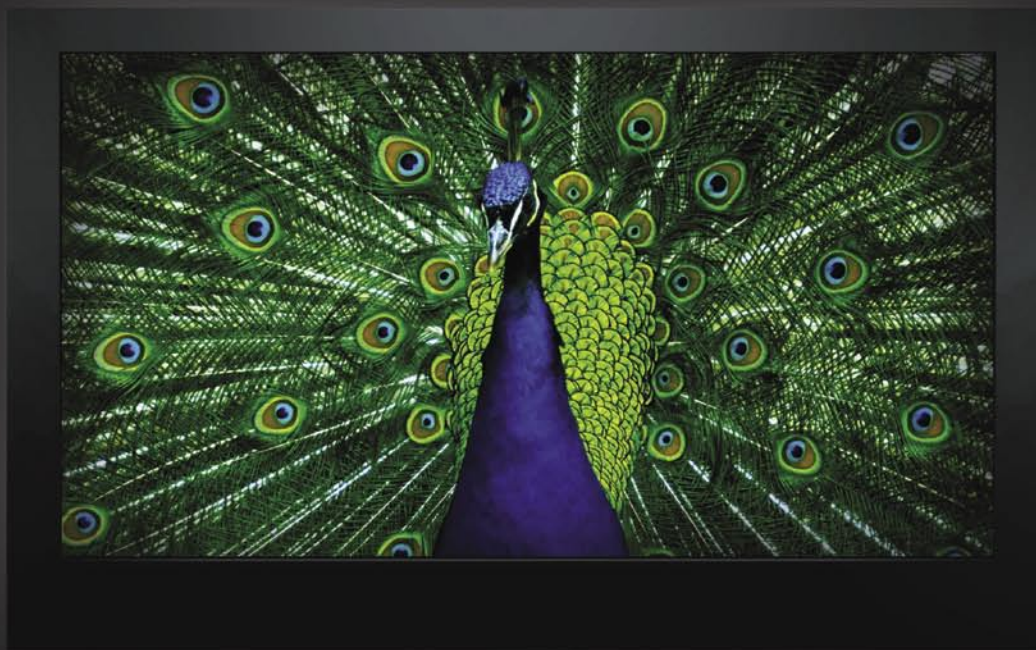
- 10,000 Channels • Record Scrambled & FTA Channels by USB • Timeshift
- MP3 & JPEG Playback & Data/Software Transfer by USB 2.0 • 1080i, 720p, 576p & 576i
- MPEG-2, MPEG-4 & H.264 • Built-in Upscaler to Improve Standard Picture Quality
- 1 Smart Card Reader & 2 Common Interface (CI) • VFD Display • Silver or Black

Technomate
Europe

Zi De Vunt 4, 3220 Holsbeek, Belgium
Tel: +32(0)16/40.80.47

REAL COLOURS, REAL LIFE

OPENSAT 



XT9500HD - High Definition Digital Satellite Receiver

VFD Display • 2 Common Interface • 1 Smart Card Reader • DVB-S/DVB-S2 • EPG • HDMI Digital Video & Audio Output • 1080i, 720p, 576i, 576p, 480i, 480p • USB 2.0 on the front panel for software upgrade

ABC BIZNIS.

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GLOBAL INVACOM
Optical LNB,
the Satellite
Reception
Revolution 22



ABCOM IPBOX 91HD
HD Satellite Receiver
with PVR 32



TEVII S470
DVB-S/S2
Satellite
PC Card 42



SPAUN SPAROS 609
TV Signal
Analyzer..... 50



IPDVD BOX
Pocket Sized
Multimedia
Powerhouse..... 60

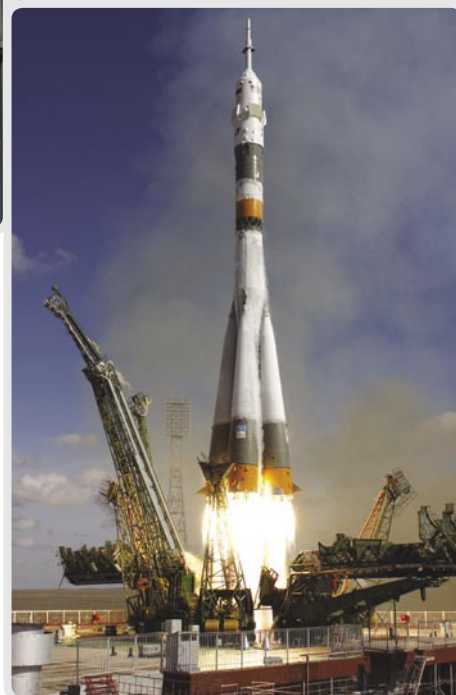
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HD2.0 Slim

MPEG-4 HD Satellite **PVR Ready** STB
with USB Host



IBC September 11-15, 2009
ARION booth Number: 4.A79



Tuner Loop-Through Output(Full band) Compliant with Cable Ready Specification
Dolby Digital Down-Mix Output Support (*Optional)
Conax CAS 7 Embedded Chipset Pairing
Cable HD Ready Support (for Cable STB only)
MPEG-2 / MPEG-4 Part 10 AVC HD/H.264 compliant
Software Upgrade via USB 2.0
YPbPr, CVBS, HDMI, SCART Video Output Support
Various Video Aspect Ratio with 4:3, Letter Box, Full Screen and 16:9 Support
Various Video Display Format with PAL 576i/576p/720p/1080i 50 Support



NEW TECHNOLOGIES – NOW ON STOCK

JAEGER HUMAX TOPFIELD

SMW
SWEDISH MICROWAVE AB

emitor

MICROELECTRONICS TECHNOLOGY INC.

ALPS CIBERTINI Boca

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



TOPFIELD TF 5050CI HDMI



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



Measuring Instruments

emitor MEGALOOK

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



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

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

DIGIAIR pro

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

- Handy spectrum-analyzer for frequency 45-862MHz
- Presents full range and expanded spectrum
- Ready for MPEG2 and MPEG4 signals
- Signal level readout in dBuV, BER
- Digital-signals present BER and S/N-ratio
- High resolution back-lighted LCD display
- Very high accuracy, ± 1 dB at 20°C

NEW

DIGISAT PRO ACCU

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



- ALSO AVAILABLE:**
- Digisat
 - 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

Boca **NEW** DSL 250 / DSL 250-T



Digital satellite / terrestrial Receiver

- Multi-functional timer
- Electronic Program Guide (EPG): Up to 7/16 days in advance (channel dependent)
- Timer function linked with EPG
- Power switch/ 2 watt standby mode
- Multi-picture function

DSL 350 1CI



Digital satellite Receiver

- 1 x common interface
- DiSEqC 1.2 control system
- Digital audio output (coaxial)
- 4500 programme storage locations

DSL 500 PVRready



Digital satellite Receiver PVR-ready

- 1 x common interface
- USB 2.0
- S/PDIF, HDMI connection
- Multi-picture function

DOEBIS expertise in satellite technology

Your competent partner for over 22 years



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

Boca

NEW

HD 200 CI PVR



HDTV digital satellite Receiver PVR-ready

- 2 x Common Interface
- alphanumerical display
- 1 x USB interface
- HDMI connection
- YuV component output

Motors

Aktuatoren/ Actuators

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



- 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

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

NEW



- 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

Multiswitches / DiSEqC - Switches

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



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

SPAUN Full Range

Parts

Multifeeder 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

INVACOM

NEW

Innovation in Communications

Fibre LNB



with optical fiber connection

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

Full LNB range INVACOM available as:

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

AVAILABLE ACCESSORIES:



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



1x2, 1x4 or 1x8 optical fibre coupler



Optical cable from 1,0 meter up to 200 meters

Inverto

digital-labs

IDLP UST110-CUO10-8PP

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



Dishes



- 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

Multifocus Dish

MAXIMUM

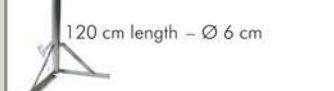
E-85 Multifocus 48° Dish



- Ellipse shaped dish
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Balcony mounting parts

- 25 cm distance – Steel
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Decoding of Encrypted Content

Thomas Haring

The currently used DVB standard provides for encrypted channels to be decoded according to the following procedure: A subscriber receives a smart card from their content provider. This smart card is equipped with a key that is required to decode encrypted channels and/or programs. The relevant key is sent to the card via satellite. As each card features a unique serial number content providers are in a position to activate or deactivate each individual smart card as necessary. In order to decode the encrypted transport stream transmitted by the satellite a code is required which is re-generated every few seconds. This code is calculated directly by the CI module or – in case a proprietary receiver with built-in card reader is used – by the internal chipset of the box, using a number of different parameters which include – among others – the key that is stored on the smart card.



Pay TV content can be decoded either by proprietary receivers – which means receivers that are specifically designed for a certain system or provider – or by using a common interface (CI). Some content providers such as Sky Digital in the United Kingdom provide proprietary receivers and consequently force their customers to only use certain approved receiver models which feature an integrated smart card reader and an internal chipset on the main board that takes care of decoding encrypted signals.

This type of encryption holds a number of benefits for providers (easy change of encryption system, full control over which features are supported by proprietary receivers, etc.). Subscribers, on the other hand, are left with no choice and have to take what their provider deems right for them. For example, content providers are able to determine that recordings that are saved on the internal hard disk cannot be transferred to external storage media such as DVDs. Or even some EPG features may be blocked, such as searching for programs on channels that are not part of the subscribed package. End users have no way of selecting alternative receivers



■ Sky Digibox HD for reception of encrypted Sky Digital channels



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that might offer all the features they are looking for. If, however, a content provider allows the use of CI (common interface) modules, subscribers are free to use the provided smart card in any receiver they like, provided it is compatible with the CI standard. This option gives full control to the user rather than the provider, as any CI compatible receiver can be used, and whenever new features become available a new receiver can be bought and used.

The so-called common interface is an interface based on PCMCIA (Personal Computer Memory Card Association).

nel everything works smoothly and no problems should arise. While a subscriber is watching pay TV the provider is constantly transmitting new keys to the smartcard so that the decoding process is not interrupted.

The advent of PVR receivers and the possibility to save the transport stream of a digital channel directly onto a hard disk has revealed some weaknesses of the decoding process. In general, a smart card can only generate the required code for channels that are transmitted on a particular transponder, which means that



Smart card for reception of encrypted pay TV channels

on their hard disk as well. This means that the (second) encrypted transport stream is saved in an unprocessed format and as soon as a user calls up the recorded

Table 1: Overview of some encryption systems

Encryption system	Developed by	CI Modul	Provider
IRDETO	Irdeto Access	YES	Multichoice Netherland
CRYPTOWORKS	Philips Electronic	YES	ORF, Digiturk, UPC
NAGRAVISION	Kudelski SA	YES	Premiere, Kabel Deutschland, Dish Canada
SECA MEDIAGUARD	Societe Europeenne de Control D'Access	YES	Canal+, TV Vlaanderen
VIACCESS	Viaccess SA	YES	TPS France, SF
CONAX	Telenor	YES	Canal Digital
VIDEOGUARD	NDS	NO	Sky
POWERVU	Scientific Atlanta	NO	Transmissions between TV stations, feeds, US Army

It measures 10 by 5.4 by 0.4 mm and is available for a whole range of encryption systems including Irdeto, Viaccess, Mediaguard, Nagravision and Cryptoworks. A CI module simply has to be inserted into the corresponding slot on the receiver and instantly adds the option of pay TV reception with a valid smart card. Table 1 lists the most widely used encryption systems and whether CI modules are available for them or not.

Everyday use

As long as a standard CI receiver is used for watching an encrypted chan-

nel while it is possible to decode two channels simultaneously (one for watching live, the other for recording), these two channels need to be on the same transponder. If they are on different transponders, only one channel can be decoded while the recorded channel is saved with encryption in place, because the CI module can only deal with one transponder at a time.

If you want to solve this problem you can of course use more than one smart card and CI module, but quite honestly, who is able or willing to afford that? That's why almost all PVR receivers are designed in a way that allows storing encrypted content

program it is dealt with as if it came right from the satellite, and it is decoded on the fly by sending the data from the hard disk to the CI module first.

While this is a solution that certainly has its merits, it also comes with a major drawback: Content providers change the key on their smart cards at regular intervals, and once this has happened the CI module is no longer able to generate the code required to decode data that was stored before the key change. Depending on the provider the key change intervals can range from several times a day to once every few months. The result, however, invariably stays the same and any recording not decoded by the time the smart card key is changed via satellite is lost for good.

Some smart manufacturers quickly came up with a better solution: They allow decoding and re-saving an encrypted recording so that you end up with a decoded event that is saved on the internal hard disk and yours to view without limitation. While some receivers initiate this procedure automatically, others require manual activation. What happens in each case is that the encrypted recording is sent to the CI module for decoding and then stored again on the hard disk.



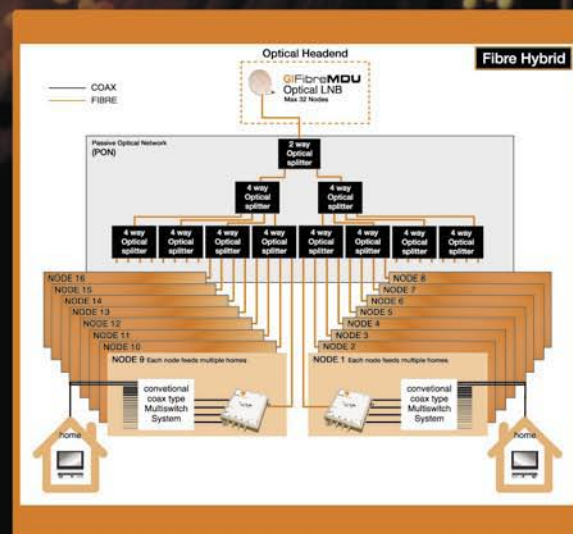
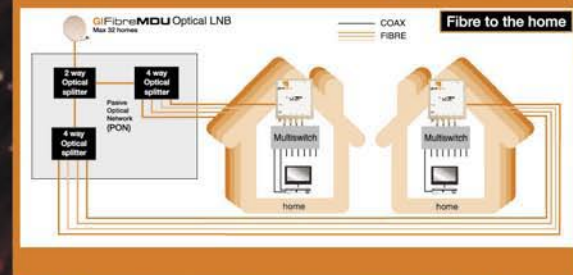
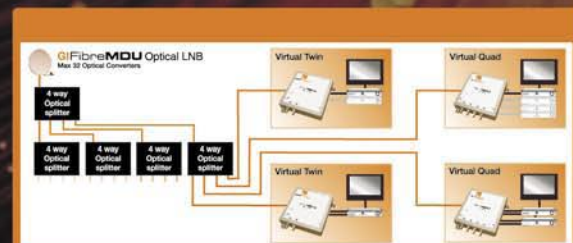
Irdeto CI module

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completing the picture

The use of a card splitter in combination with a second CI module is another way of working yourself around inherent smart card limitations. This way the smart card is used twofold by not inserting it into the receiver but into a dedicated control box instead which in turn is connected via cable or WLAN to two cards that are slotted into the CI modules in the receivers. This way two different pay channels can be recorded

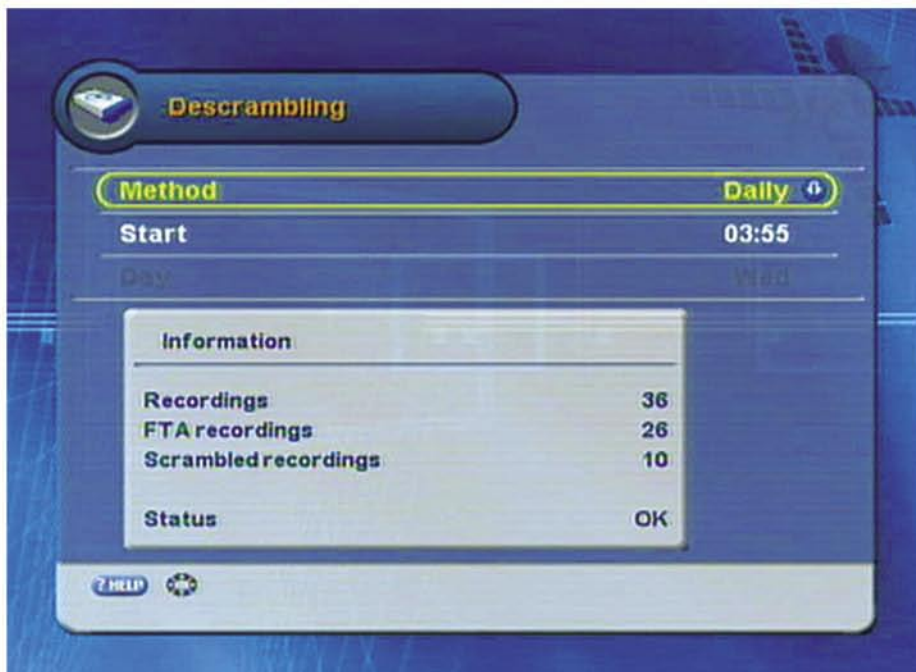
simultaneously using only one smart card.

What does the future hold?

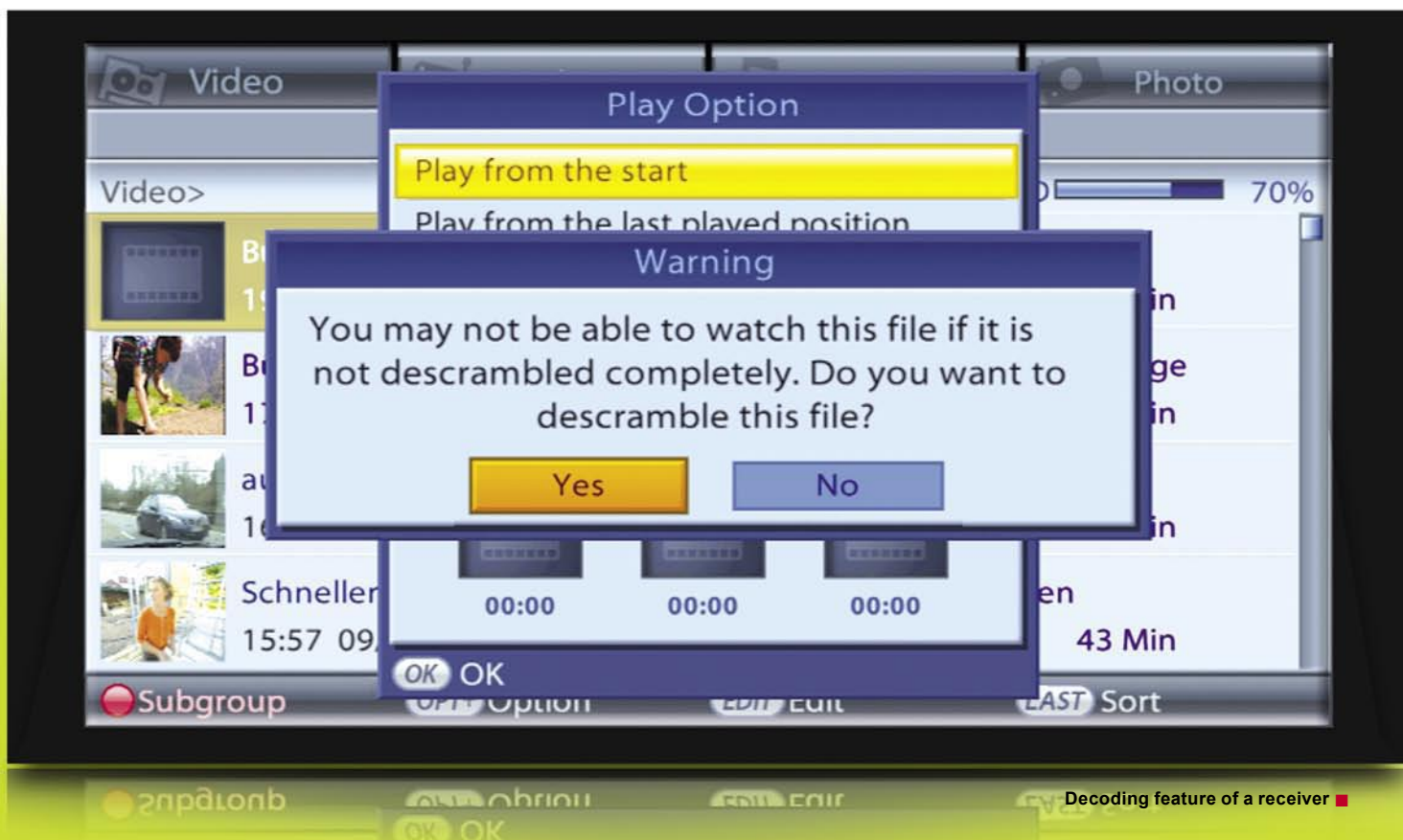
Right now a lot of effort is focused on further developing the CI specification with a project called CI Plus. This new standard will not be compatible with the current CI standard, which implies that

in future subscribers of pay TV using CI Plus will have to buy new receivers. What most clearly sets apart CI Plus from the current standard is its integrated copy protection mechanism which can make it impossible to copy recorded pay TV content from a receiver's internal hard disk to any other storage medium. In addition, with CI Plus it will be possible to better protect children or minors from viewing unsuitable material. While the latter certainly is a most welcome development, imminent copy protection is a matter of heated debate. After all, even a single and perfectly legal copy of a recorded movie for private use will become a thing of the past if this feature is implemented. Users would be left with no choice but either to keep all recordings on their hard disk (which might eventually cause some storage capacity issues) or to wait until a movie they like is broadcast again.

What the new CI Plus specification suggests, however, is that content providers are free to decide themselves whether or not to activate these copy protection features. So let's hope the rules of the marketplace will finally determine that only those providers will stay in business successfully that allow their subscribers to make a DVD or Blu-Ray copy of their favourite recording.



■ Automatic decoding feature of a receiver



■ Decoding feature of a receiver



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The Future Starts Now:

Global Invacom Optical LNB

The Satellite Reception Revolution

Time flies when you're having fun! It was just about a year ago when TELE-satellite ran an exclusive on an optical LNB; a Global Invacom invention.

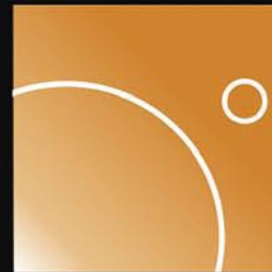
This wouldn't be the first time that this company, based in Stevenage near London, has made headlines when it comes to direct satellite reception, but the introduction of the optical LNB will undoubtedly become a developmental milestone that has occurred in the age of satellite reception over the past several years, if not decades. But what is it that's so revolutionary about an optical LNB?



Back in the 04-05/2008 issue, TELE-satellite published an exclusive report on the first official public demonstration of optical LNB from Global Invacom

Global Invacom Optical LNB





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completing the picture

At first you might be thinking that it's one of Luke Skywalker's newest weapons, but in reality it's one of the most ingenious ideas that we have seen in several years; an idea that does away with the biggest problem facing the direct reception of satellite TV: namely the signal attenuation or signal loss in the coax cable between the LNB and receiver as well as the problems associated with signal distribution to multiple users.

But what's so special about an optical LNB? First we want to remind you how a standard LNB works: the LNB receives the focused satellite signals from the antenna, converts them to a different frequency range and routes these signals to a satellite receiver tuner via a coax cable.

Since this frequency range is limited to 950 to 2150 MHz, two tricks had to be used in order to receive the entire frequency spectrum of a satellite. The first would be the polarization of the signal and this would be either a vertically or horizontally polarized signal. Circularly polarized signals (left and right) are also used but on a much smaller scale. It really isn't necessary to go into any additional detail on circular polarization; for the purposes of this article they behave in the same way.

The 13V or 18V control voltage carried by the coax cable to the LNB dictates whether vertically (13V) or horizontally (18V) polarized signals are received by the LNB. The second is the 22 kHz control signal that is used to switch between the low and high bands. The low band covers the satellite frequency range from 10.7 to 11.75 GHz while the high band covers from 11.8 to 12.75 GHz.

If the LNB "sees" the 22

kHz control signal from the receiver, it sends the high band signals via the coax cable to the tuner. If the 22 kHz signal is not there, the LNB switches to low band. In the end there are four possible scenarios (vertical or horizontal in low band OR vertical or horizontal in high band) but only one of them can be used at any one time.

If it's a single satellite antenna system for just one user, then everything is fine and dandy. But the moment there are more than one user receiving satellite TV from the same antenna, that's when the first problems surface. If, for example, user "A" needs the LNB to operate in the vertical low band, everyone else on the same system would be stuck receiving the same vertical low band signals; the number of available channels would be severely limited. In reality, such a setup would make absolutely no sense; none of those users would have any fun watching TV.

Up until now, this type of problem was solved using

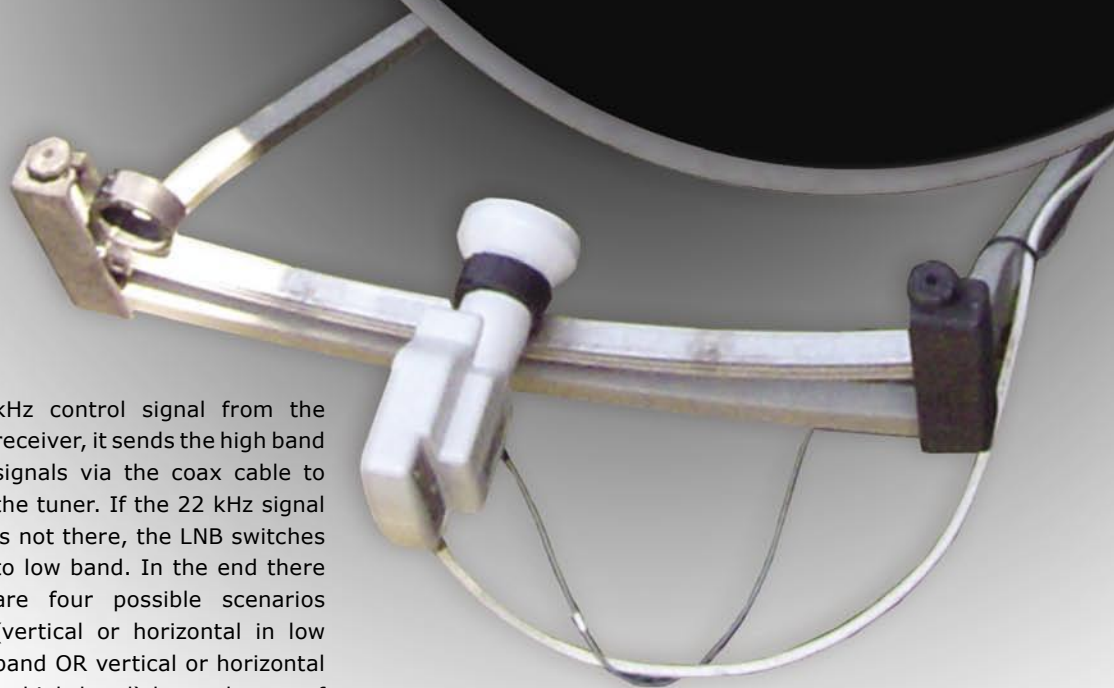
LNB's with up to eight individual outputs; each attached receiver would be able to operate independently of all the others and get whatever band/polarization it needed.

If more than eight end-users were involved, multiswitches would then come into play. In this case a Quattro LNB with four unique outputs that cover the four band/polarization combinations would be used. These signals would then be distributed to as many users as is needed. But all is not as simple as it seems. All of the coax cable that is used along with the various multiswitches used for signal distribution bring with it signal attenuation that in truth cannot be ignored. The signal attenuation associated with 8 to 10

user outputs can still for the most part be considered negligible. But with 20, 30 or even 40 outputs, the signal attenuation problem could be quite significant.

This is where the optical LNB comes in. A stacker built into the LNB converts the four band/polarization combinations into different frequency ranges between 0.95 and 5.45 GHz. Afterwards, the RF signal is converted to a digital signal and transmitted by laser via a fibre-optic cable. Hence the name optical LNB.

At the other end of the fibre-optic cable, the light beam enters a converter box called a GTU (Gateway Termination Unit) where it is transformed back into a signal that is rec-



Two-way Fibre-Optic Splitter

1x2 Optical Fiber Coupler

Serial No.	Wavelength	CR(%)	IL(dB)	IL(dB)
S 0902870587 A	1550±40nm	25.0	6.30	6.16
PORT1	24.8	6.17	24.9	6.22
PORT2	25.6	6.27	24.8	6.24
PORT3	25.0	6.32	25.1	6.18
PORT4	24.6			

1x4 Optical Fiber Coupler

1x4 Optical Fiber Coupler

Serial No.	Wavelength	CR(%)	IL(dB)	IL(dB)
S 0902870587 A	1550±40nm	25.0	6.30	6.16
PORT1	24.8	6.17	24.9	6.22
PORT2	25.6	6.27	24.8	6.24
PORT3	25.0	6.32	25.1	6.18
PORT4	24.6			

Four-way Fibre-Optic Splitter

Optical Digital Output and F-Connector for the Power Supply

Fibre-Optic Cable Plug

Fibre-Optic to Coaxial Converter Box (GTU)

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ognizable by any standard satellite receiver.

These GTU's from Global Invacom are available in Twin, Quattro or Quad versions. While the Twin and Quad versions are connected directly to a receiver, each output of the Quattro version delivers one of the four band/polarization combos and is typically integrated with existing multiswitches. This means that one fibre-optic cable can carry the entire frequency range of a satellite. A 3mm thick fibre-optic cable running from the optical LNB is all that's needed.

Since the light beam contains the entire frequency spectrum of a satellite, it is possible to connect as many receivers as is needed with each operating independently from all the others – all from this one fibre-optic cable. Even, for example, if an entire large apartment building needs to be supplied with satellite signals, the optical LNB brings with it enormous possibilities.

From this point it would be enough to lay one fibre-optic cable from the LNB to a central distribution point. It would then be split into multiple fibre-optic cables with one routed to every floor of the apartment building. On every floor the cable would be further split and routed to each individual apartment. The end user would then be able to connect not just one receiver, but, for example, he could easily connect a Twin Tuner PVR in the living room, another receiver in the kids room and yet another in the bedroom.

If standard coax cable were used, each apartment would need four coax cables from the multiswitch in order to accomplish the same thing.

It's not hard to recognize the enormous potential that optical LNBs have. It greatly simplifies and reduces the installation costs of larger satellite reception systems. It also brings with it new possibilities even for individual users. We all know this problem: while planning a satellite system a few years ago, who would have expected the big boom in Twin Tuner PVRs? Many of these systems only included one signal cable and in many cases there's no more room to add any extra cables in the ductwork.

Up until now, you had to make do with fairly decently functioning stackers or muddle through using the loop-through feature on a receiver. But in the future it will be enough to swap the existing cable with a fibre-optic cable so that four or even more receivers can be used at the same time and totally independently from each other.

Installation

The optical LNB is somewhat larger than a standard LNB and elongated. It's not surprising; the entire electronics needed to convert to an optical signal has to fit inside. Underneath the LNB are two connections, the optical output for the fibre-optic cable and also an "F" connector. The "F" connector is not used for any signal transmissions; instead it is used as the power connector for the LNB since no power can be carried by the fibre-optic cable.

Global Invacom chose an "F" connector for good reason. Yes, a typical power supply connector could have been used but why go that route if a coax cable is already in place? Many existing systems will convert to using an optical LNB and that's why the "F" connector makes sense. The

existing coax cable is simply plugged into the "F" connector on the LNB; the other end of the coax cable is connected to the included power supply which in turn is plugged into a wall outlet. The coax cable becomes the power cable for the LNB.

Unlike coax cable which is relatively insensitive to dirt accumulation, the cleanliness of fibre-optic cable is much more critical. The problem is not with the cable itself – it is encased in a metal jacket that helps prevent the cable from getting bent, twisted or otherwise deformed – but with the connectors: they require extreme cleanliness. For this reason, Global Invacom offers their own special cleaning cloth which is used to clean the ends of the fibre-optic cable before being connected to the LNB or converter box. And while we are on the subject of cables, Global Invacom will also be offering matching prefabricated cables once the sale of the optical LNBs has begun. Sizes will include 1m, 3m, 5m, 10m plus various additional lengths up to 200m.

With the help of an adapter plug, these prefabricated cables can be connected together so that any desired length can be achieved. Global Invacom will also make the fibre-optic cable available by the meter without any connectors. In this case special equipment will be needed to attach the optical connectors. The fibre-optic cable, like other standard cables, is further protected from dirt and moisture with a rubber outer casing that surrounds the metal protective jacket. This outer casing is available in a variety of colors or if necessary can be painted to match the environment. Additionally, it is an LSZG (Low Smoke Zero Halogen)

material that won't give off any poisonous smoke if it should catch fire.

Another important advantage of fibre-optic technology is that it is completely immune to any electromagnetic interference. Fibre-optic cables can therefore be placed in close proximity to strong electrical fields without any problems at all. Nothing like that exists in the TELE-satellite building but in order to be prepared for future applications, we ran a 50m long fibre-optic cable through existing ductwork past electrical and data cables from the roof all the way to our test center.

The small diameter of the fibre-optic cable came in handy here: roughly three fibre-optic cables fit in the same space that one coax cable required. Since the cable is quite robust thanks to its metal jacket, we were able to pull it through

Next we ran the coax cable to the closest wall outlet to power the LNB and then we were ready to go. After quickly cleaning the end of the fibre-optic cable, we plugged it into the converter box along with a signal analyzer via a short coax cable.

We were impressed with the initial results – regardless of what frequency was received and the satellite we were pointed to, the optical LNB was a step ahead in terms of signal quality. These results did not change when the fibre-optic cable was split four times and connected to four receivers that were operated at the same time. The higher MER values on HOTBIRD at 13° east were clearly recognizable as were the strong signal peaks in the spectrum.

The results that the optical LNB delivered were so impres-

sive that our standard 0.3 dB noise figure LNB together with 50m of coax cable simply could not keep up.

According to the manufacturer, the splitting of the fibre-optic cable is currently limited to 32 outputs. This limitation exists because of the laser's signal strength. For special applications, Global Invacom can generate a stronger laser signal so that the number of outputs can be increased as needed.

The extremely small signal attenuation through the fibre-optic cable of a mere 0.3 dB over 1000 meters (!) definitely comes into play here.

Optical LNB Applications

If the Global Invacom idea catches on, then there will no longer be a need to use coax cable for direct satellite reception and we don't see any reason why this vision shouldn't become reality.

Fibre-optic cable is not any more expensive than good quality coax cable. The optical LNB is in practice identical to standard LNB models; even supplying the power via the coax cable should become the norm.

Not only that, fibre-optic cables can be used anywhere;

ductwork without any complications and even bend it around corners that were less than 90°.

Everyday Use

Once we laid the fibre-optic cable all the way to the office roof, we swapped the old standard 0.3 dB noise figure LNB that was on our offset antenna with the optical LNB.



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30m Fibre-Optic Cable with Connectors

it doesn't matter if it's placed next to high-voltage lines or even a powerful electric motor. Global Invacom even thought about those customers that receive DVB-T signals via a coax cable: thanks to a special adaptor, fibre-optic cable can be used here too.

Optical LNB Advantages

The biggest plus with the optical LNB is that all four band/polarization combinations can be transmitted through the one cable at the same time.

That brings with it the advantage that the signal can be split as often as needed and that each output can operate completely independently from all the others. The extremely long distances that fibre-optic cables can be run without any appreciable signal attenuation is another huge bonus.

Fibre-optic cables are small in size and will easily fit in any ductwork. Because of its extremely low signal loss, it is significantly better over very long distances than coax cable in terms of signal quality.

With weak signals this could easily be the difference between receiving a signal and not receiving it. Distances covering several kilometers can be run without any significant signal loss; Global Invacom has already performed some field tests in that regard. Additionally, the optical system has lower material costs compared to systems using expensive multiswitches.

Price

What would it cost to convert to an optical system? In many cases, the implementation of an optical LNB can actually lead to cost savings

since the setup of a system for multiple users can now be calculated differently than in the past. Only one LNB at about 200 Euros is needed. The material needed to connect two or four receivers is also around 200 Euros. The necessary fibre-optic cable runs a little under 2 Euros per meter (shorter lengths with connectors cost more per meter versus longer lengths that cost less).

Then there are the optical splitters that run about 30 Euros for a two-way splitter, roughly 70 Euros for a four-way splitter up to 160 Euros for an eight-way splitter. The installer would also have one-time costs associated with optical test equipment.

Outlook for the Future

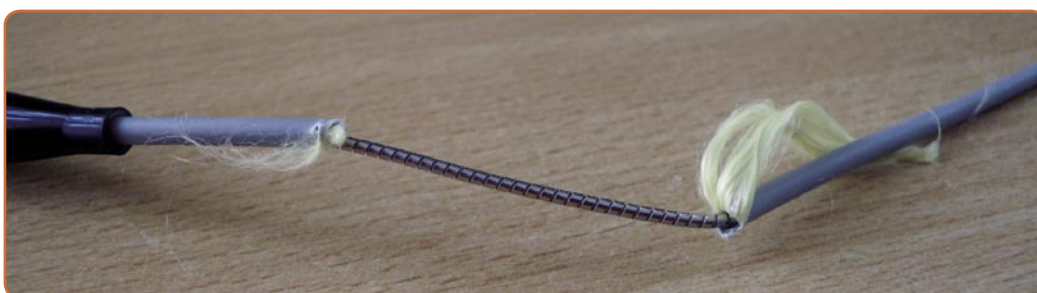
For Global Invacom the market introduction of the optical LNBs is only the first of many large steps. At the moment the signal makes its way from the LNB to the converter box via a fibre-optic cable but the remaining short distance to the tuner is still covered by a coax cable. For this reason Global Invacom has already been in contact with tuner manufacturers with the idea of incorporating fibre-optic technology directly in the receiver. For the end user this means that no converter box would be needed and that the signal could be carried digitally all the way to the chipset in the receiver.

As we would expect, Global

Invacom is thinking even further ahead and already has the technology to carry not only satellite signals but also telephone, Internet and local network services.

This would mean that the TV, receiver, PC, telephone, etc., would not only be served by a single cable, but that all of these devices could communicate with each other through the fibre-optic cable. Controlling all of these devices now takes on a whole new meaning. The optical LNB should prove to be a formidable competitor to the classic coax cable system setup. Who would be satisfied with a limited preset number of channels when they can receive the entire frequency spectrum of a satellite with 1000 channels free of charge?

And thanks to Internet access and telephone via Global Invacom's fibre-optic technology, cable's Triple Play promotion doesn't count for much anymore. An optical LNB allows the transmission of these three communication services more cost effectively to as many households as is needed over long distances and with more choices for the end-user. We should also mention that Global Invacom's fibre-optic technology could revolutionize Internet access in the future since no other type of connection today is as fast as via a fibre-optic cable and let's not forget that the same fibre-optic cable can carry all of your favorite satellite TV signals.



Metal Protective Jacket to Protect the Fibre-Optic Cable

We are witnessing the dawn of a new age in direct satellite reception and in just a few years we will only be able to marvel at coax cable in a museum and no longer on our satellite antennas and receivers thanks to innovative companies like Global Invacom!



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Dual Tuner HD COMING SOON!

Comparison Between a Standard LNB and the Optical LNB



Transponder	MER Invacom Optical LNB	MER Standard 0.3dB LNB
NILESAT 7° West 11938V	7.8dB	6.0dB
TÜRKSAT 42° Ost 11804V	17.1dB	15.0dB
HELLAS SAT 39° Ost 12605H	14.6dB	12.4dB
HISPASAT 30° West 11931 H	15.5dB	13.0dB
HOTBIRD 13° Ost 11278V	15.5dB	14.2dB

Table: Comparison between the optical LNB and a standard LNB – the optical LNB is on average 20% better!

Expert Opinion

+

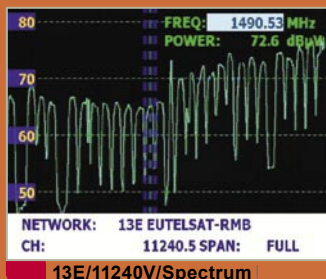
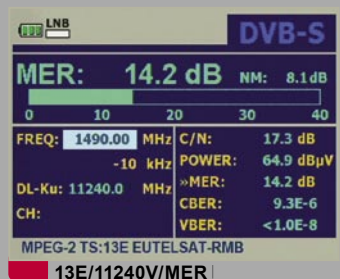
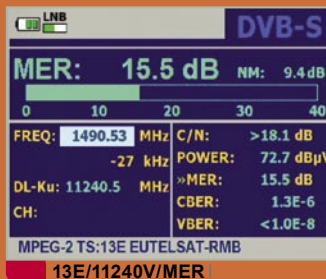
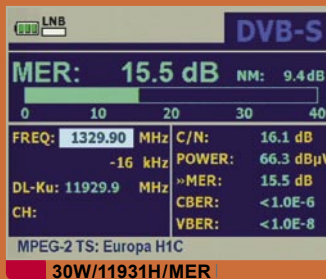
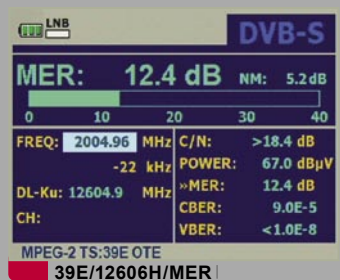
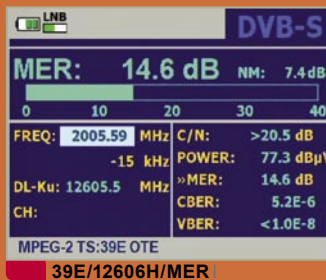
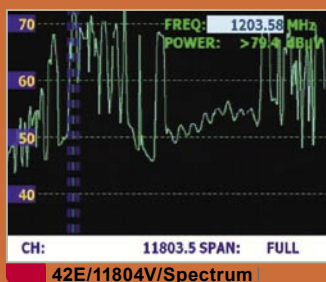
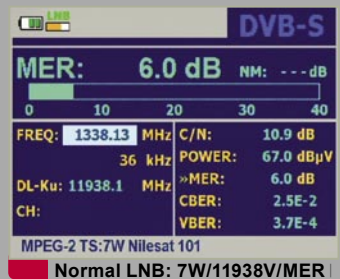
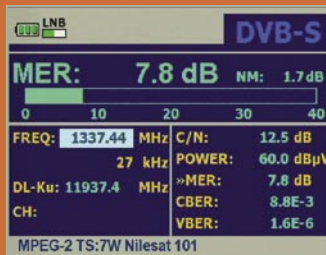
- Excellent reception results due to the lack of any signal attenuation
- Only one LNB per satellite
- Extremely thin cables
- Expandable to 32 users with no signal loss
- Original satellite signal reaches every end-user
- Optical LNB provides reception reserves even with weaker signals

-

- Optical LNB by default requires its own power source



Thomas Haring
TELE-satellite
Test Center
Austria



LATEST PRODUCTS AT THE ANGA CABLE 2009

TV Signal Analyser

SPAUN electronic presents an ideal measuring instrument for installers and electricians with the compact, light and first of all easy to handle SPAROS 609. The SPAROS 609 is suitable for DVB-T/H, DVB-C, DVB-S, DVB-S2 (HDTV) as well as for analogue signals and is equipped with a very fast and precise spectrum indication for the signal analysis.

Similar analogue terrestrial and FTA MPEG2 programs can be watched and evaluated on the very well readable LCD colour screen with a diagonal of 17.7 cm in 16:9 widescreen display format. Further information about SPAROS 609 are available in the brochure **SPAROS 609**.



13 Input Cascadable System

Particularly in multi-dwelling projects rises the need for SAT IF distribution systems for several satellite orbit positions. With this new cascadable multiswitches SPAUN electronic offers for the first time a cascable SAT multiswitch system for 3 satellite systems with 12 SAT IF levels and terrestrial input signals. The power launch amplifier SBK 131309 NF has a high gain for the SAT-IF trunk lines. This multiswitch is terrestrial passive and return path compatible. It is possible to supply 18 V / 250 mA remote power supply for the feed-in of multiband and / or CATV amplifiers.

Cascadable multiswitches for 8, 12 or 16 subscriber outputs are available. For the first time the cascable multiswitches are offered in an active (with signal gain at the subscribers output) or however in a passive version with appropriate signal absorption. Of course the power launch amplifier has an integrated energy-saving power supply and supports besides the SPAUN typical standby function. Further information are available in the brochure **13 Input Cascadable System**.

SBK 131309 NF, SMK 13089 FA, SMK 13089 F, SMK 13129 FA, SMK 13129 F, SMK 13169 FA, SMK 13169 F

The new Light-Class

Up to 16 subscribers can be supplied with that new SPAUN Light-Class. Those compact multiswitches have 4 SAT-IF-inputs for Quattro LNBs and one passive terrestrial input, which is also useable for DVB-T. A high signal level at the subscriber outputs optimizes the receipt even with longer cable runs.

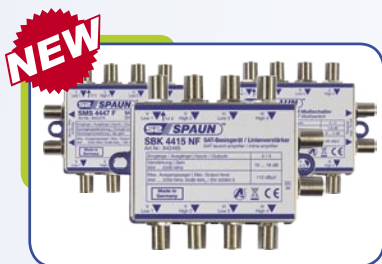
An integrated energy-saving switching power supply ensures low operating costs. The Light-Class is offered with a particularly attractive cost-performance ratio with 8, 12 or 16 subscriber outputs. Further information are available in the brochure **Light-Class**.

SMS 5807 NF, SMS 51207 NF, SMS 51607 NF



SPAUN Mini

The SPAUN Mini series covers two cascable multiswitches for 4 SAT IF levels, as well as a SAT power launch amplifier which can be used also as line amplifier. All devices have small dimensions in the format of a cigarette packet. As no power connection is needed for the multiswitches, this series is particularly well adequate for floor distribution. If necessary the amplifier SBK 4415 NF can be integrated into the system.



The supply of the amplifier is made by a wall power supply. Further information are available in the brochure **SPAUN Mini**.

SBK 4415 NF, SMS 4447 F, SMS 4447/8 F

CATV Amplifier

At ANGA Cable 2009 our proven product program is extended by the CATV Amplifier HNV 32/65 DPE with digital level adjuster and equalizer, which is developed according to KDG guidelines. By the use of switching power supplies „Made by SPAUN“ the energy efficiency and longevity could be improved again. Further information are available in the brochure **CATV Amplifier**.



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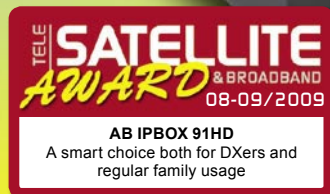
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AB IPBox 91HD

Modern powerful Linux-based HD PVR doesn't have to be expensive

We are living in hard times. It just happened that worldwide economic crisis hit us right in the middle of HDTV boom. Everybody starts to save on all possible things. HDTV might seem luxury under such circumstances. Would it mean that the bird that flew so high lately would have its wings cut? Not at all! ABCom, the Slovakian expert in Linux-based receiver manufacturing, offers a great anti-crisis solution. Just because the income now is less than it used to be, picture quality is something that doesn't have to suffer. We got a chance to test their latest add-on to the HD receiver line, the AB IPBox 91HD. Having pleasant memories about ABCom's top receiver models, we were excited to see what the budget member of the family is going to be like.



After opening the package that arrived to our test lab we first thought - is there a mistake? We already tested ABCom's 250 and 350 Prime, and the new box's front panel looked exactly the same. But after a more careful look the curious eye is caught by HD and HDMI abbreviations on the receiver, meaning that we have something brand new in our hands!

Front panel really gives a déjà-vu feeling with its seven buttons in the middle of it (Menu, Exit, OK, Left, Right, Up and Down), as well as a horseshoe-shaped Standby button on the left side. The smartcard reader

on the right is there to make the pay-tv fans happy. And last but not least the four-symbol segment display in case you would be interested in the channel number currently on or other service information.

Rear panel might seem a little ascetic at first. But what do we actually need nowadays for HDTV reception? An HDMI output? You got it. S/PDIF audio output for a perfect sound? Here it is. Of course, the whole thing would not work without a satellite signal, so we have here an LNB input with a loop-through output. Multimedia features and

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Available online starting from 31 July 2009

PVR? USB interface is right where you expect it to be. Oh, you still wouldn't like to completely forget about Standard Resolution SDTV? Ok, there is a single SCART output, rather for backwards compatibility. But don't forget to connect the thing to your home network, since

AB IPBox 91HD is a Linux-based receiver, and you would miss a lot of fun if you don't. Because of its power, 91HD needs to be adequately cooled, that's why we again have here a cooling fan. Luckily much more quiet than in our previously tested 910HD sample, but, unfortunately, still clearly audible.

With the remote control almost all features of the box can be easily addressed with, but it would have been nice to keep the possibility to control a TV-set with it (as in all previously tested ABCom models), as well as



ab-com

the button giving direct one-click access to PVR recordings. Except for that it can be positively characterised: it became lighter and all its buttons are easily reachable with just one finger. 91HD's user manual keeps up with good traditions. You can hardly wish for a more detailed explanation of all receiver's basic features. There are some interesting tips there as well, if you would like to go beyond simple satellite reception. Even a newbie would hardly get lost. The package also contains a CD with a lot of goodies for your receiver, including programs for a software upgrade, channel editing and so on. It's no longer a need to hunt for them on various websites.

Installation

Once 91HD is powered up for the very first time, the user lands in an Installation Wizard that doesn't differ much from the one in top ABCom HD models. Actually, its software is as good as with its older brothers, but first let's set the preferred languages on the welcome screen.

On-screen menu can be displayed in English, Russian, French, Italian, Dutch, German, Danish, Slovak, Czech, Hungarian, Norwegian, Polish, Portuguese, Spanish, Swedish, Greek, Turkish, Korean, Croatian, Bosnian, Serbian, Bulgarian, Romanian, Finnish or Ukrainian. The same choice you get here for the preferred audio language as well as teletext character set. Next step lets you select your time zone, daylight savings options and if you would like to set the current time manually or rather let the receiver update it automatically from the satellite stream.

Third step brings us closer to the satellite-related stuff. First you have to add receivable satellites by pressing the red button. LOF frequencies can be freely entered, as well as endless DiSEqC options selected, since the receiver supports all versions of this protocol, from 1.0, 1.1, 1.2 to USALS. Once all work here is done, you're only one yellow-button-click away from channel search.

Actually, ABCom prepared some surprises for us here. For example, you can now select from Default Scan, Smart Scan and Reset Scan. They might not be significant during the installation process, but might save you a lot of headaches later on. The first one just scans the satellite, adding new channels in the end of the main list. Smart Scan completely resets the main list, keeping the favorite one, scans the satellite, then updates your favorite list with actual channel parameters. Pretty convenient! And the last one, Reset Scan, just removes all the channel data from all lists, and initiates the search.

Hardcore DXers would be happy with 91HD's DVB-S/S2 tuner sensitivity, and also by its SCPC performance. Our SCPC test channel of the day - Jamawar from EURO-BIRD 2, with SR of just 1780, was processed flawlessly!

But while we are still at the installation stage, it would rather make sense to decide how fast you'd like to see the first picture on your TV screen. If you would rather prefer a more up-to-date channel list, run the regular channel search, which, for an 86-transponder satellite position in our test, was completed in 5 minutes



HD reception with bitrate details



Shoutcast radio reception directly from the Internet



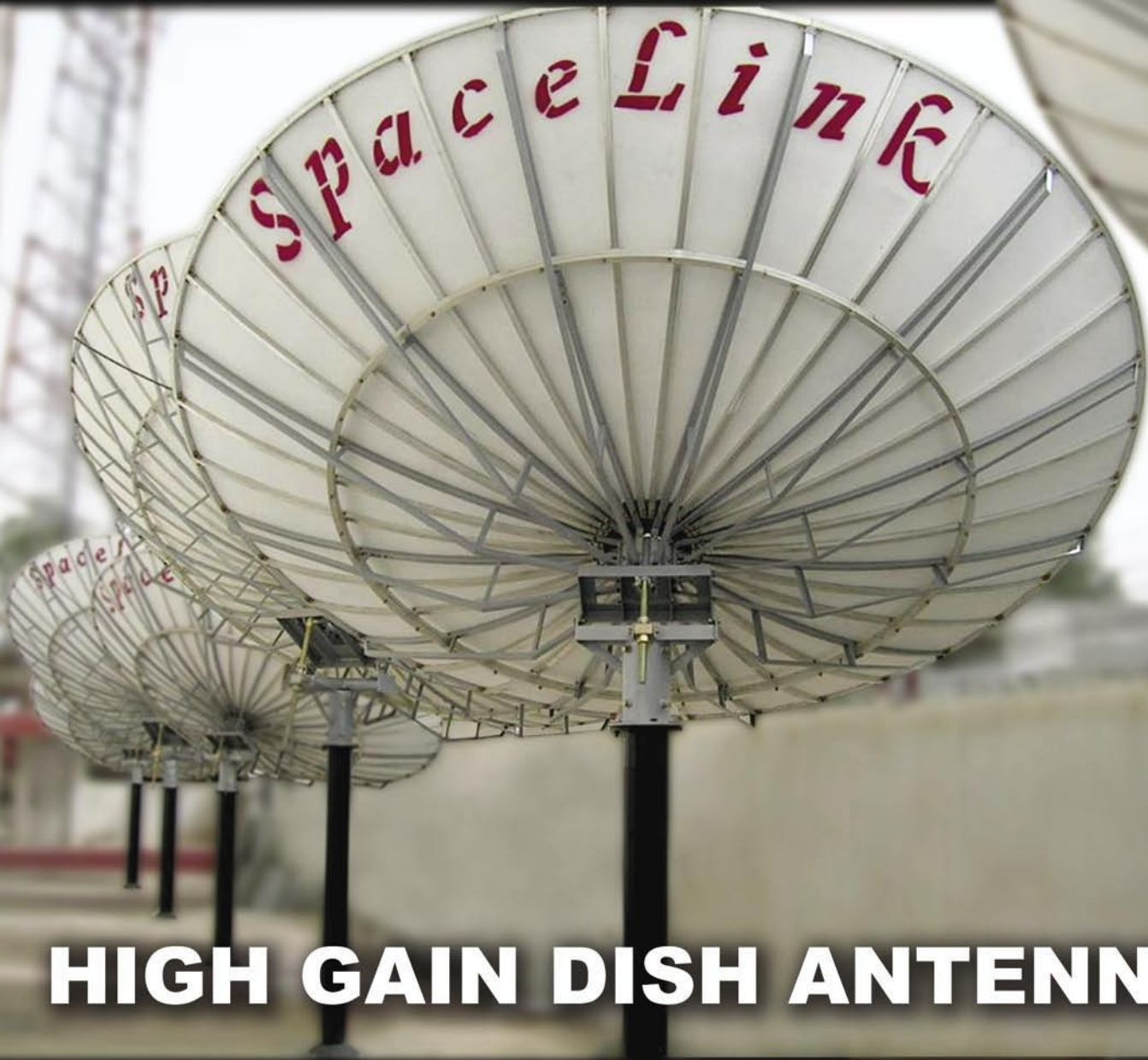
Weather plugin



Manual channel search in DVB-S2

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46 seconds (significantly faster than before!), resulting in 1188 TV and 217 Radio channels. However, if you find even that too long, press the green button for a "Quick Load". Live picture and sound would hit your screen within seconds!

Everyday use

The menu system and end-user functionality of 91HD is almost equal to 900HD or 910HD, just set aside a bit by some minor hardware limitations. The channel list is still feature-loaded, allowing one-click sorting by alphabet, FTA/encrypted, provider or satellite. If the alphabet sorting is on, it's easy to select the first letter of the channel you're interested in, just select it on the remote in a way you would do on your mobile phone when typing an SMS.

Pressing the yellow button allows you to jump right to the next letter if something went wrong. Pressing "i" and entering the password (0000 by default) gives access to deleting,

hiding, locking, renaming and moving the channels, as well as to our all-time fave - adjusting the default audio volume for channels. Pressing the "FAV" button toggles to favorite-list mode, the same "Sports", "Drama", "News", "Movie" and "Music" default groups are pre-programmed, the user is free to add as many new ones as he wishes.

Adding new channels to favorite lists takes place in a convenient window with two panels, just copy the needed ones from left to right and voila, you have all the channels you like in one place, without the need to search for them again and again in the main list. And remember, if you choose "Smart Scan" next time you'd like to search for new channels, your favorite lists will not be lost!

If you press the same "i" button once outside of the channel list, it will bring the good old infobar, showing channel number, name, satellite, current time, availability of teletext, broad-

casting format as well as SD/HD resolution. Bottom right corner contains information about the transponder frequency and SR. Second click brings up a bigger window, with a provider name, used encryption systems list and a possibility to set recording by PVR or if you have the timeshifting mode turned on.

In case of 91HD, we can only connect the hard disk to the USB port on the rear panel of the receiver. At first this raised questions here in the test lab if it would be sufficient for HD recording, however, numerous tests didn't raise any further concerns. The perfect HD picture we had during the regular reception was replayed from the HDD without any dropouts or glitches.

It's easy to start recording, easy to stop it, but, unfortunately, not as easy to get back to it when it's needed. The user first has to go to the main menu, choose "Multimedia", then

"Recorded Files". In two previous models of ABCom HD receivers this window could be reached by pressing one single button on the remote control. Except for this inconvenience, PVR is as good as before. Recording can be either started by clicking the "red circle" button on the remote control, either by selecting the needed show in EPG, either by accessing a special "Recording Schedule" submenu. No matter if it's in SD or in HD, the main match of the year will no longer be missed, even if you have lots of urgent work to do!

EPG in 91HD is also realized in good old two-variant way. Pressing "EPG" button once brings up a list of the upcoming events for the currently selected channel, second click opens a real program guide - you will see a big grid with event titles from current and neighbouring channels. The schedule can be zoomed in and out, and is only limited by amount of information the broadcaster is willing to share.

If it just happens that you



can't pick a show fitting for your current mood, probably it's the right time to discover the rich amount of goodies 91HD has, that are not directly connected with satellite reception. Since this is a Linux-based system, various plug-ins can be installed, allowing you to play tetris, sudoku or pingpong, check e-mails or weather forecasts. Remember we advised you to use the wonderful LAN socket and connect the receiver to your home network or directly to Internet? Here it really starts to make sense, because if the broadcaster was not accurate enough to properly add the information to the EPG, a special plug-in would look for the needed schedules on the Internet.

Or, what was really great to discover, now it's possible to listen to Internet shout-cast radio stations right on the receiver! Forget about remaining in silence if the bad weather made satellite reception impossible for some time! And these are just the ones included in the official firmware, there are lots and lots of other plugins,

it's just enough to google around, and your receiver's functionality will go beyond your imagination!

Multimedia features

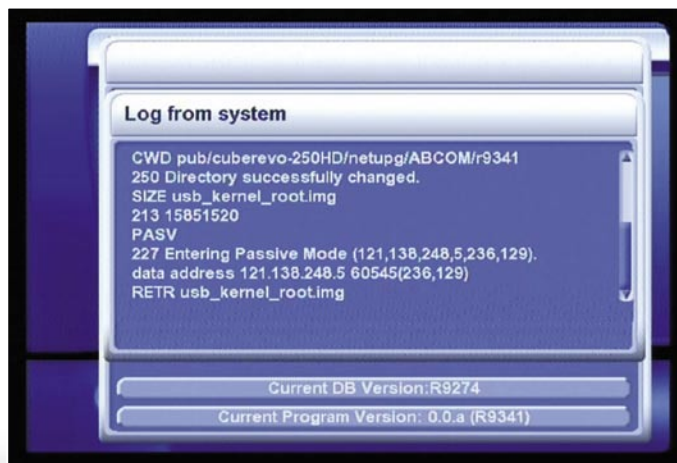
Even if Internet is inaccessible from the receiver, you can still view photos, play MP3s or movies from your HDD. While testing the 910HD we noticed that sometimes audio and video were not perfectly synchronized; this problem was solved quite elegantly in latest firmware versions, also for 91HD.

If you start playing your



Transponder editing |

favorite film and notice the lack of synchronization, just press "Channel Up" or "Channel Down" arrows to make the audio appear earlier or later. The step is 100



Firmware upgrade via Internet |



001318 02AC75
DGHRFFS SIFM0913

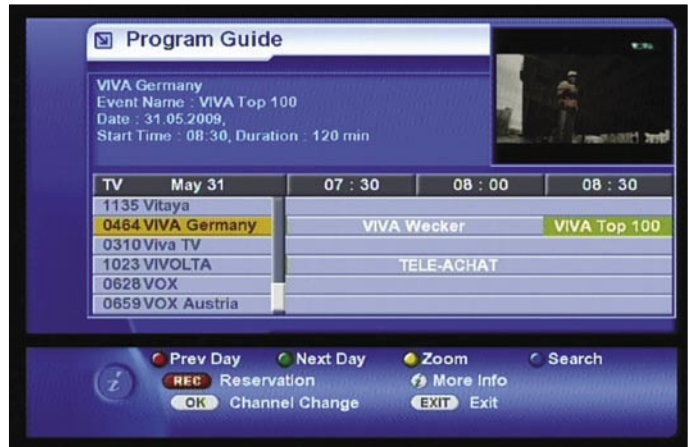
TV

AC POWER
AC 180V~
50/60Hz 10W

High Definition
Digital Receiver



HD reception with bitrate details |



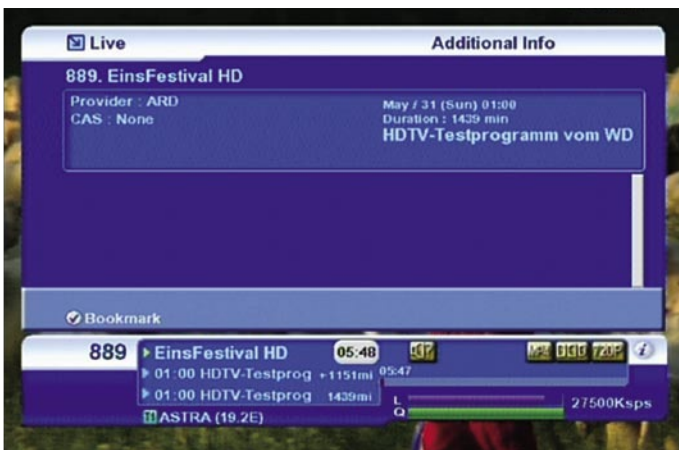
EPG in Program Guide mode |



PVR Timeshift options |



EPG in one-channel mode |



Additional channel info window |



Adjusting default audio volume in Channel List |

ms, so after a few click you would get a perfect match. The only drawback is that if you pause or fast-forward the video, the selection is lost, and you would have to set it again. This hopefully should be easy to fix for the manufacturer.

Firmware upgrade

We can also underline some serious improvements here. The convinient Internet update is up and running again and is offering the most actual version (9341 at the moment this report was written). If for whatever reason you prefer not to use the direct Internet update, the USB one also became much more convinient. No more endless rebooting, just go to Main Menu - Advanced Setup - USB Mode, plug in the USB stick with a firmware file you'd like to use, and voila

- within seconds it will be copied to receiver's memory and installed.

If your budget is tight during crisis, it doesn't mean that you have to forget about HD reception and all the wonderful features brought by Linux-based receivers. ABCom introduced its 91HD just in time, it's offered at almost unbeatable price for picture quality and range of options it delivers. DVB-S, DVB-S2, MPEG-2 and MPEG-4 are perfectly received and recorded, your own media files are easily played back, even listening to Internet shoutcast stations no longer requires a computer. The firmware is frequently updated with new goodies, and there are hundreds of add-ons available for you to install. Looks like 91HD is worth every penny paid for it.

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Expert Opinion

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Almost unbeatable value for its price ! 91HD kept almost all goodies from ABCOM high-end Linux-based HD receivers. Perfect picture and sound, convenient menu structure and EPG, various multimedia options and a wide range of available addons. Sensitive DVB-S/S2 tuner with flawless SCPC reception. A smart choice both for DXers and regular family usage.



Nickolas
Ovsyadovskiy
TELE-satellite
Test Center
Hungary

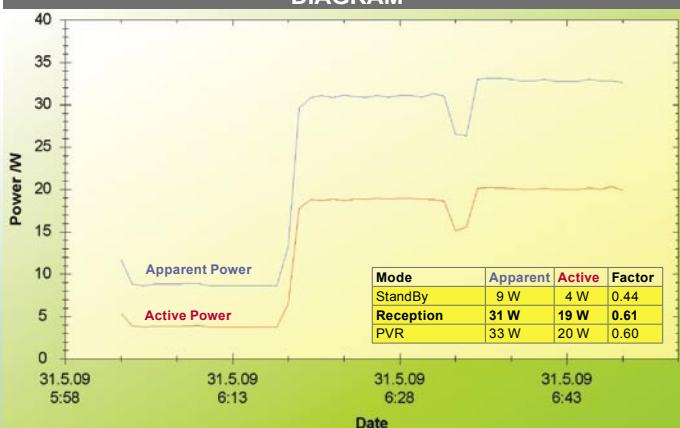
-

Although it can be understandable for a budget model, some things were left out that it would have been nice to keep, like E-SATA port for the HDD connection or the remote-control button for direct access to PVR recordings.

TECHNIC DATA

Manufacturer	ABCom s.r.o., Gogolova 1, 95501 Topolcany, Slovakia
Tel	+421-38-5362-611
Fax	+421-38-5322-027
E-Mail	info@abcom.sk
Model	IPBox 91HD
Function	Digital Linux-based HDTV PVR receiver
Channel memory	10000
Symbol rate	1~45 Ms/sec.
SCPC	yes
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
USALS	yes
Scart	1
HDMI	yes
RCA output	no
YUV output	no
UHF output	no
S-Video output	no
0/12 Volt connection	no
Dig. Audio connection	yes
Ethernet port	yes
USB 2.0 port	yes
RS232 interface	no
EPG	yes
C/Ku band compatible	yes
Power supply	180-245 VAC, 50/60 Hz
Power consumption	30W (according to manufacturer)
Dimension	300x60x240mm

ENERGY DIAGRAM



First 15 minutes standby, next 15 minutes regular TV viewing, then again shortly to standby, after that 15 minutes PVR recording with external HDD with its own power supply.



Adding channels to Favorite lists |



Synchronizing audio and video in DivX playback |



Satellite options |



SCPC reception with SR of just 1780 Ksps |



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TeVii DVB-S/S2 PCI-E Card S470 Add Digital TV Reception to Your PC



In the past several years one development in particular has become more and more popular: the incorporation of digital receivers in a PC and of course the digital receivers with built-in PC's.

We are keeping an eye out on the development of set-top boxes that, in addition to the normal function of receiving digital TV and radio content via satellite, can also connect to the Internet so that video clips or IPTV can be played back. These home multimedia powerhouses would also be able to display your pictures, play back music and even allow you to play games.

At the same time, more and more homes are warming up to the idea of PC reception. There are a number of reasons for this: receiving satellite TV through a PC is less expensive than with a stand-alone set-top box, recording digital content can take place directly on the hard drive of the PC – this saves the user time when burning a DVD in that the data doesn't first have to be transferred over to a PC. Then there are those households that despite having an LCD monitor that they use with their PC's, they still have an older TV that is used for normal TV viewing. And since watching HDTV programming without a high resolution LCD or plasma TV makes no sense, this content is also viewed through a PC.

the motherboard via a PCI-E slot. This is a modification of the well-known PCI slot in that much higher transmission speeds are now possible; perfect for HDTV reception. PCI-E slots come in two different heights, and TeVii even provides the S470 with both brackets: the standard one for regular PCs and the low profile bracket, which is ideally suited for the new slim PCs.

We began by installing the card in a typical PC. For us this turned out to be an older Pentium IV 3 GHz PC with 1GB RAM. According to the manufacturer, the minimum PC requirements are a 2 GHz CPU for SDTV or 2.4 GHz for HDTV, 512 MB RAM for SDTV and 1GB for HDTV as well as a graphics card with 128 MB of memory. Our test PC falls just within these requirements. Naturally, the TeVii card supports the Windows XP and Vista as well as Linux operating systems. The MyTeVii software is only compatible with Windows; Linux users must find suitable alternatives in the Internet. We were happy to see that TeVii included 64-bit drivers for Windows.

The Taiwanese company TeVii recognized this trend a long time ago and has strengthened their development of TV and radio reception solutions for PC's. This wouldn't be the first time that TELE-satellite introduced a TeVii product; one of these was the TeVii S650 USB box.

This time it's the new S470 PC Card. This new model is not connected externally; instead it is linked directly to

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Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-0909/bid/tevii.pdf
Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0909/bul/tevii.pdf
Czech	Česky	www.TELE-satellite.com/TELE-satellite-0909/ces/tevii.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-0909/deu/tevii.pdf
English	English	www.TELE-satellite.com/TELE-satellite-0909/eng/tevii.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-0909/esp/tevii.pdf
Farsi	فارسی	www.TELE-satellite.com/TELE-satellite-0909/far/tevii.pdf
French	Français	www.TELE-satellite.com/TELE-satellite-0909/fra/tevii.pdf
Greek	Ελληνικά	www.TELE-satellite.com/TELE-satellite-0909/hel/tevii.pdf
Croatian	Hrvatski	www.TELE-satellite.com/TELE-satellite-0909/hrv/tevii.pdf
Italian	Italiano	www.TELE-satellite.com/TELE-satellite-0909/ita/tevii.pdf
Hungarian	Magyar	www.TELE-satellite.com/TELE-satellite-0909/mag/tevii.pdf
Mandarin	中文	www.TELE-satellite.com/TELE-satellite-0909/man/tevii.pdf
Dutch	Nederlands	www.TELE-satellite.com/TELE-satellite-0909/ned/tevii.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-0909/pol/tevii.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-0909/por/tevii.pdf
Romanian	Românesc	www.TELE-satellite.com/TELE-satellite-0909/rom/tevii.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-0909/rus/tevii.pdf
Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0909/sve/tevii.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0909/tur/tevii.pdf

Available online starting from 31 July 2009

TEVii



TELE SATELLITE
AWARD & BROADBAND
 08-09/2009

**TEVii DVB-S/S2
 PCI-E CARD S470**
 An elegant solution for normal
 and HDTV reception on a PC

Alternative Reception Software for the TeVii S470:

ProgDVB
DVBViewer
DVBdream
WatchTVPro
SmartDVB
TSReader
SkyGrabber
Tuner4PC

www.progdvb.com
www.dvbviewer.com
www.dvbdream.org
www.watchtvp-pro-experience.de
www.smartdmb.net
www.tsreader.com
www.skygrabber.com
www.tuner4pc.com



Main MyTeVii window with all channels |



Main MyTeVii window - Channel list sorted by transponder |



Perfect SCPC reception of TÜRSAT at 42° east |



Even ProgDVB works perfectly with the TeVii card |

our test PC this meant installing the card in an available PCI-E slot and then putting the cover back on the PC.

We quickly connected a satellite cable from one of our signal distributors to the IF input on the card and last but not least connected the IR receiver. Now it was time to play. After turning on the PC, Windows XP immediately found the new hardware. Instead of letting Windows search for matching drivers, the installation CD was inserted into the appropriate drive. The installation assistant appeared and began installing the necessary drivers as well as the MyTeVii software.

At this point it is also possible to select whether just the drivers and MyTeVii software should be installed or if the TeViiData program should also be installed. This program permits the use of Internet via satellite services but more on that later. After clicking the OK button it takes only a few seconds before all of the required data has found its way to our test PC. If for any reason you don't happen to like the TeVii software, a demo version of ProgDVB can also be found on the installation CD. We will have more on this program and other alternative programs a little later.

The included remote control sits very nicely in your hands, is clearly labeled and left us with a very favorable impression in terms of its workmanship.

Software Setup

When the TeVii software is started for the first time, it initially greets the user with a blank screen. A preprogrammed channel list isn't activated nor does the software ask the user to perform a channel scan. Considering that the TeVii S470 is being distributed around the world and that a preprogrammed channel list would probably not make sense anyway, it would have been nice if the user was directed to an automatic or manual channel scan.

The TeVii developed user interface provided us with a very clean and organized impression. On the right side are the channel list and available satellites; the currently selected channel is displayed to the left. An EPG bar at the bottom of the display window provides information on the currently running program. The size of the playback window can be adjusted to your liking; the TV picture can also be viewed in full-screen mode.

Clicking the right mouse button opens the Options menu giving the user access



Alternative Software WatchTVPro Experience |

TELEMANN

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

Digital Satellite Analyzer HD 1680S2

SPECTRUM ANALYZER with ROTATOR CONTROL

Convenient & quick searching by Project name setting

I/Q Constellation Diagram (HD Level 8PSK)

Pre-BER, Post-BER, SNR & MER measurement

Blind scan for DVB-S, DVB-S2, DSS & TP list

Easy upload & download new satellite file list

Data Logger with USB port

Spectrum Analyzer

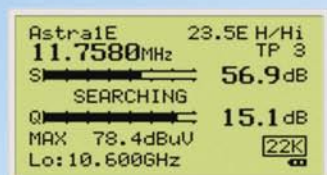
Accurate level measurement

Peak level detection : CODE, LEVEL, OFF

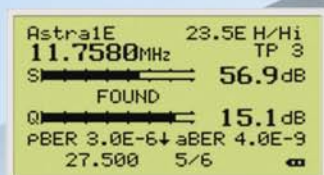
DiSEqC 1.0/1.1/1.2(Rotator) supporting

Easy portable & lightweight type

Li-Poly Battery (7.4V 3800mA)



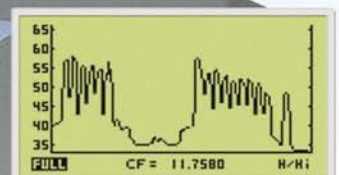
Satellite signal measurement
(Analog / Digital)



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



I/Q Constellation Diagram
(QPSK / 8PSK)



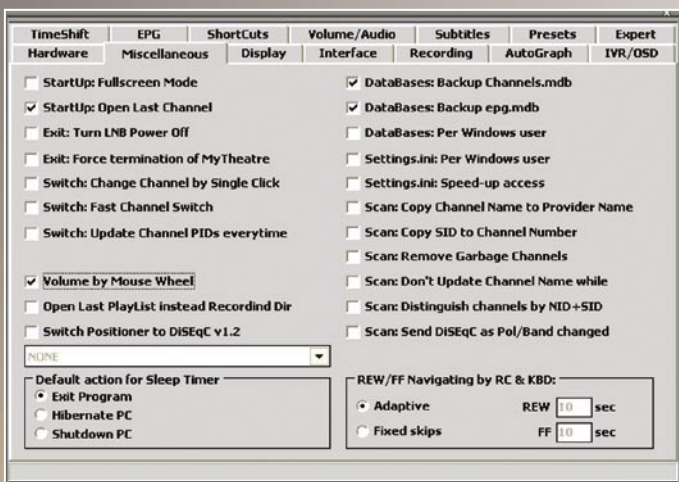
Spectrum analyzer
(with Rotator control)

TELEMANN
<http://www.telemannco.com>

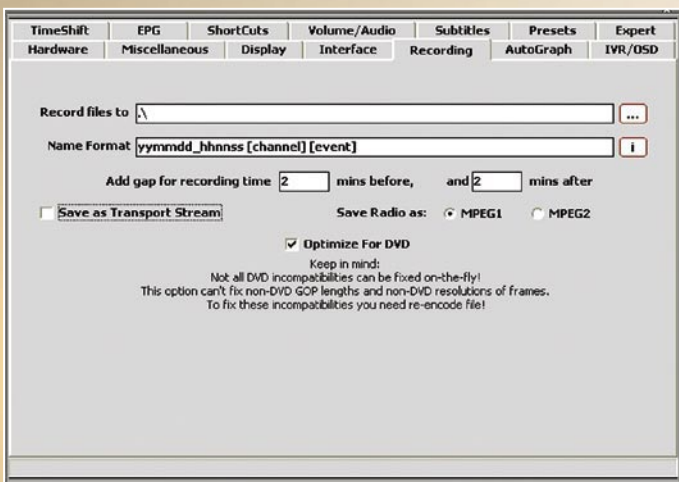
C-601, Daewoo-technopark, 187-7, Dodang-dong, Wonmi-gu,
Bucheon-si, Gyeonggi-do, Korea
Tel. 82 32 678 8566, Fax. 82 32 678 8568
E-mail. info@telemannco.com



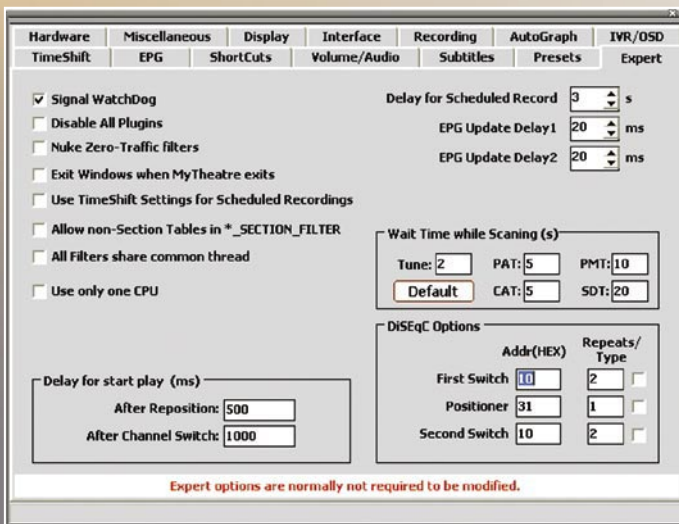
A preprogrammed list of 177 satellites at your fingertips |



Various system settings let you match the MyTeVii software to your needs |



Recording Settings |



Settings for the Professionals |

to all of the necessary settings. The TeVii software itself is very international; it can communicate with the user in a variety of languages: English, French, German, Arabic, Chinese, Finnish, Italian, Polish, Russian, Spanish and Swedish. With this many choices, no one should have any problems finding a matching language.

The settings menu comes with a variety of options and settings possibilities. Nearly every aspect of the software can be matched to the users requirements, such as, how content is displayed, the storing and operation of the channel lists, the control of LNBs, the use of multiple monitors, setting up recordings and time shifting, the video and audio Codec's, the IR receiver, the parameters for the EPG display and last but not least an Expert menu that provides access to the basic parameters of the software. Despite all of these settings possibilities, the Main menu has remained clear and easy to understand. TeVii accomplished this thanks to the window architecture that is part of MS Windows. It would not be possible to clearly present so many settings in a standard set top box. Once all of the needed settings are taken care of, the TeVii card must then become acquainted with the antenna system with which it will be used.

Since the card works with all the different DiSEqC protocols, it can be used with a typical multifeed antenna (DiSEqC 1.0), a Wavefrontier antenna with up to 16 LNBs (DiSEqC 1.1) as well as a motorized system (DiSEqC 1.2 and USALS) without any problems. The S470 comes with a large selection of pre-programmed satellites that includes 170 American, European and Asian satellites. It's not very often that we see

a receiver that comes with so many satellites to choose from that are also for the most part very up to date. Thanks to the easy to understand OSD structure it is quite easy to match the necessary parameters (DiSEqC, LOF, etc.) to each individual satellite. It's also just as easy with just a few mouse clicks to access, delete or edit transponders. The same holds true for the satellite settings.

To make sure that the signal from the LNB can be processed correctly, it is necessary to provide the correct local oscillator frequency (LOF) and switching point between low and high band. The MyTeVii software comes preprogrammed with a number of LOF values for the Ku-band and C-band and if you happen to be using an LNB with a non-standard LOF, it can simply be entered in manually. When all the parameters from your antenna system have been entered, the next step takes you to a channel scan. At this point you can perform a manual transponder scan or let the TeVii S470 handle all of the scanning work automatically.

Since the S470 is a PC solution, the size of the channel memory is for all practical purposes unlimited and almost begs to be filled with channel data. The card is both DVB-S and DVB-S2 compatible and therefore, in addition to QPSK modulation in DVB-S, it also supports 8PSK in DVB-S2. The "Auto" setting switches between the two by itself. An automatic scan of HOTBIRD at 13° east was completed in just a little over six minutes in our tests. Not bad at all considering this is a PC solution. The TeVii card also gallantly passed one of our toughest tests with the horizontal transponders on NILESAT at 7° west. The S470

also performed perfectly with our SCPC test; it was able to process the narrow band signals on TÜRKSAT 42° east without any difficulties.

Everyday Use

Thanks to the extremely fast data connection through the PCI-E bus, the S470 can switch between channels very quickly; it makes channel surfing a lot of fun. It doesn't matter if you're switching between HD channels or SD channels or if you're switching from HD to SD or vice versa, the switching time is just a little over one second. This is actually quite good considering this is a PC solution and it even leaves some set top boxes in the dust. When in Windows mode, the software, if desired, blends in EPG information on the current program at the bottom of the display.

It is also possible to make this EPG information as well as channel data visible on the on-screen display. This is especially practical when the PC monitor is being used in full-screen mode as a TV and the TeVii software is being controlled from the couch via the remote control. The perfect design of the TeVii soft-

ware is only further confirmed in the channel list. It can be sorted and modified a number of ways so that, for example, channels can be grouped by package, transponder or satellite or Favorites lists can be filled with channels that you watch more often. Unwanted channels can be marked and deleted with just a single click. Adult channels can be locked out with a PIN code so that kids can't accidentally stumble on those channels.

It is quite practical that the editing of the entire channel list takes place directly in the MyTeVii software window thus making any changes immediately visible. In addition to the playback of live TV, the S470 naturally also comes with recording and time shift functions. For one thing, recordings can be manually started. They can also be started at a specific time through the EPG or programmed manually. Thanks to the time shift function, you won't miss any of the action in that movie you're watching should the telephone ring. The movie is simply paused and when you've had enough of talking with your favorite Aunt, you can pick up watching that movie where you left off.

The TeVii software can store recordings as a transport stream or in MPEG compatible format so that it can be played back with any video player. The EPG was designed with clarity and simplicity in mind. It displays all of the information provided by a broadcaster in an easy-to read and logically sorted format. Ideally, this would let you see programming information up to seven days in advance with data on each individual program such as content, provider, etc.

For the most part, the TeVii software appears to be perfect, but TeVii kept in mind that good can always be made better. For this reason the engineers included a plug-in interface that with the help of the software will let you add a variety of extra features.

How much of a load does this card put on the processor?

A big question is this: if you plan to do other work with your PC while the TeVii software is playing back video, how much does this TV reception affect the running of other programs? In SD mode, a PC with half way decent hardware will have no problems at all. But with HDTV the outlook is different. If it involves HDTV in 720p format, our older Intel Pentium IV did not have any problems and was able to produce an interference-free picture with a processor load of about 75%.

But in 1080i mode, video dropouts were the norm and the CPU load climbed to nearly 100%. At the same time, doing other work on the PC was not really possible while TV playback was in operation. We therefore decided to test the card in a more modern PC (Intel Core2Duo). The

result was as expected: the card was able to realize its full potential and played back HDTV in 1080i format without any problems at all. With that in mind, we want to make it clear that the manufacturer's hardware requirements for HD reception are really the minimum requirements.

If you are more experienced in handling your software settings and if your video card supports H264 acceleration, then TeVii has some tricks on hand, how to bring down processor load significantly. This is what's needed to do: Go to main menu: Settings, Directshow Filters, Cyberlink, Video and in the properties mark "Use Hardware Accelerator" or "DXVA" (depending on your system). Apply the changes and go to the main settings menu of MyTeVii, go to Autograph and proceed like this: If you are using Vista or Windows 7 choose "Enhanced Video Renderer". If you are using XP choose Video Mixing Renderer 7. That's all, close settings windows, and restart MyTeVii. Note that the enhanced Video Renderer is not compatible with the IVR mode and thus will work only in simple mode, this means no OSD.

Alternative Software

The only feature that was missing from the TeVii S470 PCI-E card was a CI slot. For you, the end user, this means that PayTV reception is not possible. However, there are two solutions to this! You may wait till 3rd Quarter 2009 and TeVii will introduce the S475, which is a DVB-S2 low profile PCI-E card with CI daughter board. It will feature a CAN tuner with a loop through. The other possibility is software. There are quite a few TV viewers available that work well with the TeVii S470,



the most popular and most widely used of these would of course be ProgDVB. Obviously, ProgDVB can't magically pull a CI slot out of a hat, but it is possible to access another receiver through card sharing using a valid SmartCard. It could work like this: you have a valid PayTV subscription card that is inserted in a receiver in your living room. You set up your PC in such a way that it has access to this receiver through a network connection. With the proper plug-ins, this will let you access the SmartCard in your receiver with the TeVii S470 and thereby share that SmartCard with your living room receiver and the TeVii card.

ProgDVB isn't the only one out there. There are a number of other programs that together with the S470 will provide you with TV reception. Refer to Table 1 for the necessary links. In meantime, the new MyTeVii 4.xx software, which was not yet available at time of this test, will also support all kind of plugins including softcams, card sharing and so on. We also don't want to forget the radio lovers out there. The TeVii S470 is not just for TV reception; it naturally can also be used for top-quality satellite radio reception. And just like TV channels, radio channels can also be recorded and digitally stored.

TeViiData

TeVii doesn't only specialize in satellite TV and radio reception products; there's also a completely different application. The magical phrase here is Internet via Satellite. The technology behind this is quite simple: the user sets up a connection via modem or ISDN. The speed of this connection can be a mere 56kbps but it only plays a very small role. If the user surfs the Inter-

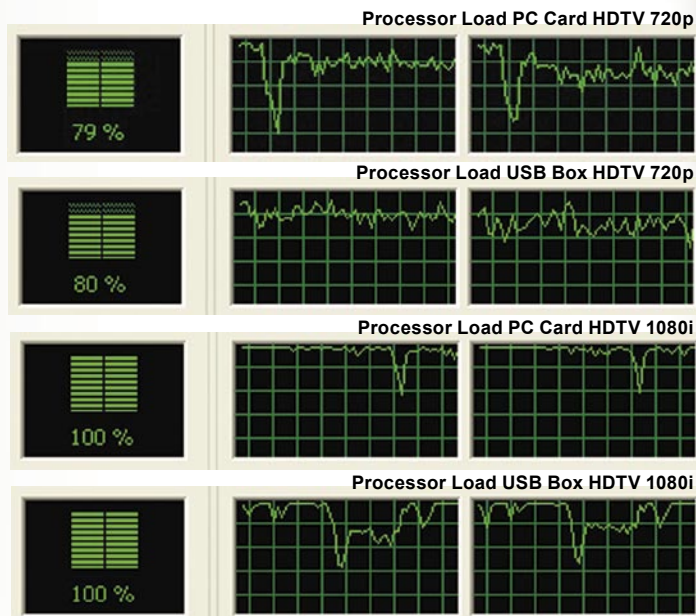
net or starts a download, the request is sent via modem to the Internet via Satellite provider which then retrieves the data via a high-speed connection and routes it to a satellite. The customer at the other end only sends the information request via modem to his provider; the information he needs is sent back to him at high speed via satellite.

The only drawback is that every person that can receive the same satellite can also receive the data you requested. Yes, the data is encrypted and only meant for you to receive but there is software available that will bypass this encryption so that the data can be seen by others as well. In our tests, data reception using the TeVii software functioned flawlessly. We didn't expect anything else.

What's better? PCI-E Card or USB Box?

Unlike the S470 PCI-E card, the TeVii's S650 is externally connected to a PC via USB 2.0 and powered by an external power supply. We were interested to find out which of these versions would be better for the end user. To this end we checked the processor load on our Intel Pentium IV PC in SDTV mode as well as in HDTV (720p and 1080i) mode. We discovered that both the USB version and PCI-E version placed about the same load on the PC.

As you can see in the processor load screen shots, both values are in the same range. The variations that can be seen are due to smaller changes in the video (the same scene shown for a longer period of time) resulting in less of a load on the processor. For the end user the choice ultimately comes



down to personal taste. The USB box is clearly more flexible and can also be used on camping trips together with a laptop. The PCI-E version has

the advantage that it doesn't need an external power supply and doesn't have an external box that takes up valuable space on your desk.

Expert Opinion



The TeVii S470 PCI-E card is an excellent solution for receiving SDTV and HDTV via satellite on your PC. The included MyTeVii software is very easy to use and functioned perfectly during our tests.

Thanks to the plug-in interface it can easily be enhanced and at the same time the S470 can be used with alternative reception software. With the help of the proper Codec's, feeds in MPEG 4:2:2 format can also be received. This should make DXer's especially happy.

Another plus is TeVii's constant work in improving their products, especially the MyTeVii software.

Updates can be downloaded directly from the manufacturer's web site at no charge.



Processor load can only be brought down by experienced computer users

TECHNIC

DATA

Manufacturer	TeVii Technology Ltd. Taiwan
Email Sales	patricia@TeVii.com
Email Support	peterson@TeVii.com
Model	S470
Function	PCI-E card for TV reception on the PC in SDTV and HDTV
Channel memory	unlimited
Satellites	177
Symbol rates	2-45 Ms/sec.
SCPC compatible	yes (tested > 2.2 MS/s)
USALS	yes
DISEqC	1.0, 1.1, 1.2, 1.3
EPG	yes
C/Ku-Band compatible	yes

Something new is happening at Sea Tel®



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Ultra-small 60cm
broadband.

NEW! 2406.
Commercial quality
60cm broadband.

NEW! ST14.
New design.
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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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SPAUN SPAROS 609

Who could ask for more?

Digital TV receivers get more and more versatile and complex. The same is true for signal analyzers. Once you think that the newest signal analyzer has everything you can ever need, another model hits the market and suddenly you discover that it has something the older model did not have. When it comes to adding new functions and making the instrument more useful – sky is the limit. That was exactly the case with SPAROS 609 of SPAUN.

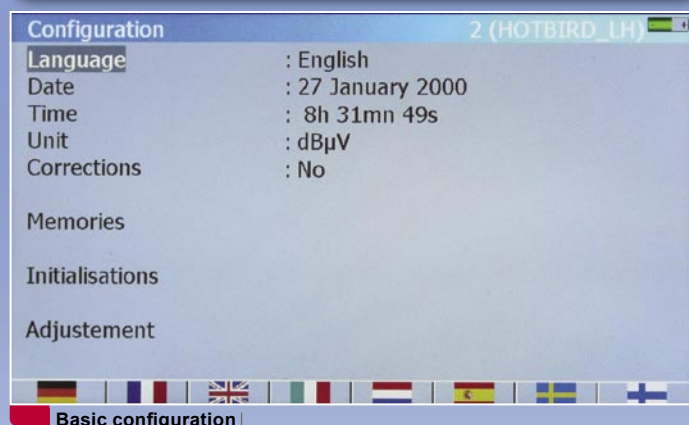
TELE-satellite World

www.TELE-satellite.com/...

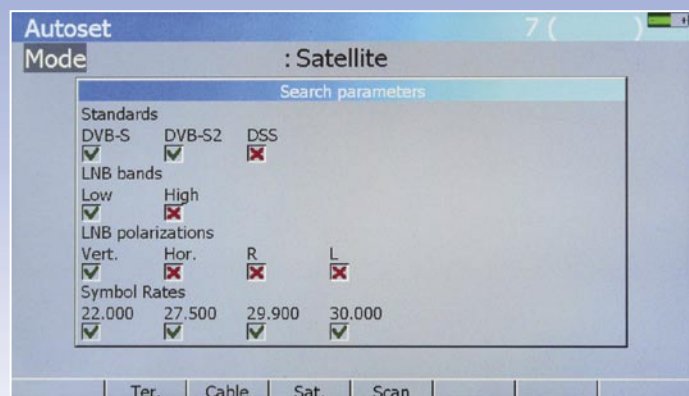
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Czech	Česky	www.TELE-satellite.com/TELE-satellite-0909/ces/spaun.pdf
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Spanish	Español	www.TELE-satellite.com/TELE-satellite-0909/esp/spaun.pdf
Farsi	فارسی	www.TELE-satellite.com/TELE-satellite-0909/far/spaun.pdf
French	Français	www.TELE-satellite.com/TELE-satellite-0909/fra/spaun.pdf
Greek	Ελληνικά	www.TELE-satellite.com/TELE-satellite-0909/hel/spaun.pdf
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Italian	Italiano	www.TELE-satellite.com/TELE-satellite-0909/ita/spaun.pdf
Hungarian	Magyar	www.TELE-satellite.com/TELE-satellite-0909/mag/spaun.pdf
Mandarin	中文	www.TELE-satellite.com/TELE-satellite-0909/man/spaun.pdf
Dutch	Nederlands	www.TELE-satellite.com/TELE-satellite-0909/ned/spaun.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-0909/pol/spaun.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-0909/por/spaun.pdf
Romanian	Românesc	www.TELE-satellite.com/TELE-satellite-0909/rom/spaun.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-0909/rus/spaun.pdf
Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0909/sve/spaun.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0909/tur/spaun.pdf

Available online starting from 31 July 2009



Basic configuration |



Setting up the blind scan |

the right. It is not only a set of cursor keys plus an OK button in the center. When you touch the "wheel" with your finger and stroke it clockwise or counterclockwise the meter will behave as if you turn the regular tuning knob!

The top panel contains all the sockets and connectors: signal input (BNC connector – we need to use one of the included adapters), power supply input, USB port, mini USB, Ethernet port and RCA sockets with TV video and audio in- and outputs. Descriptions on the panel suggest that we may expect in the future 2 additional connectors: asynchronous serial interface (ASI) with transport stream output and PCIMCIA for CAM. The meter is delivered with an external battery charger, connector adapters (F-to-BNC and IEC-to-BNC), USB cable and a USB pen-drive containing PC software. Everything is manufactured with attention to detail.

Quick start

Speaking of buttons, we have the ON/OFF pushbutton switch at the top row and 9 main function keys below it. In the top row, there are: Autoset, Parameters, Spectrum, TV-set, Measurements. The lower row consists of: LNB-DiSEqC, Configuration, Save-Recall and Measurement Map. Numeric keyboard is located in the left bottom corner and a very specific control element is located to

SPAROS 609 was so new that its English manual was not ready at the moment it was delivered. Should we wait for it? No way! We just had to start immediately. To our great pleasure, user interface was so intuitive that in a couple of minutes we felt quite comfortable with the basic functions. And not only with the basic ones like: viewing the spectrum, measuring selected transponder

Measuring
HDTV

DVB-S/S2
SAT

or watching TV channel. We managed to do a blind scan of a satellite, automatically measure all its transponders and save the results on a pendrive hooked up to its USB port. All this based only on a few pages of a product brochure in English. That's what we call "exploratory testing".

Basic functions

With an analyzer as complex as SPAROS 609, it would take rather long to discover

all its possibilities and modes. We asked for a manual in English and after a few days, we got a draft version. Only then, we realized how much this meter can do!

SPAROS 609 can practically measure any TV signal. All analog and digital modes: satellite, cable and terrestrial. It is compatible with the following satellite standards: PAL, SECAM, NTSC, DVB-S, DVB-S2 and DSS (this one is used in USA). Its spectrum analyzer covers continuously the band from 45 MHz

to 2150 MHz. So it is obvious that this meters can do much more than just show IF satellite signal at the output of an LNB (950-2150 MHz).

SPAROS measures the following parameters of the DVB-S signal: channel power, C/N, LNB voltage, LNB current, channel bit error rate (CBER), Viterbi bit error rate (VBER), number of uncorrected packet (UNC) and modulation error ratio (MER). Additional it displays: transponder frequency, band/polarization, standard, symbol rate, mod-

ulation and FEC. Nothing is missing! DVB-S2 has slightly different error rate related parameters: LDPC, BCH and PER that replace more familiar CBER, VBER and UNC. We will not describe all DVB-C and DVB-T parameters but, believe us, those signals are measured as extensively as satellite ones.

Satellite alignment

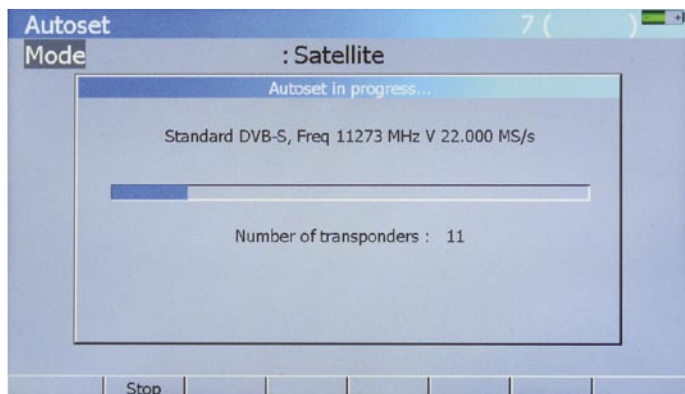
Perhaps one of the most interesting characteristics of such instrument is its use-



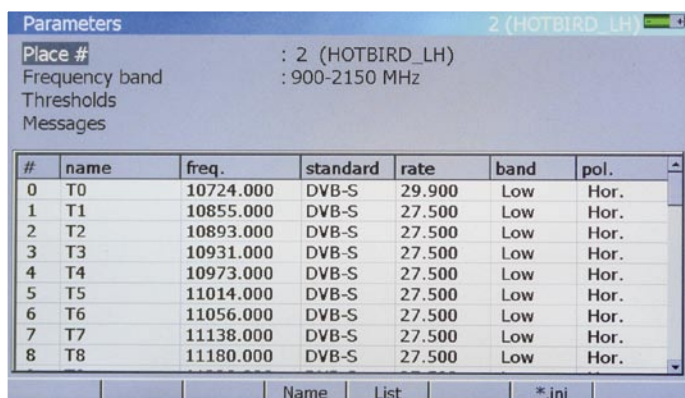
DVB-T/H
Terrestrial

DVB-C
Cable

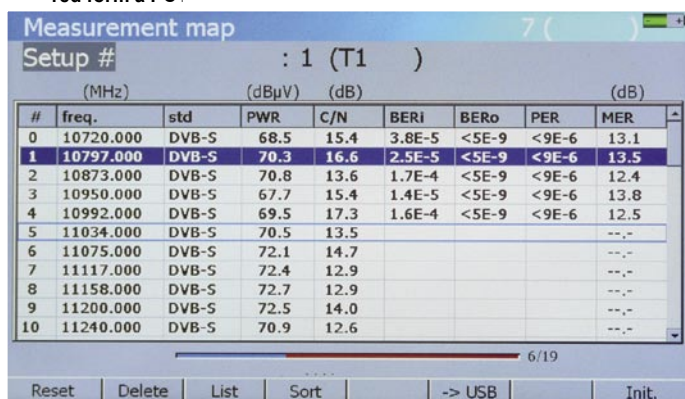
fulness when aligning satellite antenna. We recommend using it in the following way. Switch to spectrum analyzer mode and rotate and tilt your dish until you see some peaks in the spectrum. Try to maximize them. Then, press AutoSet button (magic wand) and the meter will search the



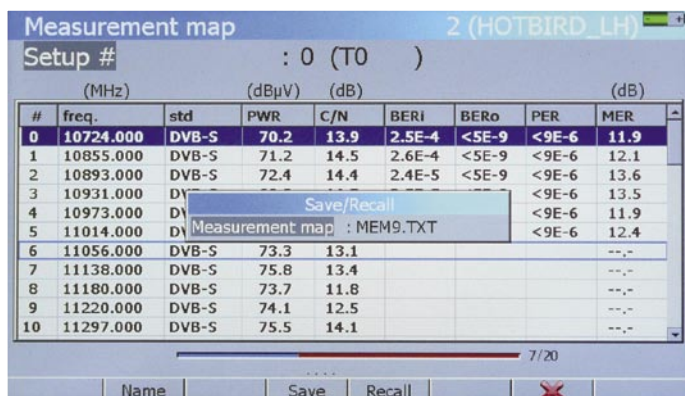
11 transponders found so far in a blind scan



Such a list of transponders can be a result of a blind scan or transferred from a PC



Automatic measurement of all transponders on the list - one by one



Measurements results can be stored in an onboard memory



Viewing TV channel

satellite name/position in the NIT of the transponder that is under the cursor. Sometimes it works, sometimes - not. That's because not every transponder NIT contains proper information. Other meters offer another method. They recognize a satellite based on the possibility to lock to a chosen transponder. Such meter keeps in its memory tuning parameters of one transponder per every satellite. Such transponder parameters need to be unique so that only when the antenna is aimed at the right satellite the meter can lock to the signal.

Do we have something like that also in SPAROS 609? Even more! SPAROS checks not one but four transponders per satellite. You can see the status of all four transponders at the same time (their signal level and quality bars and percentages). Ten most popular European satellites are pre-programmed by SPAUN. We can add another ten if we like. To do this we just have to install and use the included PC software. In the same way, we can edit

the existing satellites - in case there are changes in transponder parameters.

After activating the "Check sat" mode, the last used satellite is shown with its four transponders. If you do not have the lock, just press left/right button to change the satellite. After seconds, you will find the satellite that your antenna is currently aimed at. It is piece of cake now because thanks to SPAROS you know if your antenna is looking too much to the West or the East.

You can use the same screen to finetune your antenna. Just turn it or tilt it a bit and observe one quality bar. Personally, I prefer to switch to the meter mode and observe MER reading. It is at the same time sensitive and stable. It is really easy to find optimum azimuth, elevation and LNB skew when maximizing MER reading.

Aligning Monoblock LNB

Monoblock LNB's are not

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- EXTERNAL HDD SUPPORTED
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■ Bag cover can be open or close and the cable is attached all the time



■ Small flap enables hooking up a cable

so easy to align. Usually, you first align the antenna to get the best reception from the central LNB, then change the DiSEqC setting and check the off-center LNB. Usually its signal is too low. You turn the antenna to make it higher. Then, you return to the first LNB to see if you have not spoiled its performance too much. If you do that on the roof, you are probably not the happiest person in the world. Can it be simpler? Yes! That's another surprise SPAUN have prepared for us.

You can display level/quality bars for four transponders of satellite A and next to them another four transponders of satellite B. Start turning your antenna now. Don't care about DiSEqC setting change. SPAROS does everything automatically. It refreshes the readings for every transponder that fast that you are almost certain that it measures all 8 transponders from 2 different satellites simultaneously! It can not be simpler and more comfortable.

Measurement maps

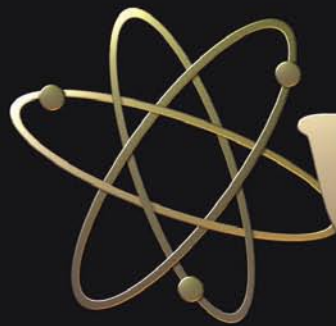
Another unique feature of SPAROS 609 is its capability to blind scan any satellite and create a list of its transponders. After such scan, we can automatically measure transponder signal one after another and create a map of all transponders with their measurement results. But that's not all. The meter measures the transponders in the list in a loop - from the first one to the last one

and again. You can save the measurements results either to internal memory of the meter or to external pen-drive.

If you leave the meter for hours, you will collect a whole database of measurements: all transponders versus time. You can then open the file with Excel and, for example, create various graphs that will show you how the reception system worked over time. Such map can contain up to 100 transponders.



■ Top panel view



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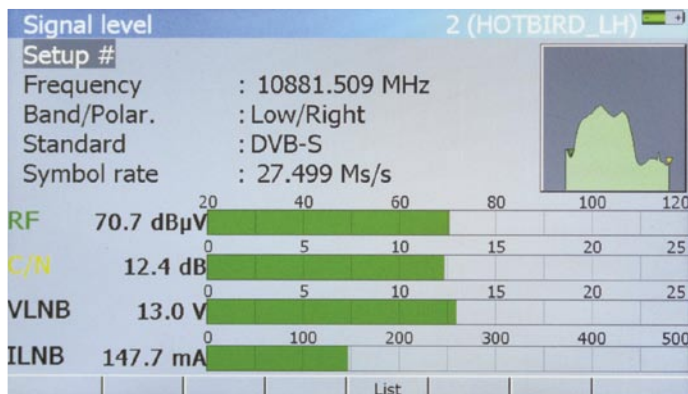
Jl: Kamal Raya No.8A RT.14/09
Tegal Alur, Jakarta Barat 11820
Tel: (62-21)-5559733 Fax: (62-21)-5559805
email: subursmt@gmail.com
<http://subursmt.com>
INDONESIA

Instead of scanning the satellite, you may prefer to prepare the transponder list yourself or download it from the Internet. Everything is

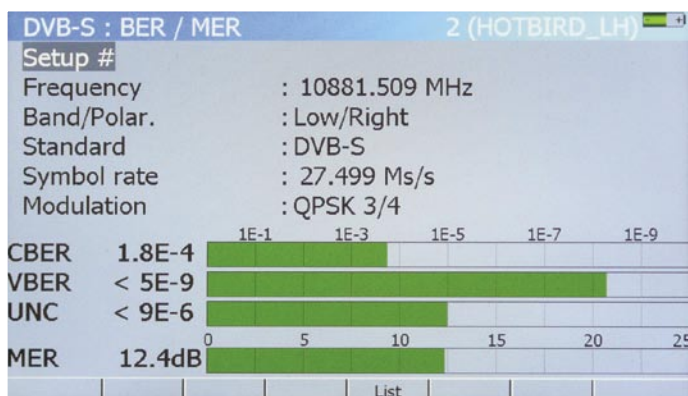
explained very clearly in the user manual.

User interface

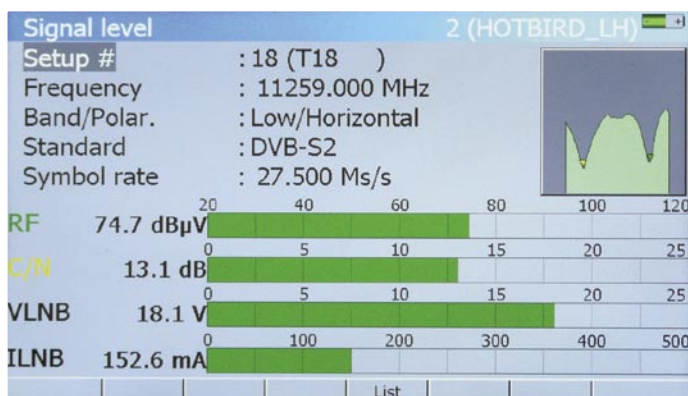
It was really a fun to learn



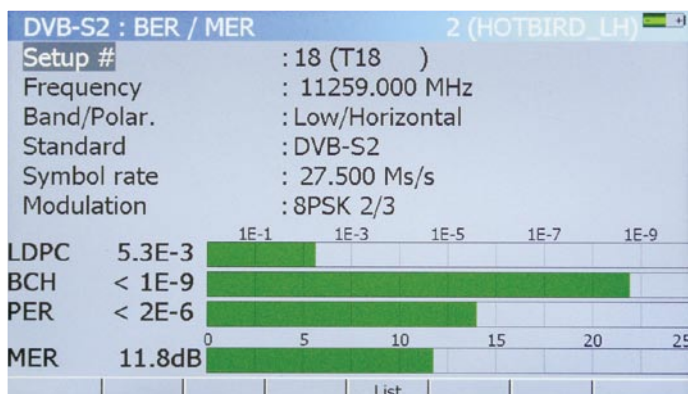
Measuring DVB-S transponder - basic results |



DVB-S transponder - extended measurement results |



Measuring a DVB-S2 transponder - the first screen |



Measuring a DVB-S2 transponder - the second screen |



Analyzer in a protective bag

this instrument. The idea to use smart keys was great. All screens are very readable – we have to thank SPAUN that they did not try to put too much information on one screen.

For example, the signal measurements are divided into 2 screens. Thanks to that you do not need to take a magnifying glass with you when operating the meter in the field. You can even put it on the ground and still see the results. The results are refreshed very fast. We never had an impression that we were waiting for the machine. Sounds incredible for PC users? That's true.

We also liked the idea to transfer the files via a pen-drive. No cables, no software installations and the results are on your PC in no time. You can use pendrive to upgrade the firmware as well. The only thing we could wish is a kind of sun shade. The bag is already very ergonomic but if it had an adjustable sun shade, it would be just perfect.

Performance

That was about the usability but what about the accuracy of the instrument? We compared SPAROS 609 with another analyzer of the same class. We first scanned Eurobird 1 & Astra 2A/2B/2D at 28.2° East (11,224 – 12691 MHz) and then HOTBIRD at 13° East (10,797 – 11,624 MHz).

In most cases, SPAROS measured better noise performance. It looks that it had lower internal noise at the input than its competitor. What is even more interesting, there were 5 transponders at which the competitor was unable to measure MER. The reading was <3 dB. SPAROS had no problem at all! Its front end must be really exceptional!

We checked the analyzer with cable signal (analog and 256QAM) and terrestrial (PAL and DVB-T). Everything worked flawlessly. The only thing missing was no TV channel picture if MPEG4 was used for compression.

The SPAROS 609 is state of

Intelsat / GVF Type Approved

- Original designer of patented rolled edge reflector
- Production capacity
(≥ 1 Million units per month)
- High performance
- Highly accurate reflector surface ($RMS \leq 0.1mm$)
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SATELLITE *via* FIBER OPTICS Rule #1: **CLEAN BEFORE YOU CONNECT**

1 INSPECT
X200 magnification
Contaminated with fingerprint oil and dust particles.

2 CLEAN
Clean after 2 second
CLEANZONE Automated Connector Cleaner

3 CONNECT

DUST STOPS PLAY:
The signal core of a fiber optic cable is almost 1/10 the thickness of a human hair. At this level dust, dirt or grease on the end of a connector can wipe out your picture and damage the end-face so inspection and cleaning is essential.

FTTX FIBERVIEW Video Microscope

FOR YOUR FREE GUIDE TO INSTALLING CLEAN FIBER OPTICS, please contact:
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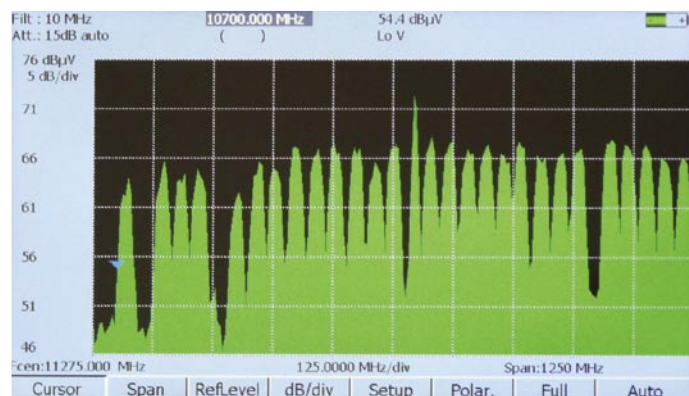
UK Tel: +44 (0) 118-9821600 - Fax: +44 (0) 118-9821900
Italy Tel: +39 011 8399828 - Fax: +39 011 8399804
Poland Tel: +48 71 711 10 93 - Fax: +48 71 711 10 93

Tokyo, Boston, San Diego, Hong Kong, Shenzhen, Shanghai, Melbourne, Dubai

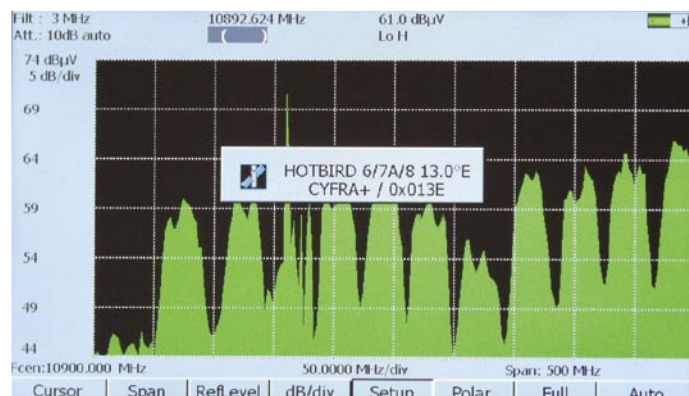


the art: it is showing what can be produced nowadays when using the most sophisticated components, matched with intelligent software.

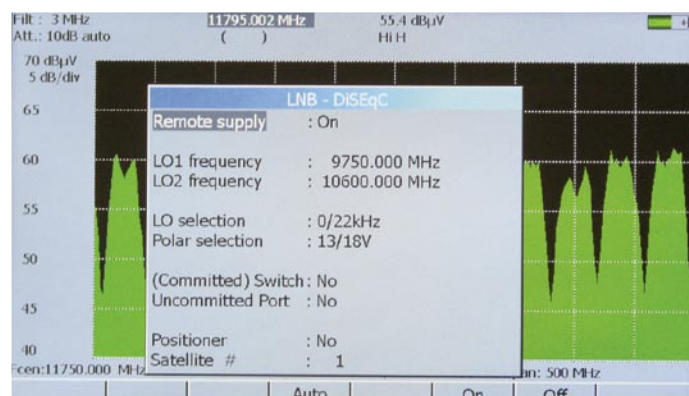
SPAROS 609 is clearly a reference signal analyzer, giving superbly accurate readings.



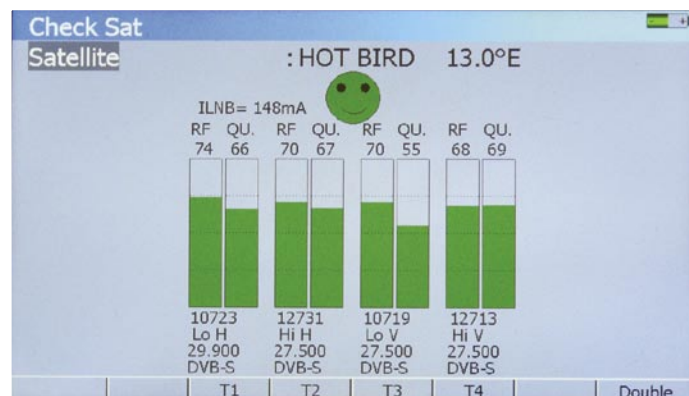
Spectrum display (low band, vertical polarization)



This transponder had a NIT with a correct information

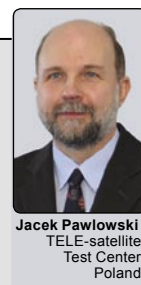


Analyzer is compatible with DiSEqC protocols



Satellite identified based on 4 pre-defined transponders

Expert Opinion

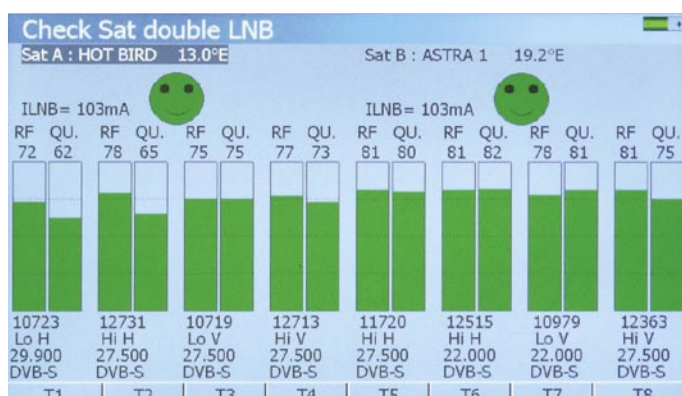


Extremely versatile TV signal analyzer with all modes and standards that a professional installer may need. Unique features: monitoring both LNB's of a monoblock at the same time, identifying satellite by its four transponders or received NIT. Very easy automatic recording of large number of transponders over time. File transfer to PC either via pendrive, USB cable or Ethernet cable.

No sun shade. No MPEG4 decoding.

TECHNIC DATA

Manufacturer	SPAUN Electronic, Singen, Germany
Fax	+49 (0) 7731 – 8673-17
E-mail	info@spaun.de
Model	SPAROS 609
Function	TV Signal Analyzer
Frequency range	45-865 MHz (terr.), 950-2150 MHz (sat.)
Level measurement range	20 ... 120 dBμV (terr.), 30 ... 110 dBμV (sat.)
Unit of level measurement	dBμV, dBmV, dBm, V
Accuracy of level measurement	+ 2 dB + 0,05 dB/C° (terr.), + 3 dB + 0,05 dB/C° (sat.)
TV Standards	BG, D, K, I, L, M, N, FM, carrier, C-OFDM, QAM PAL, SECAM, NTSC, DVB-S, DVB-S2, DSS
DiSEqC	1.0 / 1.1 / 1.2, 22 kHz, MiniDiSEqC, ToneBurst (Unicable available by request)
Digital measurements	C-OFDM, QAM, DVB-S, DVB-S2
Video decoding	MPEG 2
Power supply	110 - 240 VAC, 15 V / 4,5 A Output
Battery	Li-Ion 10,8 V / 6,5 Ah (Autonomy: 3 hours typical)
Battery charger	1 hour for up to 80 %
Operating temperature	0 C° ... 40 C°
Dimensions	Width= 215 mm, Height= 300 mm, Depth=100 mm
Weight	2,1 Kg (incl. battery and carrying bag)



Special mode for aligning monoblocks



List of services (channels) available from the current transponders



The largest supplier of satellite products in world



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- DiSEqC switch
- Satellite Finder
- Splitter
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E-mail: jason@boingsat.com ■ sales@boingsat.com

Attn: Jason & Joseph

Office address:

Rua Tribuna 118A Chunpek Garden RCA Macau

Tel: +853-439694 ■ Fax: +853-438633

Mobile: +86-13823053562

E-mail: jason@boingsat.com ■ sales@boingsat.com

Attn: Jason & Joseph

IPDVD Box

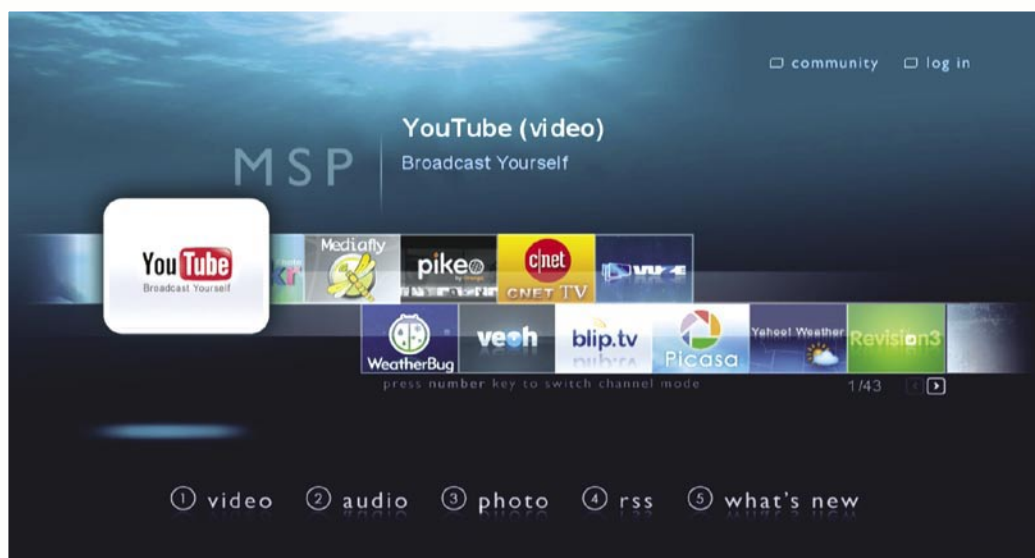
Pocket Sized Multimedia Powerhouse

Since the larger receiver manufacturers introduced the first PVR set top boxes to the market a few years ago, their top of the line models come with features such as MP3 playback, picture viewers or video players. But every one of these receivers has one thing in common: their development focused mainly on TV and radio reception as well as the use of the PVR functions. Yes, these boxes could handle MP3 playback, etc., but the integration of these extra multimedia features was not necessarily well thought out. For one thing, with many of these receivers, the content had to first be uploaded to the internal hard drive, a process that could take a long time depending on the type of connection (network or USB) and what chipset the receiver has.

This was reason enough for the Chinese firm IPDVD to develop a multimedia box to bridge this gap in the market. The requirements were quickly finalized: a digital video and audio output should provide an extremely high quality version of the media content, the data itself should be accessed directly from a network or an external storage device, TV content should be accessible via the Internet and all of this should fit into the smallest possible housing.

With these requirements finalized, the IPDVD engineers went to work. When we were told a few weeks ago about the IPDVD box and asked if we would like to test it out, we naturally agreed and the manufacturer sent us a sample unit for testing.





MSP (Media Service Portal) Main Menu |

The IPDVD box is easy to handle and at 12x10x2.5 cm it can easily be incorporated into any living room TV setup. On the front side of this elegant black and silver box are two easy to access USB 2.0 ports for connection to external storage devices such as a USB hard drive or memory sticks. Next to them is a nicely positioned IR receiver.

The back panel of the IPDVD box is nicely equipped and comes with all the necessary types of connections. For the best possible picture quality there's an HDMI output, a digital audio output for superb audio, a network interface, a jack for the external 12V power supply as well as a multi-pin connector for use with the included adapter cable. This adapter cable provides a set of three YUV outputs as well as one for CVBS and two audio connections.

The included remote control is logically laid out, properly labeled and sits comfortably in your hand.

The workmanship of the box and the remote control is exceptional and leaves nothing out. We were a little surprised at the internal cooling fan; it makes a somewhat loud whirring sound while the box is in operation and even when it's in standby. But the manufacturer already reacted: the new IPDVD Mini 1.3 has a very quiet fan.

As far as its power requirements go, it uses the same amount of power in standby mode as it does during normal operation.

Installation

Once the package containing the IPDVD box arrived, we did not want to waste any time getting to work testing out the

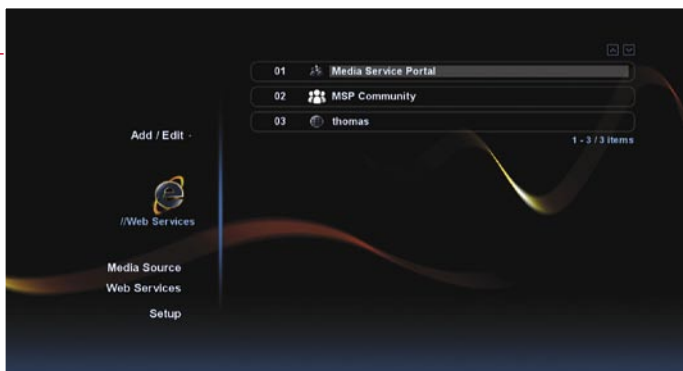
features of this box. We connected the box to our plasma TV with an HDMI cable and at first saw nothing; the TV screen remained dark.

We then connected the included adapter cable to the box and used the CVBS output with the TV. A few seconds later, the main menu appeared on the screen and our first task was to search for the HDMI problem. It didn't take long to find out what was wrong. More precisely, it wasn't a problem at all but rather an operational mistake: when we switched the picture output in the main menu from CVBS to HDMI, the box instantly began to use the much better quality HDMI output.

For us it was no problem handling these settings. For a beginner though who might be more used to Plug&Play type boxes or might not have the proper adapter cable avail-



IPDVD



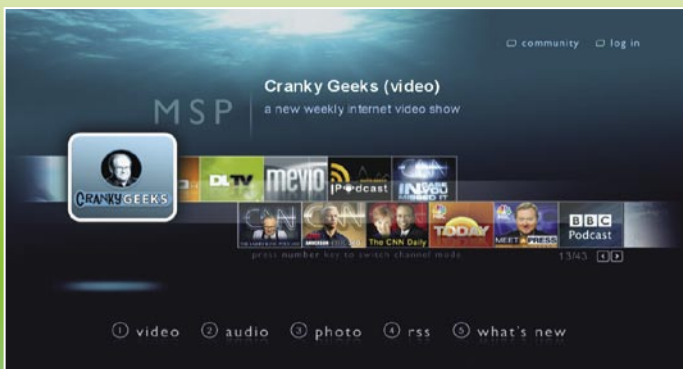
IPDVD Startpage |



IPDVD Box Main Menu |



Multimedia Playback Main Menu |



More MSP Fun |



Music Selection |

able, this could become a hurdle he might not be able to jump over. The manufacturer should consider shipping the IPDVD boxes from the factory with both the CVBS and HDMI outputs already activated.

At the very least the user manual should clearly explain this. The package shipped to us included an instructional pamphlet that was only in Chinese but, according to the manufacturer, a user hand book should be available in English by the time production starts. In meantime, the new model IPDVD Mini 1.3 has the HDMI output increased from 1.1 to version 1.3.

When the box is turned on for the first time, the Main Menu appears. It is recommended though that you first check the basic settings of the box in the Setup menu. At the moment only English and Chinese are the available on-screen display (OSD) languages however other languages will become available in the near future. Other settings such as the display timer or the desired subtitle language can be accessed in the Preferences menu.

A large selection of video output formats are available including CVBS in PAL and NTSC, YUV in 480 i/p, 576 i/p, 720 i/p and 1080 i/p and this in 50 or 60 Hz. Then there's HDMI 480p, 576p, 720p and 1080i/p also in 50 or 60 Hz and then of course VESA in 1280x768, 1360x768, 1366x768, 1440x900, 1680x1050 und 1920x1200.

Additionally, there are settings related to picture format (4:3 or 16:9 as well as selecting which format should be used for 4:3 signals on 16:9

TV's) and last but not least a variety of digital audio output settings (Digital RAW, Digital PCM and Analog RAW).

The connection with your LAN as well as the Internet is handled in the Network settings page. The box also supports DHCP (Dynamic Host Configuration Protocol) and can therefore automatically acquire all the necessary local router or DSL modem information. Naturally, the more experienced users can set up all of the IP data manually. A time server is already preconfigured to provide the box with the current date and time.

To top it all off, the logically designed and easy-to-use Main menu also provides a variety of options for DVD and audio CD playback (such as a child lock). You can also restore the software to its factory default settings or upload new software directly from the manufacturer's server via the Internet.

Everyday Use

Operating this box is divided into two main operating areas:

Playing Back Local Media

Most of you probably recognize this problem: You're sitting comfortably in your living room and want to listen to some music on your stereo system but the music you want to hear is on your PC in your home office.

Normally you would have to first burn it to a CD so that it can be played back in your living room. And what about when your relatives come for a visit? You want to show them pictures or videos from your

IPDVD

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we had to put it in a separate table; it shows the many capabilities of the IPDVD box.

Throughout our tests we had absolutely no problems operating any of the box's features; everything ran fully automatically and was so easy to use that even newbies to the world of multimedia would thoroughly enjoy using this box.

We were especially impressed with the video player that effortlessly played back every known format regardless of whether it was a video downloaded from the Internet, a digital satellite receiver recording or a video camera recording.

SD as well as HD content is also supported! Only when you use a larger TV can you really enjoy all of the HD content available via the Internet or recorded via a satellite receiver. The two USB jacks on the front side can be used with external storage devices that can also be accessed by the box. This is especially practical if the pictures or videos you want to see are still stored in a camera. In this case, you simply connect the camera via a USB cable to the box making those pictures you just shot also available on your TV.

last vacation but this data is also stored on your PC. What will you do now?

The IPDVD box has the perfect solution: it integrates itself into your local network thereby making all of that data available for your TV where before it could only be seen on your PC.

And the best part is that the box can do all of this without needing any special configuration or added software since a standard PC with a fairly up to date operating system (Windows XP or higher) is good enough.

In order to playback music, video and picture data through

the IPDVD box, you simply connect it to your local network and then turn the PC on.

The PC should recognize the IPDVD box and asks the user to make the data available. This availability takes place through Windows Media Player, a part of the operating system, and is taken care of in just a few mouse clicks. You merely select what data should be made available and the rest is handled for you by Windows and the IPDVD box.

Especially interesting is that Windows Media Player isn't the only media source supported; Bonjour (for MAC users) is also supported as are the UPnP, SSDP, DLNA, NSS, SMB, NFS,

HTTP protocols and the myi-Home, WizD, SwissCenter, MSP Portal, Llink and GB-PVR servers. Every user should be able to find their matching connection method even when they don't want to or can't use Windows Media Player.

As soon as the data is made available, a new entry will appear in the IPDVD Main menu with the name of your PC. Selecting this entry will provide access to all of the music, video and picture data that you previously made available. You can play back MP3 music, videos, photos, even an entire slideshow.

The list of supported video and audio formats is so long

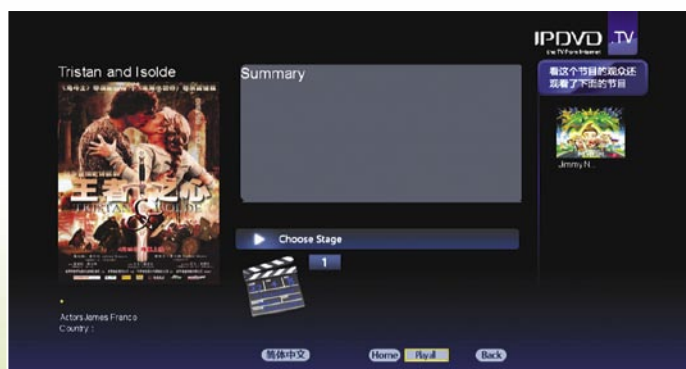




The Homemade IPTV Portal of the Box



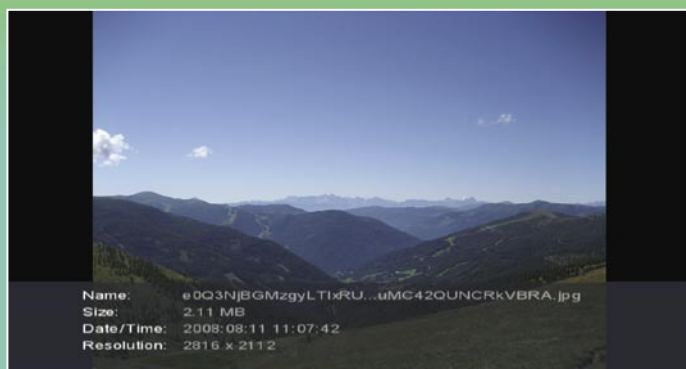
IPTV Portal Movie Selection



IPTV Portal Chapter selection



Album Display of Pictures



Video data is continuously stored to provide an uninterrupted playback

IPTV via Internet

The second operating area of the IPDVD box is the processing and display of video and audio content from the Internet. For this purpose the box uses the Media Service Portal from Syabas Technology.

The Media Service Portal (MSP) is really nothing more than a specially prepared Internet page for set top boxes from which every possible media format can be accessed. With the help of plug-ins, all of your favorite video/audio content can be displayed.

A variety of these plug-ins are ready to be used; those more experienced users can create their own plug-ins for media content that is not yet supported.

The box is shipped with several dozen plug-ins already included. Only those more important and popular ones are mentioned here:

Number one would have to be the plug-in for the YouTube video portal. It lets you use this service the way you'd be familiar with on a PC. You can search for videos in the YouTube database; the most viewed videos, the highest rated videos and your particular favorites are at your fingertips.

Despite the fact that the picture quality of YouTube videos is better suited for viewing on a PC and not so much on a larger TV, we were satisfied with the video presentation. Recently, YouTube switched over to better encoding and this move certainly paid off for them.

The Flickr and Picassa plug-ins provide a connection with their respective online services. They give you access to

pictures from other users and also let you upload your own photos for your friends and relatives to see.

Other plug-ins, for example, give you weather information for the entire globe or even local traffic information.

And Podcast lovers were not left out either; content can be found in the plug-ins for every possible subject. Even individual video channels such as Cranky Geeks or Revision 3 with up-to-date Internet information can be found.

An interesting extra, especially for those users outside of the USA, is the ability to watch TV channels such as CNN, NBC and CBS with programs like Larry King, Anderson Cooper, Today Show, Meet the Press, Face the Nation, NBC Nightly News and CBS News. You can even tune into a large variety of radio programs such as news services from BBC, ABC or MSNBC any time you want.

Of course, the box can also work with every type of RSS feed letting the user stay up to date with current events.

If you plan on using any other services, you can simply expand your Media Service Portal with additional plug-ins. At the same time, a Community page can be called up through the IPDVD box that lets you choose from specific plug-ins from developers sorted by category.

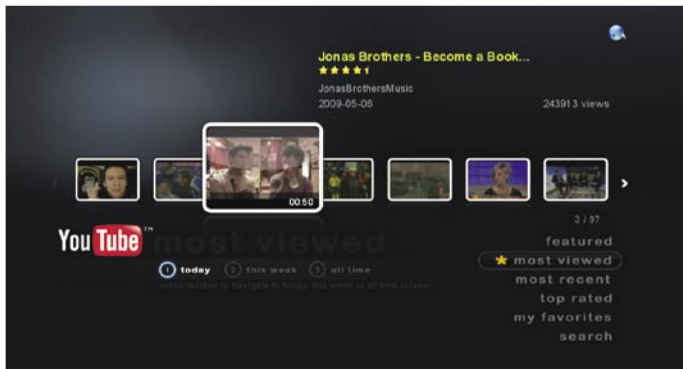
At the moment IPTV is working very hard to start their own video platform; it's already online and has quite an array of content available. However, for now much of this content is geared towards Asian viewers; eventually it will be expanded to make it more interesting for other countries and continents.



RSS Feeds also can be displayed |



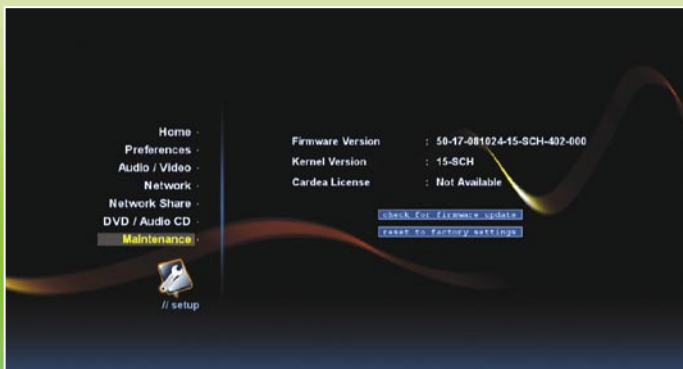
Video Playback Main Menu |



The YouTube Video Portal |



Larry King Show via IPTV |



Software update via the Internet |



Weather data from any place in the world can be accessed |

Expert Opinion



Thomas Haring
TELE-satellite
Test Center
Austria

+

The IPDVD Box is a do-it-all multimedia powerhouse and is the perfect interface between PC, TV, Multimedia and Internet.

It is very easy to use and offers an enormous assortment of media content.

It is manufactured with quality in mind and is really fun to use.

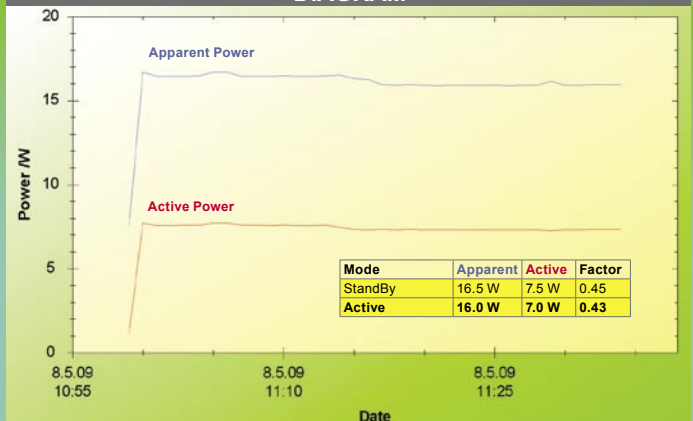
— The HDMI output should be activated from the factory.

SUPPORTED

MEDIA FORMATS

Video Container	MPEG1/2/4 Elementary (M1V, M2V, M4V) MPEG1/2 PS (M2P, MPG) MPEG2 Transport Stream (TS, TP, TRP, M2T, M2TS, MTS) VOB, AVI, ASF, WMV Matroska (MKV) MOV (H.264), MP4, RMP4
Video Codecs	XVID SD/HD MPEG-1, MPEG-2, MP@HL, MPEG-4.2 ASP@L5, 720p, 1-point GMC, WMV9 MP@HL, H.264, BP@L3, MP@L4.0 HP@L4.0, HP@L4.1, VC-1, MP@HL, AP@L3
Audio Container	AAC, M4A, MPEG audio (MP1, MP2, MP3, MPA) WAV, WMA
Audio Codecs	WMA, WMA Pro, AAC, MP1, MP2, MP3, LPCM
Audio pass through	DTS, AC3
Photo Formats	JPEG, BMP, PNG, GIF
Other Formats	ISO, IFO
Subtitle Formats	SRT, SMI, SUB, SSA

ENERGY DIAGRAM



The first 15 minutes: Active Operation, the second 15 Minutes: Standby

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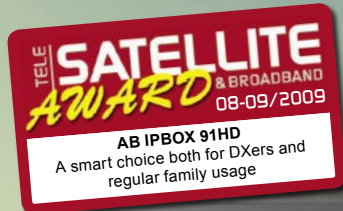
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Manufacturer	AB-COM
Website	www.abipbox.com
Function	Digital Linux-based HDTV PVR Receiver
DVB-S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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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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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	— / —
Scart/Digital Audio	• / •

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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	• / •
Scart/Digital Audio	• / •

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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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Website	www.opensat.info
Function	HDTV Satellite Receiver with Two CI Slots
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Channel Memory	!
DiSEqC	1.2
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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
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Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
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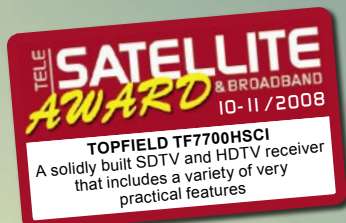
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Website	www.topfield.co.kr
Function	HDTV PVR Satellite Receiver
DVB-S2/LAN	• / —
Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
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TOPFIELD

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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Read Indepth Review of This Product Directly on the Internet:

Arabic	العربية	www.TELE-satellite.com/TELE-satellite-0811/ara/sonicview.pdf
Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-0811/bid/sonicview.pdf
Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0811/bul/sonicview.pdf
Czech	Česky	www.TELE-satellite.com/TELE-satellite-0811/ces/sonicview.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-0811/deu/sonicview.pdf
English	English	www.TELE-satellite.com/TELE-satellite-0811/eng/sonicview.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-0811/esp/sonicview.pdf
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0811/tur/sonicview.pdf



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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Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0811/bul/venus.pdf
Czech	Česky	www.TELE-satellite.com/TELE-satellite-0811/ces/venus.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-0811/deu/venus.pdf
English	English	www.TELE-satellite.com/TELE-satellite-0811/eng/venus.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-0811/esp/venus.pdf
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0811/tur/venus.pdf



VENUS

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	• / •

TELE SATELLITE AWARD & BROADBAND
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ABCOM IPBOX 9000 HD PLUS
A huge range of connection options make this box a true all-rounder – yet it remains easy to use as a family receiver.

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Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0809/bul/abcom.pdf
Czech	Česky	www.TELE-satellite.com/TELE-satellite-0809/ces/abcom.pdf
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0809/tur/abcom.pdf



AB-COM



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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 A solid and easy to use receiver that with its Scaler can present satellite channels in excellent quality.

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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0807/tur/arion.pdf



ARION



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

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



NANOXX



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



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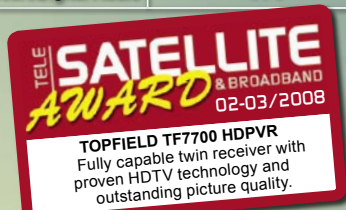
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0805/tur/opensat.pdf





Manufacturer	Topfield
Website	www.topfield.co.kr
Function	Digital DVB-S, DVB-S2 HD-PVR Receiver with Ethernet Connection
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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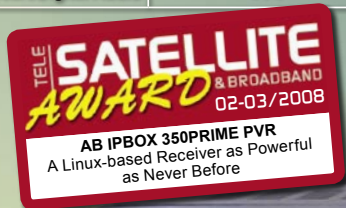
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0803/tur/topfield.pdf



Manufacturer	AB-COM
Website	www.abcom.sk
Function	Linux-based Receiver for Terrestrial, Cable and Satellite DVB Reception
DVB-S2/LAN	— / •
Channel Memory	4000
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	HDTV Satellite Receiver with CI Slot
DVB-S2/LAN	• / —
Channel Memory	4000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

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12-01 / 2008

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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0801/tur/arionHDCI.pdf



Manufacturer	Infosat
Website	www.infosats.com
Function	MPEG2 FTA receiver with Blind Scan
DVB-S2/LAN	— / —
Channel Memory	1000
DiSEqC	1.0 / 1.2
S-Video/HDMI	— / —
Scart/Digital Audio	— / —

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Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	Professional Digital Satellite Receiver with 2 CI Slots
DVB-S2/LAN	— / —
Channel Memory	!
DiSEqC	—
S-Video/HDMI	— / —
Scart/Digital Audio	— / —



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Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	Digital Satellite Receiver FTA
DVB-S2/LAN	— / —
Channel Memory	4800
DiSEqC	1.0 / 1.2
S-Video/HDMI	• / —
Scart/Digital Audio	• / •



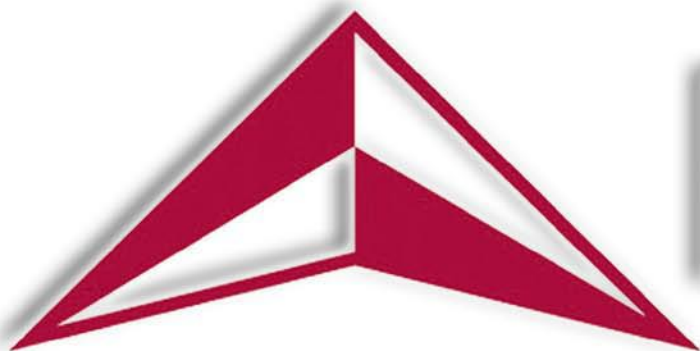
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PRO



■ Founder and owner of
PROMAX, José Clotet



PROMAX

The Four Divisions of PROMAX

TELE-satellite readers have known about PROMAX's reliable, widely used satellite signal analyzers for many years now. They are recognizable by their characteristic yellow color. But PROMAX has much more to offer: their products range from those that you already know to signal processing products all the way to end-user signal distribution components. PROMAX covers so much that we wanted to take a closer look at what they're all about so off we went to one of the most lively tourist cities – Barcelona. Up until 1981, PROMAX called downtown Barcelona home, but then they moved out to L'Hospitalet de Llobregat, a suburb that is easily reachable with the L1 Metro Line.

TELE-satellite World

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Available online starting from 31 July 2009

■ Partial view of the PROMAX fabrication and administration building in L'Hospitalet de Llobregat, a suburb south of Barcelona and close to the El Prat airport. A total of 6600 sq-m of space is at PROMAX's disposal. These buildings are occupied by 120 employees, of which 50 are in production, 30 in sales, 30 in R&D and 10 in administration.



■ A look in the museum at an old training device: "That's how TV worked"



■ One of PROMAX's first products: a test pattern generator from 1964

José Clotet founded the company in 1963. That was only a few years after the first TV station came on the air in Barcelona. Suddenly, you had not only antenna installers but also then-existing TV manufacturers who needed signal analyzers and above all test pattern generators. In the first year PROMAX employed four engineers each of which developed their own unit. Production on these four newly designed units started the following year; in 1964 there were ten employees.

In 1968 a second TV station made its appearance in the UHF band. Again PROMAX was right there and began delivering the first UHF signal analyzers.

In 1986 it was another first for PROMAX:

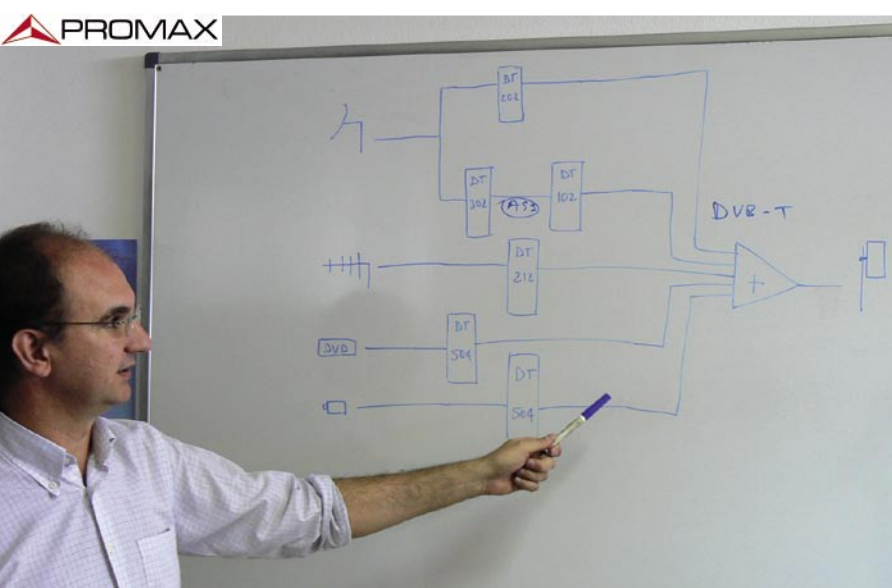
the first satellite signal analyzer and in 1993 the first microprocessor controlled universal analyzer that covered everything from VHF/UHF (including FM) to the satellite range.

Today PROMAX is still owned by José Clotet. In 2005 his son José-Maria Clotet took over business operations and in 2007 PROMAX was divided into four divisions: Test & Measurement, Broadcast, TV Distribution and Electronic Training.

That's quite an assortment and we asked José-Maria Clotet about the last one: "From the beginning PROMAX taught installers and engineers how to use our products." This service only made up about 10% of their sales but it has been a goodwill gesture by PROMAX that should not be underestimated.

Obviously, much more important economically are their signal analyzers. "Roughly 30% of our sales can be attributed to signal analyzers", explains José-Maria Clotet. In 2009 the status of the TV Distribution division was greatly enhanced when PROMAX took over a local manufacturer of distribution products. "This division now also is responsible for 30% of our sales", comments José-Maria Clotet. The remaining 30% falls on the Broadcast division.

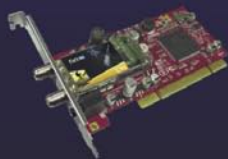
At first glance, there does not seem to be too much uniformity here. But as José-Maria Clotet explained the connection, the picture became clearer and the strategy could be seen. "We are strongly focused on DVB-T", says José-Maria Clotet, "Our strong points have always been the reception side with our signal



■ José-Maria Clotet, PROMAX's CEO, explains the basic idea behind the PROMAX strategy: the four possible reception sources – satellite, antenna, video sources (e.g. DVD) or live camera – are PROMAX amplified and modulated and routed using DVB-T technology wirelessly or via cable.



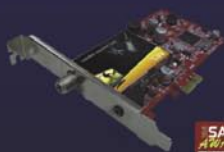
■ The theory is demonstrated via an actual connection: each slot represents a possible signal source. At the other end you get a combined signal in DVB-T.



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DOUBLE LNB HOLDER



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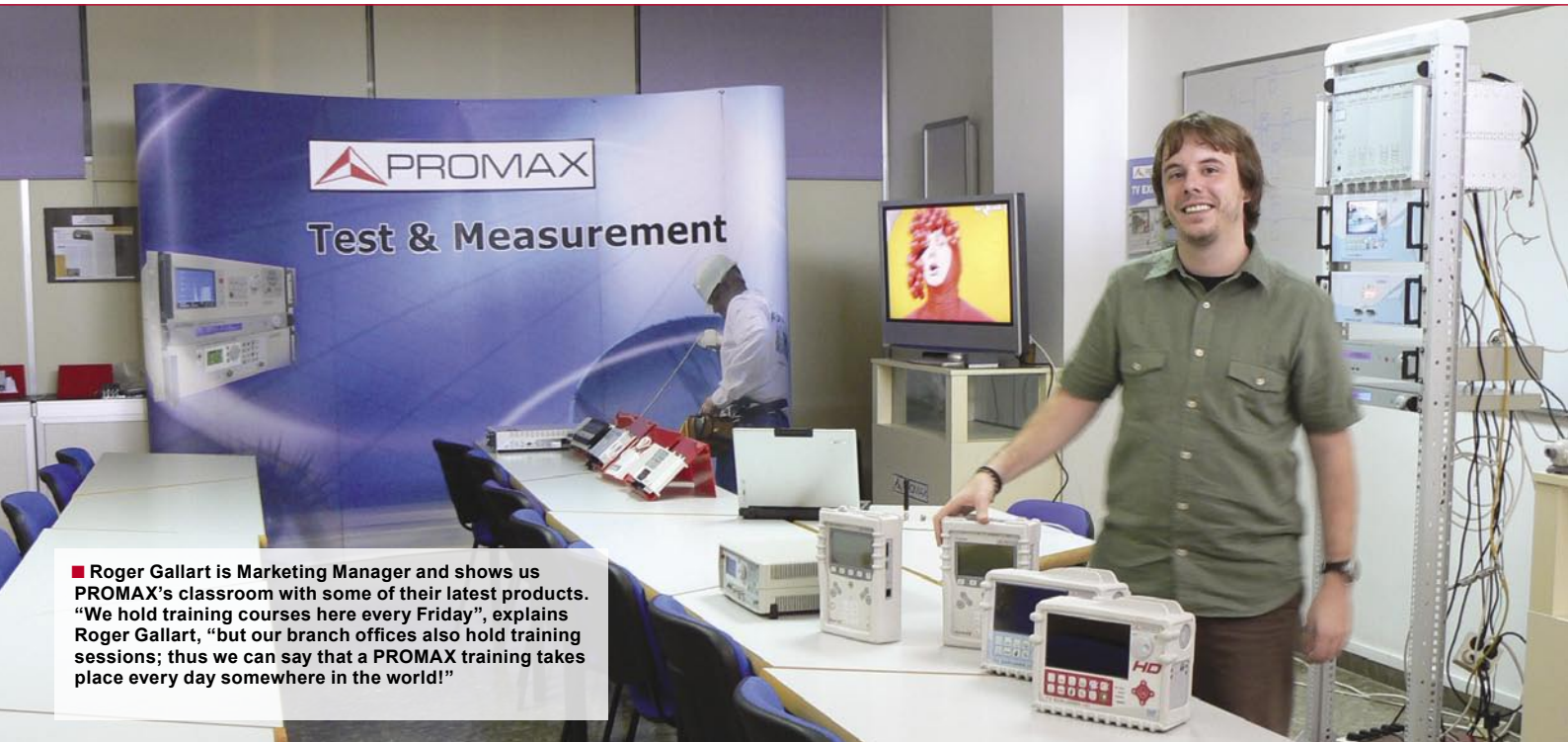


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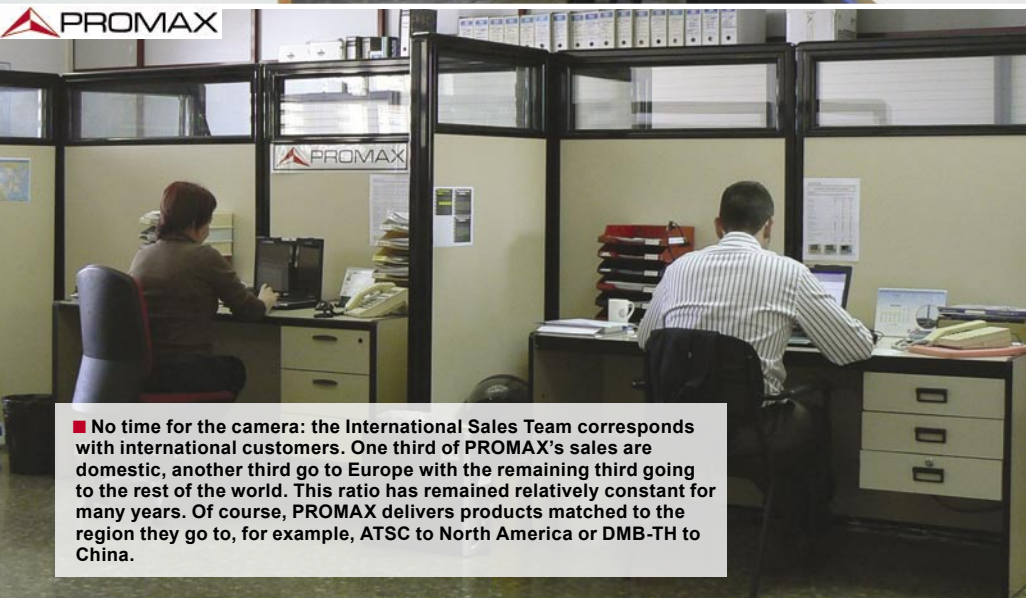


F-CONNECTOR (100 Pc)

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



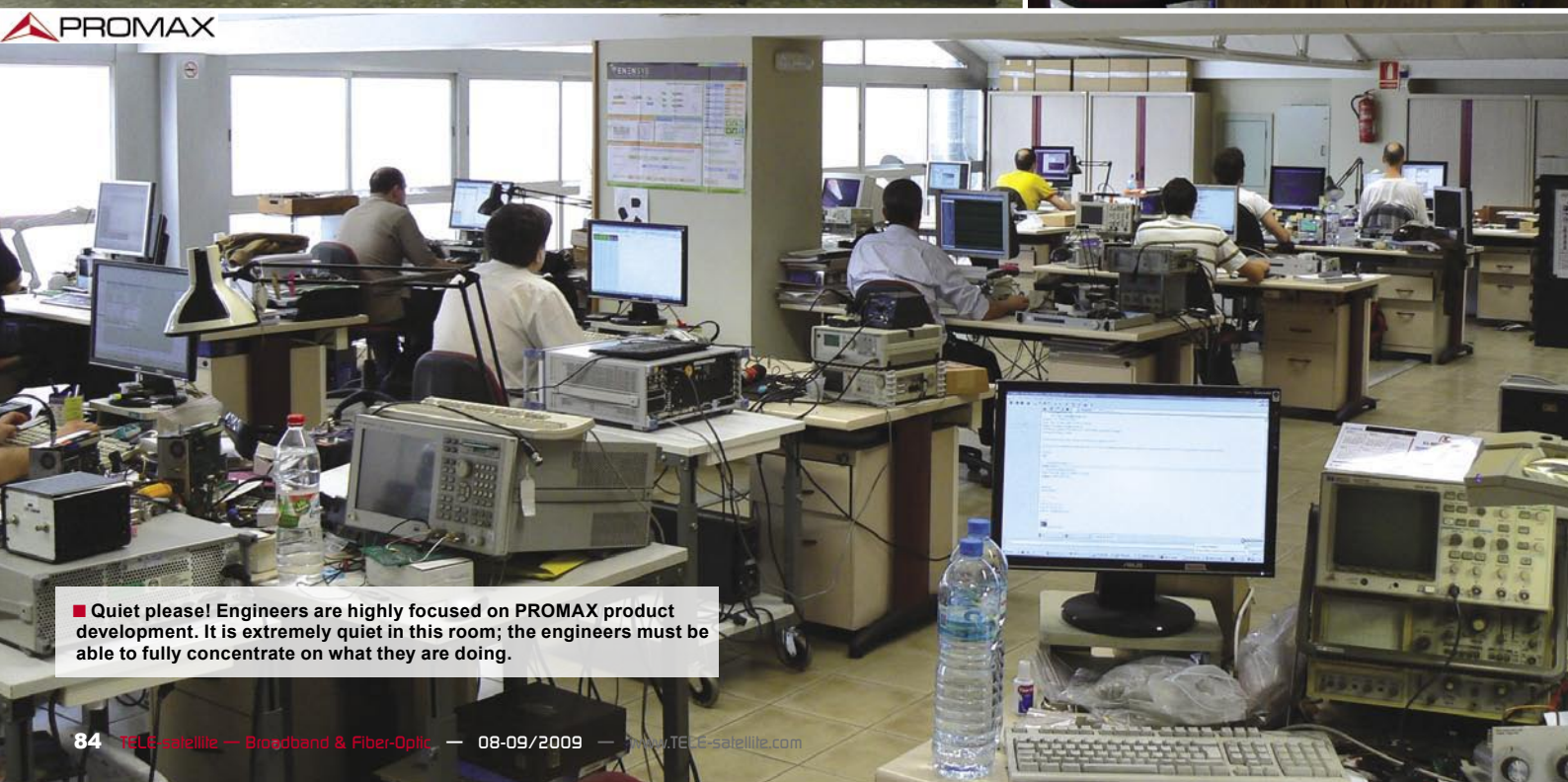
■ Roger Gallart is Marketing Manager and shows us PROMAX's classroom with some of their latest products. "We hold training courses here every Friday", explains Roger Gallart, "but our branch offices also hold training sessions; thus we can say that a PROMAX training takes place every day somewhere in the world!"



■ No time for the camera: the International Sales Team corresponds with international customers. One third of PROMAX's sales are domestic, another third go to Europe with the remaining third going to the rest of the world. This ratio has remained relatively constant for many years. Of course, PROMAX delivers products matched to the region they go to, for example, ATSC to North America or DMB-TH to China.



■ How does a PROMAX signal analyzer work? Someone has to write the user manual and one of those is Joaquin Arroyo from the Media Team. Here he can be seen putting together screen shots for PROMAX's website.



■ Quiet please! Engineers are highly focused on PROMAX product development. It is extremely quiet in this room; the engineers must be able to fully concentrate on what they are doing.



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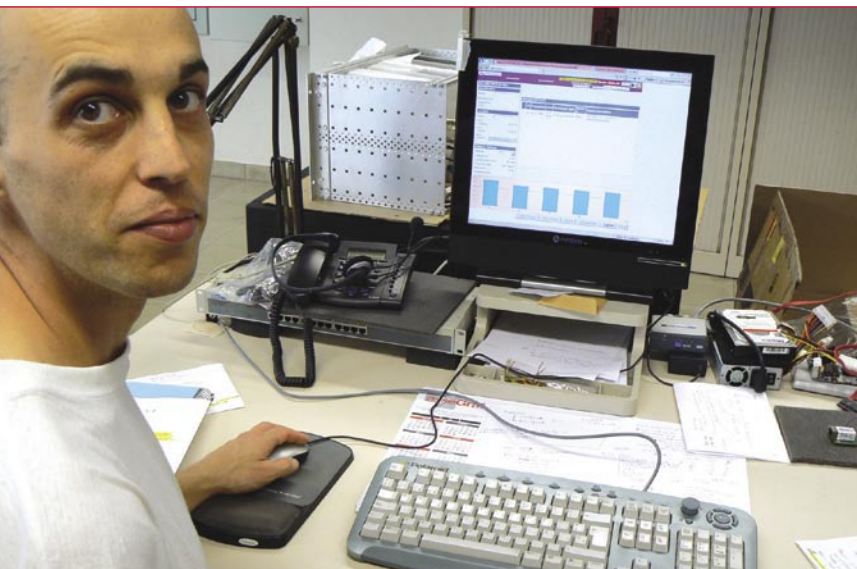
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■ As a DVB-T specialist, PROMAX provides a special service: the testing of the transmitted signal. The Spanish General Direction for Telecommunication uses PROMAX products and software to not only technically verify the transmitted DVB-T signals but also to detect any illegal transmitting stations. Scattered throughout the country are automatic monitoring stations that can be accessed by technicians through a network. A reference station was also installed at PROMAX and can be seen here in this photo.



■ With just a few mouse clicks, the technician can test from a distance the DVB-T reception of any of these stations, verify the signal strength and measure any necessary parameters.



■ PROMAX's component storage room: these enormous cabinets that reach up to the ceiling contain millions of prefabricated parts, the way they will be mounted on a circuit board by the SMD Assembly machine. Juan Carlos Villar is in charge of the operation of this storage system in which the storage containers can be moved to the required positions with just the push of a button.



■ A look in the actual production area: PROMAX operates with two SMD lines that assemble the components on the circuit boards fully automatically. Human workers are only needed for quality control.



■ Optical Quality Control. Everything takes place in a clean room rated at 70ppm: this is similar to the requirements found in a hospital operating room.



■ The finished boards are mounted in a housing. And just like that, a signal analyzer is finished. Raul Ramirez performs final inspection and calibrates the finished products.

analyzers and the broadcast side with our signal processors for controlling the signals that were produced." What has been missing up to this point was the section in between – the connection from reception (antenna) to receiver (TV). This is where DVB-T comes into play: "We are convinced that DVB-T is the optimal transmission technology for many applications", says José-Maria Clotet, "You can transmit TV signals either in analog – this is yesterday's technology – or in QAM multiplex. This is complex and expensive since the end user would need a new cable receiver. IPTV is another option but is also very expensive and complex."

As DVB-T (or similar digital standards as ATSC and DMB-TH) will eventually become the overall terrestrial standard, for PROMAX it is obvious: DVB-T has to be used in cable distribution technology as well. TV's with built-in DVB-T tuners are already standard in many countries. What has been missing up until now has been DVB-T based signal distribution products. Now we can see why PROMAX expanded the way they did: the Broadcast division produces generators and modulators for DVB-T and the TV Distribution division provides the necessary DVB-T distribution products.

This was not only a logical move for PROMAX, technologically it also made sense: "DVB-T is extremely robust – even with old coax cable and with large signal attenuation, DVB-T still offers enough reserves", explains José-Maria Clotet regarding the advantages that DVB-T, originally conceived for wireless distribution, offers even when used with cable distribution systems.

At PROMAX the melding of all these technologies is clearly noticeable: it no longer makes any sense for there to be a separation between satellite, cable and terrestrial signal distribution. For each application there is a different optimal solution and it is becoming more and more a hybrid solution stemming from different areas.

PROMAX has clearly paced itself for this future and as José-Maria Clotet puts it, "15% of our sales are invested in research and development."

That's where innovations come from!





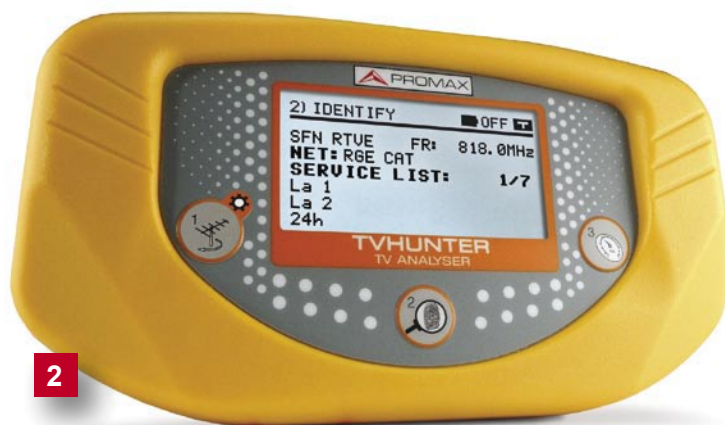



■ Where does PROMAX hide their satellite antennas? On the roof of course! Oscar Collado (right), Logistics Manager, can be seen here showing Alexander Wiese (left), TELE-satellite Editor-in-Chief, two of the eight dishes that have collected themselves on PROMAX's roof.



PROMAX Innovations

New products that PROMAX developed in 2009 and is introducing to the market



2. The new TV HUNTER receives not only HD signals in DVB-S2 and MPEG4, but also displays them all, including 720p and 1080i channels, on its built-in 16:9 monitor. Since many of these channels are encrypted, the TV EXPLORER HD comes with a CAM interface so that these channels can be decrypted.

2. PROMAX developed the TV HUNTER for those installers that work really fast. It is small, handy and extremely easy to use. The TV HUNTER was conceived for DVB-T signals; a similar unit was developed for satellite signals: the SAT HUNTER

3. The PROMAX AGIL-T is a channel-specific amplifier for digital and analog signals. It is compatible with every form of modulation and its unique selling point is the 10 programmable UHF filters with a bandwidth from 1 to 6 channels. The AGIL-T is also available with a satellite IF input.





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I wish I was 20 again!

■ Roy Carman in his comfortable easy chair. From here the coach potato, as he calls himself, controls his six receivers, two PC's, three monitors and many extras such as a spectrum analyzer to find active transponders with his numerous remote controls.

Roy Carman is crazy about feed hunting. With his two motorized dishes he is constantly on the lookout for satellite signal transmissions from all of the satellites he can see. He's already working on picking up DVB-S2 feed signals.

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- Software Limit Protection



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These new technologies are nothing new for Roy: "I am fascinated by all of these new possibilities", he says but at the same time regrets that he was born some time ago, "now it's getting really interesting!" Other new technologies such as IPTV are becoming popular. Roy is now retired and he's beginning to feel the effects of his age. "I set up my receiving station in such a way that I can control everything from my easy chair", he explains, "In the evenings my wife sits next to me and watches normal TV from a 60cm dish while I put on headphones and switch my monitor to the motorized system and check out all the feeds."

Roy started with his satellite hobby in 1984. He was a career soldier with the British Army and was stationed for many years in Germany and worked there, of all things, as the manager of a TV production unit. That's where he first became exposed to satellite transmissions.

After he was honorably discharged from military duty and returned to England, he

started working for a construction equipment dealer. But the satellite virus had already infected him. He acquired his first 80cm antenna from a satellite shop that today no longer exists. It was with this first system that he began searching for feed transmissions. "I always found it fascinating to receive something that no one else could watch", says Roy as he explains his motives.

In 1988 he reached a little deeper into his pockets and bought himself a 100cm antenna along with an actuator and an Echostar 8700 receiver: "Back then that set me back about 1000 pounds", remembers Roy as he thinks back to those expensive days. His main satellites at that time were INTELSAT at 27.5° west and PAS at 43° west.

One of his more interesting experiences with a feed occurred in 2001: "I was watching a feed on TELECOM 2D at 8° west. It was a congressional transmission and you could see the moderator standing in front of a large video screen. All of a sudden the heads of

everyone in the room turned towards that large video screen; the second airplane could be seen crashing into the Twin Towers." Roy was a witness to this event because of a feed that happened to carry a TV news transmission. "That experience was etched into my mind", comments Roy.

Today Roy operates six satellite receivers with two motorized antennas, one with a diameter of 100cm and the other 120cm in diameter. "I can't install any larger dishes; the community regulations won't allow it." He would love to be able to erect a C-band antenna. "We are on a hill here and the house points exactly to the south", comments Roy as he glances over to his house that he moved into 10 years ago. "It is a dream location for a satellite DXer!"

Roy uses a Manhattan XTF100 for his feed hunting: "It is very sensitive and also shows me the FEC values." What's so important about the FEC? Modern receivers can detect the FEC value automatically. "Maybe so", says Roy, "but

■ Roy Carman lives in this attached house in Dorking south of London and 45 minutes away from Victoria station by train. He set up his control center right behind the living room window with which he moves his 100cm antenna.



with real distant reception, such as at the edge of a satellite's footprint, everything counts, and if you're able to enter the FEC in the receiver manually, it may be possible to receive a signal while in automatic mode a receiver might not be able to recognize the FEC." You can learn something from Roy!

And how does Roy receive DVB-S2 feeds? "For this I use the TECHNOMATE 6900 HD", says Roy, "but I have to use one of my tricks to see if a feed is transmitted in DVB-S or DVB-S2." The TECHNOMATE 6900 HD does not indicate whether it is receiving in DVB-S mode or DVB-S2 mode. So what does Roy do? "I split the satellite signal and receive it in parallel with a DVB-S receiver." If Roy can only see the signal with his TECHNOMATE, then it must be in DVB-S2. If he can see it with both receivers, then it has to be DVB-S. You just have to find a way!

"In my opinion you should take your experiences and freely pass them on to others", believes Roy. For years he has

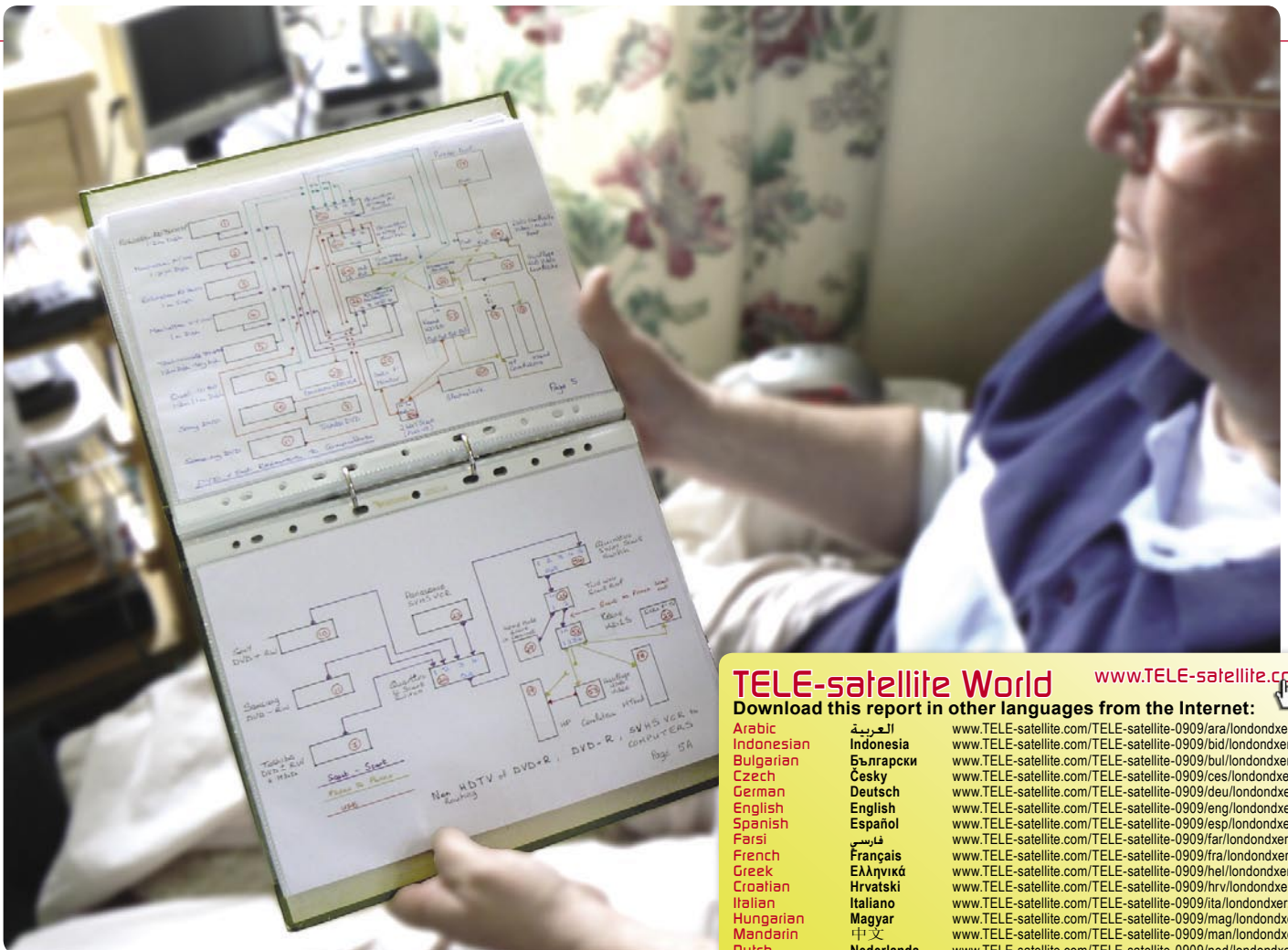
He erected a second 120cm dish in the backyard of his house. A smaller 60cm antenna for Sky TV can be found on the roof next to the chimney.



■ Roy opened his living room cabinet for this picture: here can be found the six receivers as well as a DVD players. "In order to quickly upload a software update I connected a null modem cable to each receiver and routed it to the front", says Roy as he gestures to the jack under each receiver.



■ Roy spent quite a bit of time connecting all of his receivers cleanly and neatly. Here is a look behind his 16:9 flat screen TV with all of its various cable connections.



■ For Roy it is too many connections for him to memorize. For this reason he created block diagrams so that he himself can remember what cable goes to which receiver.

been the moderator of one of the best European feed hunter groups in the Internet: groups.yahoo.com/group/feedhunters/ and groups.google.com/group/feedhunter with nearly 1500 members, and not just from Europe but from all over the world.

lite feeds. He also keeps up with changes in technology and constantly updates his satellite system.

Satellite reception is a hobby that Roy takes full advantage of.

To top it off, Roy produces a list of all of his feed discoveries once a month and sends them to other feed hunters. "I will gladly add every TELE-satellite reader to my address book", offers Roy, "just send an e-mail to roycarman@yahoo.com."

If you want to get an idea of what this feed list looks like, you can check it out online: Geoff Boyce in western England, also a feed hunter as well as a radio amateur, publishes Roy's list on his web site: www.radsat.co.uk/satellite_tv/satellite_main.htm.

Roy is very active with the reception of worldwide satel-

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The World of Satellite DXers

Backlist: DXer reports in previous issues of TELE-satellite

Diego Sanchez, Tenerife, Spain: www.TELE-satellite.com/TELE-satellite-0907/eng/tenerifedxer.pdf

Applesat, Beijing, China: www.TELE-satellite.com/TELE-satellite-0907/eng/dxer.pdf

Diego Sanchez, Tenerife, Spain: www.TELE-satellite.com/TELE-satellite-0907/eng/dxer.pdf

Feedhunter Rini, Amsterdam, Netherlands: www.TELE-satellite.com/TELE-satellite-0811/eng/dxer.pdf

Satheesan + Siddharth, India: www.TELE-satellite.com/TELE-satellite-0811/eng/indiadxer.pdf

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

RadSat Satellite TV subsite.

Monthly Satellite TV feed list.

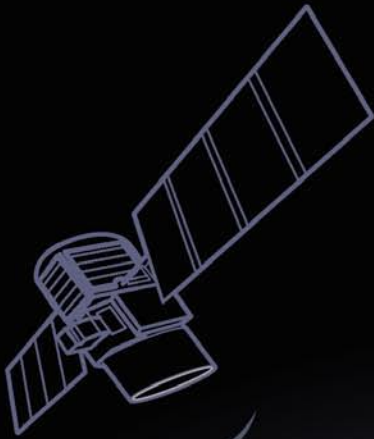
Roy Carman kindly prepares a list of all feeds found on the satellites every month. The information is given on an "as is" basis. Therefore I am not in control of the information given. Roy is a member of the Yahoo Groups "Feedhunters" and of the Google Groups "Feedhunter" like myself.

April 2009 satellite feed list.

Satellite	Frequency	Fol	SR	FEC	Vsat	Apnd	PCR	Identification	Type of feed	Date Seen
Intelsat 12	11472	V	6111	3/4	308	256	8190	FELTCH LIVE 2	4.2.2 Feed	01/04/2009
45 East	11554	V	6111	3/4	308	256	8190	ARQINA UK1458	Feed	01/04/2009
	11526	V	13333	Auto	308	256	8190	TVBCO RSC 1	S2 HDTV Feed	11/04/2009
TurkSat 3A	11167	V	3200	3/4	257	240	8190	VATAN TV	Programme	05/04/2009
42 East	11052	V	12000	Auto	308	256	8190	HDP 11	S2 HD/TV Feed	06/04/2009
	11442	H	2149	5/6	32	33	32	TVE-59	Feed	16/04/2009
	11440	H	2221	5/6	4130	4131	4130	DIGITAL-ENG	Feed	16/04/2009
	11164	V	2221	5/6	308	256	8190	TVE-57	Feed	16/04/2009
	11178	V	2222	5/6	33	36	33	AES SNG	Feed	16/04/2009
	11048	V	4442	5/6	308	256	8190	SNG 4	Feed	16/04/2009
	11048	V	7399	5/6	308	256	8190	XAYAR TV	Programme	16/04/2009
	11064	V	12999	5/6	300	301	300	SAMASTVCL TV	Programme (5 Chans)	16/04/2009
EntelSat AM 1	11181	H	10551	1/2	0	0	0	WNEL	?	04/04/2009
HotBird 2	10999	V	6535	Auto	200	1010	200	MEGA 3	Feed	03/04/2009
39 East	11101	V	3322	3/4	200	1010	200	MEGA 3	Feed	04/04/2009
	11038	V	3025	Auto	308	256	8190	GRC-013	Feed	04/04/2009
	11010	V	3200	Auto	308	256	8190	Program 1	Feed (3 Chans)	05/04/2009
	10996	V	6250	Auto	200	1010	200	MEGA 3	Feed	05/04/2009
	11038	V	4444	Auto	512	4112	8190	ITA 450	Feed	15/04/2009
	11038	V	5666	Auto	511	512	511	RDS-021	Feed	23/04/2009
	11108	V	6556	Auto	512	4112	8190	TV1 www.in-14g.com	Feed	26/04/2009

comment about the new layout...

Geoff Boyce publishes Roy's feed list on a monthly basis at www.radsat.co.uk. Here you can see everything that a feed hunter in Europe can receive.



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60~65 dB
1 output(standard)/
2/4 outputs(optional)

TRUSAT600

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Dual Circular
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<-30dB
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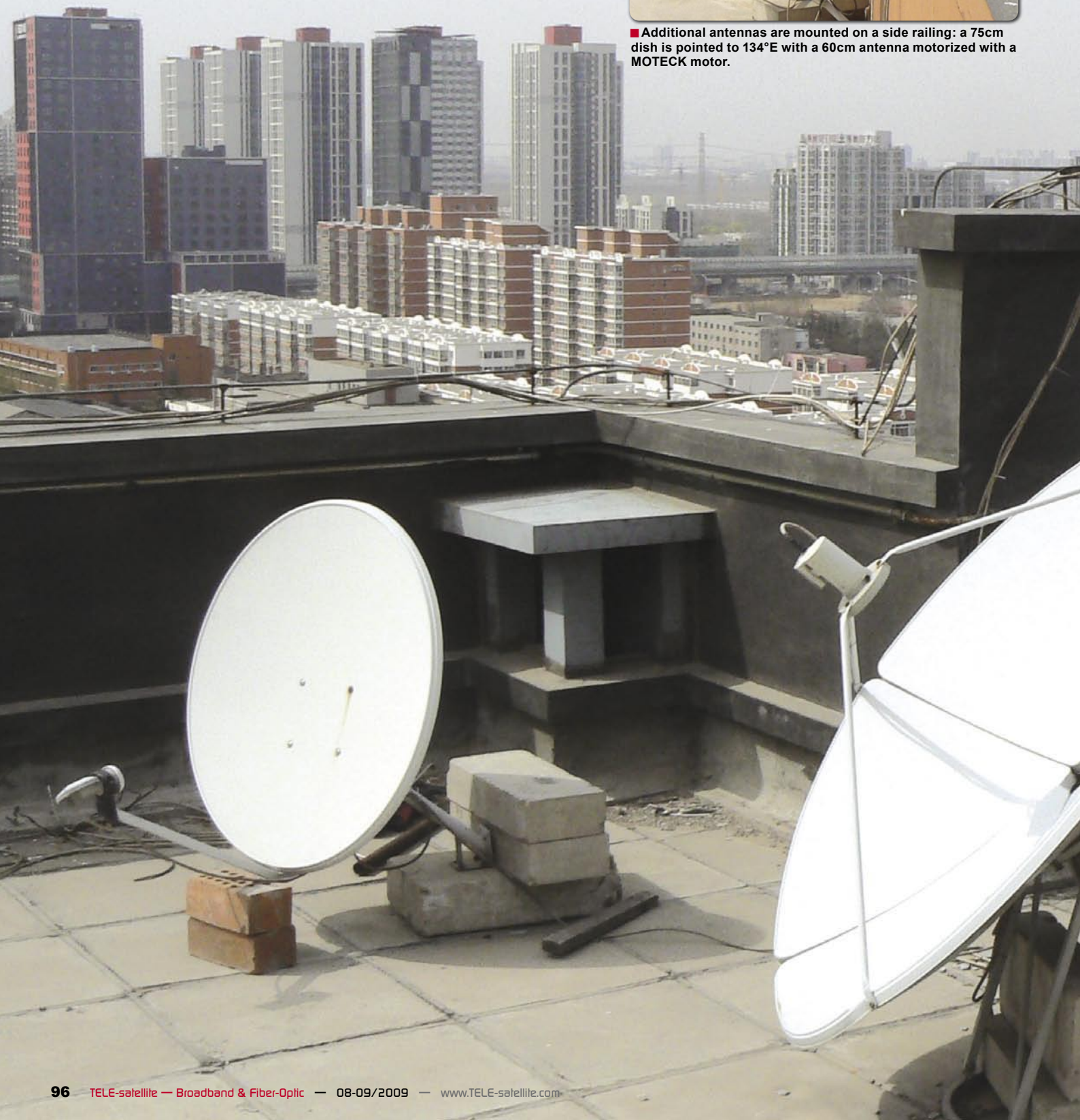
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The Sat Handyman from Beijing



■ Additional antennas are mounted on a side railing: a 75cm dish is pointed to 134°E with a 60cm antenna motorized with a MOTECK motor.



One of the most active handymen would have to be ShiToy who adopted the English nickname Stone – it was an easy choice: the Chinese word ShiToy means stone in English. Thanks to his education as an IT technician he knows his way around and involves himself intensively on the technical side of his satellite reception hobby. We met up with him in his apartment in a newly built section in northern Beijing just outside the 5th Ring Road – actually, there really isn't any old-town section in Beijing; all of the construction took place within the past few decades.

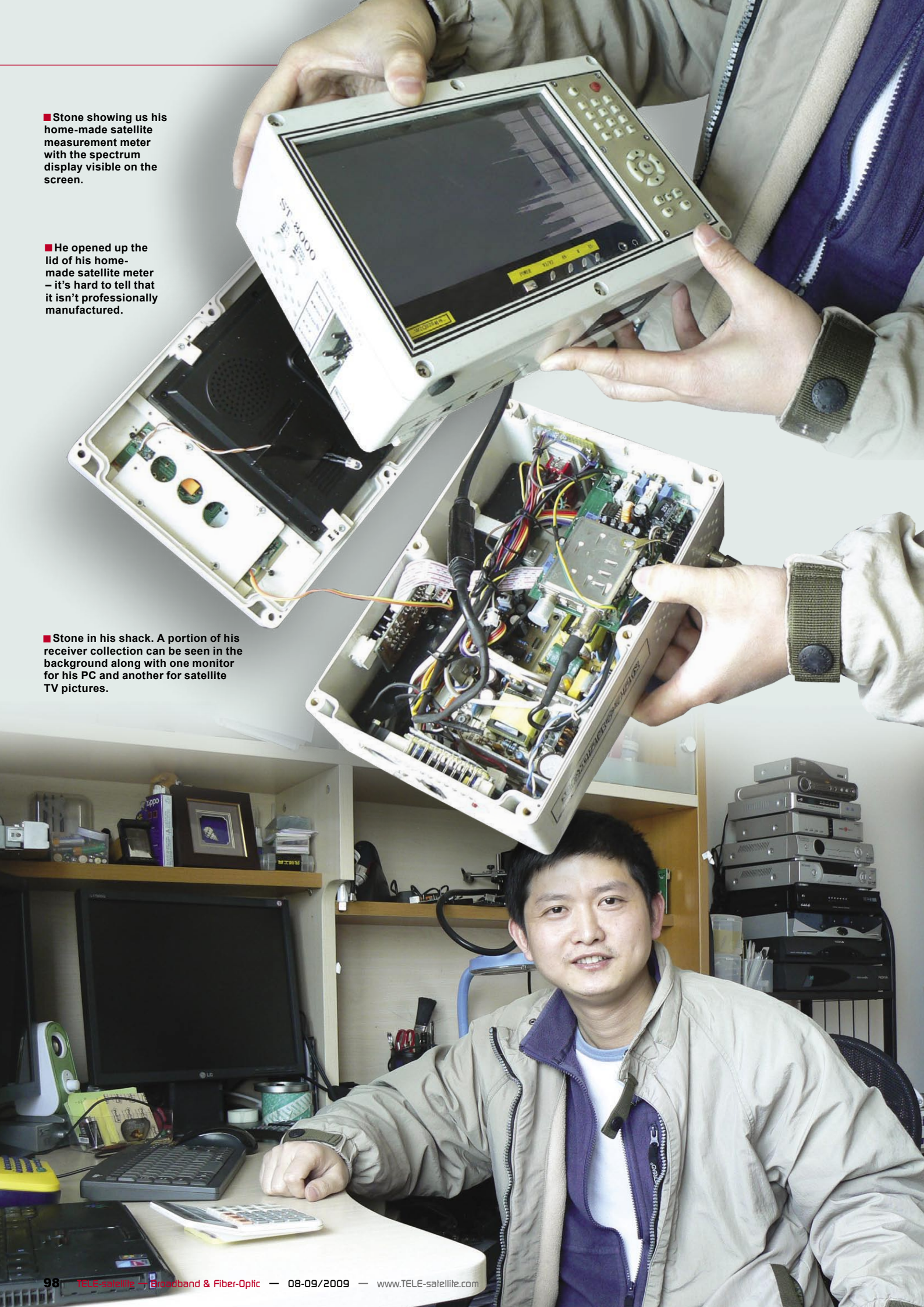


■ Stone, a regular reader of the Chinese version of TELE-satellite, on the roof of his apartment building. The 1.8-meter antenna is aligned to 138°E while the 1.5-meter dish is pointed to 115.5°E with another looking at 107.5°E.

■ Stone showing us his home-made satellite measurement meter with the spectrum display visible on the screen.

■ He opened up the lid of his home-made satellite meter – it's hard to tell that it isn't professionally manufactured.

■ Stone in his shack. A portion of his receiver collection can be seen in the background along with one monitor for his PC and another for satellite TV pictures.





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Stone explains how it all started: "I acquired my first 60cm antenna in 2001; I wanted to receive Phoenix and Star TV from Hong Kong." Since then his interest in satellites grew at a rapid pace. Over the next several years he not only acquired one dish after the other, but also numerous different receivers until the day came when he too looked for the perfect satellite hobbyist apartment.

Stone, originally from the Hunan province in southern China, came to Beijing in 1997 and found himself an apartment in a complex in which he still lives today. "At first I had a ground-floor apartment", explains Stone, "but recently I was able to swap this apartment for one on the 11th floor." But that still meant cable runs exceeding 200m to his dishes on the roof of the 18-story building. "Signal attenuation is still reasonably low", he says as he shows us the coax cable, "I use a high-quality cable with very little signal loss."

He set up all of his dishes up on the flat roof. But this led to a very interesting problem: how do you align all the antennas when you're so far away from the receivers? Stone's do-it-yourself talent came into play here: he bought himself a plastic housing and installed the main circuit board of a receiver into

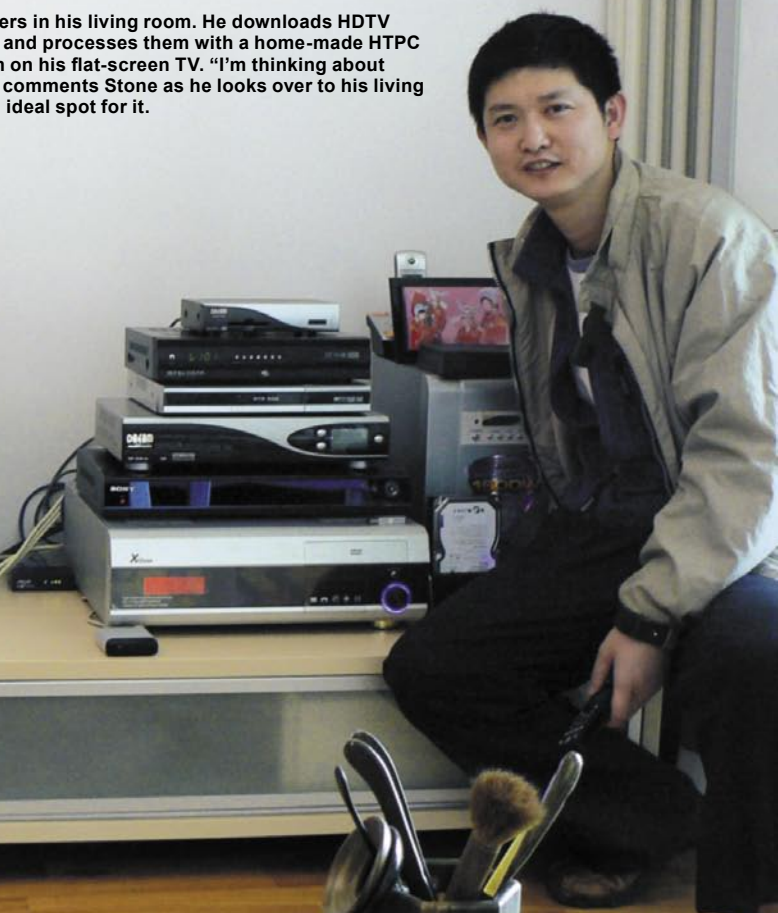
it along with a lithium battery and a matching flat-screen monitor. The result was a home-made satellite signal meter with 16:9 flat-screen monitor and LED battery level indicator. Upon asking Stone if he ever considered professionally producing something like this, his answer was: "I'm doing this for fun; I'm not interested in making money with this." To prove that he's really taking his hobby seriously, he showed us more circuit boards with which he is working on additional experiments, such as, routing the satellite video signal via GPRS or designing his own audio section: "This would replace the existing audio section in a well-known receiver that simply puts out too low an audio level", explains Stone

Stone is very active in the Chinese satellite scene. He reports on all of his home-made ideas on his homepage: www.dvbs.org.cn. "Every year satellite DXer's from all over China meet here in

Beijing to swap their ideas and experiences", explains Stone, "the last time it was over 300 people." During these meetings, lectures are given. "I gave a 20-minute talk on how to use the AB-COM IPBOX 250S", comments Stone proudly. He explains why this AB-COM box is so popular in China: "It is an unusually robust box with very stable running software." The AB-IPBOX software was translated into Chinese by these same satellite handymen.

Stone is one of these handymen who understands satellite technology and enjoys coming up with his own ideas. Maybe someday he will turn his hobby into his profession; hey, you never know.

■ Stone set up the receivers in his living room. He downloads HDTV movies from the Internet and processes them with a home-made HTPC box in order to view them on his flat-screen TV. "I'm thinking about getting a projection TV", comments Stone as he looks over to his living room wall. It would be an ideal spot for it.





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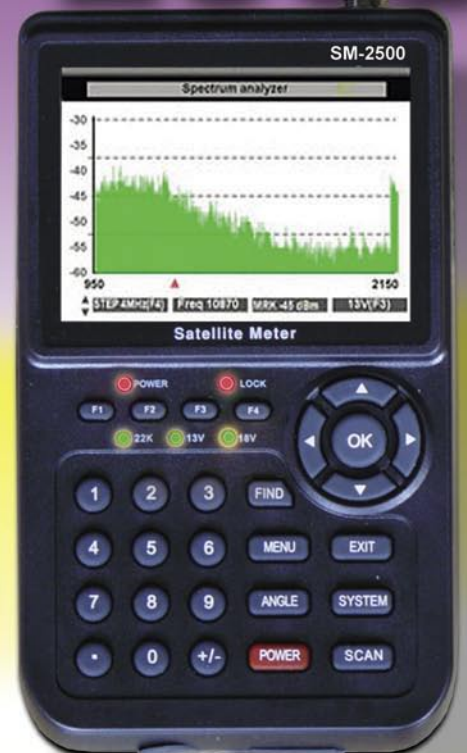
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The wind was stronger!

Talk about tough luck. A recent storm tore down the 1.8 m dish of the SatcoDX scanning station in Indonesia. The mounting parts could not withstand the huge wind loads during the storm. Naturally, the new construction to be erected will take this risk into account. We all learn from our mistakes!



■ Before: The mast proudly carries the 6-segment dish with a diameter of 1.8 m for reception of PALAPA C2 at 113°E and CHINASAT 6B at 155.5°E (received in the antenna's offset) on the roof of SatcoDX's scanning station in Indonesia. As a matter of fact, it is not located in the capital Jakarta, but in Pontianak, which is in the west of the Malay archipelago. If required, a motor allowed rotating the dish eastward all the way to INTELSAT 8 at 166°E and westward to YAMAL 202 at 49°E. Next to the air-conditioner you can see two more small dishes which are also used by the auto scan station.

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■ After: What a shame – the 1.8 m dish has collapsed due to high wind loads.



■ Some panel sections as well the LNB mount complete with the two LNBs are damaged.

New Satellites *to be launched soon*



Edited by
Aleksandar Medic

ARABSAT 5A

This C-band multi-mission satellite will be launched on a Proton Breeze M vehicle from the Baikonur Cosmodrome in Kazakhstan. It will be located on 30.5° East and replace the old ARABSAT 2B satellite. It will have 26 C-band (16 normal + 10 in the so-called Appendix 30B) and 24 (12+12) Ku-band transponders. The satellite will be built and delivered in orbit by a joint team of Astrium and Thales Alenia Space. Astrium, as the leading partner, will supply the platforms and integrate the satellites. Thales Alenia Space will design and build the communications payloads. The team will also upgrade the ground control segment for the extended ARABSAT satellite fleet. ARABSAT 5A is an Eurostar E3000 model satellite with a launch mass of 4,800 kg and a spacecraft power of 11kW at the end of its 15-year service lifetime. It will be capable of serving the entire Africa and Middle East (MEA) regions, as well as most of Central Asia with a large range of communications services such as television backhauling and broadcasting, telephony, business communications, Internet trunking and the provision of VSAT and other interactive services.



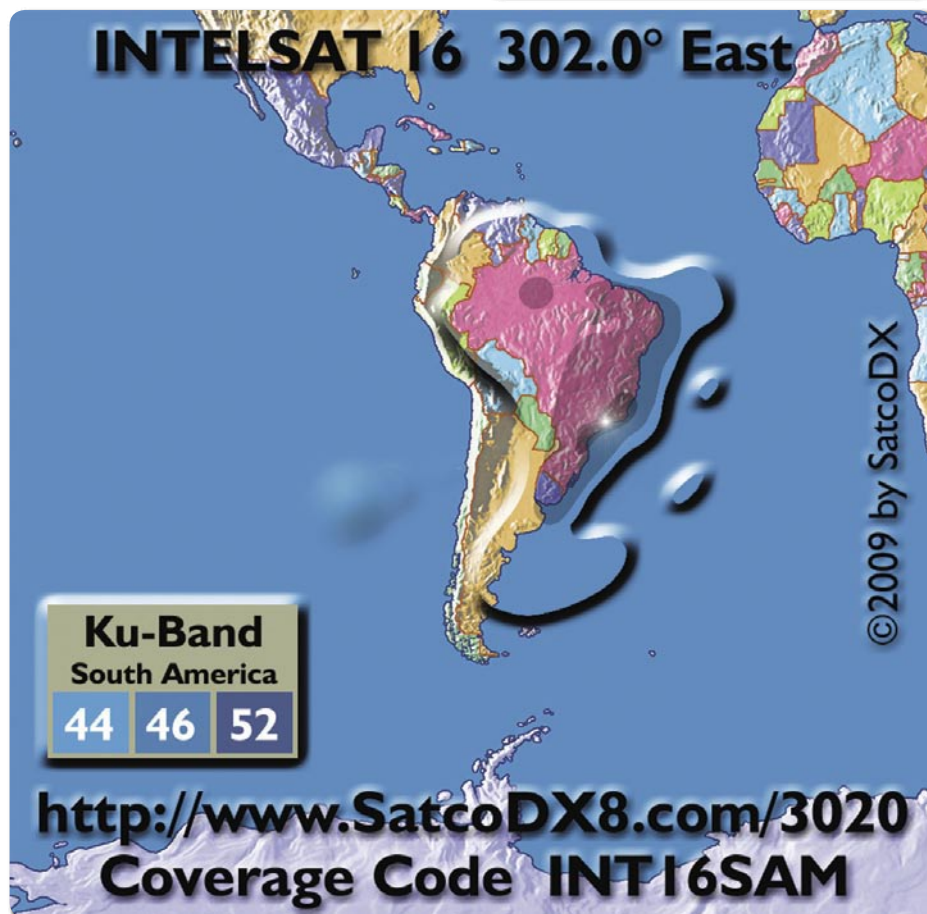
AMC-5R

This SES-Americom satellite has been built by Orbital Sciences Corporation on the Star-2.4 Bus platform and will replace AMC-5 at the 281.0° East (79.0° West) orbital position. It has 24 C-band and 24 Ku-band transponders that 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. The bird has a launch mass of 3,152 kg, approximately 5 kW of payload power and a mission life of 15 years.



INTELSAT 16

INTELSAT 16, the new satellite with 24 Ku-band transponders will occupy 302.0° East (58.0° West) orbital position. The satellite employs Orbital Sciences Corporation's Star-2.4 Bus and will be launched from Baikonur cosmodrome on the Proton Breeze M vehicle. The satellite has a lifetime of 15 years and a mass of 2,5 tons. It will provide high power Ku-band capacity for DTH services in Latin America and serve as a complement to the INTELSAT 9.



Oct. 12, 2008 - Baikonur Cosmodrome in Kazakhstan
Launcher of the Soyuz TMA-13 spacecraft, carrying
the crew of Expedition 18

(Photo credit: NASA/Bill Ingalls)





Edited by
Aleksandar Medic

HYLAS

The Highly Adaptable Satellite (HYLAS) uses small satellite technology to help solve the problem of unequal access to broadband internet services across Europe. This ISRO I-2K platform Ka-/Ku-band bird ordered by the British broadband communications operator Avanti under a turnkey procurement from EADS Astrium will operate at the 326.5° East (33.5° West) orbital position. It will be launched to a geostationary orbit on a Falcon 9 vehicle. HYLAS has two adjustable Ku-band transponders (from 18-120 MHz), and eight 250 MHz forward link + eight 120 MHz return link Ka-band spot beam transponders. The satellite has a launch mass of 2300 kg, payload power of 2 kW and a lifetime of 15 years. The signals from this satellites will be so strong that only 66 cm VSAT terminals and 45 cm DTH antennas will be required for their use and it is worth noting that this satellite will be able to serve between 150 and 300 thousand users at any moment. HYLAS will deliver a flexible combination of resilient, ultra-high speed corporate networks, two-way broadband access services, IPTV platform distribution, Ka-band interactive TV return channel and HDTV. HYLAS will be the first UK-owned and operated broadcast satellite for 15 years.



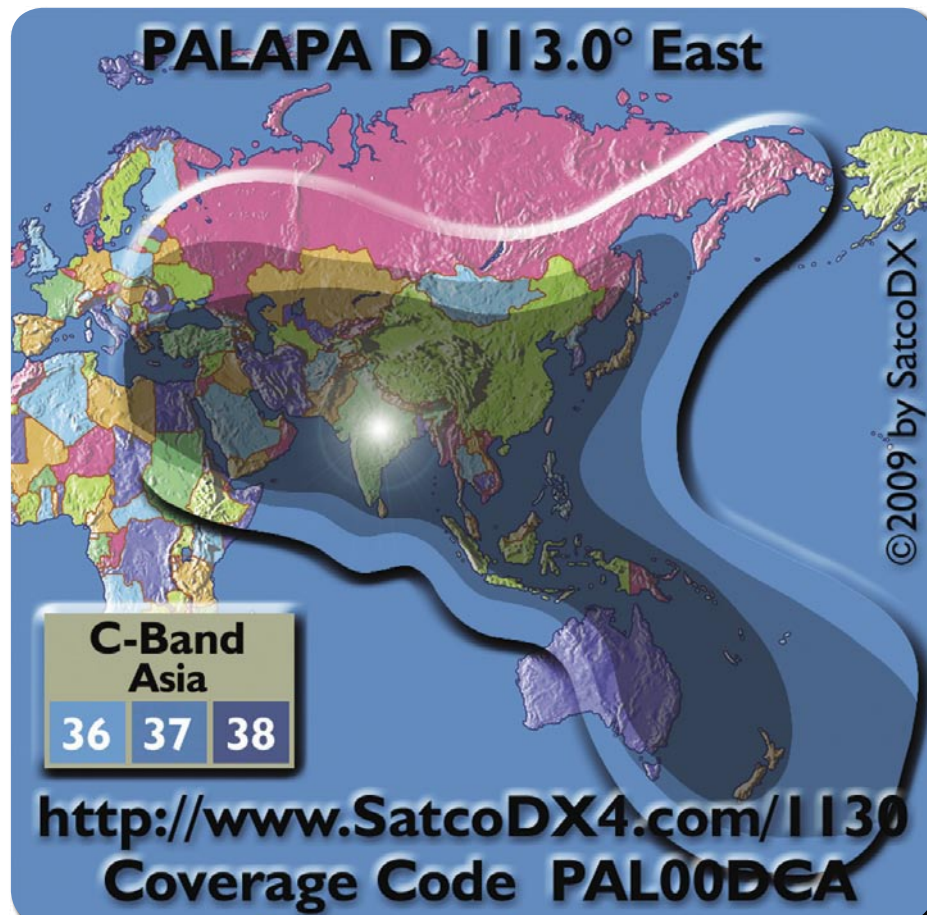
ASTRA 3B

This satellite built by EADS Astrium on a Eurostar E3000 platform will be launched using Ariane 5 vehicle. ASTRA 3B is a state-of-the-art spacecraft designed for both DTH broadcast and two-way broadband services across Europe. The satellite has 52 Ku-band and 4 Ka-band transponders. Over time, the satellite will replace all existing capacity on 23.5 degrees East. ASTRA 3B launch mass is 5400 kg and its service lifetime is 15 years. According to Ferdinand Kayser, President and CEO of SES ASTRA, this company plans to use this satellite „to serve the growing demand for high quality digital and High Definition broadcasting from the very dynamic Central and Eastern European and Benelux markets and offer additional capacity to the satellite broadband markets.“



PALAPA D

This satellite, operated by PT Indosat Tbk and built by Thales Alenia Space will replace PALAPA C2 satellite at the 113° East orbital position. This satellite is based on the Spacebus 4000B3 platform and has 35 C-band and 5 Ku-band transponders that will enable good coverage of Indonesia, ASEAN countries, Asian countries, Middle East and Australia. The cost of building and launching PALAPA D, which will serve TV broadcasters, VSAT providers and corporate customers while also providing backbone support for Indosat's cellular, fixed voice and fixed data services, is about \$250 million. PALAPA D satellite has a launch mass of 4.1 tons, a payload power of 6.4 kW and a service lifetime of 15 years.



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satellite
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Edited by
Branislav Pekic

EUROPE

EUROPE

ASTRA 5A SATELLITE SWITCHED OFF

Following a technical incident in January this year, SES Astra had to put Astra 5A out of service and end the spacecraft's mission. A team of technical experts and engineers since then succeeded in removing the satellite from the geostationary orbit and move it into a higher, secure orbit outside the geostationary ring. SES Astra moved its Astra 2C satellite to 23.5 degrees East, the orbital position formerly occupied by Astra 5A, in order to resume the services for customers from that position.

EUTELSAT W2A SATELLITE OPERATIONAL

The Eutelsat W2A satellite, launched on April 3, became fully operational in mid-May. The Ku and C-band W2A satellite almost triples resources at Eutelsat's 10 degrees East position, which is one of the most longstanding locations in Europe and Africa for professional video, data and Internet services. With W2A's entry into service Eutelsat has also introduced a new mission comprising 10 C-band transponders. Centred over the African continent, the C-band footprint takes in large parts of the Middle East and central Asia to the East and stretches across to Latin America in the West. Following this redeployment Eutelsat's W1 satellite has been repositioned to 4 degrees East where it operates under the name Eurobird 4A.

AUSTRIA

TELEKOM AUSTRIA TOPS 75.000 IPTV CUSTOMERS

Telekom Austria has celebrated reaching the 75,000th customer for its IPTV service aonTV. The operator had 63,800 subscribers to the service by the end of last year, and reports that the platform's footprint now covers 65% of all households in the country. The service offers 63 linear channels on its basic tier, as well as over 300 on-demand movies, and the option to subscribe to a number of premium channels.

BELGIUM

BELGACOM INTRODUCES NEW IPTV PACKAGE

Belgacom has introduced a new package called Belgacom TV Comfort, which replaces the 'Classic+' package and includes the 'Comfort View' feature set (Pause TV, Rewind and Record). The new package costs EUR 12.50 per month, with 75 SD channels available in Wallonia, 82 available in Flanders and 90 available in Brussels, plus five HD channels: één HD, Canvas HD, vtm HD, TF1 HD and France 2 HD. Rental of the set-top box, offering HD reception plus PVR features, costs EUR 6 per month. Belgacom had 506,000 IPTV subscribers at the end of 2008.

CROATIA

ISKON LAUNCHES IPTV SERVICE

Iskon, a subsidiary of Croatian incumbent operator T-Hrvatski Telekom (T-HT), has launched an IPTV service called Iskon.TV, initially available in nine cities: Zagreb, Split, Rijeka, Pula, Osijek, Velika Gorica, Samobor, Opatija and Solin. The service features over 40 channels,

whilst double- and triple-play packages bundling internet access and telephony are available, as well as a number of converged services such as telephone Caller ID on the TV screen.

T-HT RECORDS HUGE INCREASE IN IPTV SUBSCRIBERS

T-Hrvatski Telekom (T-HT) reached 150,953 subscribers to its IPTV service MAXtv by the end of the first quarter of this year, up a whopping 167.9% from the 56,355 customers registered at the end of March 2008. The strong growth was supported by the new standalone MAXtv service, which does not require a broadband subscription. MAXtv features blockbuster films from studios including Warner Bros, Paramount Pictures, NBC Universal as well as numerous local and international TV channels.

DREAMPARK TO DELIVER IPTV MIDDLEWARE

IPTV middleware provider Dreampark has delivered its Dreamgallery middleware to Croatian system integrator CS Computer Systems. The system was deployed for OiV, a Croatian state-owned nationwide broadcasting and channel aggregation organization. CS Computer Systems, with a broad customer base in the broadcast industry, will offer Dreampark's IPTV middleware and provide system integration services to its customers. The first operator contract is signed and the system was successfully delivered in February 2009.

FRANCE

FRENCH IPTV SUBSCRIBERS TOP 6.2 MILLION

French telecoms regulator ARCEP has revealed that 6.2 million French homes now have IPTV subscriptions - an increase of 36.8%. Figures indicate that 37% of all DSL subscribers in the country took TV as part of their broadband connection at the end of last year. France Telecom was France's largest IPTV provider, with its Orange TV brand boasting 2.2 million digital TV subscribers.

TNT HD CHANNELS INTRODUCE DOLBY DIGITAL

Dolby Digital Plus has become the sole audio stream for three leading high-definition terrestrial channels broadcast on France's national Television Numerique Terrestre HD (TBT HD) platform. The TNT HD multiplex R5 carries channels TF1 HD, France 2 HD and M6 HD and the introduction of Dolby Digital Plus allows broadcasters to release valuable bandwidth to further improve the quality of the HD video transmissions.

ORANGE SPORT REMAINS EXCLUSIVE TO FRANCE TELECOM

A French appeals court has told France Telecom it can keep exclusivity on its Orange Sport IPTV channel. After IPTV rivals SFR and Iliad brought a case in February, the Paris Commercial Court had ruled that Orange had an unfair competitive advantage because the service is only available to Orange's ADSL internet subscribers. But in June it overturned that decision, meaning it gets to retain a package of exclusive live French league football. However, France's anti-trust authority is set to make its own ruling on the sport channel as well as Orange's cinema channel.

GERMANY

KIRCH GETS IPTV BUNDESLIGA RIGHTS

Leo Kirch's Constantin Medien Group has acquired IPTV and mobile rights to top league Bundesliga football for the next four seasons as part of a sub-licensing deal with Deutsche Telekom. The entertainment and sports conglomerate, previously known as EM.Sport, is launching its own

channel to broadcast all 612 football matches of the Bundesliga's first and second leagues and will distribute its own live program as part of a feed-in agreement via Entertain, Deutsche Telekom's IPTV service, as well as other mobile platforms.

DEUTSCHE TELEKOM WITH 448.000 IPTV SUBSCRIBERS

Deutsche Telekom sold 600,000 subscriptions to its German IPTV service T-Home Entertain by the end of the first quarter of this year, compared to 480,000 at the end of last year, with 448,000 subscriptions being in operation by the end of March. Deutsche Telekom has also revealed that it is planning to expand the number of linear channels available to its German IPTV subscribers, and from this summer will enable them to read emails, listen to music, and view personal media including photos and video, all via the IPTV platform.

SES ASTRA LAUNCHES NEW HD OFFER

SES Astra launched a new TV offer in High Definition in Germany during June. The first programmes which will be part of the HD+ offer are the commercial channels RTL and VOX. Relevant agreements have been signed with the Media Group RTL Germany. RTL has contracted additional long-term transponder capacity for the transmission of the new HD programmes from Astra's orbital position 19.2 degrees East. The launch of HD+ is foreseen for late autumn.

ITALY

TELECOM ITALIA REACHES 365.000 IPTV SUBSCRIBERS

Telecom Italia had reached 365,000 subscribers for its IPTV service Alice Home TV by the end of the first quarter of this year, adding 36,000 customers in the three-month period. The operator is set to become the biggest IPTV player in Italy this year, finally overtaking rival Fastweb, according to a new report from Pyramid Research. The report indicates that FastWeb had a 46 per cent share of the Italian IPTV market at the end of 2008. With the number of Italian IPTV subscribers totaling 863,000 at the end of last year, that puts FastWeb's customer base at almost 400,000. Telecom Italia, meanwhile, ended the year with 329,000 IPTV customers, giving it a market share of 38 per cent. The third main Italian IPTV player is Wind, which ended 2008 with about 80,000 TV customers, giving it a 10 per cent market share.

LATVIA

LATTELCOM INTRODUCES FTTP CONNECTIONS IN RIGA

Lattecom has started offering ultra-fast Internet connections to a limited number of homes in the capital city of Riga, delivered via its new fibre-to-the-premises (FTTP) network. The new services are available to around 100 homes in the district of Zolitude, offering speeds of up to 100 Mbps. The new ultra-fast connections also support Lattelecom's IPTV service Lattelecom Interactive TV, including multi-room services and high-definition content. Lattelecom enjoyed a fourfold increase in the number of subscribers to its IPTV service during 2008, although the company did not divulge actual figures.

NETHERLANDS

KPN ARRIVES TO 835.000 PAY-TV SUBSCRIBERS

KPN added 60,000 subscribers to its pay-TV services (delivered via IPTV, DTT and mobile) in the first quarter of this year to reach 835,000 by the end of March, giving the company a 12% share of the Dutch TV market. ARPU for its TV

services reached EUR 7 per month for the first quarter of this year, up 16.7% year-on-year. KPN says it had 246.000 subscribers to its triple-play services by the end of March 2009, up 33% year-on-year.

POLAND

TPSA ARRIVES TO 86.000 IPTV SUBSCRIBERS

TPSA ended the first quarter of this year with 198.000 subscribers to its pay-TV services (delivered via IPTV and satellite), compared to 113.000 customers three months previously and giving a fourfold increase from the first quarter of 2008. Out of this total, the company had 112.000 subscribers for its recently-launched satellite TV service and 86.000 subscribers to its IPTV service 'Videostrada'.

PORTUGAL

PORTUGAL TELECOM SELECTS ALCATEL-LUCENT, HUAWEI

Alcatel-Lucent has been selected by Portugal Telecom to deploy the company's fibre-to-the-home (FTTH) network. The next generation network (NGN) will be based on Alcatel-Lucent's gigabit passive optical network (GPON) technology providing customers with access to high speed broadband and HDTV. Portugal Telecom has also selected Huawei Technologies to assist in the development of its FTTH network. The new FTTH network is expected to enable Portugal Telecom to increase the efficiency and quality of services such as high-definition IPTV, high-speed Internet and advanced IP telephony services.

RUSSIA

VIMPELCOM LAUNCHES BEELINE IPTV

VimpelCom has announced the availability of its Beeline IPTV service, which comes about one year after the company said its subsidiary, Corbina Telecom, was working with Microsoft on a trial of IPTV over the vendor's Mediaroom platform. The Beeline brand currently has more than 800.000 broadband subscribers in Russia alone. The new service will have 125 channels, about 3,000 on-demand titles and PVR functionality.

NORTH-WEST TELECOM LAUNCHES AVANGARD TV

North-West Telecom has launched its IPTV service Avangard-TV in the city of Kaliningrad, featuring linear and VOD content, PVR services, replay options and a TV archive. North-West Telecom recently reached nearly 6.000 subscribers for Avangard-TV by the middle of last month, which it launched commercially in December 2007 to its customer base in the north-west of Russia.

SLOVENIA

TELEKOM SLOVENIJE WITH 95.300 IPTV SUBSCRIBERS

Telekom Slovenije reported that IPTV customers grew from 53.400 in March 2008 to 95.300 in March 2009. This figure means that more than 45 per cent of its 209.000 broadband customers have also signed up for IPTV services. The IPTV subscriber base grew mostly thanks to the rollout of higher-speed broadband, including FTTH. Rival T-2 ended 2008 with about 75.000 IPTV customers.

SPAIN

IMAGENIO TO CAPTURE 70% OF IPTV MARKET BY 2023

Telefónica will control 70% of the country's IPTV market by 2023, leaving 30% to competitors Orange and Jazztel, according to a new report on the Spanish fibre-to-the-home (FTTH) market from telecoms regulator CMT. Telefónica controlled 100% of the market in 2006, according to the report, and now holds around 85% due to the subsequent entry into the market of Jazztel and Orange. Imagenio is expected to continue losing market share as the rival services grow, but will retain two in every three Spanish IPTV subscribers. The CMT believes that access to premium content will help Telefónica hold onto a 70% market share by 2023, despite Orange and Jazztel potentially doubling their subscriber bases by the end of the period.

UNITED KINGDOM

MOVE NETWORKS ACQUIRES INUK NETWORKS

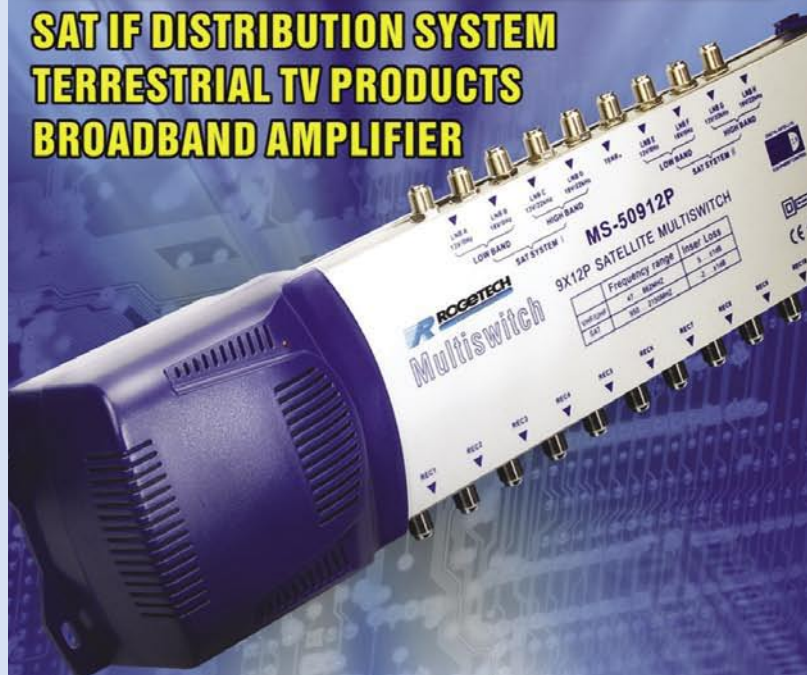
US online video specialist Move Networks has acquired Inuk Networks, the UK-based company backed by Welsh broadcaster S4C that's aiming to roll out an IPTV version of Freeview. Move, which counts ABC, ESPN, Fox, The CW, ProSieben and Televisa among its existing broadcast clients, is taking its first major stride into the UK with the Inuk buy-out, the terms of which were not disclosed. Inuk launched Freewire – billed as an IPTV equivalent to UK DTT platform Freeview



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— within university campuses. The acquisition will see Freewire launching in the US and Scandinavia later this year.

BBC HD AVAILABLE ON VIRGIN TV

Content from the BBC HD channel has been made available to Virgin Media subscribers via the public broadcaster's iPlayer online catch-up service. The agreement between the BBC and Virgin Media TV means customers with an HD V+ set-top box and HD-ready television will now be able to watch BBC HD content and on-demand. The BBC added its HD channel to the iPlayer service in April.

VIRGIN MEDIA PREPARES 200 MBPS BROADBAND

Virgin Media is doing its best to keep ahead of the demands of new technology and is testing 200 Mbps broadband in Ashford, Kent. The company is preparing for an expected demand in the future for streaming TV in HD and 3D formats, and playing 3D computer games. Virgin is carrying out a six month pilot scheme in Ashford, and will test 3D and HD TV services, video conferencing and home video surveillance. The 200 Mbps service is believed to be the fastest in the world, followed by 160 Mbps in Japan and 101 Mbps in the US.

SKY+ HD DVR IN OVER ONE MILLION HOMES

BSkyB has announced that its Sky+ HD service has now been deployed in over a million Sky households (1,022 million, compared to 465,000 this time last year), following record sales in the first three months of 2009. The Sky+ DVR service (which is powered by technologies from NDS and OpenTV)

added 406,000 net new subscribers during the quarter and is now in over 5 million homes.

FREEVIEW TO GO HD FOR WORLD CUP

Ilse Howling, the managing director of Freeview, has disclosed that the roll-out of Freeview HD, which was originally set to launch in line with the switchover timetable, has been brought forward. Some 40 per cent of homes in the UK will have access to Freeview HD for the football tournament in South Africa next June. Plans for the roll-out of the BBC's iPlayer on Freeview are also ahead of schedule, with expectations that iPlayer-enabled Freeview boxes will be available later this year. Howling also said that almost 14 million homes have HD ready televisions.

NORTH AMERICA

CANADA

619,000 HDTV SUBSCRIBERS FOR ROGERS CABLE

Rogers Cable has announced that its digital cable subscriber base grew by 11.5% in the last year to 1.59 million subscribers. In addition, the company announced significant growth in the number of HDTV subscribers. In the first three months of the year, the number of HDTV subscribers at Rogers climbed 9% to 619,000 households.

TELUS TOPS 100,000 SUBSCRIBERS FOR TELUS TV

Telus passed 100,000 subscribers for its IPTV service Telus TV in April, as it continues to rollout

infrastructure and supporting marketing campaigns for the IPTV service in Alberta, British Columbia and Eastern Quebec. Since launching the service, the company has added 33 HD channels, PVR features with up to 60 hours of HD recording, and high-definition on-demand titles, and through a concerted investment programme is also expanding HD coverage of its network. Telus also revealed that it intends to launch Telus Satellite TV later this year, enabling the company to extend the footprint of its multi-play services to more than 90% of households across British Columbia and Alberta.

UNITED STATES

CENTURYTEL TO EXPAND IPTV SERVICE

CenturyTel is expanding its IPTV service to more communities within its service footprint, testing the market to determine if it will do a full-scale rollout of IPTV services in the territory it got through its acquisition of Embarq last year. CenturyTel, which has been operating a pilot IPTV program in La Crosse, Wisconsin, for the past four years, said it plans to extend the service beyond that area by using bonded DSL2+ broadband lines.

DISH NETWORK, CABLEVISION ADD HDTV CHANNELS

Dish Network has introduced a number of new HD channels, claiming it now offers more HD services than any other US provider. Dish's total number of HD offerings now exceeds 140. The new feeds are for FX, Speed, Logo, Max TV and Fashion TV. For its part, Cablevision has reached 100 HD channels throughout their markets by June. New HD

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BET LAUNCHES HD POWERED BY MOTOROLA

BET has implemented Motorola's HD MPEG-4/AVC encoding system to deliver its programming in HD. The deployed system has enabled BET to easily integrate new MPEG-4 HD channels with its existing DigiCipher II uplink systems to deliver high quality video with very efficient distribution and bandwidth utilization. BET will deploy a hybrid uplink system using SE-5100 HD, a real-time, full resolution high-definition and standard definition AVC video encoder which builds on the previously deployed DigiCipher II platform to distribute its programming via satellite.

ARABIC IPTV SERVICE LAUNCHES IN NORTH AMERICA

A set top box (STB)-based Arabic language TV service launched in North America during June, offering around 40 Arab TV channels to the estimated 500,000 Arabic speakers in the United States and Canada. TV2moro offers tiered packages, a la carte channels and on-demand content with monthly fees ranging from US\$25-45.

CONSOLIDATED SURPASSES 18.000 IPTV SUBSCRIBERS

Consolidated Communications, which serves the three states of Illinois, Texas and Pennsylvania, added more than 1.500 subscribers to its IPTV service in the first quarter of this year to reach 18.207 customers by the end of March. The operator also extended its IPTV footprint past a further 4.500 homes in the three-month period, while its total DSL subscriber base numbered 94.600 customers by the end of last March.

NEULION LAUNCHES ROMANIAN IPTV PLATFORM

NeuLion has launched a new IPTV network for Romanian audiences in North America. iTVRSN provides viewers an extensive selection of Romanian TV programs from Romania and content includes more than 25 TV programs with exclusive distribution rights outside Romania. The Romanian-American Network estimates over 1.2 million Romanian Americans are presently living in North America.

NORTH STATE CHOOSES TANDBERG FOR IPTV SERVICE

North State Communications has selected Tandberg Television's iPlex encoding and transcoding platform as its new IPTV head end, receiving content directly from broadcasters and delivering it to subscribers in MPEG-4 format. The new service will offer over 250 linear channels, including 50 HD channels.

GULFPINES SELECTS FALCION IP/COMPLETE IPTV SOLUTION

GulfPines Communications, a subsidiary of Mississippi-based Fail Telecommunications, has selected an end-to-end IPTV solution from Falcon IP/Complete and Verimatrix to rollout its new IPTV service. The Verimatrix Video Content Authority System (VCAS) for IPTV has been integrated with the Falcon IP/Complete IPTV delivery system, which includes content aggregation and delivery from satellite, router and DSLAM to set-top box, in order to facilitate the new IPTV service. The new service utilizes Thomson middleware and includes PVR and parental lock features.

RECORD SUBSCRIPTIONS FOR AT&T's IPTV SERVICE

AT&T's IPTV service, U-Verse TV, added a record 284.000 net subscribers in Q1 2009 and now boasts a total base of more than 1.3 million users. U-verse TV is available in 93 markets across 19 states. The increase is due in part to AT&T's DVR service, which allows users to record TV programs. The DVR service is free with most U-Verse packages.

VERIZON FIOS TV ADDS 299.000 IPTV SUBSCRIBERS

Verizon reported strong growth for its FIOS IPTV as the company now has 2.2 million subscribers to the service. Verizon added 299.000 new FIOS TV customers in the first quarter, just slightly fewer than the 303.000 it added in the fourth quarter of 2008. The company reported US\$1.3 billion in revenues from broadband and video services.

TERRESTAR-1 TO BE LAUNCHED ON JUNE 24TH

TerreStar Networks, a majority owned subsidiary of TerreStar Corporation, and Space Systems/Loral, is planning to launch its first satellite, the TerreStar-1 on June 24 aboard the Ariane 5 launch vehicle. TerreStar-1 will be the largest commercial satellite ever launched and is designed to provide integrated satellite and terrestrial mobile services for critical communications using conventionally-sized dual mode handsets. TerreStar-1 will be capable of generating over five hundred spot beams covering the Continental U.S., Canada, Alaska, Hawaii, Puerto Rico and the U.S. Virgin Islands.



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

NanoXX Produkte

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 NanoXX 9600IP (IP-PVR Sat.-Receiver)
 NanoXX 9800HD (Twin-HDTV USB-PVR Sat.-Rec.)

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LATIN AMERICA

OPERATORS SEEK IPTV ALTERNATIVES

IPTV will take a backseat to other pay-TV platforms as operators seek alternative strategies to meet the significant market demand, according to a new report from Pyramid Research. IPTV is simply not living up to expectations in Latin America, with less than 0.1 per cent of households in Latin America subscribed to IPTV at year-end 2008 and the technology had very few net additions during the year. Pyramid does not expect IPTV to break out of its niche until around 2012, when it will be approaching a 5 per cent share of total pay-TV subscriptions. Pyramid estimates that by 2014, the region will be home to more than 4.4 million IPTV subscriptions, which will reach 2.6 per cent of all households.

BRAZIL

SKY BRASIL LAUNCHES HDTV SERVICE

Sky has launched its new HD service, SKY HDTV, simultaneously reaching 5,000 cities in Latin America's largest country. The HD line-up is as follows: Discovery Theater HD, FOX-NatGeo HD, ESPN HD, MGM HD, TNT HD, Voom HD, Space HD, HBO HD, HBO and SexZone HD.

PERU

KOREAN FIRMS TO BUILD IPTV INFRASTRUCTURE

A consortium of Korean IPTV firms had signed an agreement with a Peruvian group to build out the IPTV infrastructure in the country. The US\$ 173

million (KRW 230 bn) first phase of the contract is to build out the network and a broadcast center, first in Lima and its environs, to reach about one million households. Subsequent phases will expand to a few other cities, when the value of the contract is expected to grow to over US\$ 1 billion.

VENEZUELA

ZTE TO SUPPORT CANTV'S IPTV PLAN

CANTV has selected ZTE to deliver equipment and integration services to support a USD 00 million plan to launch IPTV services. In a first deployment phase, ZTE will provide a head-end system, middleware, a video distribution network including VoD servers and VoD management system, content protection, STB and IP network infrastructure. The aim of the first phase is to offer IPTV services to 67.00 trial users with an offering that could potentially include over 140 linear channels. CANTV is targeting 1.26 million IPTV customers within the next six years, according to ZTE.

ASIA

YAH LIVE TO LAUNCH DTH SERVICE IN 2009

YahLive, a joint venture between SES Astra and Abu Dhabi's Al Yah Satellite Communications (Yahsat), plans to launch its first satellite and offer DTH services from the fourth quarter of 2009, Chief Executive Jassem al-Zaabi said. Yahsat, which is launching two satellites in 2010 and 2011, is wholly owned by Abu Dhabi investment firm Mubadala and holds 65 per cent of YahLive. SES Astra is investing

US\$ 50 million in the project while Yahsat will invest around US\$ 100 million. Yahsat's two satellites are being built at a cost of US\$ 1.6 billion by a consortium of EADS Astrium and Thales Alenia Space.

ASIASAT SELECTS LORAL FOR ASIASAT 5C

Asiasat has selected Space Systems/Loral (SS/L) to provide a new communications satellite Asiasat 5C. Asiasat 5C will serve as a backup for AsiaSat 5, which is currently being built by Space Systems/Loral and is scheduled for launch in the third quarter of 2009. Asiasat 5 will replace Asiasat 2 at the orbital location of 100.5 degrees East.

ECHOSTAR TO ENTER ASIAN DTH MARKET

EchoStar Corp. is expanding into the Asian DTH market following the creation of a joint venture with regional satellite operator Asia Satellite Telecommunications. The new service, expected to begin transmission in the second half of the year, will use the AsiaSat 4 satellite to broadcast an all-digital mix of video and audio channels to DTH consumers using small satellite antennas. The companies said they will each invest US\$ 17.5 million in the new venture and together provide it with another US\$ 18 million in shareholder loans. Hong Kong, Macau and Taiwan are among the first territories where the service will operate.

CHINA

PCCW REACHES 686,000 IPTV SUBSCRIBERS

Hong Kong-based PCCW reached an installed base of 953,000 subscribers for its IPTV service now TV by the end of 2008, with 686,000 of



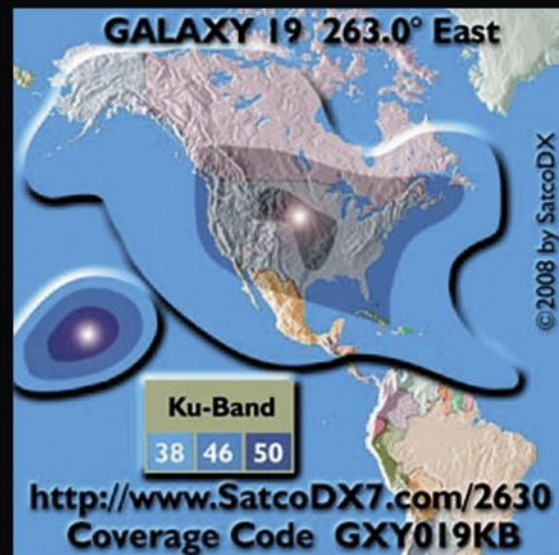
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Low Quality 24Kbps Dial-up

these being paying customers of the service, up 9% from 628,000 paying customers at the end of 2007. The IPTV service had 170 channels of local, Asian and international programming by the end of last year, with an ARPU of HK\$ 216 (US\$ 27.87), up 9% from December 2007.

INDIA

ACT LAUNCHES IPTV SERVICE IN BANGALORE

Atria Convergence Technologies (ACT) has launched new IPTV and triple play services in Bangalore, India are powered by Verismo's VuNow Internet TV platform. ACT with its new interactive IPTV service aims to convert the TV into a convergence device and consumers can pause and play over 200+ live TV channels, record one program while watching another, and access more than 4,500 DVD quality Kannada, Hindi and Tamil movies. The VuNow Internet platform includes a hosting and delivery platform for on-demand content under a subscription, pay-per-view or ad-supported models.

BSNL AND SMART DIGIVISION LAUNCH IPTV

BSNL has launched an IPTV service called MyWay BSNL in the city of Chennai (Tamil Nadu state) in association with Indian firm Smart Digivision, according to local media reports. The new service offers over 150 linear channels as well as VOD and music-on-demand libraries, and a parental lock. BSNL in the near future plans to introduce features such as the ability to pause live TV. Customers can either rent the set-top box required for INR 50 (US\$ 0.99) per month, plus a deposit of INR 1,000, or purchase it outright for INR 2,500.

JAPAN

ARIANESPACE TO LAUNCH JCSAT-13 SATELLITE

SKY Perfect JSAT Corporation has chosen Arianespace, to launch its new JCSAT-13 communications satellite. The JCSAT-13 would be launched by an Arianespace 5 rocket in 2013 from French Guiana. It will provide broadcasting and telecommunications services for Japan and the Asia Pacific region.

NTT TOPS 700,000 IPTV SUBSCRIBERS

NTT Plala has beaten company targets by reaching 700,000 subscribers for its IPTV service Hikari TV, according to Media Research Asia, which adds that company management expects to reach 1.1 million customers by March 2010, when the service could break even. Around 60% of Hikari TV customers are selecting the 'Oeuchi-Plan' at a monthly fee of JPY 3,675 (US\$ 38.62) per month, which offers over 50 linear channels and free access to the VOD library of more than 5,000 titles, while customers with FTTH/NGN connections in Tokyo and Osaka also receive HD terrestrial channels.

THE PHILIPPINES

PLDT PLANS TO INTRODUCE HDTV IN 2009

Philippine Long Distance Telephone Company (PLDT) is aiming to introduce high-definition TV programming sometime this year. The DTH service is already used by a few subscribers in Metro Manila and selected provinces. A company spokesperson has said that here would be several HD channels that could be delivered via the DTH, some of which would be either in 720 or 1080 progressive scanning resolution. The line-up for the high-definition channels is being discussed although the DTH service has about 20 channels, including two local free TV channels.

QATAR

QTEL EXPANDS COVERAGE OF MOZAIC TV+

Qtel is the only service provider in the Middle East to offer Mozaic TV+, which is a three-in-one service built on the asymmetric digital subscriber line (ADSL). It combines video (cable TV), audio (landline) and data (high-speed Internet). Mozaic TV+ is priced QR250 a month for the basic service. More than 10,000 customers have hooked on to the service that provides a minimum 125 digital TV channels.

SINGAPORE

SINGTEL IPTV SUBSCRIBERS TOTAL 78,000

Singapore Telecommunications (SingTel) added a record 19,000 new customers for its IPTV service mio TV in the first quarter of this year, bringing its total to 78,000 subscribers. The operator attributes the latest gains to the success of its mio home bundled plan and broad content offering, and added that it will continue to invest in new content to attract new customers.

SOUTH KOREA

300,000 IPTV SUBSCRIBERS IN KOREA

At the end of April, five months after the start of the full-scale IPTV service, the total number of subscribers of IPTV operators is only 300,000, according to industry figures. The front-runner of full-scale IPTV service, KT, secured 180,000 subscribers, followed by LG Dacom (80,000) and SK Broadband (30,000). When VOD subscribers are included, SK Broadband leads with 750,000 subscribers, followed by KT (720,000) and LG Dacom (130,000). Thus, the number of local full-scale IPTV subscribers is unlikely to meet the original goal, securing 2.3 million by end of this year. The main reasons for the standstill of IPTV service is the lack of content compared with other pay-TV services, such as digital, cable TV, and satellite TV.

BIGBAND DEPLOYS VIDEO IP SOLUTION FOR LG POWERCOM

BigBand Networks and LG Powercom have commercially deployed BigBand's video IP solution, vIP PASS, in Korea. The vIP PASS delivers cost effective IPTV services to personal computers and IP set-top boxes over DOCSIS 3.0 cable modems. With this deployment LG Powercom is reportedly poised to deliver virtually, unlimited, high quality, video IP programming to over 2.3 million subscribers.

SK BROADBAND SELECTS HARMONIC SOLUTION

SK Broadband has deployed Harmonic's Direct-2-Edge (D2E) solution - encompassing Harmonic's NSG 9000 universal edgeQAMs and D2E control software - for the world's largest commercial launch of cable IPTV to date. The deployment enables SK Broadband to provide a uniform broadcast IPTV service across its cable, xDSL, and FTTH access networks. Subscribers can also receive uninterrupted, high-speed Internet access of up to 150 Mbps to the home, powered by Harmonic's NSG 9000 using a modular CMTS (M-CMTS) architecture and delivered to a DOCSIS 3.0 cable modem. SK Broadband serves approximately 6 million subscribers.

LG DACOM ARRIVES TO 100,000 IPTV SUBSCRIBERS

LG Dacom had reached 100,000 subscribers for its IPTV service myLGtv as of May 15, up from 12,000 at the end of January. The operator launched linear channels on the service in February, having previously been obliged

to offer VOD-only content. LG Dacom states that it will now aggressively market the service to its 2.3 million broadband subscribers.

TAIWAN

CHUNGHWA TELECOM ARRIVES TO 686,000 IPTV SUBSCRIBERS

Chunghwa Telecom had 686,000 subscribers to its IPTV service Multimedia-on-Demand (MOD) by the end of the first quarter of this year, gaining 10,000 customers during the three months and giving a 57.6% year-on-year increase. Overall, the company had 4.3 million broadband subscribers (including ADSL and FTTx) at the end of March.

UNITED ARAB EMIRATES

DU TO UPGRADE FTTH WITH TILGIN

du has signed an US\$ 800,000 order with Swedish IPTV specialist Tilgin as part of an ongoing upgrade of its Fibre-to-the-Home (FTTH) IP network in Dubai. Tilgin will supply its Home Gateway Vood 292 solution, which includes next-generation software for managing IP-networks (VCM). The technology will replace older fiber units supplied by a competitor. du has also revealed plans to launch IPTV-based services in Dubai, including HDTV and VOD applications, in the coming months, following the completion of its core IP network upgrade to 40Gb/s.

VIETNAM

VINASAT-1 CAPACITY TO BE LEASED OUT BY 2010

Businesses and governmental agencies have registered to use 70 per cent of the capacity of Vietnam's first communications satellite, Vinasat-1, and by 2010 some expect the entire capacity of Vinasat-1 to be leased out. The business plan set for Vinasat-1 has been progressing according to schedule and the objective of recovering the investment capital within nine years appears to be within reach. Vinasat-1 went into orbit in April 2008 and one year later many transponders have been leased to customers.

AUSTRALIA & PACIFIC

AUSTRALIA

TELSTRA EYEING 2009 IPTV LAUNCH

Telstra hopes to start an IPTV service by November 2009 throughout Australia, according to local media reports. The operator would build on its BigPond ISP unit that already offers broadband content such as movies and games. The platform will give viewers access to customized Web sites and open access to online broadband services, according to the report. According to Digital Media, at least two IPTV trials are currently underway with Telstra's Media division and another conducted by its engineering department.

FOXTEL TO ACCELERATE IPTV LAUNCH PLANS

Foxtel is poised to accelerate its plans for an IPTV service following the launch of its revamped website, created by digital services company Hyro. The site supports the management and delivery of video and other rich media assets across the broadcasters' content catalogue and provides fully integrated e-commerce capability and online customer service. Foxtel has confirmed it will launch full-length program downloads in October and provide subscribers with catch-up TV and exclusive screening options. Foxtel also plans to launch video streaming of the Olympics in February.

Exhibition Preview

- **26 - 28 August 2009: SET 2009**
18th Broadcast & Cable International Fair
Centro de Exposições, Rod. dos Imigrantes
04329-900 São Paulo (SP), Brasil
www.broadcastcable.com.br



- **11 - 15 September 2009: IBC 2009**
Latest technology and foremost business ideas in
broadcasting and media
RAI, Amsterdam, The Netherlands
www.ibc.org



- **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



- **7 - 9 October 2009: SCaT India**
Tradeshaw Of The Indian Cable & Satellite Television Industry
World Trade Center, Cuffe Parade, Mumbai, India
www.scatmag.com/scatindia/

- **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



- **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



- **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
#213	10-11/2009	7 August 2009	18 September 2009	2 October 2009
#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

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Satellite Scan Stations



- C-Band: INTELSAT 10-02 ◀ 359.1 East (000.9 West)
INTELSAT 10-02, THOR 3.5 - North Europe ◀ 359.0 East (001.0 West)
AMOS 2,3 - Middle East ◀ 356.1 East (003.9 West)
AMOS 2,3 - Europe ◀ 356.0 East (004.0 West)
C-Band: ATLANTIC BIRD 3 - Africa, Europe, Middle America ◀ 355.1 East (004.9 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 1 - Europe ◀ 347.5 East (012.5 West)
EXPRESS A4 ◀ 346.0 East (014.0 West)
TELSTAR 12 - South America ◀ 345.3 East (014.7 West)
TELSTAR 12 - Europe, South Africa ◀ 345.2 East (014.8 West)
TELSTAR 12 - America ◀ 345.1 East (014.9 West)
TELSTAR 12 - Europe ◀ 345.0 East (015.0 West)
C-Band: INTELSAT 901 ◀ 342.1 East (017.9 West)
INTELSAT 901 - Europe, North Africa ◀ 342.0 East (018.0 West)
C-Band: NSS 7 ◀ 338.1 East (021.9 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 ◀ 330.1 East (029.9 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 ◀ 322.6 East (037.4 West)
C-Band: NSS 806 - America, Europe ◀ 319.5 East (040.5 West)
C-Band: INTELSAT 3R ◀ 317.1 East (042.9 West)
INTELSAT 3R, 11 ◀ 317.0 East (043.0 West)
INTELSAT 1R - South America ◀ 315.2 East (044.8 West)
C-Band: INTELSAT 1R ◀ 315.1 East (044.9 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 ◀ 302.1 East (057.9 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 ◀ 297.1 East (062.9 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 ◀ 288.2 East (071.8 West)
AMC 6 ◀ 288.0 East (072.0 West)
DIRECT TV 1R ◀ 287.5 East (072.5 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 ◀ 271.2 East (088.8 West)
GALAXY 28 - North America ◀ 271.1 East (088.9 West)
GALAXY 28 ◀ 271.0 East (089.0 West)
NIMIQ 1 - North America ◀ 269.1 East (090.9 West)
GALAXY 11,17 - North America ◀ 269.0 East (091.0 West)
GALAXY 25 ◀ 267.0 East (093.0 West)
GALAXY 3C ◀ 265.1 East (094.9 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 ◀ 259.1 East (100.9 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 ◀ 252.8 East (107.2 West)
ANIK F1R ◀ 252.7 East (107.3 West)
DIRECTV 5 ◀ 250.2 East (109.8 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)
DIRECTV 7S ◀ 241.2 East (118.8 West)
ECHOSTAR 7, ANIK F3 ◀ 241.0 East (119.0 West)
GALAXY 23 ◀ 239.1 East (120.9 West)
ECHOSTAR 9 ◀ 239.0 East (121.0 West)
C-Band: GALAXY 10R - North America ◀ 237.1 East (122.9 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 ◀ 231.1 East (128.9 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)

004.9 East ▶ SIRIUS 4 - South Africa

005.0 East ▶ SIRIUS 4 - Europe

007.0 East ▶ EUTELSAT W3A - Europe

007.1 East ▶ EUTELSAT W3A - South Africa

009.0 East ▶ EUROBIRD 9A - Europe

010.0 East ▶ EUTELSAT W1 - Europe

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

016.0 East ▶ EUTELSAT W2 - Europe

016.1 East ▶ EUTELSAT W2 - East Africa

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

023.5 East ▶ ASTRA 1E,1G,3A - Europe

025.5 East ▶ EUROBIRD 2 - North Africa, Middle East

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

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

030.5 East ▶ ARABSAT 2B

030.6 East ▶ C-Band: ARABSAT 2B

031.5 East ▶ ASTRA 1D - Europe

033.0 East ▶ INTELSAT 802/EUROBIRD 3

036.0 East ▶ EUTELSAT SESAT, EUTELSAT W4 - East Europe

036.1 East ▶ EUTELSAT SESAT, EUTELSAT W4 - Africa

036.2 East ▶ EUTELSAT SESAT, EUTELSAT W4 - Europe

038.0 East ▶ C-Band: PAKSAT 1

038.1 East ▶ PAKSAT 1

039.0 East ▶ HELLAS SAT 2 - Europe

040.0 East ▶ EXPRESS AM1

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

042.0 East ▶ TURKSAT 2A, 3A

045.0 East ▶ INTELSAT 12 - South Africa

045.1 East ▶ INTELSAT 12 - India

045.2 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

064.0 East ▶ C-Band: INTELSAT 906

066.0 East ▶ C-Band: INTELSAT 704

068.5 East ▶ INTELSAT 7, 10 - South Africa

068.6 East ▶ C-Band: INTELSAT 7,10

070.5 East ▶ EUTELSAT W5 - South East Asia

070.6 East ▶ EUTELSAT W5 - Europe

072.0 East ▶ C-Band: INTELSAT 4 - Africa

074.0 East ▶ C-Band: INSAT 3C

074.1 East ▶ EDUSAT, INSAT 4CR

075.0 East ▶ ABS-1 - South-East Asia

075.1 East ▶ C-Band: ABS-1

076.5 East ▶ TELSTAR 10

076.6 East ▶ C-Band: TELSTAR 10

078.5 East ▶ THAICOM 5

078.6 East ▶ C-Band: THAICOM 5

080.0 East ▶ EXPRESS AM2

080.1 East ▶ C-Band: EXPRESS AM2

083.0 East ▶ INSAT 4A - India

083.1 East ▶ C-Band: INSAT 2E,3B

085.0 East ▶ INTELSAT 709

087.5 East ▶ C-Band: CHINASTAR 1

088.0 East ▶ C-Band: ST 1

090.0 East ▶ YAMAL 201

090.1 East ▶ C-Band: YAMAL 201

091.5 East ▶ MEASAT 3 - Indonesia

091.6 East ▶ C-Band: MEASAT 3

091.7 East ▶ MEASAT 3 - India

093.5 East ▶ C-Band: INSAT 3A,4B

095.0 East ▶ INSAT 4B, NSS 6 - India

095.1 East ▶ NSS 6 - South East Asia

096.5 East ▶ C-Band: EXPRESS AM 33

100.5 East ▶ C-Band: ASIASEAT 2

100.6 East ▶ ASIASEAT 2

103.0 East ▶ EXPRESS A2, KAZSAT 1

105.5 East ▶ C-Band: ASIASEAT 3S

105.6 East ▶ ASIASEAT 3S

107.7 East ▶ CAKRAWARTA 1

108.0 East ▶ C-Band: TELKOM 1

108.2 East ▶ NSS 11 - China

108.3 East ▶ NSS 11 - India

110.0 East ▶ BSAT 1A,2A

110.1 East ▶ N-SAT 110

110.5 East ▶ C-Band: SINOSAT 1

112.9 East ▶ C-Band: PALAPA C2

113.1 East ▶ KOREASAT 5

115.5 East ▶ C-Band: CHINASAT 6B

116.0 East ▶ KOREASAT 3

120.0 East ▶ THAICOM 1A

122.0 East ▶ ASIASEAT 4

122.1 East ▶ C-Band: ASIASEAT 4

124.0 East ▶ JCSAT 4A

125.0 East ▶ C-Band: SINOSAT 3

128.0 East ▶ JCSAT 3A

128.1 East ▶ C-Band: JCSAT 3A

132.0 East ▶ 132

134.0 East ▶ C-Band: APSTAR 6

134.1 East ▶ APSTAR 6 - Asia

138.0 East ▶ TELSTAR 18

138.1 East ▶ C-Band: TELSTAR 18

140.0 East ▶ EXPRESS AM3

140.1 East ▶ C-Band: EXPRESS AM3

144.0 East ▶ SUPERBIRD C2

146.0 East ▶ AGILA 2

146.1 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

166.1 East ▶ INTELSAT 8

169.0 East ▶ C-Band: INTELSAT 5

172.0 East ▶ GE 23

172.1 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



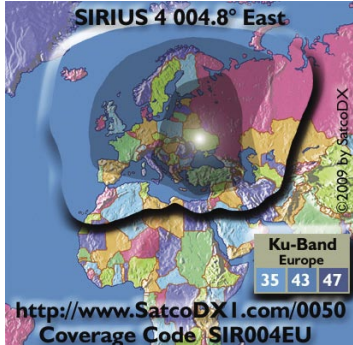
12.606 V 04 Walt TV	29950	News + Series
● 12.606 V 00 Canal Promo Afric	29950	News + Series
● 12.606 V 01 VOX AFRICA	29950	News + Series
● 12.606 V 03 Prochainement	29950	News + Series
12.606 V 05 Prochainement	29950	News + Series
12.606 V 06 Prochainement	29950	News + Series
12.606 V 07 Prochainement	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 Prochainement	29950	News + Series
12.606 V 12 Prochainement	29950	News + Series
● 12.606 V BVN	29950	Quality Entertainment.
● 12.606 V Occa Africa	29950	Home Cinema
12.709 V ETV_Hyde_Park_1	4430	Home Cinema
● 12.727 V E-TV PE	4430	Home Cinema
● 12.735 V TELEMEDIA TELEPOR	4430	Quality Entertainment.

Europe

SIRIUS 4

5.0 East

SIR004EU



11.214 V TERACOM	6666	Home Cinema
● 11.229 H DV HDSNG 2-1	23148	Home Cinema
11.229 H SiriusChannelTh2	23148	News + Series
11.422 H TV3 Denmark	23148	Quality Entertainment.
11.422 H TV3 Norge	23148	Quality Entertainment.

11.422 H TV3 Stockholm	23148	News + Series
11.422 H TV6	23148	Quality Entertainment.
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
12.149 H AKTA Info	27500	Advertisement
12.149 H Antena 3	27500	News + Series
12.149 H AXN	27500	Advertisement
12.149 H AXN Crime	27500	Low Level
12.149 H AXN SciFi	27500	Low Level
12.149 H Da Vinci Learning	27500	Low Level
12.149 H Eurosport	27500	Quality Entertainment.
12.149 H Kanal D	27500	News + Series
12.149 H OTV	27500	Low Level
12.149 H Prima TV	27500	Quality Entertainment.
12.149 H Realitatea	27500	Low Level
12.149 H TV Paprika	27500	News + Series
12.149 H TV Sport	27500	Quality Entertainment.
12.149 H TVR 1	27500	Low Level
12.149 H TVR 2	27500	Quality Entertainment.
12.149 H TVRM	27500	News + Series
12.149 H Viasat History	27500	News + Series
12.226 H Animal Planet Benelu	25540	News + Series
12.226 H Animal Planet Europe	25540	News + Series
12.226 H Animal Planet Europe	25540	News + Series
12.226 H Animal Planet Poland	25540	News + Series
12.226 H Discovery Benelux	25540	News + Series
12.226 H Discovery Benelux	25540	Quality Entertainment.
12.226 H Discovery Central Eu	25540	News + Series
12.226 H Discovery Middle Eas	25540	Low Level
12.226 H Discovery Poland	25540	News + Series
12.226 H Discovery World	25540	Quality Entertainment.
12.226 H Discovery World - Cz	25540	Low Level
12.226 H Discovery World DV	25540	Low Level
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	News + Series
12.226 H Science Europe Turki	25540	News + Series
12.226 H Travel & Living Euro	25540	News + Series
12.226 H Travel & Living Eu	25540	Quality Entertainment.
12.226 H Travel & Living Euro	25540	News + Series
● 12.245 V Ebs Europe By Satell	27500	Quality Entertainment.
● 12.245 V Ebs+	27500	Quality Entertainment.
12.265 H Boomerang	27500	Low Level
12.265 H Canal Teleshop	27500	Quality Entertainment.
● 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	Low Level
● 12.265 H Etno	27500	News + Series
12.265 H Hallmark	27500	News + Series
● 12.265 H Jetix	27500	News + Series
12.265 H Meteo TV	27500	Low Level
12.265 H Minimax	27500	Advertisement
12.265 H Movies 24	27500	News + Series
12.265 H Romantica	27500	News + Series
● 12.265 H Taraf	27500	News + Series
12.265 H TCM	27500	News + Series
12.265 H TVR Cultural	27500	Low Level

12.265 H Viasat Explorer	27500	Low Level
12.284 V AcastaTV	27500	Quality Entertainment.
12.284 V Download	27500	Home Cinema
12.284 V MTV Romania	27500	Quality Entertainment.
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	Home Cinema
12.284 V ProTV Intl	27500	Home Cinema
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 Acasta TV	27500	News + Series
12.341 H Animal Planet	27500	Quality Entertainment.
12.341 H Antena 1	27500	Quality Entertainment.
12.341 H B1	27500	Low Level
12.341 H Cinemax	27500	News + Series
12.341 H Discovery	27500	News + Series
12.341 H FreeXTV	27500	News + Series
12.341 H HBO	27500	Low Level
12.341 H HBO Comedy	27500	News + Series
12.341 H National TV	27500	News + Series
12.341 H Pro Cinema	27500	Low Level
12.341 H Pro TV	27500	News + Series
12.341 H Sport1	27500	News + Series
12.341 H TV1000	27500	News + Series
12.341 H X Dream TV	27500	News + Series
● 12.360 V GreeceUn 1P9	27500	News + Series
12.360 V Hallmark Benelux 1P5	27500	Quality Entertainment.
12.360 V Hallmark Croatia-Slo	27500	News + Series
12.360 V Hallmark Czech-Slova	27500	Quality Entertainment.
12.360 V Hallmark Hungary 1P2	27500	News + Series
12.360 V Hallmark Hungary T	27500	Quality Entertainment.
12.360 V Hallmark Israel 1P8	27500	News + Series
12.360 V Hallmark Poland 1P3	27500	Quality Entertainment.
12.360 V Hallmark Romania 1P1	27500	News + Series
12.360 V Hallmark Russia 1P7	27500	News + Series
12.360 V Hallmark Turkey-Mide	27500	News + Series
12.360 V Hallmark Scandinavian	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 Eng	27500	Quality Entertainment.
● 12.360 V KidsCO EastEur Gre	27500	Quality Entertainment.
12.360 V KidsCO EastEur Hun	27500	News + Series
12.360 V KidsCO EastEur Mi	27500	News + Series
12.360 V KidsCO EastEur Pol	27500	News + Series
12.360 V KidsCO EastEur Rom	27500	News + Series
12.360 V KidsCO EastEur Rus	27500	Quality Entertainment.
12.360 V KidsCO EastEur Tur	27500	News + Series
12.360 V KidsCO EastEur 1-8	27500	News + Series
12.360 V KidsCo WestEur 9-1	27500	Quality Entertainment.
12.360 V KidsCo WestEur A11	27500	Quality Entertainment.
12.360 V KidsCo WestEur A13	27500	Home Cinema
12.360 V KidsCo WestEur A15	27500	News + Series
12.360 V KidsCo WestEur Eng	27500	Quality Entertainment.
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	Quality Entertainment.
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 1P7	27500	News + Series
12.380 H ATG EU BSS	27500	Quality Entertainment.
12.380 H Harness Racing	27500	News + Series

12.380 H Multimanía	27500	News + Series
12.380 H NTV	27500	Quality Entertainment.
12.380 H Thoroughbred Racing	27500	News + Series
12.380 H TVCI new	27500	Quality Entertainment.
12.380 H Belsat TV	27500	Quality Entertainment.
12.380 H LTV World	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 Betfred	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.
12.418 H EURO RACING - SIR	27500	Quality Entertainment.
12.418 H SIS Channel	27500	Quality Entertainment.
12.418 H LABROKES IP DATA	27500	Quality Entertainment.
12.418 H LTEST	27500	Quality Entertainment.
12.418 H LEXTRA SILVER	27500	Quality Entertainment.
12.418 H SIS Racing - Data	27500	Quality Entertainment.
12.418 H SIS Racing - Germ	27500	Quality Entertainment.
12.418 H SIS Racing - Germ	27500	Quality Entertainment.
12.418 H SIS Racing - INDE	27500	Quality Entertainment.
12.418 H SIS+	27500	Quality Entertainment.
12.418 H SPECIAL LABROKES	27500	Quality Entertainment.
12.418 H SPECIAL WILLIAM H	27500	Quality Entertainment.
12.418 H STAN JAMES	27500	Quality Entertainment.
12.418 H TEMP LABROKES EI	27500	Quality Entertainment.
12.418 H TOTE - SIRIUS	27500	Quality Entertainment.
12.418 H TOTE SIS AUDIO AN	27500	Quality Entertainment.
12.418 H VISION AUDIO AND	27500	Quality Entertainment.
12.418 H WHO IP CLEAR	27500	Quality Entertainment.
12.608 H TV 1000 Ru Kino FS	27500	Quality Entertainment.
12.608 H TV1000 Action East	27500	Quality Entertainment.
12.608 H TV1000 East FSS	27500	Quality Entertainment.
12.608 H TV6 Hungary FSS	27500	Quality Entertainment.
12.608 H Viasat Sport FSS	27500	Quality Entertainment.
12.608 H Viasat3 FSS	27500	Quality Entertainment.
12.637 H Explorer/Spice(FSS)	14463	Quality Entertainment.
12.637 H TV1000 Balkan FSS	14463	Quality Entertainment.
12.637 H TV1000 Poland (FSS)	14463	Quality Entertainment.
12.637 H Viasat History (FSS)	14463	Quality Entertainment.
12.674 V ROMANTICA	10000	News + Series
12.674 V ALPHA TV	10000	News + Series
● 12.674 V CREDO TV	10000	News + Series
12.674 V MONEY CHANNEL	10000	News + Series
12.674 V REALITATEA TV	10000	News + Series
● 12.680 H Idealnily mir	9404	Quality Entertainment.
12.680 H TEST2	9404	News + Series

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.

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

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

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

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

The most economic transmission mode is MPEG-2 with a low bitrate between 1.5 and 3 Mbps. This mode reaches the largest number of viewers at modest costs with moderate quality and is thus best used by news channels and general entertainment channels. These channels are not meant to be watched on big screen TVs. SatcoDX identifies them as **News + Series**. Some providers scrape the bottom of the barrel and minimize the bitrate to between 0.5 and 1.5 Mbps. The resulting low quality is clearly visible to the viewer. Quality is of no importance for such a program provider. This is merely their way of showing that they exist. SatcoDX refers to them as **Low Level**.

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

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
SIRIUS 4 004.8° East Ku-Band Nordic 44 49 54 http://www.SatcoDX1.com/0050 Coverage Code SIR004NO											
11.727 H DR Update	27500	Quality Entertain.	11.785 V SVT1 REG	27500	Quality Entertain.	11.843 H TV5	27500	Quality Entertain.	11.958 H TV3 Latvia	27500	Quality Entertain.
11.727 H TV 2 Sport	27500	Quality Entertain.	11.785 V SVT1 Smålandsnytt	27500	Home Cinema	11.862 V FEM	27500	Quality Entertain.	11.958 H TV3 Lithuania	27500	News + Series
11.727 H TV2 Charlie	27500	Quality Entertain.	11.785 V SVT1 Sydnytt	27500	Home Cinema	11.862 V Nickelodeon nordic	27500	News + Series	11.958 H TV6 Lithuania	27500	News + Series
11.727 H TV2 Film	27500	News + Series	11.785 V SVT1 Värmlandsnytt	27500	Home Cinema	11.862 V TV1000 Action East	27500	Quality Entertain.	11.977 V BBC World	27500	Quality Entertain.
11.727 H TV2 Zulu	27500	Quality Entertain.	11.785 V SVT1 Västernorrlandsnytt	27500	Home Cinema	11.862 V Viasat Fotboll	27500	Quality Entertain.	11.977 V Hallmark	27500	Quality Entertain.
11.747 V TV3 Puls	27500	Quality Entertain.	11.785 V SVT1 Västnytt	27500	Quality Entertain.	11.862 V Viasat Motor	27500	Quality Entertain.	11.977 V MTV SE	27500	Quality Entertain.
11.747 V TV4	27500	Quality Entertain.	11.785 V SVT1 Östnytt	27500	Quality Entertain.	11.862 V Viasat Sport Norge	27500	Quality Entertain.	11.977 V Nature/Crime/Playboy	27500	Quality Entertain.
11.747 V Viasat Xtra 4	27500	Quality Entertain.	11.785 V SVT2 ABC	27500	Home Cinema	11.862 V ztv.se	27500	Quality Entertain.	11.977 V TV1000 East	27500	Quality Entertain.
11.747 V Viasat Xtra 1	27500	Advertisement	11.785 V SVT2 Gäddala	27500	Home Cinema	11.881 H 24	27500	Home Cinema	11.977 V TV3+	27500	Quality Entertain.
11.747 V Allsvenskan 2	27500	Advertisement	11.785 V SVT2 Mittnytt	27500	Home Cinema	11.881 H Barnkanalen	27500	Home Cinema	11.977 V TV4 Fakta	27500	News + Series
11.747 V Allsvenskan 3	27500	Advertisement	11.785 V SVT2 Nordnytt	27500	Quality Entertain.	11.881 H Nat Geo Wild	27500	Quality Entertain.	11.977 V Viasat 4	27500	Quality Entertain.
11.747 V Allsvenskan 4	27500	Advertisement	11.785 V SVT2 REG	27500	Home Cinema	11.881 H SVT1	27500	Quality Entertain.	11.977 V Viasat Sport Sverige	27500	Quality Entertain.
11.747 V Allsvenskan 5	27500	Advertisement	11.785 V SVT2 Smålandsnytt	27500	Home Cinema	11.881 H SVT2	27500	Quality Entertain.	11.996 H K75 NORDEN	27500	News + Series
11.747 V TV 2 Sport 2	27500	Advertisement	11.785 V SVT2 Västernorrlandsnytt	27500	Home Cinema	11.881 H TV1000 Plus One	27500	Quality Entertain.	11.996 H Kanal 5	27500	Quality Entertain.
11.747 V TV 2 Sport 3	27500	Advertisement	11.785 V SVT2 Västnytt	27500	Home Cinema	11.881 H TV1000	27500	Quality Entertain.	11.996 H SportN	27500	Quality Entertain.
11.747 V TV 2 Sport 4	27500	Advertisement	11.785 V SVT2 Östnytt	27500	Home Cinema	11.881 H GOD Channel	27500	News + Series	11.996 H TV7	27500	Quality Entertain.
11.747 V TV 2 Sport 5	27500	Advertisement	11.804 H Kanal 11	27500	Quality Entertain.	11.881 H Kanal 10	27500	News + Series	11.996 H TVN Chile Nordic	27500	Quality Entertain.
11.747 V Viasat Xtra 1	27500	Advertisement	11.804 H MTV NO	27500	Quality Entertain.	11.900 V BT	27500	Quality Entertain.	11.996 H Russia today	27500	Quality Entertain.
11.747 V Viasat Xtra 2	27500	Advertisement	11.804 H Ticket	27500	News + Series	11.900 V Kanal 2	27500	Quality Entertain.	11.996 H Visjon Norge	27500	Quality Entertain.
11.747 V Viasat Xtra 3	27500	Advertisement	11.804 H TV 2 Filmkanalen	27500	Quality Entertain.	11.900 V MTV LT LV	27500	Quality Entertain.	12.015 V NRK Super / NRK3	27500	Quality Entertain.
11.747 V Viasat Xtra 5	27500	Advertisement	11.804 H TV4 Film	27500	News + Series	11.900 V RTR Planeta Baltic	27500	Quality Entertain.	12.015 V NRK1	27500	News + Series
11.747 V Viasat Xtra 6	27500	Advertisement	11.804 H TV4 Plus	27500	News + Series	11.900 V TV6 Estonia	27500	Quality Entertain.	12.015 V NRK1 Midtnytt	27500	News + Series
11.785 V SVT1 ABC	27500	Home Cinema	11.804 H TV400	27500	Quality Entertain.	11.900 V Viasat Sport	27500	Quality Entertain.	12.015 V NRK1 Møre og Romsdal	27500	Home Cinema
11.785 V SVT1 Gäddala	27500	Home Cinema	11.804 H Viasat History	27500	Quality Entertain.	11.919 H MTV3 AVA	27500	News + Series	12.015 V NRK1 Nordland	27500	Quality Entertain.
11.785 V SVT1 Mittnytt	27500	Home Cinema	11.804 H Viasat Sport Baltic	27500	Quality Entertain.	11.919 H MTV3 Fakta	27500	News + Series	12.015 V NRK1 Nordnytt	27500	Home Cinema
11.785 V SVT1 Nordnytt	27500	Home Cinema	11.823 V CNN	27500	Quality Entertain.	11.919 H MTV3 MAX	27500	News + Series	12.015 V NRK1 Rogaland	27500	Quality Entertain.
			11.823 V DR 1	27500	Quality Entertain.	11.919 H MTV3 Sarja	27500	News + Series	12.015 V NRK1 Sørlandet	27500	Quality Entertain.
			11.823 V DR 2	27500	Quality Entertain.	11.919 H Sub Junior	27500	Low Level	12.015 V NRK1 Tegnspår	27500	News + Series
			11.823 V DR1	27500	Quality Entertain.	11.919 H Sub Leffa	27500	News + Series	12.015 V NRK1 Vestlandsrevyen	27500	Quality Entertain.
			11.823 V DR2	27500	Quality Entertain.	11.919 H TV 2 Nyhetskanalen	27500	Quality Entertain.	12.015 V NRK1 Østfjells	27500	Home Cinema
			11.823 V Explorer/Spice	27500	Quality Entertain.	11.919 H TV1000 Premium	27500	Quality Entertain.	12.015 V NRK1 Østfold	27500	Quality Entertain.
			11.823 V MTV DK	27500	Quality Entertain.	11.919 H Viasat Golf	27500	Quality Entertain.	12.015 V NRK1 Østnytt	27500	Quality Entertain.
			11.823 V TV 2 SPORT	27500	Quality Entertain.	11.938 V Cartoon/TCM EE	27500	News + Series	12.015 V NRK2	27500	Home Cinema
			11.823 V TV1000 Ru Kino	27500	Quality Entertain.	11.938 V Discovery EE	27500	Quality Entertain.	12.034 H Disney Channel	27500	Quality Entertain.
			11.823 V TV8	27500	Quality Entertain.	11.938 V Nat Geo / CNBC	27500	Quality Entertain.	12.034 H E!	27500	Quality Entertain.
			11.843 H 1st Baltic Ch. Eston	27500	News + Series	11.938 V TV3 Mitt	27500	Quality Entertain.	12.034 H NickelodeonSE/VH1	27500	Quality Entertain.
			11.843 H 1st Baltic Ch. Latvi	27500	Quality Entertain.	11.938 V TV3 Norr	27500	Quality Entertain.	12.034 H Toon Disney	27500	Quality Entertain.
			11.843 H 1st Baltic Ch. Lithu	27500	News + Series	11.938 V TV3 Syd	27500	Quality Entertain.	12.034 H TV1000 Classic	27500	Quality Entertain.
			11.843 H Lietuvos Rytas TV	27500	Quality Entertain.	11.938 V TV3 Väst	27500	Quality Entertain.	12.034 H TV1000 Family	27500	Quality Entertain.
			11.843 H LNK	27500	News + Series	11.938 V TV3 Öst	27500	Quality Entertain.	12.034 H TV1000 Nordic	27500	Quality Entertain.
			11.843 H LTV7	27500	Quality Entertain.	11.958 H 3+ Baltics	27500	Quality Entertain.	12.034 H TV1KC	27500	Quality Entertain.
			11.843 H Ren-TV B	27500	Home Cinema	11.958 H 3+ Baltics E	27500	News + Series	12.034 H Zone Reality	27500	Quality Entertain.
			11.843 H TV1 Lithuania	27500	Quality Entertain.	11.958 H ETV	27500	News + Series	12.054 V Cartoon/TCM	27500	Quality Entertain.
			11.843 H 1st Baltic Music Cha	27500	Quality Entertain.	11.958 H Lithuanian TV1	27500	Quality Entertain.	12.054 V Jetix	27500	Quality Entertain.
						11.958 H LNT Latvia	27500	Quality Entertain.	12.054 V TV1000	27500	Quality Entertain.
						11.958 H LTV1	27500	News + Series	12.054 V TV1000 Action	27500	Quality Entertain.
						11.958 H TV3 Estonia	27500	Quality Entertain.	12.054 V TV1000 Drama	27500	News + Series
									12.054 V TV1K	27500	Quality Entertain.

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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Note to TELE-satellite Magazine Subscribers

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.

download full CD image - includes all coverage images - 95 MB:
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
12.054	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	Quality Entertain.
● 12.092	V	Kanal 5	27500	Quality Entertain.
● 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	TV 2 Sport HD	27500	High Qual. Cinema
12.399	V	Viasat Sport HD	27500	High Qual. Cinema
12.437	V	TV1000 HD	27500	High Qual. Cinema
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/Mid-Vest	27500	Quality Entertain.
12.476	V	TV 2/Nord	27500	Quality Entertain.
12.476	V	TV 2/Syd	27500	Quality Entertain.
12.476	V	TV 2/Øst	27500	Quality Entertain.
12.476	V	TV 2/Østjylland	27500	Quality Entertain.

Europe

EUTELSAT W3A

7.0 East

EUTW3ABA



11.283	V	EUROSPORT	27500	Home Cinema
11.283	V	EUROSPORT2	27500	Quality Entertain.
11.283	V	EUROSPORTNEWS	27500	Quality Entertain.
11.283	V	PROD ESP	27500	Home Cinema
11.283	V	PROD ESP2	27500	Quality Entertain.
11.283	V	M6 Suisse	27500	Quality Entertain.
11.283	V	OCCA 1 W3	27500	Quality Entertain.
● 11.283	V	RFI Newzik	27500	Advertisement
11.324	V	BFBS 1	27500	Quality Entertain.
11.324	V	BFBS 10	27500	Low Level
11.324	V	BFBS 2	27500	Low Level
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	News + Series
11.324	V	BFBS 8	27500	News + Series
11.324	V	BFBS 9	27500	Quality Entertain.
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	BUGÜN TV	25066	News + Series
11.452	V	CHANNEL 1 RUSSIA	25066	News + Series
11.452	V	E1 ENTERTAINMENT	25066	News + Series
11.452	V	HALK TV	25066	News + Series
11.452	V	KANAL B	25066	News + Series
11.452	V	SALONDA NE VAR?	25066	News + Series
11.452	V	SESTV	25066	News + Series
● 11.452	V	YABAN TV	25066	Quality Entertain.
11.452	V	DIGI	25066	News + Series
11.452	V	TRT ÇOCUK	25066	Quality Entertain.
11.471	H	24	30000	Quality Entertain.
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	Quality Entertain.
11.471	H	EXTREME SPORTS	30000	Quality Entertain.
11.471	H	Fashion TV	30000	News + Series
11.471	H	FOXlife	30000	Quality Entertain.
11.471	H	MEZZO	30000	News + Series
11.471	H	MTV Türkiye	30000	News + Series
11.471	H	NTV SPOR	30000	Quality Entertain.
● 11.471	H	SHOWGALLERY	30000	News + Series
11.471	H	TVNET	30000	News + Series
11.492	V	DİZİMAX	30000	News + Series
● 11.492	V	GS TV	30000	Quality Entertain.
11.492	V	LIG TV	30000	Home Cinema
11.492	V	SAMANYOLU TV	30000	News + Series
11.492	V	SHOW PLUS	30000	News + Series
11.492	V	TURKMAX	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	Quality Entertain.
11.492	V	TRT6	30000	News + Series
11.513	H	BABY TV	27500	Quality Entertain.
11.513	H	BABYFIRST	27500	News + Series
11.513	H	CRIME&INVESTIGATI	27500	News + Series
11.513	H	FLASH TV	27500	News + Series
11.513	H	POWERTRK TV	27500	News + Series
11.513	H	S HABER	27500	Quality Entertain.
11.513	H	TV5 MONDE	27500	News + Series

Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
11.513	H	YUMURCAK TV	27500	News + Series
11.513	H	IZ	27500	Quality Entertain.



● 10.927	V	iConcert	27500	High Quality Home
10.928	H	MMAX 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	NAT GEO HD	30000	High Qual. Cinema
10.928	H	SPORMAX HD	30000	High Qual. Cinema
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	Quality Entertain.
11.534	V	KANAL 778	30000	Quality Entertain.
11.534	V	KANALTURK	30000	News + Series
11.534	V	KRAL TV	30000	News + Series
11.534	V	MOVIE MAX	30000	Home Cinema
11.534	V	NTV	30000	News + Series
11.534	V	TV8	30000	News + Series
11.534	V	TRT3	30000	News + Series
11.554	H	AKILLI TV	27500	Quality Entertain.
11.554	H	CEM TV	27500	News + Series
● 11.554	H	CINE5	27500	News + Series
11.554	H	DIGITURK INFO	27500	News + Series
11.554	H	KANAL A	27500	News + Series
11.554	H	KANAL BIZ	27500	News + Series
11.554	H	KANAL T	27500	News + Series
11.554	H	SAUDI 1 TV	27500	Quality Entertain.
● 11.554	H	H	27500	News + Series
11.575	V	JETIX	30000	News + Series
11.575	V	JETIX PLAY	30000	News + Series
● 11.575	V	KANAL 779	30000	News + Series
● 11.575	V	KANAL 780	30000	News + Series
11.575	V	KANAL D	30000	Quality Entertain.
11.575	V	NBA TV	30000	Quality Entertain.
11.575	V	SALON 2	30000	Quality Entertain.
11.575	V	SHOW TV	30000	News + Series
11.575	V	SHOWMAX	30000	Quality Entertain.
11.575	V	TOUCH	30000	News + Series
11.575	V	TURKCELL SALON 1	30000	Quality Entertain.
11.575	V	VIP TV	30000	News + Series
11.595	H	AL JAZEERA English	30000	News + Series
11.595	H	CNN INTERNATIONAL	30000	News + Series
11.595	H	FB TV	30000	News + Series
11.595	H	FOX SPORTS	30000	News + Series
11.595	H	GOLDMAX 2	30000	News + Series
11.595	H	HABERTURK	30000	News + Series
● 11.595	H	KANAL 778	30000	Quality Entertain.
11.595	H	LIG TV TICARI	30000	Quality Entertain.
11.595	H	MYMAX	30000	News + Series
11.595	H	RAH1	30000	News + Series
11.595	H	SPORMAX	30000	Quality Entertain.
11.595	H	TGRT HABER	30000	News + Series
11.595	H	TJK TV	30000	News + Series
11.617	V	BTB 2	30000	News + Series
11.617	V	HISTORY	30000	News + Series
11.617	V	HOME TV	30000	Quality Entertain.
11.617	V	MCM TOP	30000	News + Series
11.617	V	NAT. GEO. WILD	30000	News + Series
11.617	V	NAT.GEOGRAPHIC	30000	Quality Entertain.
11.617	V	NICKLEODEON	30000	Quality Entertain.
11.617	V	STAR	30000	Quality Entertain.
11.617	V	VH1	30000	News + Series
11.617	V	2000 s HITS	30000	News + Series
11.617	V	50 s / 60 s HITS	30000	News + Series
11.617	V	70 s HITS	30000	News + Series
11.617	V	80 s HITS	30000	News + Series
11.617	V	90 s HITS	30000	News + Series
11.617	V	ALEM FM 89.2	30000	News + Series
11.617	V	ALTERNATIVE ROCK	30000	News + Series
11.617	V	ARIONRADIO.COM	30000	News + Series
11.617	V	BLUES	30000	News + Series
11.617	V	CHILL OUT / LOUNG	30000	News + Series
11.617	V	CLASSIC ROCK	30000	News + Series
11.617	V	CLASSICAL MUSIC	30000	News + Series
11.617	V	DANCE	30000	News + Series
11.617	V	DANCE CLASSICS	30000	News + Series
11.617	V	EASY LISTENING	30000	News + Series
11.617	V	HARD ROCK	30000	News + Series
11.617	V	HIP HOP R&B	30000	News + Series
11.617	V	HOTTEST HITS	30000	News + Series
11.617	V	INTERNATIONAL	30000	News + Series
11.617	V	JAZZ CLASSICS	30000	News + Series
11.617	V	LATIN	30000	News + Series
11.617	V	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

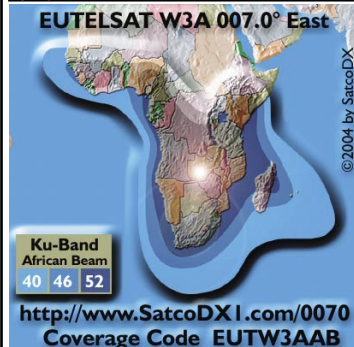
Freq GHz	Pol	Channel Name	Symbol Rate ksym/sec	Programming Type SatcoDX Definition
11.617	V	SYMPHONIC	30000	News + Series
● 11.617	V	TRT TÜRK	30000	Quality Entertain.
11.617	V	YOGA ZONE	30000	News + Series
11.637	H	ACTIONMAX	30000	News + Series
11.637	H	AVRASYA TV	30000	News + Series
11.637	H	BTB	30000	News + Series
11.637	H	GOLDMAX	30000	News + Series
11.637	H	INTIMACY	30000	News + Series
11.637	H	JOJO	30000	News + Series
11.637	H	JOLLY TATIL TV	30000	News + Series
11.637	H	KANAL 1	30000	Quality Entertain.
11.637	H	MGM MOVIES	30000	News + Series
11.637	H	PRO7	30000	News + Series
11.637	H	YACHT&SAIL	30000	News + Series
● 11.637	H	DIGIOYUN	30000	Low Level
● 11.637	H	TRT AVAZ	30000	Quality Entertain.
11.679	H	ATV	30000	Quality Entertain.
11.679	H	CEMEDIAMAX	30000	News + Series
11.679	H	DISNEY CHANNEL	30000	News + Series
11.679	H	DREAM TV	30000	News + Series
11.679	H	EUROSPORT	30000	Quality Entertain.
11.679	H	FOX	30000	Quality Entertain.
11.679	H	KANAL 7	30000	News + Series
● 11.679	H	KANAL 781	30000	News + Series
11.679	H	MOVIE MAX 2	30000	News + Series
11.679	H	SALON 3	30000	Home Cinema
11.679	H	ULKE TV	30000	News + Series
11.679	H	SKYTURK	30000	News + Series

South Africa

EUTELSAT W3A

7.1 East

EUTW3AAB



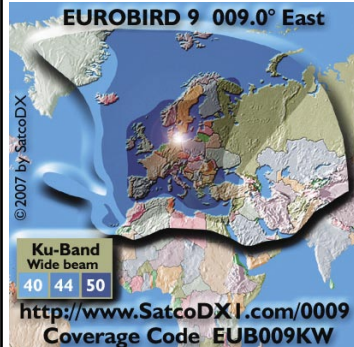
10.962	H	TV Miramar	3255	Quality Entertain.
● 10.978	H	TVM Madagascar	3333	Quality Entertain.
11.190	H	MBC-RD. TV2 and	3210	News + Series
11.190	H	RDRIGUES TV1 and	3210	News + Series
12.728	H	WWW.PSATV.TV	30000	News + Series
12.728	H	ZSTV	30000	News + Series
● 12.728	H	LCF	30000	Quality Entertain.
12.728	H	MTA INTL	30000	Quality Entertain.
12.728	H	RTS	30000	News + Series
● 12.728	H	TPAI	30000	News + Series
12.728	H	TV ZIMBO	30000	News + Series
● 12.728	H	TV ZIMBO LIVE	30000	Advertisement

Europe

EUROBIRD 9A

9.0 East

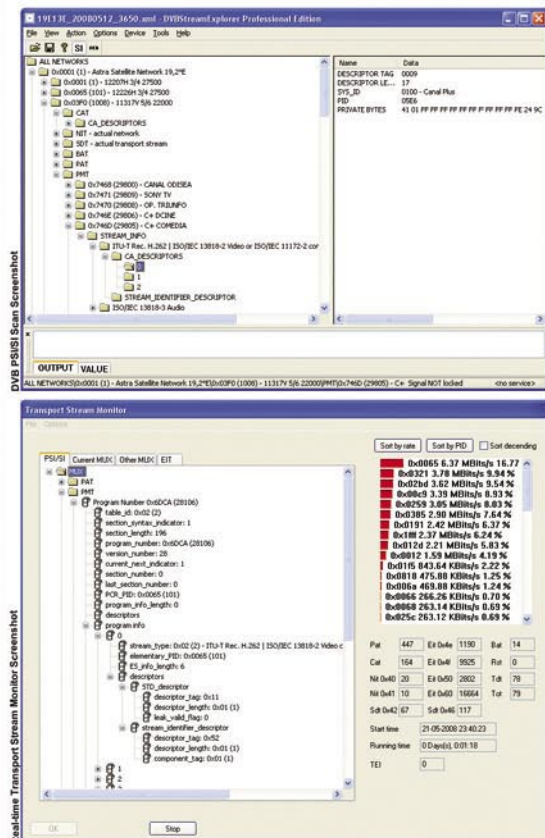
EUB009KW



● 11.727	V	Cartoon Network	27500	Quality Entertain.
● 11.727	V	TNT Germany	27500	News + Series
● 11.727	V	Arqiva E89 OU 1	27500	Home Cinema
● 11.727	V	Arqiva Test	27500	Home Cinema
● 11.747	H	3DSatTV	27500	High Quality Home
11.747	H	Bet Vision	27500	News + Series
11.747	H	SISAL 1	27500	Low Level
11.747	H	SISAL 2	27500	Low Level
● 11.747	H	BLU 9 BISS	27500	Low Level
● 11.747	H	CONTR LA8/LA9	27500	News + Series
● 11.747	H	GDS	27500	Advertisement
11.747	H	RETE 7	27500	News + Series
● 11.747	H	SALENTINO CHANNEL	27500	Advertisement
● 11.747	H	STUDIO 100 TV	27500	Advertisement
11.766	V	4SHABAB	27500	News + Series
11.766	V	AL HEKMA	27500	News + Series
11.766	V	AL LUBNANIA	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	HAYATONA	27500	News + Series

DVBStreamExplorer™

MPEG2/DVB Transport Stream Analyzer



Feature Summary

- ✓ MPEG2/DVB/ATSC PSI/SI/PSIP scanning
- ✓ Stream demuxing and capturing to disk
- ✓ DVB DSMCC scanning
- ✓ TeleText Analyzer
- ✓ DVB MPE scanning
- ✓ Service Player
- ✓ Real-time Transport Stream Monitor
- ✓ Saving of collected information as text/CSV
- ✓ Supports most BDA compatible devices and specific non-BDA devices*

DVB PSI/SI Scanning

- Scanning of PSI/SI information as defined in ISO13818-1 and EN 300 468.
- Parsing of PAT, CAT, BAT, NIT, SDT, EIT, TDT, TOT, RST, AIT (MHP), PMT and INT tables, including most descriptors.
- Display SI information in tree/list view.
- Unattended scanning of multiple MUXes, i.e. multiple transponders on multiple satellites.

DVB Service Viewer

- View DVB service information of collected PSI/SI data.
- Organize service view by satellite position, network ID, provider and alphabetic.
- Apply filter to easily locate services with interesting properties, such as MHP, AC3 and H.264 streams.

ATSC PSI/PSIP Scanning

- Scanning of PSI/PSIP information as defined in tables defined in ISO13818-1 and A/65C.
- Parsing of SST, MGT, TVCT, CVCT, RRT, EIT, ETT, DCCT and DCCST tables, including most descriptors.

DVB DSMCC scanning

- Scanning of DVB DSMCC data- and object carousel's as defined in ISO13818-6 and EN 301 192.
- DSMCC is used for distribution of i.e. MHP applications.
- Parsing of DSMCC sections.
- View information about DSMCC data-carousels.
- View information about DSMCC object-carousels.
- Saving of DSMCC data- and object carousels files. Object carousels are saved with original directory/file structure.

DVB MPE scanning

- Scanning of DVB MultiProtocol Encapsulation (MPE) as defined in ISO13818-6 and EN 301 192.
- Scan for active MAC addresses on MUX.
- Scan for active IPV4, IPV6, TCP and UDP endpoints.

Real-time Transport Stream Monitor

- Full parsing of PAT, PMT, CAT, NIT, SDT, BAT, TOT, TDT and EIT PSI/SI tables.
- Summary of services on current MUX including key parameters.
- Summary of services on other MUXes.
- Logging of MPEG2 AV, H.264 and AC3 elementary stream key parameters.
- List of MUXes from NIT including key parameters.
- Summary of CA (EMM/ECM) information including key parameters.

... and much more!**

* For a list of supported devices please visit our website at www.dvbstreamexplorer.com.
** Specific features are only available in DVBStreamExplorer Professional Edition.

Download your free trial today from www.dvbstreamexplorer.com

●12.015 H BBC World	27500	Quality Entertainment.
●12.015 H Bibel TV	27500	News + Series
●12.015 H Bloomberg	27500	News + Series
●12.015 H Deluxe	27500	Low Level
●12.015 H DSF	27500	Quality Entertainment.
●12.015 H Luxe TV	27500	News + Series
●12.015 H QVC	27500	News + Series
●12.015 H Tele 5	27500	News + Series
●12.015 H TV 5 Monde	27500	News + Series
●12.015 H TV Gusto	27500	Quality Entertainment.
●12.015 H UProm.TV	27500	Advertisement
●12.015 H Volksmusik TV	27500	Quality Entertainment.
●12.015 H Vixx	27500	Quality Entertainment.
●12.015 H DAF	27500	Advertisement
●12.015 H Tier TV	27500	Quality Entertainment.
●12.034 V Animal Planet	27500	High Quality Home
●12.034 V Cartoon Network	27500	High Quality Home
●12.034 V Comedy Central	27500	High Quality Home
●12.034 V Discovery Channel	27500	High Quality Home
●12.034 V Eurosport 2	27500	High Quality Home
●12.034 V HBO 2	27500	High Quality Home
●12.034 V HBO Comedy	27500	High Quality Home
●12.034 V HBO HD	27500	High Qual. Cinema
●12.034 V HiTV	27500	High Quality Home
●12.034 V m1 HD	27500	High Quality Home
●12.034 V Minimax	27500	High Quality Home
●12.034 V MTV Hungary	27500	High Quality Home
●12.034 V Musicmax/Musicmax Ad	27500	High Quality Home
●12.034 V Nat Geo Wild	27500	High Quality Home
●12.034 V National Geographic	27500	High Quality Home
●12.034 V Nickelodeon	27500	High Quality Home
●12.034 V Spektrum	27500	High Quality Home
●12.034 V Travel Channel	27500	High Quality Home
●12.034 V Viasat 3	27500	High Quality Home
●12.034 V Viva Hungary	27500	High Quality Home
●12.034 H DISNEY CINEMAGIC	27500	Quality Entertainment.
●12.034 V Filmbox Extra	27500	Advertisement
●12.034 H Iberialia	27500	Quality Entertainment.
●12.034 H LDTV	27500	News + Series
●12.034 H (Empty Name)	27500	Advertisement
●12.034 H AIERTA	27500	News + Series
●12.034 H FEEDS TSA	27500	News + Series
●12.034 H OPAL TV	27500	News + Series
●12.034 H Parlamentario	27500	Quality Entertainment.
●12.034 H POPULAR TV	27500	News + Series
●12.034 H Tu Tele Local	27500	News + Series
●12.054 H Disney Cinemagic	27500	Quality Entertainment.
●12.054 H Disney Cinemagic +1	27500	Quality Entertainment.
●12.054 H Iberialia	27500	Quality Entertainment.
●12.054 H LDTV	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 Parlamentario	27500	Quality Entertainment.
●12.054 H POPULAR 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 V Record News	27500	Advertisement
●12.074 V Red AD Venir	27500	Advertisement

●12.074 H SEX DONT PANIC	27500	Low Level
●12.074 H SEX HOT / BLACK	27500	Low Level
●12.074 V SEX SCT	27500	Advertisement
●12.074 H SEX SUPER	27500	Low Level
●12.074 V TV Record	27500	Advertisement
●12.074 H ANA FILMS	27500	News + Series
●12.074 H DESTINO GALICIA	27500	Quality Entertainment.
●12.074 H Record News	27500	News + Series
●12.074 H Red AD Venir	27500	News + Series
●12.074 H TV Record	27500	News + Series
●12.092 H SEX DONT PANIC	27500	Low Level
●12.092 H SEX HOT / BLACK	27500	Low Level
●12.092 H SEX SCT	27500	Low Level
●12.092 H SEX SUPER	27500	Low Level
●12.092 H ANA FILMS	27500	News + Series
●12.092 H DESTINO GALICIA	27500	Quality Entertainment.
●12.092 H Record News	27500	News + Series
●12.092 H Red AD Venir	27500	News + Series
●12.092 H TV Record	27500	News + Series
●12.130 H Body in Balance	27500	Quality Entertainment.
●12.130 H Bundesliga 9	27500	News + Series
●12.130 H Channel One Russia	27500	News + Series
●12.130 H Euro Star	27500	News + Series
●12.130 H EuroNews English	27500	Quality Entertainment.
●12.130 H EuroNews French	27500	Quality Entertainment.
●12.130 H EuroNews Italian	27500	Quality Entertainment.
●12.130 H EuroNews Portuguese	27500	Quality Entertainment.
●12.130 H EuroNews Russia	27500	Quality Entertainment.
●12.130 H EuroNews Spanish	27500	Quality Entertainment.
●12.130 H Kinowelt TV	27500	Quality Entertainment.
●12.130 H LIG TV	27500	Quality Entertainment.
●12.130 H Pink Plus	27500	News + Series
●12.130 H RTR Planeta	27500	Quality Entertainment.
●12.130 H France 24	27500	Quality Entertainment.
●12.207 H 365 дней	27500	High Quality Home
●12.207 H Автолюкс	27500	High Quality Home
●12.207 H Библион	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 CTC	27500	High Quality Home
●12.207 H Спорт	27500	High Quality Home
●12.207 H ТНТ	27500	High Quality Home
●12.207 H Телепутешествия	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 (Empty Name)	27500	Low Level
●12.284 H Poker Channel	27500	News + Series
●12.284 H tve international	27500	News + Series
●12.284 H (Empty Name)	27500	News + Series
●12.303 V High Life HD	26400	High Quality Home
●12.303 V Kinopkaz 2 HD	26400	High Qual. Cinema

●12.303 V Teleputeshstviya HD	26400	High Qual. Cinema
●12.303 V Zhenskij Mir HD	26400	High Quality Home
●12.322 H ATV Avrura	27500	Quality Entertainment.
●12.322 H Euro D	27500	News + Series
●12.322 H FOX Turk	27500	News + Series
●12.322 H Kanal 7	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 Turk Max	27500	Quality Entertainment.
●12.322 H TV Polonia	27500	Quality Entertainment.
●12.360 H Adult Channel	27500	News + Series
●12.360 H Bundesliga 1 - Kabel	27500	Advertisement
●12.360 H Bundesliga 2 - Kabel	27500	Advertisement
●12.360 H Bundesliga 3 - Kabel	27500	Advertisement
●12.360 H Bundesliga 4 - Kabel	27500	Advertisement
●12.360 H Bundesliga 5 - Kabel	27500	Advertisement
●12.360 H Bundesliga 6 - Kabel	27500	Advertisement
●12.360 H Bundesliga 7 - Kabel	27500	Advertisement
●12.360 H Bundesliga Home home	27500	Quality Entertainment.
●12.360 H Bundesliga info - Ka	27500	Advertisement
●12.360 H ESPN Classic Sport	27500	Quality Entertainment.
●12.360 H hustler.tv	27500	Quality Entertainment.
●12.360 H ITVN Europe	27500	Quality Entertainment.
●12.360 H rush	27500	Quality Entertainment.
●12.360 H Yacht & Sail	27500	Quality Entertainment.
●12.360 H blue Hustler	27500	Advertisement
●12.360 H Bundesliga 8 - Kabel	27500	Advertisement
●12.360 H KabelKiosk InfoKanal	27500	Quality Entertainment.
●12.360 H Travel Channel	27500	Quality Entertainment.
●12.380 V HD Life	26400	High Quality Home
●12.380 V Eurosport HD	26400	High Quality Home
●12.380 V Kinopkaz HD	26400	High Qual. Cinema
●12.380 V MTVN HD	26400	High Qual. Cinema
●12.380 V NGC HD	26400	High Qual. Cinema
●12.380 V Infokanal	26400	Low Level
●12.399 H 13TH Street	27500	Low Level
●12.399 H AXN	27500	News + Series
●12.399 H Boomerang	27500	News + Series
●12.399 H Cartoon Network	27500	Quality Entertainment.
●12.399 H ESPN America	27500	Quality Entertainment.
●12.399 H History	27500	Quality Entertainment.
●12.399 H Motors TV Deutschland	27500	News + Series
●12.399 H National Geographic	27500	Quality Entertainment.
●12.399 H Sci Fi Deutschland	27500	News + Series
●12.399 H Silverline	27500	News + Series
●12.399 H The Biography Channel	27500	Quality Entertainment.
●12.399 H Turner Classic Movie	27500	News + Series
●12.437 H sportdigital	27500	High Quality Home
●12.437 H BBC Prime	27500	News + Series
●12.437 H Coming soon 11	27500	News + Series
●12.437 H Coming soon 13	27500	Quality Entertainment.
●12.437 H El Entertainment (D/	27500	News + Series
●12.437 H El Entertainment (PL	27500	Quality Entertainment.
●12.437 H El Entertainment (TR	27500	Quality Entertainment.
●12.437 H Gute Laune TV	27500	Quality Entertainment.
●12.437 H Nick Junior	27500	Quality Entertainment.
●12.437 H Romance TV	27500	News + Series
●12.437 H sportdigital	27500	Quality Entertainment.

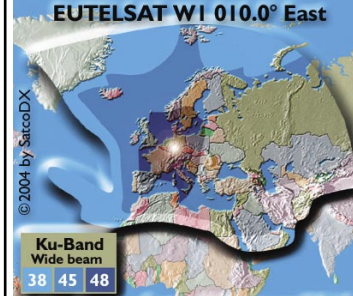
●12.437 H VH1 Classic	27500	News + Series
●12.437 H Volksmusik TV	27500	Quality Entertainment.
●12.437 H yourfamily	27500	Quality Entertainment.
●12.437 H (Empty Name)	27500	Low Level

Europe

EUTELSAT W1

10.0 East

EUTOWIKE



http://www.SatcoDXI.com/0010
Coverage Code EUTOWIKE

●10.970 V UP4	4167	Home Cinema
●11.070 H NBA srv1	7200	Home Cinema
●11.070 H NBA TV	7200	Home Cinema
●11.070 H (Empty Name)	7200	Advertisement
●11.152 H FTV-SEE	2269	Advertisement
●11.156 H Al Jazeera	3978	Quality Entertainment.
●11.160 H ADJARA-TV	2170	News + Series
●11.163 H Telemuliere	2308	News + Series
●11.172 H PAYAM TV	2532	Advertisement
●11.175 H AL-FORAT	2532	Quality Entertainment.
●11.179 H BELADI TV	2532	Quality Entertainment.
●11.182 H SAT-7	1707	Advertisement
●11.184 H SHANT	1698	Advertisement
●11.187 V eurotic TV	1628	News + Series
●11.190 V FRENCH LOVER	3582	News + Series
●11.190 V Xdream TV	3582	News + Series
●11.190 V Suryoyo TV	3582	Low Level
●12.562 V DisneyME	4003	Quality Entertainment.
●12.611 H MGM EU	9259	Quality Entertainment.
●12.611 H MGM MC	9259	Quality Entertainment.
●12.611 H MGM ME	9259	Quality Entertainment.
●12.631 V AP GVW +442074827575	8888	Quality Entertainment.

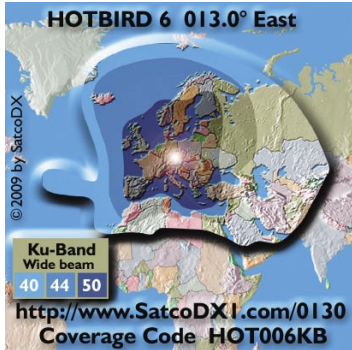
Freq Pol Channel Name Symbol Rate Programming Type
GHz ksym/sec SatcoDX Definition

Europe, Middle East

HOTBIRD 6,8,9

13.0 East

HOT006KB



10.830 H Autonomia	3333	Quality Entertain.
10.853 H FRENCH LOVER	27500	News + Series
10.853 H X DREAM TV	27500	News + Series
10.853 H Arab-Girls.TV	27500	Advertisement
10.853 H ALO TV	27500	Advertisement
10.853 H ArabSexClub	27500	Advertisement
10.853 H DM Digital	27500	News + Series
10.853 H eurotic TV	27500	News + Series
10.853 H Fatayat 7 armanat	27500	Advertisement
10.853 H IRAN - TV MARKET	27500	News + Series
10.853 H IRAN-FMTV	27500	News + Series
10.853 H IRAN-MNTV	27500	Low Level
10.853 H JAY JAY TV	27500	News + Series
10.853 H Physique TV	27500	News + Series
10.853 H Sexy-Arab.TV	27500	Advertisement
10.853 H Supreme Master TV	27500	Quality Entertain.
10.853 H Suryoyo SAT	27500	Low Level
10.853 H Ta3arees TV	27500	Advertisement
10.872 V AL Aoula	27500	Quality Entertain.
10.872 V Arradia 2	27500	Quality Entertain.
10.872 V AL Aoula INTER	27500	Quality Entertain.
10.872 V AL MAGHRIBIA	27500	Quality Entertain.
10.872 V AlAoula INTER-L	27500	Quality Entertain.
10.872 V ARRABIAA	27500	Quality Entertain.
10.872 V ARRADIA	27500	Quality Entertain.
10.872 V ASSADISSA	27500	Quality Entertain.
10.872 V MediSAT	27500	Quality Entertain.
10.992 V Rai 4	27500	News + Series
10.992 V Rai Africa	27500	Quality Entertain.
10.992 V RaiDue	27500	Quality Entertain.
10.992 V RAITALIA INTERNAT	27500	Quality Entertain.
10.992 V RaiTre	27500	Quality Entertain.
10.992 V RaiUno	27500	Home Cinema
11.013 H 3CHANNEL	27500	Low Level
11.013 H AIT	27500	Low Level
11.013 H AL FAYHAA	27500	News + Series
11.013 H Angel TV	27500	Low Level
11.013 H CGN	27500	Low Level
11.013 H Cinquestelle	27500	News + Series
11.013 H Didar Global TV	27500	Low Level
11.013 H Free channel	27500	Advertisement
11.013 H Gali Kurdistan TV	27500	News + Series
11.013 H Hope channel	27500	News + Series
11.013 H MTA International	27500	Low Level
11.013 H Pro TV International	27500	News + Series
11.013 H Rete 0	27500	Advertisement
11.013 H RTG TV	27500	News + Series
11.013 H RU TV	27500	Low Level
11.013 H Rusliya Al-Yaum	27500	News + Series
11.013 H RVS Italy	27500	News + Series
11.013 H S24	27500	Low Level
11.013 H SARAFAN	27500	News + Series
11.013 H Sri Lanka One	27500	Low Level
11.013 H TBM	27500	Low Level
11.013 H VideoBergamo	27500	Low Level
11.034 V Game One	27500	News + Series
11.034 V 2M Maroc	27500	News + Series
11.034 V Al Jazeera Intl	27500	Quality Entertain.
11.034 V AZTV	27500	News + Series
11.034 V Berbere Television	27500	Low Level
11.034 V CTV9	27500	News + Series
11.034 V RCTV	27500	News + Series
11.034 V Salute 1	27500	News + Series
11.034 V SHANT TV	27500	News + Series
11.034 V TELESUD	27500	News + Series
11.034 V TV CORAN	27500	News + Series
11.034 V TV TAMAZIGHT	27500	News + Series
11.034 V Vesti	27500	News + Series
11.054 H CTV Coptic CH	27500	Low Level
11.054 H Iran Beauty	27500	Low Level
11.054 H Iran Music	27500	News + Series
11.054 H Libya Al Shababiyah	27500	News + Series
11.054 H MI-TV	27500	Low Level
11.054 H RAJ	27500	News + Series
11.054 H Real Estate	27500	Low Level
11.054 H RLI CH	27500	Quality Entertain.
11.054 H SRI TV	27500	Low Level
11.054 H TV PERSIA	27500	Quality Entertain.
11.054 H ZDF	27500	News + Series
11.075 V MTVNH	27500	High Qual. Cinema
11.075 V Comedy Central Polsk	27500	News + Series
11.075 V Comedy Central Polsk	27500	News + Series
11.075 V MTV 1	27500	Quality Entertain.
11.075 V MTV Polska	27500	Quality Entertain.
11.075 V Nickelodeon Euro	27500	News + Series
11.075 V VHI	27500	Quality Entertain.
11.075 V VHI Polska	27500	News + Series
11.075 V VHI Polska.	27500	News + Series
11.075 V VIVA Polska	27500	News + Series
11.075 V VIVA Polska.	27500	News + Series

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

11.096 H AFN Family Channel	28000	News + Series
11.096 H AFN Freedom	28000	News + Series
11.096 H AFN Movie Channel	28000	News + Series
11.096 H AFN Rota	28000	News + Series
11.096 H AFN Vicenza Continge	28000	News + Series
11.096 H AFN Xtra/Time Code	28000	Quality Entertain.
11.096 H Aviano	28000	News + Series
11.096 H Naples	28000	News + Series
11.096 H News/BrightAC/Coun	28000	News + Series
11.096 H Signonella	28000	News + Series
11.096 H Vicenza	28000	News + Series
11.096 H Pentagon Channel	28000	News + Series
11.117 V BBC CBeebies Polan	27500	Low Level
11.117 V BBC Entertainment Po	27500	Quality Entertain.
11.117 V BBC Knowledge Poland	27500	News + Series
11.117 V BBC Lifestyle Poland	27500	Quality Entertain.
11.117 V Wedding TV	27500	News + Series
11.117 V Al Malakoot TV	27500	Advertisement
11.117 V BBC Persian	27500	Quality Entertain.
11.117 V Channel 6	27500	Low Level
11.117 V Mktv Sat	27500	Low Level
11.117 V Nickelodeon Polska	27500	Advertisement
11.117 V R1	27500	News + Series
11.117 V R1 Plus	27500	Low Level
11.117 V RIKSAT	27500	Advertisement
11.137 H Motors TV	27500	Quality Entertain.
11.137 H ANN	27500	News + Series
11.137 H FARSH	27500	Quality Entertain.
11.137 H GEM TV	27500	News + Series
11.137 H Kurdistan TV	27500	News + Series
11.137 H NHK World	27500	Quality Entertain.
11.137 H Sardegna1	27500	News + Series
11.137 H TelefortunaSat	27500	News + Series
11.137 H TV5MONDE EUROPE	27500	Quality Entertain.
11.137 H TV5MONDE FBS	27500	Quality Entertain.
11.137 H Videolina	27500	News + Series
11.158 V Polsat	27500	Quality Entertain.
11.158 V Polsat Cafe	27500	News + Series
11.158 V Polsat News	27500	Low Level
11.158 V Polsat Play	27500	Quality Entertain.
11.158 V Polsat Sport	27500	Home Cinema
11.158 V Polsat Sport Extra	27500	Home Cinema
11.158 V Polsat2	27500	News + Series
11.158 V Superstacja	27500	News + Series
11.158 V TV4	27500	News + Series
11.158 V TV Biznes	27500	News + Series
11.179 H BTM INPS	27500	News + Series
11.179 H Sital TV	27500	News + Series
11.179 H ALL TV	27500	Low Level
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 Radio Italia TV	27500	News + Series
11.179 H Studio Europa	27500	Low Level
11.179 H Super Tennis	27500	News + Series
11.179 H TEF CHANNEL	27500	News + Series
11.179 H Teletotto	27500	News + Series
11.179 H Telemarket	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 EBC.1	27500	News + Series
11.200 V ELITE SHOPPING	27500	News + Series
11.200 V Heaven TV	27500	News + Series
11.200 V Hot Club	27500	Advertisement
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 OASI tv	27500	Low Level
11.200 V ODEON SAT	27500	Low Level
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 STARSAT	27500	Low Level
11.200 V Telenord	27500	News + Series
11.200 V TLC SAT	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	News + Series
11.585 V Ayngaran TV	27500	News + Series
11.585 V BFM TV	27500	Quality Entertain.
11.585 V DAYSTAR TV	27500	News + Series
11.585 V ETV Emilia Romagna	27500	News + Series
11.585 V EWTN UK	27500	News + Series
11.585 V INSPIRATIONNAL	27500	News + Series
11.585 V ISLAM TV	27500	News + Series
11.585 V LIVE CASINO	27500	News + Series
11.585 V Payam	27500	News + Series
11.585 V RTS SAT	27500	News + Series
11.585 V TISHK TV	27500	Low Level
11.623 V KBS_WORLD	27500	News + Series
11.623 V IALLOVE	27500	Low Level
11.623 V IEL HOV TV	27500	Low Level
11.623 V Abu_dhabi_Sport	27500	News + Series
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 South for You	27500	Low Level
11.623 V TV ROMANIA	27500	News + Series
11.642 H Bloomberg Feeds (B	27500	Quality Entertain.
11.642 H Bloomberg Feeds (B	27500	Quality Entertain.

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

11.642 H	Bloomberg Feeds (B	27500	Quality Entertain.
11.642 H	Bloomberg Feeds (B	27500	Quality Entertain.
11.642 H	Bloomberg Feeds (B	27500	Quality Entertain.
11.642 H	Bloomberg Feeds (B	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 French TV	27500	Quality Entertain.
11.645 H	Bloomberg Italian TV	27500	Quality Entertain.
11.645 H	Bloomberg Spain TV	27500	Quality Entertain.
11.645 H	Bloomberg English TV	27500	Quality Entertain.
11.645 H	Bloomberg European T	27500	Quality Entertain.
11.645 H	Bloomberg German TV	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	AB Channel	27500	Low Level
11.662 V	BLU	27500	Low Level
11.662 V	Canale Italia	27500	News + Series
11.662 V	CHAT LINE	27500	Low Level
11.662 V	CONTO TV	27500	News + Series
11.662 V	CONTO TV 3	27500	Low Level
11.662 V	CONTO TV 4	27500	News + Series
11.662 V	IMC	27500	News + Series
11.662 V	ItalySat	27500	Low Level
11.662 V	LAZIO CHANNEL	27500	Low Level
11.662 V	Libera	27500	News + Series
11.662 V	Link TP158	27500	Low Level
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	PQ Channel	27500	Low Level
11.662 V	PUNTOSAT	27500	News + Series
11.662 V	Rolsat	27500	Low Level
11.662 V	TELECOLORE	27500	News + Series
11.662 V	TELEMEDENASAT	27500	Low Level
11.662 V	Tr2 Sat	27500	Low Level
11.662 V	Tv7 Lombardia	27500	Low Level
11.678 H	AB MOTEURS	27500	News + Series
11.678 H	AB1	27500	Low Level
11.678 H	ACTION	27500	News + Series
11.678 H	ANIMAUX	27500	News + Series
11.678 H	CHASSE & PECHE	27500	News + Series
11.678 H	ENCYCLOPEDIA	27500	Low Level
11.678 H	ESCALES	27500	News + Series
11.678 H	Fit/Toute l'Histoire	27500	News + Series
11.678 H	France 5	27500	News + Series
11.678 H	France 6	27500	News + Series
11.678 H	LCP	27500	Low Level
11.678 H	MANGAS	27500	Low Level
11.678 H	NT1	27500	News + Series
11.678 H	RTL9	27500	News + Series
11.678 H	TF1	27500	News + Series
11.678 H	VIDEOCLICK	27500	Low Level
11.678 H	XXL	27500	Low Level
11.678 H	XXL PL	27500	Low Level
11.678 H	HRT PLUS	27500	Home Cinema
11.678 H	HRT-TV1	27500	Quality Entertain.
11.678 H	HRT-TV2	27500	Quality Entertain.
11.678 H	Health&Beauty TV	27500	Low Level
11.678 H	Ishtar TV	27500	News + Series
11.678 H	Italia 8	27500	News + Series
11.678 H	Jewels Sorg1	27500	Low Level
11.678 H	Jewels Sorg2	27500	Low Level
11.678 H	Jewels Sorg3	27500	Low Level
11.678 H	NOELLO SAT	27500	Low Level
11.678 H	RBC-TV	27500	Quality Entertain.
11.678 H	SexyChannel	27500	Low Level
11.678 H	TAXI CHANNEL	27500	Low Level
11.678 H	A3	27500	News + Series
11.678 H	Administra.it - FLTV	27500	Home Cinema
11.678 H	BLUTV	27500	News + Series
11.678 H	Canal Algeria	27500	News + Series
11.678 H	CARPE DIEM	27500	Low Level
11.678 H	DIRECT 8	27500	News + Series
11.678 H	EURIOTALY	27500	Low Level
11.678 H	feed	27500	Low Level
11.678 H	GENIUS TV	27500	Low Level
11.678 H	MEDIOLANUM	27500	Quality Entertain.
11.678 H	Nile News	27500	News + Series
11.678 H	Nile TV Internationa	27500	News + Series
11.678 H	ONE	27500	Low Level
11.678 H	TV8 Mt Blanc	27500	News + Series
11.678 H	TVA Vicenza	27500	News + Series
11.678 H	AL JAZEERA CHILDR	27500	Home Cinema
11.678 H	Baraam	27500	Home Cinema
11.678 H	T. R. Padre Pio	27500	News + Series
11.678 H	TELELOTTO	27500	News + Series
11.677 H	Canal +	27500	High Quality Home
11.677 H	I tele	27500	High Quality Home
11.677 H	M6	27500	High Quality Home
11.677 H	Orange ciné choc	27500	High Quality Home
11.677 H	Orange ciné choc gen	27500	High Quality Home
11.677 H	Orange ciné géants	27500	High Quality Home
11.677 H	Orange ciné géants g	27500	High Quality Home
11.677 H	Orange ciné happy	27500	High Quality Home
11.677 H	Orange ciné happy ge	27500	High Quality Home
11.677 H	Orange ciné max	27500	High Quality Home
11.677 H	Orange ciné max gene	27500	High Quality Home
11.677 H	Orange ciné max HD	27500	High Quality Home
11.677 H	Orange ciné novo	27500	High Quality Home
11.677 H	Orange ciné novo gen	27500	High Quality Home
11.677 H	Orange Sport	27500	High Quality Home
11.677 H	Orange Sport generet	27500	High Quality Home
11.677 H	W9	27500	High Quality Home
11.677 H	Orange Sport HD	27500	High Quality Home
11.677 H	CNNi	27500	News + Series
11.677 H	JSTV1	27500	News + Series
11.677 H	JSTV2	27500	News + Series
11.677 H	1TVRUS Europe	27500	Quality Entertain.
11.677 H	ARM_1	27500	Quality Entertain.
11.677 H	BBC World News	27500	Quality Entertain.
11.677 H	Euronews	27500	Quality Entertain.
11.677 H	Sonshine TV	27500	News + Series

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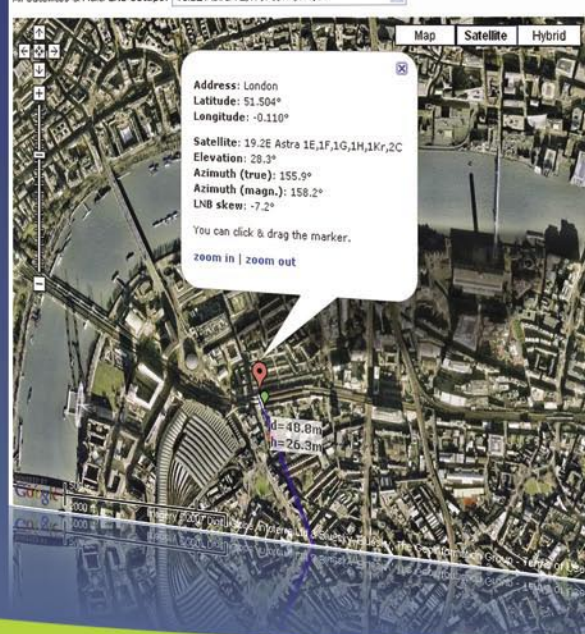
London

Popular Satellites:

28.2E 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: 19.2E Astra 1E,1F,1G,1H,1K,2C



References



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11.541 V BERGAMOSAT	22000	News + Series
11.541 V La Nuova TV	22000	Low Level
11.541 V Nessuno TV	22000	Low Level
11.541 V ROMAUNO	22000	News + Series
11.541 V Sardegna Channel	22000	Low Level
11.541 V Teleombardia	22000	News + Series
11.541 V TeleTirreno	22000	Low Level
11.541 V THOU TV	22000	Low Level
11.541 V TIVITVU	22000	Low Level
11.541 V Toscana Channel	22000	Low Level
11.541 V Umbria Channel	22000	Low Level
11.541 V YUDEM	22000	News + Series
11.566 H Barada TV	27500	News + Series
11.566 H Boday 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 SHAFIAA	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 Smile of a Child	27500	News + Series
11.566 H Smile of a Child Rus	27500	News + Series
11.566 H TBN Europe	27500	Quality Entertainment
11.566 H TBN ITALIA	27500	News + Series
11.566 H TBN RUSSIA	27500	News + Series
11.566 H TBN Spain	27500	Quality Entertainment
11.566 H VOA Persian	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*arnanar Nar	27500	Low Level
11.604 H Ailaj TV	27500	Advertisement
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 Arab "Das Erste"	27500	Quality Entertainment
11.604 H ASD SAT	27500	Low Level
11.604 H DW Digital	27500	News + Series
11.604 H DW-TV ARABIA	27500	Quality Entertainment
11.604 H DW-TV EUROPA	27500	Quality Entertainment
11.604 H Erde und Mensch	27500	Low Level
11.604 H Ethnic TV	27500	News + Series
11.604 H Italia	27500	News + Series
11.604 H Lebnaniant TV.	27500	Advertisement
11.604 H Love TV	27500	Advertisement
11.604 H Napoli TLA	27500	News + Series
11.604 H Pali Television	27500	News + Series
11.604 H RTL 2 CH	27500	Quality Entertainment
11.604 H Sex9 Arab	27500	Advertisement
11.604 H Sexy love girls	27500	Advertisement
11.604 H Sexy Sexy TV	27500	Low Level
11.604 H Tele A	27500	News + Series
11.604 H Tele A+	27500	News + Series
11.604 H Wala3 Arab tv	27500	Advertisement
11.604 H xxx Action TV	27500	Low Level
11.727 V S1	27500	Low Level
11.727 V S2	27500	Low Level
11.727 V S3	27500	Low Level
11.727 V S4	27500	News + Series

11.727 V S5	27500	Low Level
11.727 V S6	27500	Low Level
11.727 V BBC Arabic	27500	Quality Entertainment
11.727 V Canal 24 Horas	27500	Quality Entertainment
11.727 V DM ARABIA	27500	News + Series
11.727 V PARS TV	27500	Low Level
11.727 V TAK TV	27500	News + Series
11.727 V TVE Internacional	27500	Quality Entertainment
11.727 V TVE Internacional As	27500	Quality Entertainment
11.785 H SKY Focus HD	27500	High Quality Home
11.785 H SKY HD + 24	27500	High Qual. Cinema
11.785 H Prima Fila HD	27500	High Qual. Cinema
11.785 H Test 1	27500	News + Series
11.785 H Test 2	27500	News + Series
11.785 H Test 3	27500	News + Series
11.785 H Test 4	27500	News + Series
11.785 H Test 5	27500	News + Series
11.785 H Test 6	27500	News + Series
11.785 H Test 7	27500	News + Series
11.823 H R11	27500	Home Cinema
11.823 H ALPHA TV	27500	Home Cinema
11.823 H ALTER	27500	Quality Entertainment
11.823 H ANT-1	27500	Quality Entertainment
11.823 H JETIX	27500	News + Series
11.823 H MEGA	27500	News + Series
11.823 H novacinema1	27500	News + Series
11.823 H novaports1	27500	Home Cinema
11.823 H novaports1 Cy	27500	Quality Entertainment
11.823 H R1	27500	Quality Entertainment
11.823 H R12	27500	News + Series
11.823 H R13	27500	Quality Entertainment
11.823 H R3	27500	Quality Entertainment
11.823 H R4	27500	Quality Entertainment
11.823 H R5	27500	Quality Entertainment
11.823 H R6	27500	Quality Entertainment
11.823 H STAR	27500	Quality Entertainment
11.842 V Caccia e Pesca	27500	Quality Entertainment
11.842 V Fox Crime +1	27500	News + Series
11.842 V GXT	27500	News + Series
11.842 V History	27500	News + Series
11.842 V iadv Video	27500	News + Series
11.842 V JimJam	27500	News + Series
11.842 V Jimmy	27500	Quality Entertainment
11.842 V MotoTV	27500	Quality Entertainment
11.842 V Yacht & Sail	27500	Quality Entertainment
11.842 V SKY Inside	27500	Quality Entertainment
11.861 H Anc1003	27500	News + Series
11.861 H Anc1004	27500	News + Series
11.861 H Anc1005	27500	News + Series
11.861 H Fox Life	27500	News + Series
11.861 H Current	27500	News + Series
11.861 H FX	27500	Quality Entertainment
11.861 H NatGeo Music	27500	Quality Entertainment
11.861 H Prima Fila	27500	Quality Entertainment
11.861 H SKY Meteo24	27500	News + Series
11.861 H SKY TG 24	27500	Quality Entertainment
11.861 H SNAI Sat	27500	News + Series
11.861 H Test 5	27500	Quality Entertainment
11.880 V Alice	27500	Quality Entertainment
11.880 V Fox +1	27500	Quality Entertainment

11.880 V Leonardo	27500	Quality Entertainment
11.880 V Marcopolo	27500	Quality Entertainment
11.880 V NationalGeo	27500	Quality Entertainment
11.880 V Nuvolari	27500	Quality Entertainment
11.900 H Prima Fila 16	27500	Quality Entertainment
11.900 H Prima Fila 17	27500	Quality Entertainment
11.900 H Prima Fila 24	27500	Quality Entertainment
11.900 H Prima Fila 25	27500	Quality Entertainment
11.900 H Prima Fila 3	27500	Quality Entertainment
11.900 H Prima Fila 8	27500	Quality Entertainment
11.900 H SKY Calcio 10	27500	Low Level
11.900 H SKY Calcio 11	27500	Low Level
11.900 H SKY Calcio 12	27500	Low Level
11.900 H SKY Calcio 13	27500	Low Level
11.900 H SKY Calcio 8	27500	Low Level
11.900 H SKY Calcio 9	27500	Low Level
11.900 H SKY Sport 16:9	27500	Low Level
11.938 H ALFA	27500	Quality Entertainment
11.938 H Boomerang	27500	Quality Entertainment
11.938 H Chasse & Pêche	27500	News + Series
11.938 H El Entertainment	27500	News + Series
11.938 H LTV	27500	News + Series
11.938 H novacinema3	27500	News + Series
11.938 H novacinema3 Cy	27500	News + Series
11.938 H novaports highlight	27500	Quality Entertainment
11.938 H novaports4	27500	Low Level
11.938 H novaports4 Cy	27500	Low Level
11.938 H novaports6	27500	Quality Entertainment
11.938 H novaports6 Cy	27500	News + Series
11.938 H Playboy TV	27500	Low Level
11.938 H Playboy TV Cy	27500	Low Level
11.938 H Private Spice	27500	Low Level
11.938 H Private Spice Cy	27500	Low Level
11.938 H The History Channel	27500	News + Series
11.938 H Nova Promo	27500	News + Series
11.958 V Discovery	27500	Quality Entertainment
11.958 V SKY Sport 1	27500	Home Cinema
11.958 V SKY Sport 2	27500	Home Cinema
11.958 V SKY Sport 24	27500	News + Series
11.958 V SKY SuperCalcio 1	27500	News + Series
11.958 V SuperActive	27500	Low Level
11.958 V Sports Active 2	27500	Low Level
11.958 V Sports Active 3	27500	News + Series
11.958 V Toon Disney	27500	News + Series
11.976 H Cartoon Network	27500	News + Series
11.976 H Cult	27500	News + Series
11.976 H Fantasy	27500	Quality Entertainment
11.976 H Fox	27500	News + Series
11.976 H Fox Crime	27500	News + Series
11.976 H Fox Life	27500	News + Series
11.976 H History +1	27500	News + Series
11.976 H Jetix	27500	News + Series
11.976 H NatGeo Wild	27500	Quality Entertainment
11.976 H NatGeoAdventure	27500	Quality Entertainment
11.976 H NationalGeo +1	27500	Quality Entertainment
11.996 V NationalGeo HD	27500	High Qual. Cinema
11.996 V Next HD	27500	High Qual. Cinema
11.996 V SKY Cinema HD	27500	High Qual. Cinema
12.015 H ART - ARABESQUE	27500	Low Level
12.015 H ART CINEMA - AR	27500	Low Level

12.015 H ART HEKAYAT - A	27500	News + Series
12.015 H ART HEKAYAT KAMAN	27500	Low Level
12.015 H ART MOVIES - A	27500	News + Series
12.015 H ART MOVIES2 - A	27500	News + Series
12.015 H ART PRIME SPORT -	27500	News + Series
12.015 H ART SPORT 1 - A	27500	News + Series
12.015 H ART SPORT 2 - A	27500	News + Series
12.015 H ART SPORT 3 - A	27500	News + Series
12.015 H ART SPORT 4 - A	27500	News + Series
12.015 H ART SPORT 5 - A	27500	Low Level
12.015 H ART SPORT 6 - A	27500	Low Level
12.015 H LBC EUROPE - AR	27500	News + Series
12.015 H FUTUTRE NEWS - A	27500	News + Series
12.015 H IQRAA - ARABESQ	27500	Low Level
12.034 V Disney Channel	27500	News + Series
12.034 V EI	27500	News + Series
12.034 V ESPN America	27500	Quality Entertainment
12.034 V Playhouse Disney	27500	Low Level
12.034 V Raisat Premium	27500	Quality Entertainment
12.034 V SKY Cinema 1	27500	Quality Entertainment
12.034 V SKY Family	27500	Quality Entertainment
12.034 V SKY Mania	27500	Quality Entertainment
12.034 V SKY Max	27500	Quality Entertainment
12.034 V SKY Uno +1	27500	Low Level
12.054 H iadv Amici	27500	Advertisement
12.054 H SKY Calcio 1	27500	News + Series
12.054 H SKY Calcio 14	27500	News + Series
12.054 H SKY Cinema +1	27500	Quality Entertainment
12.054 H SKY Classics	27500	News + Series
12.054 H SKY Hits	27500	Quality Entertainment
12.054 H SKY Sport 3	27500	Home Cinema
12.054 H SKY Sport Extra	27500	Quality Entertainment
12.054 H SKY Uno	27500	Home Cinema
12.072 V Prima Fila 11	27500	Quality Entertainment
12.072 V Prima Fila 32	27500	Quality Entertainment
12.072 V Prima Fila 33	27500	Quality Entertainment
12.072 V Prima Fila 34	27500	Quality Entertainment
12.072 V Prima Fila 35	27500	Home Cinema
12.072 V Prima Fila 5	27500	Quality Entertainment
12.072 V SKY Calcio 2	27500	Low Level
12.072 V SKY Calcio 3	27500	Low Level
12.072 V SKY Calcio 4	27500	Low Level
12.072 V SKY Calcio 5	27500	Low Level
12.072 V SKY Calcio 6	27500	Low Level
12.072 V SKY Calcio 7	27500	Low Level
12.092 H AXN	27500	News + Series
12.092 H Deejay TV	27500	Quality Entertainment
12.092 H Discovery Sci	27500	Quality Entertainment
12.092 H Discovery Travel	27500	News + Series
12.092 H Eurosport HD	27500	Low Level
12.092 H GXT +1	27500	Quality Entertainment
12.092 H NationalGeo HD	27500	Low Level
12.092 H Next HD	27500	Low Level
12.092 H Prima Fila HD Promo	27500	Low Level
12.092 H SKY Cinema HD	27500	Low Level
12.092 H SKY HD +24	27500	Low Level
12.092 H SKY Sport HD	27500	Low Level
12.092 H SmashGirls	27500	Quality Entertainment
12.130 H m2 HD	27500	High Quality Home
12.130 H m2	27500	Home Cinema

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11.258 H Jim Jam	27500	High Qual. Cinema
11.258 H MTV2	27500	High Qual. Cinema
11.258 H NASN	27500	High Qual. Cinema
11.258 H OTV	27500	High Qual. Cinema
11.258 H Sport Klub	27500	High Qual. Cinema
11.258 H Sport Klub +	27500	High Qual. Cinema
11.258 H TVP Historia	27500	High Qual. Cinema
11.258 H TVP HD	27500	High Qual. Cinema
11.258 H ITVN EU	27500	Quality Entertain.
11.278 V CANAL+ FILM HD	27500	High Qual. Cinema
11.278 V CANAL+ SPORT HD	27500	High Qual. Cinema
11.278 V ESP HD Bulgaria	27500	High Quality Home
11.278 V ESP HD Czech	27500	High Quality Home
11.278 V ESP HD Dutch	27500	High Quality Home
11.278 V ESP HD German	27500	High Quality Home
11.278 V ESP HD Hungarian	27500	High Quality Home
11.278 V ESP HD Intl	27500	High Quality Home
11.278 V ESP HD Italy	27500	High Quality Home
11.278 V ESP HD Polish	27500	High Quality Home
11.278 V ESP HD Portuguese	27500	High Quality Home
11.278 V ESP HD Russian	27500	High Quality Home
11.278 V ESP HD Turk	27500	High Quality Home
11.278 V EUROSPORT HD	27500	High Quality Home
11.278 V EUROSPORT HD PL	27500	High Quality Home
11.296 H JSC SPORT+1 XP5	27500	Quality Entertain.
11.296 H JSC SPORT+2 XP5	27500	Quality Entertain.
11.296 H JSC SPORT+3 XP5	27500	Quality Entertain.
11.296 H JSC SPORT+4 XP5	27500	Quality Entertain.
11.296 H JSC SPORT+5 XP5	27500	Advertisement
11.296 H JSC SPORT+6 XP5	27500	Advertisement
11.296 H JSC SPORT+7 XP5	27500	Advertisement
11.296 H JSC SPORT+8 XP5	27500	Advertisement
11.355 V Fox Life +1	27500	Quality Entertain.
11.355 V Kiss Kiss	27500	Low Level
11.355 V Live!	27500	Quality Entertain.
11.355 V M20	27500	Low Level
11.355 V Music Box	27500	Quality Entertain.
11.355 V Prima Fila 22	27500	News + Series
11.355 V Prima Fila 28	27500	News + Series
11.355 V R 101	27500	Low Level
11.355 V Radio 105	27500	Low Level
11.355 V Radio 24	27500	Low Level
11.355 V Radio Capital	27500	Low Level
11.355 V Radio DeeJay	27500	Low Level
11.355 V Radio Italia	27500	Low Level
11.355 V Radio Montecarlo	27500	Low Level
11.355 V Radio on SKY	27500	Low Level
11.355 V RDS	27500	Low Level
11.355 V RTL 102.5	27500	Low Level
11.355 V SKY Assist	27500	News + Series
11.355 V Virgin Radio	27500	Low Level
11.355 V Voce	27500	Quality Entertain.
11.393 V Test	27500	News + Series
11.393 V TVN	27500	Home Cinema
11.393 V TVN 24	27500	Quality Entertain.
11.393 V TVN CNBC Biznes	27500	News + Series
11.393 V TVN METEO	27500	News + Series

11.393 V TVN Siedem	27500	Quality Entertain.
11.393 V TVN Style	27500	Quality Entertain.
11.393 V TVN TURBO	27500	Quality Entertain.
11.393 V Mango 24	27500	News + Series
11.411 H Club Prive TV	27500	Low Level
11.411 H Dorcel TV	27500	News + Series
11.411 H SEX ON TV CLASSIC	27500	Low Level
11.411 H SEX ON TV CRYSTAL	27500	News + Series
11.411 H SEX ON TV GOLD	27500	News + Series
11.411 H SEX ON TV Silver	27500	Low Level
11.411 H Sevince TV	27500	Advertisement
11.411 H ADJARA TV	27500	News + Series
11.411 H Al-Hayat	27500	News + Series
11.411 H AVA Persian Music	27500	Low Level
11.411 H Bethel TV	27500	Low Level
11.411 H CALABRIA	27500	Low Level
11.411 H Cancao Nova	27500	News + Series
11.411 H ECTV	27500	Low Level
11.411 H Extra 3	27500	Low Level
11.411 H PTV	27500	News + Series
11.411 H RTA	27500	Low Level
11.411 H SEX ON TV DIAMOND	27500	Advertisement
11.411 H TAPESH TV2	27500	News + Series
11.411 H TIZIANA SAT	27500	News + Series
11.449 H Discovery HD	27500	High Qual. Cinema
11.449 H MGM HD	27500	High Qual. Cinema
11.449 H nSport	27500	High Qual. Cinema
11.449 H TVN HD	27500	High Qual. Cinema
11.508 V Filmbox	27500	Quality Entertain.
11.508 V Filmbox Extra	27500	Quality Entertain.
11.508 V Filmbox Family	27500	Quality Entertain.
11.508 V n Sport	27500	Home Cinema
11.508 V Religia.TV	27500	Home Cinema
11.508 V TVN Lingua	27500	Home Cinema
11.508 V TVP Sport	27500	Home Cinema
11.508 V TVN Warszawa	27500	Quality Entertain.
11.526 H TS11	27500	Home Cinema
11.526 H TS12	27500	Home Cinema
11.526 H TSR1	27500	Home Cinema
11.526 H TSR2	27500	Home Cinema
11.747 H AL ARABIYA	27500	News + Series
11.747 H AL SHARQIYA	27500	Quality Entertain.
11.747 H DUBAI SPORTS	27500	Quality Entertain.
11.747 H DUBAI TV	27500	Quality Entertain.
11.747 H EZ Shop	27500	News + Series
11.747 H MBC MAGHREB AL AR	27500	News + Series
11.747 H ME SHOP	27500	News + Series
11.747 H PMC	27500	Quality Entertain.
11.747 H SAMADUBAI	27500	Quality Entertain.
11.766 V RAI2	27500	Home Cinema
11.766 V RAI1	27500	Home Cinema
11.766 V RAI3	27500	Home Cinema
11.766 V RaiEdu1	27500	News + Series
11.766 V RaiMed	27500	News + Series
11.766 V Senato	27500	News + Series
11.804 V Camera Deputati	27500	News + Series
11.804 V Rai Gulp	27500	Quality Entertain.
11.804 V Rai Sport più	27500	Home Cinema
11.804 V Rai Storia	27500	Quality Entertain.

11.804 V RAI TEST	27500	News + Series
11.804 V Rai Test HD	27500	Low Level
11.804 V RaiNettunoSat1	27500	News + Series
11.804 V RaiNotizie24	27500	News + Series
11.804 V SAT2000	27500	Quality Entertain.
11.919 V Test	27500	Quality Entertain.
11.919 V Canale 5	27500	Home Cinema
11.919 V Italia 1	27500	Home Cinema
11.919 V Mediashopping	27500	News + Series
11.919 V Retequattro	27500	Home Cinema
11.919 V ACM Channel	27500	Low Level
11.919 V AL JAZEERA	27500	Quality Entertain.
11.919 V AlJazeera Documentar	27500	Quality Entertain.
11.919 V AlJazeera Mubasher	27500	Quality Entertain.
11.919 V Challenger Test	27500	Low Level
11.919 V Free Channel	27500	Low Level
11.919 V HIGH LIFE TV	27500	News + Series
11.919 V Jighen	27500	Advertisement
11.919 V MediterraneoSat	27500	News + Series
11.919 V Puglia Channel	27500	News + Series
11.919 V Radio Radio TV	27500	News + Series
11.919 V S.NEU JERUSALEM	27500	Low Level
11.919 V Sicilia Channel	27500	News + Series
11.919 V Telefoggia	27500	Low Level
11.919 V Telemarket 2	27500	Quality Entertain.
12.616 H Class CNBC	27500	Quality Entertain.
12.616 H Comedy Central	27500	Quality Entertain.
12.616 H Eurosport	27500	Quality Entertain.
12.616 H Eurosport 2	27500	Quality Entertain.
12.616 H Eurosport News	27500	News + Series
12.616 H La7	27500	News + Series
12.616 H Milan Channel	27500	News + Series
12.616 H Nickelodeon	27500	News + Series
12.616 H Sportitalia	27500	Quality Entertain.
12.616 H Videotalia	27500	Quality Entertain.
12.635 V Classica	27500	News + Series
12.635 V DeAKids	27500	News + Series
12.635 V Disney Ch. +1	27500	News + Series
12.635 V Disney in English	27500	News + Series
12.635 V Inter Channel	27500	Low Level
12.635 V Juventus Channel	27500	News + Series
12.635 V Raisat YOYO	27500	News + Series
12.635 V RaisatExtra	27500	Quality Entertain.
12.635 V SKY Cinema +24	27500	Quality Entertain.
12.635 V SKY Max +1	27500	Quality Entertain.
12.635 V Toon Disney +1	27500	Quality Entertain.
12.654 H AL IRAQIA TV	27500	News + Series
12.654 H AL MUSTAKILLA	27500	News + Series
12.654 H ESC	27500	Advertisement
12.654 H JORDAN	27500	Quality Entertain.
12.654 H KUWAIT	27500	News + Series
12.654 H LIBYA	27500	News + Series
12.654 H LIVE TV	27500	Quality Entertain.
12.654 H OMAN	27500	Quality Entertain.
12.654 H QATAR TV	27500	Quality Entertain.
12.654 H SAUDI 1	27500	News + Series
12.654 H SHARJAH TV	27500	Quality Entertain.
12.654 H SUDAN	27500	News + Series
12.673 V AL Aoula	27500	Quality Entertain.

12.673 V Arriadia 2	27500	Quality Entertain.
12.673 V AL Aoula INTER	27500	Quality Entertain.
12.673 V AL MAGHREBIA	27500	Quality Entertain.
12.673 V AlAoula INTER+L	27500	Quality Entertain.
12.673 V ARRABIAA	27500	News + Series
12.673 V ARRADIA	27500	Quality Entertain.
12.673 V ASSADISSA	27500	Quality Entertain.
12.673 V MediSAT	27500	Quality Entertain.
12.692 H AB3	27500	Low Level
12.692 H AB4	27500	Low Level
12.692 H CINE FIRST	27500	Low Level
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	Quality Entertain.
12.692 H Gulli	27500	Low Level
12.692 H M6	27500	Low Level
12.692 H NRJ12	27500	Quality Entertain.
12.692 H O. sport info	27500	Low Level
12.692 H TMC	27500	News + Series
12.692 H Virgin 17	27500	Low Level
12.692 H W9	27500	News + Series
12.692 H LUXE TV	27500	Quality Entertain.
12.713 V Prima Fila 19	27500	News + Series
12.713 V Prima Fila 36	27500	News + Series
12.713 V Prima Fila 37	27500	Low Level
12.713 V Prima Fila 38	27500	Low Level
12.713 V Prima Fila 39	27500	Low Level
12.713 V Prima Fila 40	27500	News + Series
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	News + Series
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 Raisat Cinema	27500	News + Series
12.731 H Raisat Gambero	27500	News + Series
12.731 H Vh1	27500	News + Series

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

Europe

EUTELSAT W2

16.0 East

EUTOW2KW



● 12.976 H DigitAlb HD-1	22500	High Qual. Cinema
● 12.976 H DigitAlb HD-2	22500	High Quality Home
● 12.976 H DigitAlb HD-3	22500	High Quality Home
● 12.976 H Nat Geo HD	22500	High Quality Home
● 12.976 H SuperSport HD-2	22500	High Quality Home
● 12.976 H SuperSport HD-1	22500	High Quality Home
● 11.055 V Bang Bang	27900	Low Level
● 11.055 V Cufo Tv	27900	Quality Entertain.
● 11.055 V Digi+	27900	Low Level
● 11.055 V DigiFilm 5	27900	Low Level
● 11.055 V DigiFilm Autor	27900	Low Level
● 11.055 V DigiFilm Premiere	27900	Quality Entertain.
● 11.055 V Explorer	27900	Low Level
● 11.055 V Explorer 2	27900	News + Series
● 11.055 V Explorer 3	27900	News + Series
● 11.055 V Junior Tv	27900	Low Level
● 11.055 V My-Music	27900	News + Series
● 11.055 V Top Channel	27900	Low Level
● 11.055 V Top News	27900	Low Level

● 11.061 H Nat Geo Music	5721	Quality Entertain.
● 11.061 H Test Voxson	5721	Quality Entertain.
● 11.094 V 4-X	27900	High Quality Home
● 11.094 V BBF	27900	High Quality Home
● 11.094 V Cartoon Network	27900	High Quality Home
● 11.094 V Fox Crime	27900	High Quality Home
● 11.094 V Fox Life	27900	High Quality Home
● 11.094 V MGM	27900	High Quality Home
● 11.094 V Nat Geo	27900	High Quality Home
● 11.094 V Nat Geo Wilde	27900	High Quality Home
● 11.094 V SuperSonic Tv	27900	High Quality Home
● 11.094 V TeleNorba Tv	27900	High Quality Home
● 11.094 V Tirana Tv	27900	High Quality Home
● 11.094 V Travel	27900	High Quality Home
● 11.094 V XXX	27900	High Quality Home
● 11.094 V TVA	27900	High Quality Home

● 11.094 V Channel X	27900	News + Series
● 11.094 V DigiFilm 6	27900	Low Level
● 11.094 V DigiFilm 7	27900	News + Series
● 11.094 V DigiFilm 8	27900	Low Level
● 11.094 V XX	27900	Quality Entertain.
● 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 7dni	8900	Home Cinema
● 11.148 V Ekids	8900	Low Level
● 11.148 V Eurofootball	8900	News + Series
● 11.148 V IMS feed	8900	Quality Entertain.
● 11.148 V RETV	8900	Quality Entertain.
● 11.158 V PINK DSGN	2894	Quality Entertain.

● 11.166 H GOD Europe	11850	High Quality Home
● 11.166 H FOOT SCHOOL W2	11850	News + Series
● 11.166 H Karaoke Channel	11850	News + Series
● 11.166 H APOSTOLIC ONENESS	11850	News + Series
● 11.166 H FTV Czech	11850	News + Series
● 11.166 H GOD Europe	11850	News + Series
● 11.166 H Telemedia 11	11850	News + Series
● 11.178 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
● 11.304 V Discovery	30000	News + Series
● 11.304 V GTV	30000	News + Series
● 11.304 V NW	30000	Quality Entertain.
● 11.304 V Planeta	30000	News + Series
● 11.304 V Premium Digital	30000	News + Series
● 11.304 V RBS	30000	Quality Entertain.

● 11.304 V EBF	30000	News + Series
● 11.304 V Folklor Tv	30000	Quality Entertain.
● 11.304 V SC Folk	30000	Low Level
● 11.449 H Digi Gold	27500	News + Series
● 11.449 H Klan Tv	27500	News + Series
● 11.449 H Koha Tv	27500	News + Series
● 11.449 H KTV	27500	Low Level
● 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	Low Level
● 11.449 H SuperSport 1	27500	News + Series
● 11.449 H SuperSport 2	27500	Quality Entertain.
● 11.449 H SuperSport 3	27500	News + Series
● 11.449 H SuperSport 4	27500	News + Series
● 11.449 H SuperSport 5	27500	News + Series
● 11.449 H TVSH Tokesor	27500	News + Series
● 11.449 H Big Brother 2	27500	Low Level
● 11.449 H Digi Promo	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	Advertisement

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

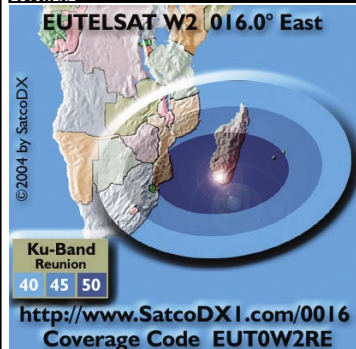
● 12.600 V ATLAS	6771	News + Series
● 12.600 V RTV MONTENEGRO	6771	Quality Entertain.
● 12.621 V CTV	2850	Quality Entertain.
● 12.626 V (Empty Name)	4444	Quality Entertain.
● 12.640 V BBC Prime	6428	News + Series
● 12.640 V Carli TV	6428	News + Series
● 12.640 V Golica TV	6428	News + Series
● 12.648 V BH-TV1	5200	Quality Entertain.
● 12.650 H 44-SNAI TV promo	15000	Quality Entertain.
● 12.650 H 77-AUDIO UNICO	15000	Quality Entertain.
● 12.650 H CH 10 - UNIRE BLU	15000	Quality Entertain.
● 12.650 H CH 20 - U VERDE S	15000	Quality Entertain.
● 12.650 H CH 4 - SNAI TV	15000	Quality Entertain.
● 12.650 H CH 6 - U GRIGIO S	15000	Quality Entertain.
● 12.650 H CH 7 - SPORTIVE S	15000	Quality Entertain.
● 12.650 H UNIRE 1 - GRIGIO	15000	Quality Entertain.
● 12.650 H UNIRE 2 - VERDE	15000	Quality Entertain.
● 12.650 H CH 3 - CANALE TES	15000	Advertisement
● 12.683 H TV7	2894	Quality Entertain.
● 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 ALBIVISION	30000	Advertisement
● 12.726 V Art Channel	30000	News + Series
● 12.726 V Astro Tv	30000	News + Series
● 12.726 V Best of Macedonia	30000	News + Series
● 12.726 V Duga Tv	30000	Low Level
● 12.726 V GRAND STAR TV	30000	Advertisement
● 12.726 V Info Tv	30000	News + Series
● 12.726 V MKTV Sat	30000	Low Level
● 12.726 V MMTV	30000	News + Series
● 12.726 V NTH TEST	30000	Advertisement
● 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 Sital 3	7609	News + Series
● 12.735 H K15 Music	7609	Low Level
● 12.735 H K15 Tv	7609	News + Series
● 12.735 H Sital	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 Emotions	29950	Low Level
● 11.486 H CC Famiz	29950	Low Level
● 11.486 H CC Frissons	29950	Low Level
● 11.486 H CC Premier	29950	Low Level
● 11.486 H CC Star	29950	News + Series
● 11.486 H Discovery	29950	News + Series
● 11.486 H Disney XD	29950	News + Series
● 11.486 H M6	29950	News + Series
● 11.486 H MANGAS	29950	Low Level
● 11.486 H NOOT TV	29950	Advertisement
● 11.486 H NOOT TV NEW	29950	News + Series
● 11.486 H REAL TIME	29950	Low Level
● 11.486 H RTL9	29950	Low Level
● 11.486 H Serie Club	29950	Low Level
● 11.486 H Supersport 3	29950	Low Level
● 11.486 H TeleReunion	29950	News + Series
● 11.486 H Teletoon	29950	Low Level
● 11.486 H Tempo	29950	News + Series
● 11.486 H Teva	29950	Low Level
● 11.486 H TF6	29950	Low Level

● 11.534 V Antenne reunion	30000	High Quality Home
● 11.534 V Direct8	30000	High Quality Home
● 11.534 V Dorcel TV	30000	High Quality Home
● 11.534 V Equidia	30000	High Quality Home
● 11.534 V France 24	30000	High Quality Home
● 11.534 V LCP_PS	30000	High Quality Home
● 11.534 V M6	30000	High Quality Home
● 11.534 V NRJ 12	30000	High Quality Home
● 11.534 V NT1	30000	High Quality Home
● 11.534 V Orange ciné choc	30000	High Quality Home
● 11.534 V Orange ciné géants	30000	High Quality Home
● 11.534 V Orange ciné happy	30000	High Quality Home
● 11.534 V Orange ciné max	30000	High Quality Home
● 11.534 V Orange ciné novo	30000	High Quality Home
● 11.534 V Orange Sport	30000	High Quality Home
● 11.534 V Orange Sport Info	30000	High Quality Home
● 11.534 V RFO Réunion	30000	High Quality Home
● 11.534 V Tempo Réunion	30000	High Quality Home
● 11.534 V TF1	30000	High Quality Home
● 11.534 V TMC	30000	High Quality Home
● 11.534 V W9	30000	High Quality Home
● 11.534 H 13EME RUE	30000	Low Level

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

● 11.534 H ACTION	30000	Low Level
● 11.534 H CANAL J	30000	Low Level
● 11.534 H DISNEY CHANNEL	30000	Quality Entertain.
● 11.534 H I TELE	30000	Quality Entertain.
● 11.534 H L'EQUIPE TV	30000	News + Series
● 11.534 H LCI	30000	News + Series
● 11.534 H MCM	30000	News + Series
● 11.534 H PARIS PREMIERE	30000	News + Series
● 11.534 H PLANETE	30000	News + Series
● 11.534 H TCM	30000	Low Level
● 11.534 H TELE REUNION	30000	News + Series
● 11.534 H TEMPO/FRANCE Ô	30000	News + Series
● 11.534 H TMC	30000	Low Level
● 11.534 H TRACE	30000	News + Series
● 11.534 H TV5	30000	Low Level
● 11.534 H VOYAGE	30000	Low Level
● 11.575 V + DE SPORT	30000	Low Level
● 11.575 H ANTENNE REUNION	30000	News + Series
● 11.575 H BBC WORLD	30000	News + Series
● 11.575 H CANAL EVENEMENT	30000	Advertisement
● 11.575 H CUISINE.TV	30000	News + Series
● 11.575 H DISNEY CINEMAGIC	30000	Low Level
● 11.575 V EPL	30000	Advertisement
● 11.575 H EURONEWS	30000	Quality Entertain.
● 11.575 V EXTREME SPORTS	30000	News + Series
● 11.575 H GAME ONE	30000	Quality Entertain.
● 11.575 V KANAL AUSTRAL	30000	Low Level
● 11.575 H LCP	30000	News + Series
● 11.575 H MCM POP	30000	News + Series
● 11.575 H MOTORS TV	30000	Quality Entertain.
● 11.575 H MTV	30000	News + Series
● 11.575 V NATIONAL GEO	30000	Low Level
● 11.575 H PLANETE NO LIMIT	30000	News + Series
● 11.575 V PLANETE THALASSA	30000	News + Series
● 11.575 H PLAYHOUSE DISNEY	30000	Low Level
● 11.575 V PRIVATE SPICE	30000	Advertisement
● 11.575 H SEASONS	30000	News + Series
● 11.575 H SPORT+	30000	Low Level
● 11.575 H TELE MAISON	30000	Quality Entertain.
● 11.575 H TEST	30000	News + Series
● 11.575 H TEVA	30000	Quality Entertain.
● 11.575 V TRACE TROPICAL	30000	News + Series
● 11.575 V USHUAIA TV	30000	Quality Entertain.
● 11.575 H XXL	30000	Low Level
● 11.575 V ZEE CINEMA	30000	Quality Entertain.
● 11.575 V ZEE TV	30000	News + Series
● 11.596 V + DE SPORT	30000	Low Level
● 11.596 H ANTENNE REUNION	30000	Low Level
● 11.596 H BBC WORLD	30000	News + Series
● 11.596 H CANAL EVENEMENT	30000	Advertisement
● 11.596 H CUISINE.TV	30000	News + Series
● 11.596 H DISNEY CINEMAGIC	30000	Low Level
● 11.596 V EPL	30000	Advertisement
● 11.596 H EURONEWS	30000	News + Series
● 11.596 V EXTREME SPORTS	30000	News + Series
● 11.596 H GAME ONE	30000	Low Level
● 11.596 V KANAL AUSTRAL	30000	News + Series
● 11.596 H LCP	30000	News + Series
● 11.596 H MCM POP	30000	News + Series
● 11.596 H MOTORS TV	30000	News + Series
● 11.596 H MTV	30000	News + Series
● 11.596 V NATIONAL GEO	30000	News + Series
● 11.596 H PLANETE NO LIMIT	30000	Low Level
● 11.596 V PLANETE THALASSA	30000	News + Series
● 11.596 H PLAYHOUSE DISNEY	30000	News + Series
● 11.596 V PRIVATE SPICE	30000	Advertisement
● 11.596 H SEASONS	30000	Low Level
● 11.596 H SPORT+	30000	Low Level
● 11.596 H TELE MAISON	30000	Quality Entertain.
● 11.596 H TEST	30000	News + Series
● 11.596 H TEVA	30000	News + Series
● 11.596 V TRACE TROPICAL	30000	News + Series
● 11.596 V USHUAIA TV	30000	News + Series
● 11.596 H XXL	30000	Low Level
● 11.596 V ZEE CINEMA	30000	News + Series
● 11.596 V ZEE TV	30000	Quality Entertain.
● 11.658 H CANAL+	30000	News + Series
● 11.658 H CANAL+ CINEMA	30000	News + Series
● 11.658 H CANAL+ FAMILY	30000	News + Series
● 11.658 H CANAL+ SPORT	30000	Quality Entertain.
● 11.658 H Cartoon Network	30000	News + Series
● 11.658 H CINEMA EMOTION	30000	Low Level
● 11.658 H CINEMA FAMIZ	30000	Low Level
● 11.658 H CINEMA FRISSON	30000	Low Level
● 11.658 H CINEMA PREMIER	30000	Low Level
● 11.658 H DISNEY XD	30000	News + Series
● 11.658 H EQUIDIA	30000	Quality Entertain.
● 11.658 H EUROSPORT	30000	News + Series
● 11.658 H M6	30000	News + Series
● 11.658 H RTL9	30000	Home Cinema
● 11.658 H TF1	30000	Low Level
● 11.658 H TF6	30000	News + Series
● 11.658 H ZEE MUZIC	30000	Low Level

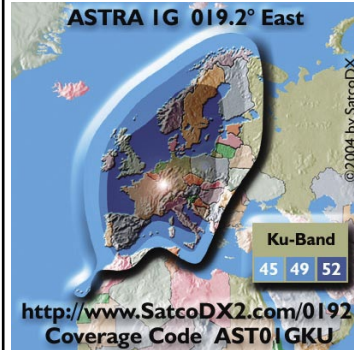
Freq Pol Channel Name Symbol Rate Programming Type
GHz ksym/sec SatcoDX Definition

Europe

ASTRA 1F,1G,1H,1K,1L,1M

19.2 East

AST01GKU



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Der griechische Götterberg muß als Namensgeber erhalten für den 2-kanaligen **DBS**, hinter **dem** sich der Versuchssatellit der 90er Jahre verbirgt.

OLYMPUS hat eine viel weitreichendere Mission im All zu erfüllen, als die breite Öffentlichkeit anhand der beiden zu verteilenden Fernsehprogramme vermuten könnte. Der verlängerte Arm des Hochfrequenzwissenschaftlers im All ist mit derart vielen Möglichkeiten

Die Kombinationen der schwenkbaren Antennen, der Frequenzbereiche und der interessanten Schaltungen könnten nur in mehreren Bänden Literatur abgehandelt werden. Unzählige Hochfrequenzinstitute nehmen mit den Fernmeldeverwaltungen nach einem Zeitplan an den Tests teil.

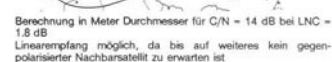
Zugunsten der Communications Payload und der Experimente wurde auf

Für den verbleibenden Großteil Europas ist der Europastrahl zuständig, der ebenfalls jedem Zielland zugeordnet werden kann und dem OLYMPUS einen weiten Einsatzbereich verspricht. Aktiviert wird der Kanal 20 - 12,092 GHz, während Kanal 28 - 12,245 GHz als Reservekanal dem Europastrahl zugeordnet ist. Um in der Versorgung fle-

Innenkreis: Spiegeldurchmesser 0,6 bis 0,9 m
Außenkreis: Spiegeldurchmesser 0,9 bis 1,2 m
je nach belegter Bandbreite der Aussendungen
bezogen auf C/N = 12,5 dB bei LNC 1,8 dB



Berechnung in Meter Durchmesser für G/N = 14 dB bei LNC = 1,8 dB
Linearempfang möglich, da bis auf weiteres kein gegenpolarisierter Nachbarsatellit zu erwarten ist



B 1 = 19.770393 GHz V oder H
B 2 = 29.655589 GHz V



Schraube. So erfüllen Sie die allumfassenden Wünsche Ihrer Kunden. Und diese greifen dann bequem vom Sessel nach den Sternen. Sind Sie jetzt neugierig geworden? Dann wenden Sie sich doch am besten gleich an Ihren ITT NOKIA Repräsentanten. Er informiert Sie gerne über unsere Komplett-Systeme zum "Sat"-sehen.



<http://magazine.TELE-satellite.com/vintage/TELE-satellite-8905-deu.pdf>



Edited by
Alexander Wiese

Nokia Mediamaster 9800S

We have been waiting for over one year and finally it is here: the new Nokia 9800S Mediamaster. Only shortly before the Mediast99 started in London, we received our first test version of this digital box. It would have been better to wait for an update of the firmware, but then it would have been too late to tell you all about it in this issue of TSI. At the end of this test report you will read about the new features. The big changes have not only taken place on the inside but on the outside as well. Nokia's latest box was given a completely new styling of the housing and remote control. On the front, the colour of the DVB logo indicates the type of receiver, where blue stands for a satellite, orange for a cable and green



for a terrestrial receiver. What is left is the famous green display. It shows the name of the channel currently being processed. The 9800S can store up to 2000 channels. Still perfectly hidden behind a lid are the emergency buttons and the PCMCIA slots for Common Interfaces and also a slot for a Viaccess smartcard. Viaccess is integrated in this new Mediamaster. Using this Common Interface technology makes the receiver remarkably universal towards any encryption method. Almost any encryption system in use within Europe today will find its way in a Common Interface module. At this moment, modules are available for Conax (Finland, Norway and Denmark), Nagravision (Spain), Cryptoworks (Czech Republic and Xtra-Music, the former DMX) and Irdeto (except for the modified Irdeto by DF1/Premiere). The built-in Viaccess decoder makes reception of French and Russian channels possible.

10 Years Ago

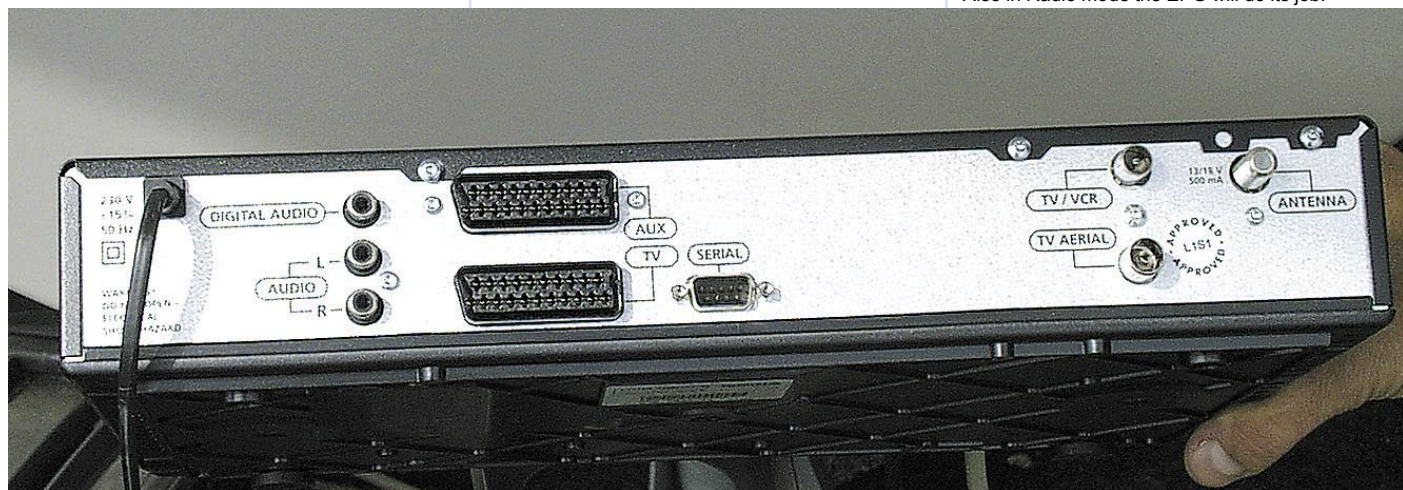
Travel into the Past
TELE-satellite Magazine
Issue 07-08/1999



So let's hop on to the back. Unfortunately, there is only one LNB input. No output to connect an analogue receiver to. Also located at the back are two Scart connectors. Still, it is possible to connect both your television and VCR and an analogue receiver. The manual clearly described how to do this. Nokia has understood very well why many users of prior Mediamasters had opened their box and installed a phono connector for the digital audio output. This new 9800S has been given it already by Nokia. Of course, an analogue audio output is also present, both in cinch. The famous RS-232 interface is still present and can be used to update the firmware or channel settings. However, you don't need to update your receiver using the Internet. A new service from Nokia is that you can have the receiver updated using a special signal on the Astra, Hotbird, Thor or Sirius. It will update your receiver to the latest situation.



A modulator is now built-in and is software adjustable. It can be set to any channel between 21 and 69. The remote control was fully redesigned. It is designed to fit perfectly well in your hand, but it also looks very fine. The circular menu buttons are still there. New buttons are Freeze, Service options and a recall function for the channel you have been watching most recently. The graphical user interface will easily guide you through the first steps of installation. First, you can determine the language of the box. Here you can choose from English, German, Swedish, French, Dutch, Spanish, Italian, Danish, Norwegian and Finnish. After that you have to tell the receiver what other equipment you have installed. When using a universal LNB, you can immediately start enjoying the show. Of course, after you have properly aligned the dish. A measuring tool is built-in and shows the relative signal strength. After entering the values for a new channel, just press the OK button and the quality of the signal is shown. Almost any digital signal available can be caught. If ever you want to receive a far away signal that is not automatically recognised by this new Mediamaster, just enter the transponder settings and have the box do its job. Even without the PID-codes the Nokia 9800S will find almost anything. This was not the case for SCPC signals, but after the already mentioned software update, this problem will be solved. Searching manually for certain channels is possible. Unfortunately, the functions in the extensive menu structure are not very fast. Switching channels however is done very fast. The EPG has been fully redesigned and could easily replace your current printed TV-guide. Unfortunately, a lot of programme providers still don't supply the information with their signals. Also in Radio mode the EPG will do its job.





Finding the channel you want to watch will be a little bit difficult in a range of 2000 channels. Therefore, you can build your own favourites lists. Up to nine different listings with a maximum of 99 channels per listing can be built. This way, every member of your family can have its own favourites listing. But you can also use the nine listings to categorise. It is easy to delete channels or to change the order. You can even change the name of a channel and it is also possible to lock channels. Nokia will supply the 9800S with two listings programmed: one FTA only and one with both FTA and pay-TV. On the pay-TV side, the box uses age differentiation to determine if someone is allowed to watch certain channels. This prevents your youngest from seeing things he or she had better not seen. Channels can also be locked with a four-digit code. Nokia has built this 9800S being very sensitive. So we tried C-band reception. Using a 2.4m dish, the global and hemi-beams of Intelsat were caught without any problem. However, you will need a C-band LNB for this. With SCPC enabled in the most recent firmware, many DXers will get a warm feeling from this new box. Remarkable and a little disappointing is the disappeared SCSI connector. We still believe real multimedia is made of more than a satellite receiver only. One should be able to connect an external DVD or CD-ROM drive. The teletext decoder processed the data very fast. Whenever a channel uses subtitles or has a second audio carrier you can easily select the service with the option button. The i-button not only gives you all data about the channel, but also time and a short note about the programme on. Pressing the i-button again will give more detailed information about the programme and also about what's next. Conclusion

With the new 9800S Nokia offers a high-end digital receiver targeted at family use. The use of both Ku- and C-band reception, free satellite selection and a real universal voltage range (95-260V, 50/60Hz) make this receiver really globally approved. The completely restyled EPG and on-screen display sets a new standard as far as we are concerned. The initial installation can also be done without the manual, since it is made very simple and the menus are all clearly laid out. In standby mode, the 9800S only consumes about 3 watts.

Praxis DigiMaster 9800CI

For one year we have all been betting on dual receivers, offering both analogue and digital reception. However, the situation today shows us that most analogue programmes are also available in digital. That's the reason why most manufacturers now focus on the digital receiver market.

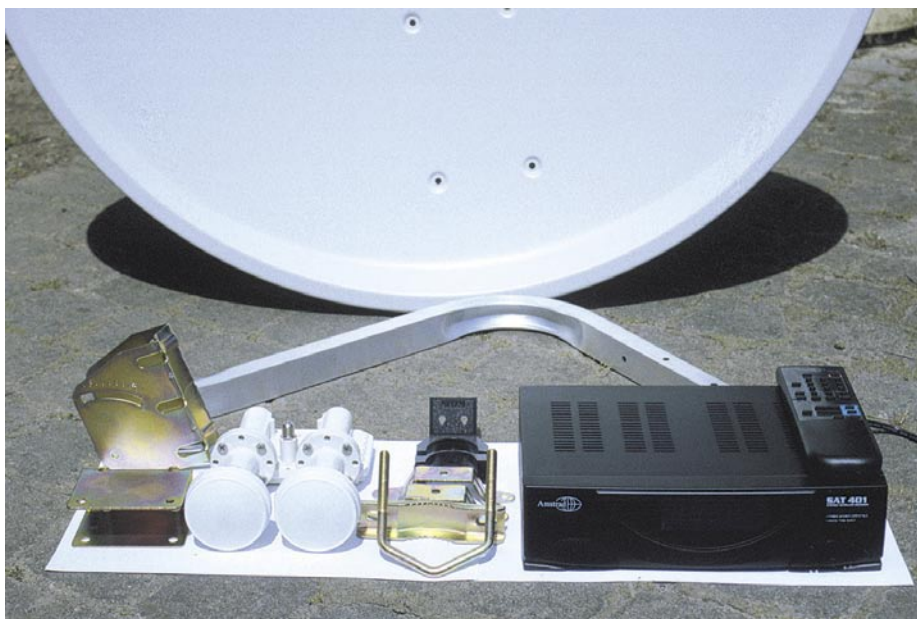
Where you used to need a dish of several meters to be able to watch Thai TV, today a small dish of only 75 cm will do the trick, offering a picture without any sparks. Now, everybody can obtain news directly from the source, from countries like Chile and Argentina. For European people living abroad it is now possible to directly tune into the signals of Italy, Arab countries and many more. There are some requirements to a receiver that can be used globally. Some regions will require proper reception of the C-band, where others require Ku-band reception. A dual polariser with a servo motor is needed to receive both signals, so the receiver must be able to control this piece of equipment as well. Another important issue is the reception of FTA signals (Free-to-Air). But being able to subscribe to some pay-TV package will require the receiver being able to handle all kinds of encryption methods. A Common Interface is the solution. The new Praxis 9800CI will meet all these requirements and many more. At the time we tested this receiver there was no distributor in Europe yet, so we had to get our test sample from Dubai. The outside of the receiver looks much the same as all its predecessors. There is no analogue receiver part built in and the space coming available because of this is now used to store more digital programmes. A total of 2,900, to be precise (2000 TV, 900 radio). For every region around the world this should cover all needs. On the front, a large green display indicated the channel ID, the programme mode and time when in standby mode. Buttons hidden behind a lid enables you to operate the complete receiver. The standby-button can be easily operated and is not placed behind the lid. Also neatly covered by this lid are both slots for CI-modules. A servo polariser can be connected to the terminals at the back. There is no positioner built into this receiver. This is a shame since after testing this receiver for over a longer period we found it would work well with a motorised dish. Three scart connectors at the back connect to your television set, VCR and an external decoder (like for RAI for instance). Additionally, outputs are available for audio-in and video-

in phono connectors. The 0/12 Volt connector can control an external switch and the serial RS-232 interface enables the updates of the firmware and channel settings at 38.400 Baud. A modulator is built-in and it is software adjustable. It will integrate the receiver's signal into an existing terrestrial signal. A nice detail is that you can use any channel available in the total UHF frequency range (in Europe: PAL D/K, B/G, I and SECAM L). Another item back on this receiver is a main power switch. The remote control is designed to fit easily into your hand and the most important keys are all located together in this circular layout which is common today. According to the manufacturer of this receiver, it is a real Plug-&-Play thing. This is generally true, despite all the features available on this box. Normally, you will use this receiver on one or two dishes (LNBs). The initial installation, in fact, only consists of setting the proper LOFs. More dishes can be controlled by this receiver since it supports DiSEqC 1.1 and the common 12V control signal. The antenna menu gives you a lot of options to control your dish configuration. For every satellite you can store a different LOF. When one satellite operates in the C-band you can store the 5.150 GHz and for the Ku-band 10.0 GHz. Another satellite can be set to a universal LNB. Polarisation switching is done using the 14/18V-control signal from the receiver, but this only goes for Ku-band reception, of course. For C-band, you will need to use the servo polariser. For every satellite you can store a different skew. It is possible to use the 9800CI in a small CTV network. Whenever a particular satellite is not available in the long list, you can still easily add it to the system by entering the values needed. You can programme any channel from the TELE-Satellite listing into the transponder listing. Although you can manually set every detail of a channel, the automatic search is much more comfortable. PID-codes are filtered from the data stream and stored with the channel. The Praxis 9800CI is able to determine the FEC itself, however this doesn't go for the symbol rate.



Amstrad SAT 401 SDU 80

A couple of years ago, putting up a satellite dish at home was a rather expensive experience and therefore a step only taken after serious negotiations within the family. After all members had pointed out their opinion, the next step was talking to the engineer who had to install the complete installation. Today, the situation has changed a lot. A complete installation costs only a fraction of what it was in the early days, and installation is just a matter of plug-and-play. Buying a satellite dish and an analogue receiver has become more of an impulsive buy. Amstrad has recognised this market and has therefore introduced a new set with an 80cm dish, a mono block LNB (for both Astra and Hotbird) and the analogue mini receiver SAT 401. It comes rather complete. Only cabling is not included, but then again that is so very difficult to be predetermined in length. This set comes with an 80cm dish made of stainless material. Although putting the parts together is a real piece of cake, the included manual will give thorough explanations for those still unfamiliar with it. Although mainly targeted at the Astra/Hotbird market share, this set will also do perfectly well in any other situation



where there is a separation of 6 degrees between two satellites. The included SAT 401 analogue receiver offers 400 channels, most of which are already programmed with the major channels on all satellites between 42° east and 34.5° west. On the front of the receiver, a large four-digit display indicated the current channel id. When programming the receiver, it indicates the current values. Also positioned on the front are the emergency operation buttons. Since the receiver is rather small, it features only two Scart connectors. One for your television set and one for a VCR or decoder. Two phono jacks supply your stereo with the proper stereo sound. Although a mono block LNB in fact

consists of two LNBs in one housing, still only one cable is used to connect. A rather remarkable specification is the reception frequency range which stretches from 800 up to 2250MHz. This is a rather large spectrum. Terrestrial signals can be combined with that of the receiver. Unfortunately, Amstrad decided to use an old-fashioned adjusting screw for setting the appropriate output channel. The remote control is much bigger than we expected. It has 16 keys and a numeric keypad. In daily use however, you will only use five of them. The rest is used for programming stuff like 22kHz, satellite A or B, sleep timer or other programming facilities.

In practice

Putting the parts of the dish together is very easy. However, we missed some information on the appropriate elevation angle. But since we are dealing with a smaller dish, this also means the opening angle is much larger, making it therefore easier to find a signal using the famous trial and error method. For central Europe, put the dish in a more or less 11 o'clock position and the first signals should be received. Amstrad assumes you will use a universal LNB with this receiver and therefore the values are pre-programmed, but these can of course be changed to 10.0, 10.75, 11.47 and 5.15 (for C-band reception). But since we are talking about a complete kit here, why should we be willing to change these values? In fact, this is the only programming you would have to do prior to start using the receiver. Although the receiver can be reprogrammed according to your personal needs, there is no need to do so when using it in conjunction with the supplied dish and mono block LNB. DiSEqC (v1.0) takes care of the selection of the right satellite. The SAT 401 doesn't feature an on-screen display but the front display makes programming real child's play. For every channel, the video level can be set in two steps. Audio frequencies are simply chosen from a prefixed list and for de-emphases you can choose from 50µs, 75µs, J17 or Stereo (Panda compatible). Although not really being Wegener Panda, the system performs well and offers a crystal clear sound. The quality on audio level also shows on the video side of the receiver. A fine tool is the offset function on the remote control. It enables you to fine-tune the audio and video frequency.





All Satellites with a Fixed Dish

In the article there is presented a new concept of a SAT-TV antenna with a superwide-angle sector of the feed scanning, the mirror of spherical profile being immovable.

The angle sector of coverage reaches 140° which permits to cover practically all the visible satellites. The antenna aperture dimensions are 1.5 x 2.8 m. The concept offered presents a special interest for antennas of more than 3 m in diameter with large mass which are difficult to rotate and position.

Low-Cost reception of weather satellites

Weather satellites use frequencies around 137MHz. To perfectly receive the data, a bandwidth of 34 to 40kHz is required. A normal radio scanner won't do the job here. Some modifications will need to be done as most



scanners have bandwidths of 15 or 90kHz.

The solution is DIY which is no problem as only relatively low frequencies are involved. In 1994, a project named HRX-137 started. It is a build-it-yourself receiver. Throughout the years, the quality has been greatly improved. And the imagination of amateur developers seems to have been unlimited, making it almost a professional receiver. The basic version with Scan control continuously searches the 137MHz and locks on to any weather satellite signal it finds. Other signals are ignored. During our tests, the following frequencies were used:

NOAA 12 on 137.500MHz

NOAA 14 on 137.620MHz

NOAA 15 on 137.500 MHz

Meteor 3-5 on 137.300 MHz (will be replaced with the new Okean)

Okean 4 (1-7) on 137.400 MHz

Sich-1 on 137.400 MHz

Resurs O (1-4) on 137.850 MHz

We asked TSI hardware guru Jan to build the receiver and test it, all in one weekend. And indeed on Monday morning the result was a perfect receiver for the price of only 110 Euro.

On the front, 16 LEDs are in place to indicate the frequency range between 137.0 and 138.0 MHz. It shows the scan procedure or the relative frequency when locked on to a satellite.



Once upon a time, at King Arthurs throne, while the clown is doing his tricks, the magician tells a story: »Many years from now fun and enjoyment will fall down from the skies. Men and women will taste from it, and be silent and calm, leaving the ruler alone to rule. Everyone will have a small box with buttons agore, ordering his or hers entertainment. This box will be called remote, but this is hundreds of years from now.»
King Arthur: »Damn!«



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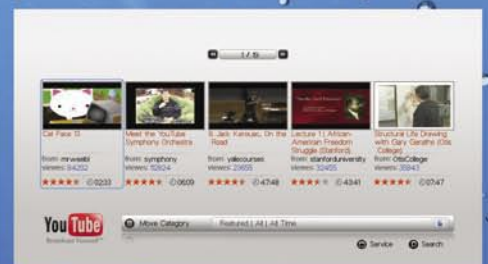
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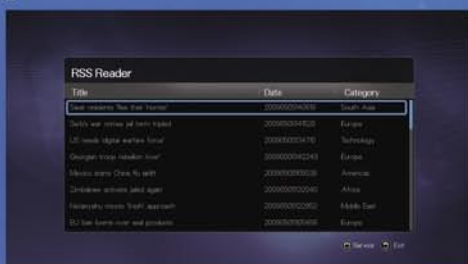
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Corporate Headquarters

OPENSAT, lda.

Urb. Boavista, Bloco 14, R/C
4950-275 Mazedo MNC, Portugal
info@opensat.eu
www.opensat.eu
www.opensat.tv
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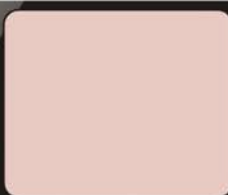


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JIUZHOU ELECTRIC GROUP

Headquarters: NO.16 Yuejin Road Mianyang, Sichuan, China
Shenzhen Base: Jiu Zhou Electric Building, Southern No.12 Road,
Hi-Tech Industrial Park, Nanshan District,
Shenzhen, China 518057

Contact: Ms. Kitty He
Tel: +86-755-2694 7236
Fax: +86-755-2671 5408
E-mail: hxymar@jiuzhou.com.cn
Website: www.jiuzhou.com.cn