

& الإنترنت فائق  
السرعة

## ساتلايت

SATELLITE  
& BROADBAND  
TELE

B 9318 E

تقرير عن شركة  
**ALUO-SAT**  
الأعمال المساعدة  
في الصينتقرير عن شركة  
**TOPFIELD**  
الدمج بين الستلايت  
و الإنترنتقريب اختبار  
**AB-COM**  
كيف تكون قوة ريسيفر HD PVR يعمل  
على لغة Linux ؟

ab-com

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04-05/2009

AB IPBox 910HD



# TMS

## SRM-2100



Start the New year with Topfield Media Solution.

### PVR



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

### GAME



Featuring on-line game 'BATTLE TANK'.

### UCC



Playing media contents of YouTube.

### DivX



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

- Able to transfer media files among network users.
- Live-chatting available among network users.

[www.i-topfield.com](http://www.i-topfield.com)





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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



### 3500 HDMI PVR

Smart Card reader • HDMI output • VFD display • USB PVR ready – recording & playing using external HDD or USB • software upgrade via USB 2.0 • Timeshift function • PIP



### 3000 CRCI PVR

Smart Card reader • 1x CI slot • USB PVR ready - recording & playing using external HDD or USB • software upgrade via USB 2.0 • Timeshift function • PIP



### 3500CI HDMI PVR

Smart Card reader • 1x CI slot • HDMI output • VFD display • USB PVR ready - recording & playing using external HDD or USB • software upgrade via USB 2.0 • Timeshift function • PIP



### 3000 CR PVR

Smart Card reader • USB PVR ready - recording & playing using external HDD or USB • software upgrade via USB 2.0 • Timeshift function • PIP



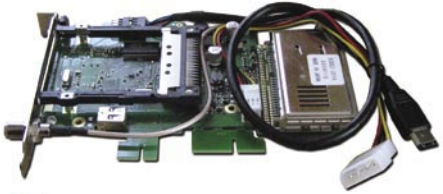
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Digital Linux-based HDTV PVR  
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و لقد أجرت SatcoDX إحصائية هامة  
تقول انه يوجد 18000 قناة تليفزيونية  
فضائية حول العالم و لكن في الواقع لا يشاهد  
المشاهد العادي اكثر من 100 قناة و إذا كنا  
اكثر واقعية فانه لا يشاهد اكثر من 50 قناة و  
ربما اقل من ذلك .

و السؤال الآن : ما هي المعايير التي تجعل  
المشاهد يختار قنواته المفضلة و برمجتها  
من خلال وحدة التحكم عن بعد ؟

هذا يكون طبقا لأولويات كل فرد نتيجة  
لمحتوى القنوات ، و أنا اعتقد أن القنوات التي  
تبث بجودة صورة جيدة نحظى أتوماتيكيا  
بكسب أفضلية للمشاهد - و محتويات  
البرامج تأتي في الدرجة الثانية .

و أنا اعتقد أن إذا قام مقدمي الخدمة  
الفضائية بتقليل عدد القنوات و استثمار ذلك  
في جودة الصورة فستكون النتيجة الحصول  
على اكثر عدد من المشاهدين ، كما أن  
الشركات المنتجة لأجهزة الريسيفر و أجهزة  
التلفزيون المسطحة سوف تسعد عندما  
بسعادة عملائها من أجهزة الاستقبال .

**المخلص**

الكسندر فايسة

ملحوظة : محطتي الإذاعية الفضائية  
لهذا الشهر " Radio Fresh " على القمر  
THOR عند 359 درجة شرق ( 1 درجة  
غرب ) بتردد 12.169 GHz, H, 28000  
و بها موسيقى البوب من بلغاريا مع القليل  
من التحدث و كثير من الموسيقى .



# أعزائي القراء

إن الاختيارات بين أجهزة الريسيفر التي  
تستقبل قنوات فائقة التفاصيل HDTV  
الاستثنائية تصبح افضل و افضل مع مرور  
الوقت ، و في هذا العدد نقدم تقارير اختبار  
عن جهاز ريسيفر مسجل و آخر كارت  
ستلايت .

و لسوء الحظ أن عدد القنوات الفائقة  
التفاصيل لا تزداد بنفس المعدل و على  
النقيض فان مع الأزمة المالية العالمية  
قد أرغمت بعض مقدمي الخدمة الفضائية  
على تخفيض معدل النبضات في الإرسال  
و هذا يوفر المال لمقدم الخدمة الفضائية  
، و تكون النتيجة الحصول على صورة  
تليفزيونية غير ممتعة و هذا ما نسميه "  
وحل النقاط الضوئية ) و ذلك عندما تصل  
الصورة إلى اقل مستوى لها.

و في رأيي يجب عمل النقيض فبدلا من  
وضع اكثر عدد من القنوات في الباقية يكون

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



Tuner Loop-Through Output(Full band) Compliant with Cable Ready Specification  
(for Cable STB only)

Dolby Digital Down-Mix Output Support (\*Optional)

Conax CAS 7 Embedded Chipset Pairing

Cable HD Ready Support (for Cable STB only)

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Software Upgrade via USB 2.0

YPbPr, CVBS, HDMI, SCART Video Output Support

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Various Video Display Format with PAL 576i/576p/720p/1080i 50 Support

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## NEW TECHNOLOGIES – NOW ON STOCK



### 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.



**PVR**  
Playing recorded programmes up to 64 times speed at maximum



**GAME**  
Featuring a double-player game „Battle Tank“



**UCC**  
Playing media contents of YouTube



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

### 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

#### 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

#### DIGIAIR dB

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

- Frequency range of 47-862 Mhz
- Shows the signal strength in dBµV
- Shows the complete spectrum in one picture
- Presents one channel readout with high resolution or six channels simultaneously



### Satlook Micro G2



- Measure on two LNB's at the same time
- Spectrum-analyzer with zoom function
- Super bright 3" LCD display
- Digital BER, QPSK and S/N-ratio
- Readout NIT -gives Satellite ID and TV/Radio-channel info
- DiSEqC according to level 1.0, 1.1 and 1.2

#### ALSO AVAILABLE:

#### Upgrade-KIT for Satlook Micro

You need a PC with internet-access in order to be able to upgrade Your old Micro with the new G2 version.

Satlook Micro G2 upgrade contains:

- CD with software
- New G2 carrying-case
- Owners manual

### 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

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in hall 10.2 / booth A 29



**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
- alphanumeric 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

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**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**

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- JAEGER
- JOHANSSON
- MAXIMUM
- BEST



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

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**Parts**

Multifeederholder 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** QDH 031



AVAILABLE AS:

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

Full LNB range INVACOM available from stock

**MICROELECTRONICS TECHNOLOGY INC.**

High-Line-Series



AVAILABLE AS:

- MTI AP 8 T2NRC Single
- MTI AP 82 XT2N Twin
- MTI AK54 XT2N Quad

Full LNB range MTI available from stock

**Inverto**

digital-labs

IDLP UST110-CUO10-8PP

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



**Multifocus Dish**

**MAXIMUM**

E-85 Multifocus 48° Dish



- Ellipse shaped dish
- LNB holder for 5 LNBs, 48°
- Turnable mounting bracket for optimized reception
- Steel with polyester coating

**Dishes**

**CIBERTINI TRIAX Emme esse**

- 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**

**NEW**

**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



**Balcony mounting parts**

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



120 cm length – Ø 6 cm

ALSO AVAILABLE:

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

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# The Wide World of Extra Features: PC Software for Topfield Receivers

by Thomas Haring

*Without doubt South Korean company Topfield is one of the most innovative manufacturers of satellite receivers in the world. Owners of Topfield products not only get a receiver, but a masterpiece of state-of-the-art technology with a whole range of extra features that extend far into the PC realm. We want to take you on a journey to the wide world of Topfield bonus features:*

## Creating a DVD

If you already own a PVR receiver you certainly had moments when you wished it were possible to save a recorded event on DVD for archiving in a quick and easy way. In actual fact, Topfield receivers save the transport stream they receive via satellite, cable or digital terrestrial TV without any changes or reformatting.

Depending on the actual receiver model in Topfield's comprehensive product range the individual stages you have to go through for creating a DVD differ slightly.

What is the same for all models is step 1: transferring the recorded event from the receiver's internal hard disk to the PC. Topfield provides three procedures to accomplish that task:

- data transfer between receiver and PC using a USB 2.0 connection
- data transfer between receiver and PC using a LAN or WLAN connection
- direct access from the PC to contents stored by the receiver on a hard disk

Direct access from the PC is supported for all receiver types that do not come with a built-in hard disk, such as the TF7700HSCI. Thanks to USB 2.0 these boxes are able to record events on an external hard disk and whenever you need to transfer files all you are required to do is unplug the external hard disk from the receiver and connect it to the PC. MS Windows Explorer will recognise

it as a removable disk drive after a few moments and then you're all set for copying files to the local disk.

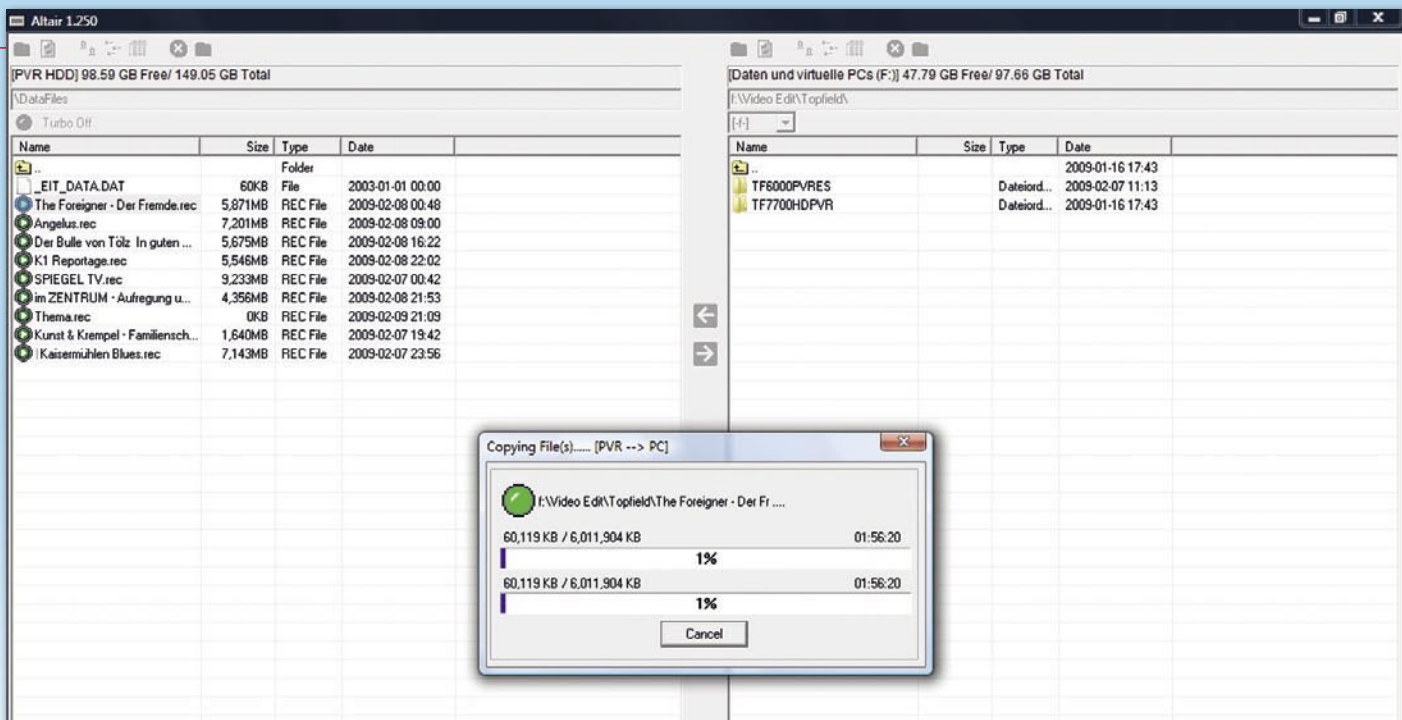
Data access via LAN or WLAN has also turned out to be a very convenient solution and that is why Topfield has equipped a number of its premium products with LAN or WLAN connectivity. The current top-of-the-range receivers TF7700HDPVR or TF6000PVR, for example, offer this feature.

Luckily, Topfield has not only looked at the hardware aspects but also made sure the software includes functions such as DHCP so that a network connection between the receiver and the PC can easily be set up. Cat-5 cables are needed for a physical connection, in cases where the two devices are linked directly you have to go for a crossover cable, while a straight-through cable must be used if a router or Internet gateway provides access to the network.

Without exception, Topfield receivers with network connectivity come with both a web and an FTP server. This allows







users to establish a connection from the PC to the receiver from any conventional Internet browser or FTP tool and to initiate data transfers using one of these two methods. We should also mention at this point that the integrated web server has many more features in store, such as creating timer entries for recordings over

the network, editing or deleting existing timer entries or deleting or transferring existing recordings to the PC. Of course, status information about the receiver can also be retrieved at any time.

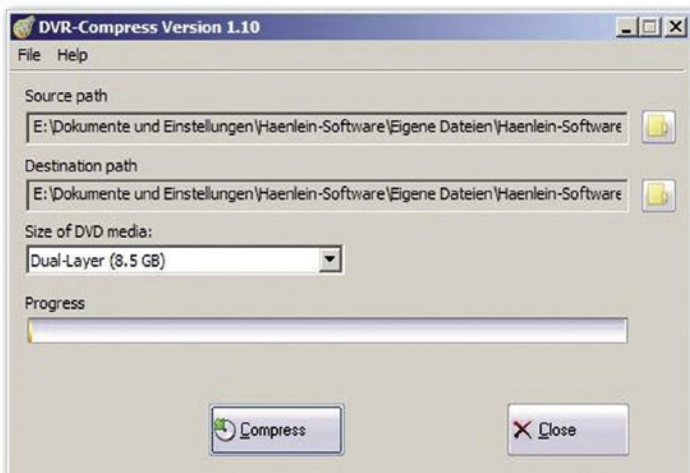
All this is not only available in the local network, but also via the Internet, if required. This means you are able to check right from your hotel room whether your Topfield receiver at home has recorded all events you had set in the timer. Or if you find out a blockbuster movie is on TV that night you can easily create a timer entry so that the receiver will record it even while you are away.

#### Transferring a recording from the receiver to the PC

To make sure only you or persons authorised by you are able to do this you can of course restrict access by way of setting a user name and password.

The third option of transferring recordings from the receiver to the PC is using the USB 2.0 interface. Currently this is also the fastest and easiest option, even though it is restricted to a local set up and does not support any additional features such as timer management.

A standard USB 2.0 cable can be used to connect the receiver to the PC, but please make sure the length of the cable does not exceed three metres unless



**DVR Compress for reducing the file size of recordings that are too large**



# TOPFIELD®



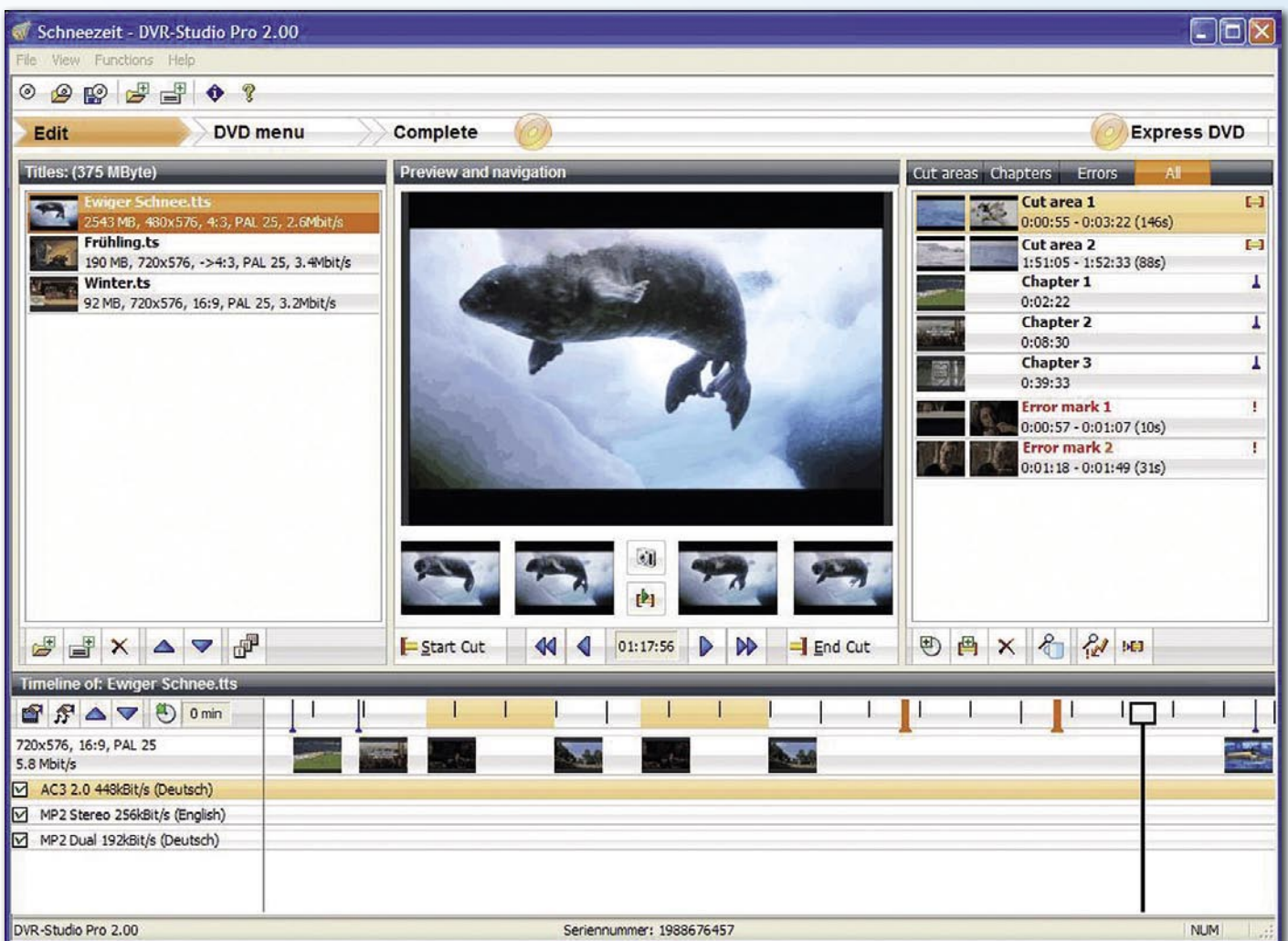
DVR Studio HD creates DVDs or Blu-ray discs from HD material

the signal is amplified. As soon as the connection is established for the first time Windows will ask for corresponding drivers to allow direct communication between the two devices.

Topfield provides these drivers for all 32-bit Windows operating systems including Vista for download from its website. Mac users currently have to use a Windows emulation on their computers

to make use of this connection set-up as there is no native Mac driver available at the moment, unfortunately.

Once all required drivers are installed



DVR Studio Pro 2 takes care of every step from de-multiplexing to burning

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### FS-9000HD

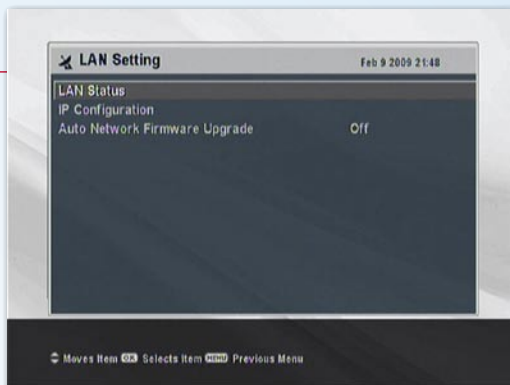
MPEG4 - HD,SD / H.264 / DVB-S2 Twin Tuner  
Micro SD slot for external memory  
Supporting DivX file play back



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# FORTIS



Network menu of the TF6000PVRE



Network status displaying assigned IP addresses



DHCP for automatic retrieval for required settings



Manual IP assignment



Software update via satellite

and ready the Windows device manager pops up and can be used for direct access to the receiver's internal hard disk.

Contrary to a network connection, the USB mode makes use of a specific software tool called Altair for data transfer. Altair is available free of charge for download from Topfield's website [www.i-topfield.com](http://www.i-topfield.com).

Alistair works similar to an FTP client and features two windows, with one window showing the contents of the receiver's hard disk and the second window a freely selectable directory on the PC. With simple drag & drop you can now move recordings from one hard disk to the other.

As this transfer works both ways it is also perfectly possible to move MP3s or TAP applications from the PC to the receiver as well. Alistair can be used in two different modes: The slower standard mode is recommended whenever the receiver needs to remain fully functional during transfers, e.g. for watching TV or recording an event.

The turbo mode dramatically increases the transfer rate, but blocks the receiver for any user-initiated operations. Pre-programmed recordings will also not start in turbo mode.

If you're still looking for increasing the transfer rate even further you may want to download a so-called download accelerator TAP ([http://de.geocities.com/deadbeef55/download/UsbAcceleratorV1\\_0.zip](http://de.geocities.com/deadbeef55/download/UsbAcceleratorV1_0.zip)) from the Internet.

TAPs are small software tools created by resourceful amateur developers within the framework of Topfield-specified guidelines. Please have a look at the corresponding report in TELE-satellite 10-11/2008 for more information about TAPs.

Thanks to loading the accelerator tap and exchanging a DLL file in the Altair directory the transfer rate goes up even further because checksum verification (which is not necessary anyway) is deactivated.

The following comparison clearly shows how the transfer rate changes:

- turbo mode without accelerator TAP: approx. 2.2 MB/s.
- turbo mode with accelerator TAP: approx. 3.37 MB/s.

This means the TAP can boost transfer rates by about 50 percent!

## Editing recordings on the PC

So now that all desired recordings have made it to the PC the next step is converting them into a DVD-compatible format. After all, the raw data transmitted from the satellite is of no use for DVD burning applications.

Again, a number of different ways lead to the same goal, with some solutions being available free of charge, others costing real money. We would like to draw your attention to the DVR Studio software offered by Haenlein ([www.haenlein-software.de](http://www.haenlein-software.de)). DVR Studio currently comes in three distinct versions:

- DVR Studio
- DVR Studio Pro 2
- DVR Studio HD

DVR Studio is the least expensive of the three and at the same time at the heart of the two other versions as well. DVR Studio is capable of processing recorded events from 295 receivers and 122 PC cards supplied by a total of 119 different manufacturers.

The application is a combination of demultiplexer to split up the raw satellite data into video and audio tracks, and editor to cut out unwanted commercial breaks or entire sequences. DVR Studio starts out with dividing the recorded transport stream into individual video and audio sections and moves these sections together again with perfect precision to create a DVD-recordable file. Even several different audio tracks can be recorded. The final file created by the software can then be burnt onto DVD by any standard burning software.

If you choose to go for the slightly more expensive DVR Studio Pro 2 version you don't even need separate burning software as the Pro version takes care of every step right down to creating DVD menus and burning the file onto DVD.

As the name implies, DVR Studio HD has all the features of the Pro version with added HD capability. It is the perfect match for the Topfield TF7700HDPVR as it can be used to also burn HD content on DVD or Blu-ray disc.

We should also mention the DVR Compress software at this stage. It com-



# ANGA Cable

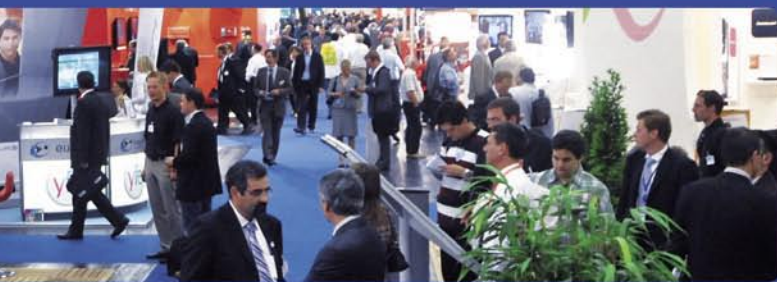
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[www.angacable.com](http://www.angacable.com)



Software update via PC using a USB or serial connection

presses recordings in way that allows you to use a single disc when the sheer file size otherwise would not fit into a single DVD.

## Editing the channel list

Thanks to flawless implementation of DiSEqC 1.2 and 1.3 (USALS) Topfield receivers are not only able to receive

signals of a single satellite, but virtually thousands of channels from several orbital positions.

This implies that the channel memory will sooner or later be at capacity and also that it simply isn't fun looking for a specific channel in a list that ultimately can hold 5000 entries.

A range of easy-to-use editing, sorting and changing options are available right through the receiver's on-screen menu, but with the huge number of channels at hand most users run out of patience pretty soon.

Luckily, there is an alternative. It's called Vega and is a PC tool that is compatible with all Topfield receivers and which makes organising the channel, favourites, satellite and transponder lists so much easier because you can do it all on the PC. The application is available for download from [www.i-topfield.com](http://www.i-topfield.com).

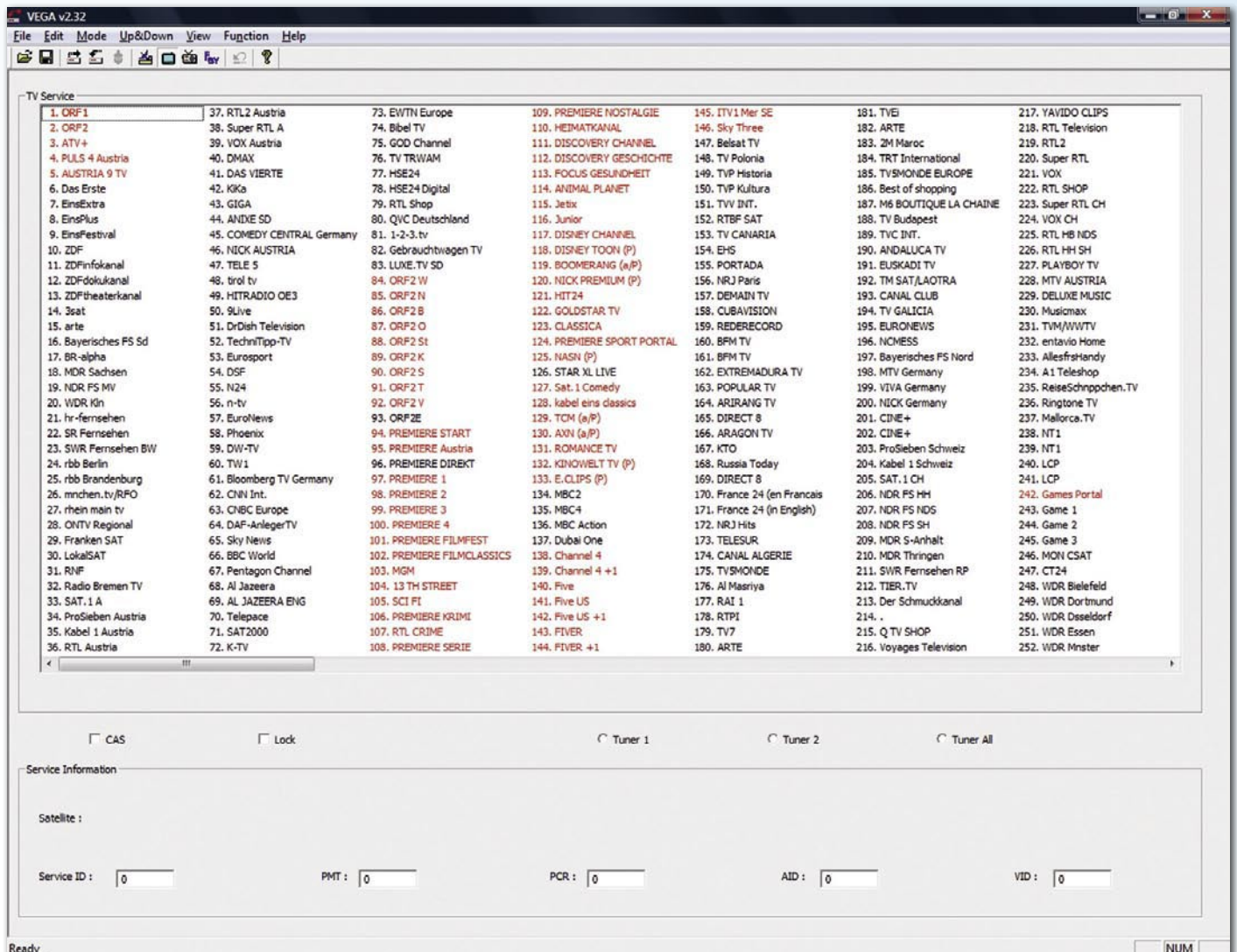
In a first step you need to make sure

all data are transferred to the PC, which takes place either via a USB 2.0 connection or a serial connection. While a standard USB 2.0 cable is required for the USB set-up, you need a 9-pin null modem cable to establish a working serial connection.

For security reasons Topfield receivers allow reading and writing the channel list only before the operating system has loaded, and this means you need to activate the download mode in the Vega application first and then reboot the receiver for data transfer to be initiated.

As soon as all data is available on the PC you can go about editing, sorting, deleting, locking or renaming entries in the channel, favourites, satellite or transponder lists. You will soon come to appreciate the fact that several entries can be moved, deleted or PIN-locked at once.

At the same time, DiSEqC settings or transponder details can be adjusted with



Vega channel list editor



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only a few mouse clicks. The only think Vega does not support, unfortunately, is directly loading satellite from www.Sat-coDX.com.

## Software update

Topfield goes to great lengths to continuously expand the feature list of its products and to improve the reliability and stability all the time. This is why the firmware and operating software of Topfield receivers can be updated as the need arises.

European users can update their boxes over-the-air via ASTRA 19.2° East or HOTBIRD 13° East or they can choose to manually load new software onto the device.

Topfield regularly releases new versions of the operating system on its Internet platform at www.i-topfield.com for free download. Users simply need

to download the corresponding file and transfer it to the receiver via a USB 2.0 or serial connection using the TFDN-USB application that is also available from Topfield. The procedure is exactly the same as for uploading edited channels lists.

The top-of-the-range TF7700HDPVR as well as all other receivers with an integrated network interface even allow updating the software directly via the Internet. A gateway or router has to be installed to that end, so that it is possible to provide a connection to the Internet for the receiver.

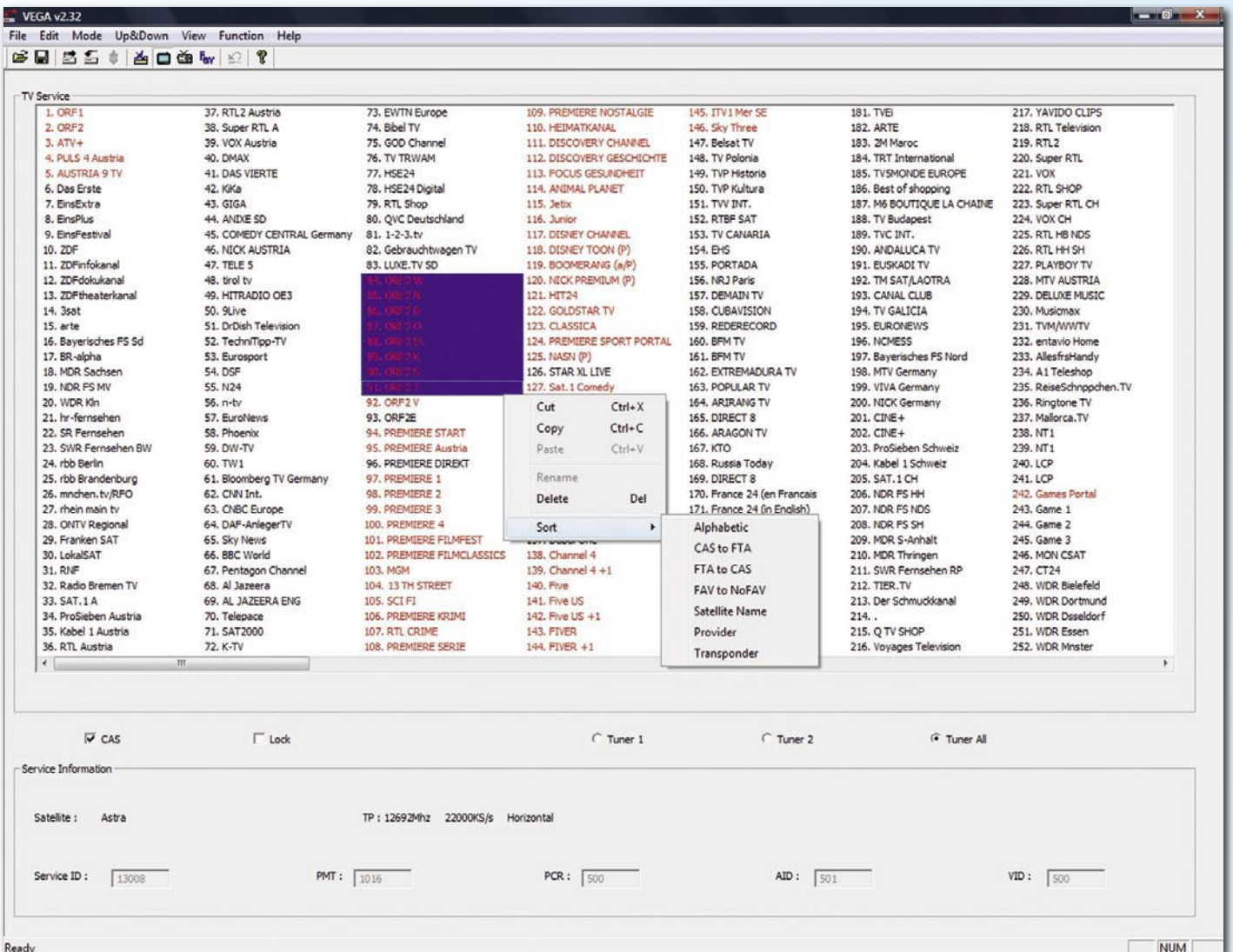
In such a configuration the Topfield TF7700HDPVT, for example, can automatically obtain all information (like standard gateway or DNS server) thanks to DHCP. Alternatively, all settings can also be entered manually. As soon as a connection to the Internet can be established the receiver connects to the Top-

field server and checks whether new updates have been released.

If this is the case the update is loaded and installed without the user having to do a thing. A simple re-start of the box is all that's required before the new software is operational. While an over-the-air update via satellite is equally user-friendly, this new technology is much faster and also provides regular updates for users whose antenna does not point to either ASTRA or HOTBIRD.

In conclusion, it is safe to state that Topfield clearly works with its users in mind. Thanks to innovative solutions it successfully invests in customer satisfaction and raises eyebrows again and again with its advanced technology.

In addition, Topfield makes available a whole range of useful free software that further expanda the different uses of its satellite receivers.



Various sorting modes of Vega



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# AB IPBox 910HD

1080i



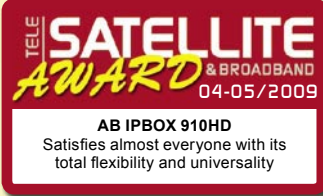
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# AB IPBox 910HD

## يظهر مدى قوة جهاز الريسيفر المسجل الذي يعمل بلغة Linux



إن التقدم في صناعة أجهزة الريسيفر تتم بطريقة بسيطة و مدهشة ! و إذا تذكرت السنوات العديدة الماضية عندما كنا نتقدم بصعوبة من أجهزة الريسيفر التماثلية ، و الآن لا يعطينا جهاز الريسيفر صورة جيدة فقط بل و أيضا يشغل ملفات الموسيقى و الفيديو و يرسل البريد الإلكتروني و يوجد به ألعاب ، إن الحاجز بين جهاز الكمبيوتر و الريسيفر قد تلاشى مما أعطى إمكانيات عالية يستفيد منها المستخدم المتقدم .

، و كلى نوعية ضغط الصورة MPEG-2 و MPEG-4 ، و الجديد هو إمكانية استقبال الإرسال الرقمي الأرضي -DVB-T عن طريق تغيير التيونر

إن الموديل الجديد احتفظ بجميع مزايا الريسيفر السابق ، استقبال الإرسال الرقمي العادي و الفائق ، بکلى نزم الإرسال الرقمي DVB-S و DVB-S2

910HD و هو الريسيفر القريب إلى الموديل السابق 900HD ، الذي أجرينا عليه تقرير اختبار في مجلة تيلي ستلايت في العدد ( 08-09/2008 ) .

إن أجهزة الريسيفر من شركة ABCom أجهزة قوية تعمل على لغة التشغيل Linux و التي تساعد على تحقيق تلك الإمكانيات ، و الآن تقوم الشركة بالتطوير المستمر للأجهزة الإلكترونية و البرامج التشغيلية و نسعد عندما رأينا أن بعض النواقص في الأجهزة القديمة قد تم إصلاحها و تلافيتها في الأجهزة الحديثة و الآن لدينا الفرصة لاختبار الريسيفر الجديد AB IPBox

# ab-com



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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0905/tur/abipbox.pdf

Available online starting from 27 March 2009

إدخال الكود الخاص بها و تجد هذه الاكواد في آخر صفحة من الكتيب التشغيلي ، و على الرغم من أن وحدة التحكم عن بعد مليئة بالأزرار إلا أنها مرتبة ترتيبا منطقيا ، و تتعود على استخدامها بسرعة .

## الضبط الأولي

يبدو أن البرنامج التشغيلي الرسمي لشركة ABCOM لم يتغير كثيرا على أقل المرحلة الأولى عند بداية ضبط الريسيفر حيث تظهر شاشة مساعدة لاختيار لغة عرض القوائم من بين : الإنجليزية ، الروسية ، الفرنسية ، الإيطالية ، الهولندية ، الألمانية ، الدانمركية ، التشيكية ، السلوفاكية ، المجرية ، النرويجية ، البولندية ، البرتغالية ، الأسبانية ، السويدية ، اليونانية ، التركية ، الكورية ، الكرواتية ، البوسنية ، الصربية ، البلغارية ، الرومانية و الفنلندية ، كما يمكن اختيار الصوت الفرعي المصاحب ، و الترجمة الفورية و قناة المعلومات ، و يمكن إدخال التوقيت أتماتيكا أو يدويا و ضبط التوقيت الصيفي .

يستخدم فقط في حالة الاحتياج إلى التسجيل على قرص صلب خارجي .

و بجوار ذلك يوجد مفتاح طاقة رئيسي و مروحة تهوية لحماية الأجزاء الإلكترونية من الحرارة الزائدة ، و هي في الحقيقة إضافة ذكية ، و بعض الأشخاص رقيق الإحساس قد يجدون أن صوت مروحة التبريد مرتفع قليلا و لكن لا توجد مشكلة فيمكن الذهاب إلى أي متجر لبيع أجهزة الكمبيوتر و استبدال المروحة بأخرى تكون هادئة .

و وحدة التحكم عن بعد هي نفس النسخة من الموديل السابق و لقد اربكنا ذلك وحدة التحكم عن بعد تستخدم نفس إشارات التحكم للموديلين و عموما فان وحدة التحكم عن بعد التي تتحكم في موديل 900HD/910HD يمكن برمجتها أيضا للتحكم في الموديلات السابقة IPBox ، و يمكن برمجة وحدة التحكم عن بعد في التحكم بجهاز التلفزيون أيضا و يمكن اختيار المناء من أنواع التلفزيون عن طريق

حالة استخدام تيونر DVB-S كما هو الحال في الريسيفر الذي نختبره ففي الجانب الأيسر سوف تجد مدخل إشارات وحدة خفض الشوشرة و مخرج تمرير لها ، كما يوجد منفذ USB و منفذ توالي RS-232 و موصل شبكة و مخرج HDMI و مخرج صوت رقمي S/PDIF و مخارج صوت و صورة Y/Pb/Pr التي تعطي صوت و صورة نقية ، بالإضافة إلى موصل سكارث و ثلاثة مخارج RCA ، و للاستفادة من استقبال القنوات الفائقة التفاصيل يوجد منفذ E-SATA و مصدر طاقة لعمل اقراص الخارجي كما يمكن للريسيفر 910HD أن يركب بداخله قرص صلب و هذا المنفذ

في دقائق و أيضا يمكن تغيير تيونر لاستقبال قنوات الكابل DVB-C .

من بعيد لا يمكنك أن ترى أي فرق بين الموديل القديم و الموديل الحديث ، و سبب الاحتفاظ بالشكل الخارجية هو إن اللوحة الأمامية للموديل الباسق كانت أنيقة و بجانب وجود عدد 2 فتحة الإدخال الكامات مخبئة وراء غطاء مغناطيسي و شاشة عرض مضيئة لامعة سهولة القراءة ، مع وجود عدد 8 أزرار تسمح لك بالتحكم الكامل بجميع وظائف الريسيفر .

و اللوحة الخلفية ظلت جيدة و لكن هناك إضافة جديدة ، ففي





Satellite Configuration |



Setting USALS positioner |

صغير ف خلف القناة الرئيسية ،  
و يمكن التنقل بينهم .

كما يوجد وضعين لعرض دليل  
البرامج الإلكتروني ، وبالضغط  
مرة واحدة على زر EPG تظهر  
لك قائمة بالأحداث التي سوف  
تعرض على القناة الحالية و  
بالضغط على نفس الزر للمرة  
الثانية يظهر لك دليل برامج  
إلكتروني كامل بجميع القنوات  
المجاورة طالما أن مقدم الخدمة  
الفضائية لهذه القنوات يوفر هذه  
المعلومات مع البث ، و بالضغط  
مرة واحدة على الرز ذو الدائرة  
الحمراء من وحدة التحكم عن بعد  
يمكنك إجراء عملية التسجيل من  
دليل البرامج الإلكتروني مباشرة .

و هنا تظهر مدى قوة الريسيفر  
موديل 910HD الذي يسمح  
لك أيضا بتوصيل قرص صلب  
خارجي إلى منفذ USB أو منفذ  
E-SATA ، و الريسيفر الذي

القنوات في الموديل 910HD فلن  
يجعل هواة التنقل السريع بين  
القنوات سعداء ، و لكن زمن 1  
ثانية للتنقل بين كل قناة و أخرى  
تعتبر جيدة بالنسبة للمستخدم  
العادي ، و يمكن أن يكون هذا  
الزمن أسرع عند التنقل بين  
قناتين في نفس الباقة ، و يزداد  
الزمن عند التنقل بين DVB-  
S و DVB-S2 و أيضا بين  
الإرسال الرقمي العادي و الفائق  
التفاصيل ، و لكنك تكون على  
يقين انه لا توجد قناة بعيدة عن  
إمكانية مشاهدتها ، كما يمكن  
مشاهدة قناة Calabria على  
القمر HELLAS SAT 2 بتردد  
1425 فمع استخدام يمكنك  
فحص الصورة و الصوت هل هي  
جيدة كما وعدت شركة البث .

و يمكن استخدام مشاهدة صور  
داخل صورة ، فيمن عرض قناتين  
في نفس الباقة في نفس الوقت  
داخل إطارين متساويين ، و يكن  
مشاهدة القناة الأخرى في إطار

انه جهاز ريسيفر في نهاية  
الأمر و قبل أن نبدأ التمتع بلفة  
التشغيل Linux و Telnet  
و FTP دعنا نستخدم وحدة  
التحكم عن بعد و نستقبل  
القنوات الرقمية .

## الاستخدام اليومي

إن قائمة القنوات مطابقة  
لقائمة القنوات في الموديل  
900HD ، فجميع الوظائف  
المفيدة موجودة و هناك العديد  
من خيارات التصنيف حيث يمكن  
ترتيب القنوات هجائيا ، القنوات  
المجانية / القنوات المشفرة أو  
التصنيف طبقا للقمر الصناعي  
أو مقدم الخدمة الفضائية ، و عند  
الضغط على الزر باللون الأصفر  
يتم تفعيل وظيفة "jump" وهي  
وظيفة هامة فإذا كان لديك الآلاف  
من القنوات مصنفة من نظام  
الاستقبال المتعدد كمثال فإذا  
اخترت ترتيب هجائي فإذا أردت  
أن ترتب هذه القنوات فلا تنسى  
زر FAV الذي يسمح لك بسرعة  
الدخول على القنوات المفضلة  
، و القوائم المفضلة مقسمة إلى  
خمسة مجموعات ، مجموعة  
القنوات الرياضية ، الدراما ،  
الأخبار ، الأفلام و الموسيقى ، و  
عند الضغط على زر "i" ، فانه  
يسمح لك بإلغاء أو إعادة تسمية  
أو تحريك أو ضبط أو حجب أي  
من القنوات .

و عند الضغط على زر "i"  
عند فتح قائمة القنوات تظهر  
لك خيارات ضبط مشابه و هناك  
إضافة جيدة مثل ضبط مستوى  
الصوت الافتراضي لكل قناة و  
هذا حل جيد للمشكلة القديمة هو  
عندما تنتقل بين قناة و أخرى تجد  
أن صوت بعض القنوات مرتفع  
جدا ، قم ببساطة بضبط مستوى  
الصوت لكل قناة و انتهى كل شيء  
! و لن يشتكى أحد بعد الآن من  
صوت التلفزيون المرتفع ! .

و عند التحدث عن التنقل بين

و الخطوة التالية إذا كان الهوائي  
مثبت قم بالضغط على الزر  
باللون الأحمر و إضافة الأرقام  
الصناعية خطوة بخطوة و يمكن  
اختيار معدلات المذبذب المحلى  
يدويا من نفس القائمة ، و يدعم  
الريسيفر جميع وظائف DiSEqC  
الإصدارات (1.0, 1.1, 1.2  
و 1.3) ، مما يجعل الريسيفر  
AB IPBox 910HD في قلب  
أجهزة الريسيفر و عند الانتهاء من  
اختيار جميع الأرقام الصناعية ق  
بالضغط على زر Exit للرجوع  
إلى شاشة المساعدة .

و عند الضغط على الزر باللون  
الأصفر فإن الخطوة التالية تأخذك  
مباشرة إلى البحث عن القنوات ،  
و منها اختيار البحث الأتوماتيكي  
أو اليدوي ، و الأول يقوم ببساطة  
في البحث عن القنوات الشبكية  
بينما الآخر يسمح لك بإدخال  
الترددات يدويا .

إن عملية البحث الأتوماتيكي  
أو اليدوي لا تتم بسرعة شومأخر  
و لكنها سريعة بما فيها الكفاية  
حيث يستغرق الريسيفر عدد  
9 دقائق للبحث في 105 ناقل  
للباقات و القنوات و بالنسبة لهؤلاء  
المستخدمين الذين لا يفضلون  
إمضاء هذا الوقت الطويل فتوجد  
وظيفة "التحميل السريع" و التي  
من خلالها يتم تحميل قائمة قنوات  
مبرمجة بمرجة مسبقة داخل ذاكرة  
الريسيفر ، فإذا كنت تريد مشاهدة  
جميع القنوات فيجب عليك الصبر  
قليلا .

و يمكن أن تجد جميع الوظائف  
في القائمة الرئيسية بطريقة منطقية  
، و إذا كان هناك شيء آخر تريد  
ضبطه مثل اختيار عرض الصورة  
و استخدام صوت Dolby و استخدام  
مخارج و Scart و HDMI مخرج  
الصوت الرقي S/PDIF ، و أيضا  
يمكن ضبط الريسيفر للتوصيل  
بشبكة الإنترنت و القرص الصلب و  
عمل إعادة تشغيل الريسيفر لحالة  
المصنع ، و أيضا يوجد مشغل  
فيديو DivX .



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و حيث لا يمكن قول كلمة سيئة في هذا ، فان مشغل الفيديو لملفات DivX لا زال يحتاج إلي بعض العمل ، ففي الاختبار تم تشغيل فيلم اختبار على جهاز الكمبيوتر بلا مشاكل و لكن الريسيفر موديل 910HD لم يتمكن من ضبط الصوت مع الصورة حيث أن الصورة كانت بعد الصوت بحوالي ثانية أو ثانيتين ، و سوف يتم تصليح عدم تزامن الصوت و الصورة في التحديث القادم .

اللف و عرض ما تم تسجيله و لا تحتاج إلى خبرة عالية في ذلك فقط ضغطة أو اثنتين و هذا كل شيء .

## خيارات الوسائط المتعددة

و حيث أن البرنامج التشغيلي للريسيفر 900HD/910HD يتم تطويره باستمرار فان كلى الجهازين لديهم القدرة على عرض و تشغيل ملفات الفيديو و الصوت ، و أيضا إظهار الصور المسجلة على القرص الصلب الخارجي أو الفلاشة أو على القرص الصلب الداخلي في موديل 910HD ، و يمكنك نقل الملفات عبر سيرفر FTP عن طريق ضبط IP من قائمة ضبط IP و استخدام الدليل الفرعي و كتابة اسم المستخدم و كلمة المرور ipbox في دليل الوسائط .

و يوجد أيضا في قائمة الوسائط

واحدة ، كما توجد وظيفة ترحيل الوقت الرائعة و التي يمكن تفعيلها في الضبط المتقدم من قائمة ضبط القرص الصلب ، و يمكنك وقف عرض البرنامج المباشر و عند الانتهاء من المقاطعة يمكنك متابعة مشاهدة ما تم من برنامج من حيث النقطة التي توقفت عندها ، و من السهل أيضا إعادة

قمنا باختباره كان مزودا بقرص صلب سعة 500 ميجابايت و هو كبير الحجم بما فيه الكفاية للتسجيل و أيضا تخزين أفلام DivX و ملفات الموسيقى MP3 ، و عندما كنا نركز في وظائف التسجيل لاحظنا زر مرسوم عليه ظرف و الذي يسمح بالدخول على محتويات ما تم تسجيله بضغطة





## تحديث البرنامج التشغيلي

إضافة العديد من البرامج الأخرى و تحويل الريسيفر إلى شئ آخر جديد عن طريق تثبيت برنامج تشغيلي بديل .

إن شركة تعمل باستمرار في تطوير أجهزة الريسيفر مما يثبت أن الموديل 910HD هو اختيار مستقبلي .

موجودة و يمكن للريسيفر استقبال القنوات الرقمية العادية و الفائقة التفاصيل بنظام MPEG-2 و MPEG-4 ، و يمكنك أيضا عمل نسخة من فيلمك المفضل و ملفات الموسيقى و الصور على القرص الصلب الموجود بالريسيفر ، و يمكن أيضا تشغيل الألعاب أو فحص حالة الطقس ، و سهولة

التحديث عبر الإنترنت و حصلنا على إصدار جديد للبرنامج التشغيلي و قمنا أيضا بتحديث الريسيفر عن طريق منفذ USB من ناحية الأجزاء الإلكترونية للموديل فلم يترك لنا أي شئ نرغبه ، فجميع الموصلات

إن جهاز قوى و عالمي بمثل هذا الشكل يجب أن يظل البرنامج التشغيلي محدثا فان شركة ABCom تقوم بتبسيط هذا الأمر عن طريق تحميل البرنامج التشغيلي و تثبيته عن طريق الريسيفر نفسه بدون تدخل أي جهاز آخر و لكن للأسف فان هناك شئ ما خطأ ، إن الريسيفر الذي وصل إلينا لاختباره كان إصدار البرنامج التشغيلي له رقم 8340 بينما طبقا للمعلومات المتاحة في موقع الشركة المنتجة إن البرنامج التشغيلي الحالي هو رقم 8360 ، و عندها ذهبنا إلي قائمة الصبب المتقدم و قمنا بالدخول إلى قائمة



# ab-com



## تعليق الخبراء

+

هذا الريسيفر سوف يرضى أي شخص يستخدمه حيث يمكن تغيير الاستقبال لأنواع مختلفة ، والريسيفر سهل التركيب والضبط ولا توجد مشكلة للتعامل معه حتى بالنسبة للأطفال . كما يوجد برنامج تشغيلي بديل للهواة ، سهولة استقبال الإرسال الرقمي العادي والفائق التفاصيل وسهولة تغيير التيونر لاستقبال القنوات الرقمية الأرضية وقنوات الكابل .



Nickolas Ovsyadovsky  
TELE-satellite  
Test Center  
Hungary

إمكانية تركيب قرص صلب داخلي وأيضا توصيل قرص صلب خارجي . ريسيفر يشغل الوسائط المتعددة وهو ريسيفر متعدد الاستقبال للإرسال الرقمي الفضائي والأرضي والكابل ويمكن الاستماع إلى الموسيقى ومشاهدة الأفلام المسجلة واستعراض الصور .

زمن الانتقال بين القنوات كان يمكن أن يكون أفضل من ذلك يجب تصحيح تزامن الصوت والصورة عند تشغيل ملفات الفيديو من نوع DivX . يجب تغيير مروحة التبريد الخلفية بأخرى أكثر هدوء .



Channel List |



PIP mode with sub-channel selection |

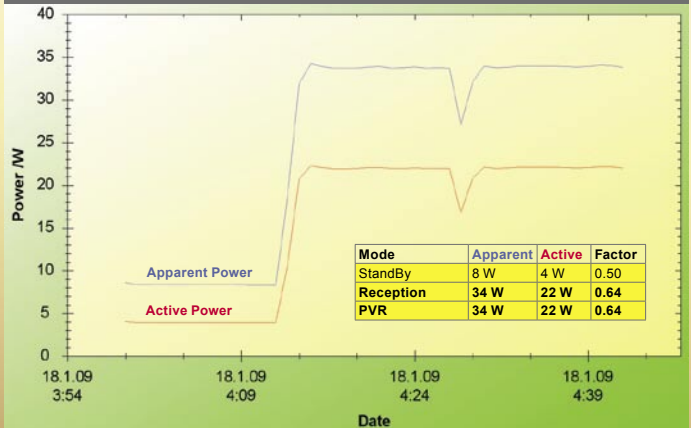
## TECHNIC DATA

Manufacturer	AB-COM s.r.o., Gogolova 1, 955 01 Topolcany, Slovakia
Tel	+421-38-5362611
Fax	+421-38-5322027
Internet	www.abipbox.com
Email	info@abcom.sk
Model	IPBox 910HD
Function	Digital Linux-based HDTV PVR receiver for DVB-S, DVB-S2, DVB-C and DVB-T reception
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
A/V output	3 x RCA
YUV output	3 x RCA
UHF output	no
S-Video output	no
0/12 volt connection	no
Dig. Audio connection	yes
Ethernet port	yes
USB 2.0 port	yes
RS-232 interface	yes
EPG	yes
C/Ku band compatible	yes
Power Supply	110-245 VAC, 50/60 Hz
Dimension	300x60x240 mm



SCPC reception with SR of just 1425 |

## ENERGY DIAGRAM



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

Sea Tel... new look, new products, and a strong commitment to keep you connected at sea.



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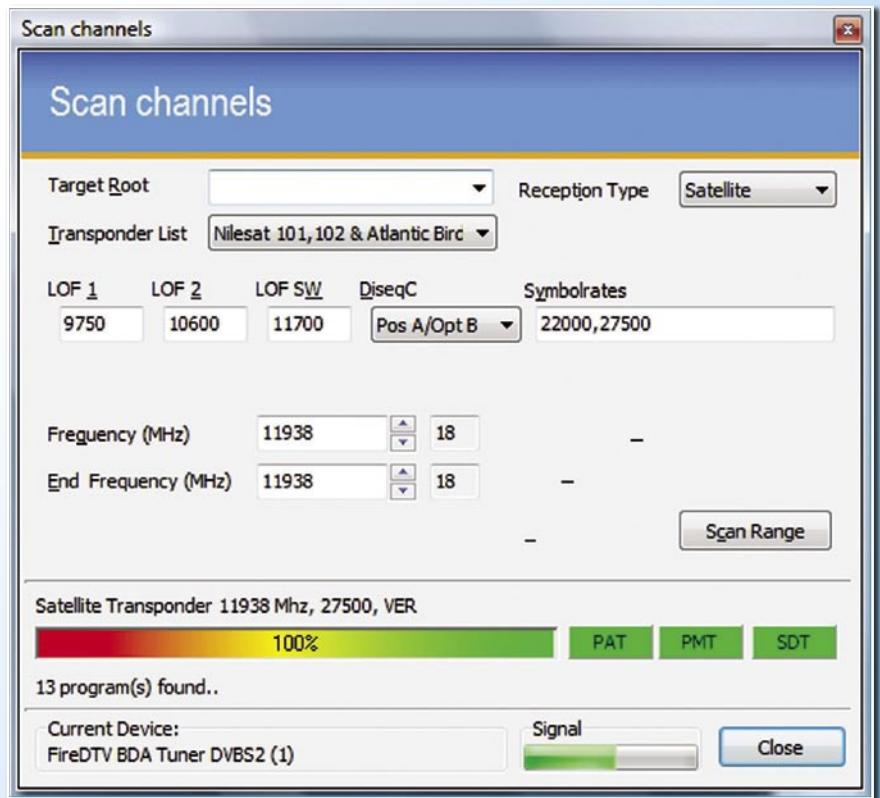


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[www.cobham.com/seatel](http://www.cobham.com/seatel)

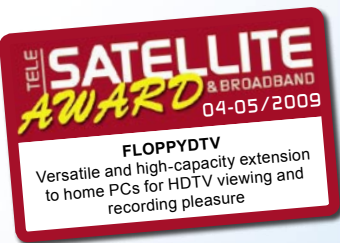
# FloppyDTV Perfect DVB-S/2 Solution for the PC

PC in a fast and hassle-free way? And if you consider that most PCs are connected to high-resolution LCD monitors while the TV sets in living rooms still have a long way to go before being 100% flat screen it comes as no surprise that DVBSshop decided to add the FloppyDTV card/

Most up-to-date HDTV satellite receivers come with Ethernet or USB 2.0 interfaces that allow transferring recorded events to a PC for post-editing and storing recordings on a portable storage medium (DVD etc.). However, most of these receivers regard satellite reception as their prime business and thus do not put much effort into making interfaces very fast.



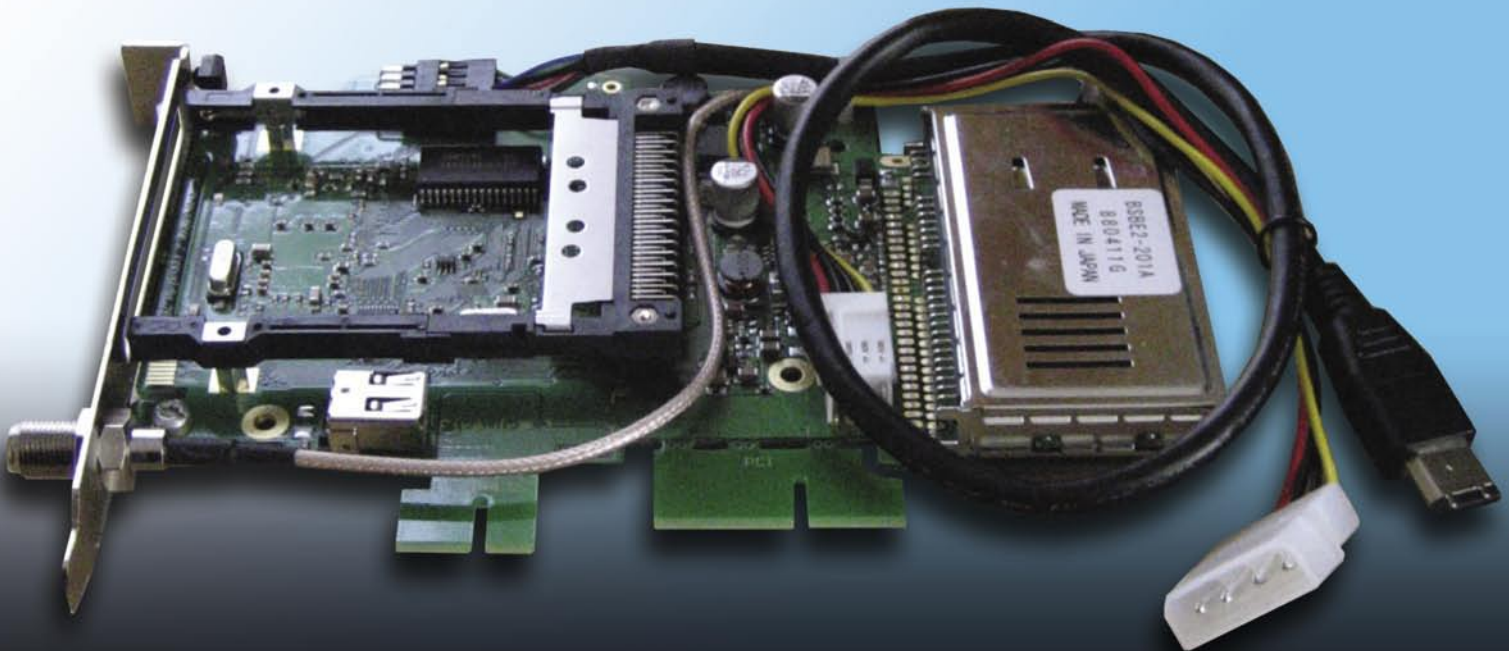
Transponder scan on NILESAT 7° West |



Have you ever looked at the size a movie-length HDTV recording requires on the integrated hard disk of a satellite receiver? You might

be surprised to find out that 10 GB is about the norm. So wouldn't it be convenient if recorded TV or radio events could be transferred to the

FireDTV box to its product range. While all electronic components are fixed onto a single board in both products, data transfer as such



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**satellite**  
Electronic Systems



does not take place via PCI or PCI-e but via FireWire. With this, end users have the added benefit of being able to choose either an internal or external model of this product. The external version is called FireDTV and comes as a small box with all necessary ports being located on one side. The internal version bears the name FloppyDTV and can simply be plugged into an available PCI or PCI-e slot.

What unites both models is their FireWire interface for data transfer. Some readers may ask 'Why FireWire?' at this point. Well, contrary to USB 2.0, FireWire can maintain a specified minimum transfer rate, which is a particular bonus when it comes to high-resolution video. While in theory, USB 2.0 can reach slightly higher transfer rates, most real-world scenarios prove that FireWire has the leading edge.

Apart from that, most modern PC systems these days come with a FireWire interface anyway, and even if you should find out your particular PC doesn't, you can always add a FireWire interface and it won't cost you a fortune.

As it turns out, DVBSHOP made a smart move with focusing on FireWire, even more so as this type of interface has been gaining ground in the home video segment for many years now anyway.

DVBSHOP sent us the internal model for our test – the FloppyDTV. It can easily be slotted into any PCI or PCI-e port and draws its power directly from the PC's internal power supply. All you need to do is connect the supplied power cord to one of the 4-pin power sockets that

are also used to power hard disks, DVD drives and so on.

The outward facing side of the card features the tuner connection as well as – slightly below – a CI slot that can take any standard module for conditional access systems like Irdeto, Seca, Viaccess, Conax, Cryptoworks, Nagravision and so on. The FireWire interface required for data transfer is located directly on the printed circuit board of the FloppyDTV and cannot be accessed from the outside. This means the card needs to be connected to one of the PC's internal FireWire ports. In case such an internal port is not available, the FloppyDTV package includes a second slot sheet that can be used to guide the FireWire cable to the outside and then connect it to one of the regular FireWire ports of the PC. The manufacturer can even supply a suitable adapter kit to install the card into a 3.5 inch hard disk slot, but this device is not included as standard.

DVBSHOP ships three versions of the FloppyDTV card: DVB-S/2, DVB-C and DVB-T. It's a pity that the card is not designed for swapping tuners because the tuner is permanently soldered onto the printed circuit board. A tuner that could easily be changed even by users with only moderate technical skills would provide some wonderful icing on the cake.

## Installation

If you're looking for an impressive demonstration of how Plug&Play is supposed to work you've come to the right place. Simply identify an available PCI or PCI-e slot and insert the card. Indentations for both slot types are provided or you may also choose to simply detach the bracket that is not required to



Channel list sorted according to providers |



Channel list sorted alphabetically |



Channel 4 HD with info bar |

make sure the card firmly sits in place. Usually you will also easily find an unused power connector and be able to connect the card to an internal FireWire port. And that's it!

The manufacturer ships this product with a handy step-by-step installation guide. The minimum system requirements are Pentium IV

1.5 GHz or Athlon XP+ 200 for SDTV and Pentium IV 3.5 GHz or Athlon XP+ 3500 with a DXVA/H.264 compatible graphics board for HDTV. Both the Windows XP and Windows Vista operating systems are supported, the latter with 32bit as well as 64bit.

Apart from the provided FireDTV Viewer you may also

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use the card in combination with the Windows Media Center (only with Windows Vista and Windows MCE 2005). As – unfortunately – the Windows Media Center does not support HDTV with H.264 we decided right at the start to use the in-house software solution provided by the manufacturer.

Installation was completed in a breeze, and we also did not encounter any difficulties installing all required drivers on our test PC which is equipped with Intel Core2Duo 1.8 GHz, 2 GB RAM, Nvidia Geforce graphics board and Windows Vista. A few minutes was all it took to get ready for HDTV on the PC.

## Everyday use

Even at first sight the FireDTV Viewer impresses with its sleek, cleverly laid out and easy to use appearance. The manufacturer went at great lengths to avoid overpowering users with a main screen that is full of buttons, features and adjustment options. Thanks to this strategy even absolute beginners will not be overwhelmed by an endless variety of settings and thus should be able to use the software after only a short while.

The main window displays the selected TV channel in presentation mode (full screen) or any desired size. Only when the mouse cursor is moved to the outer right section of the window does a channel list pop up. This way no valuable space is wasted by a permanent channel list display.

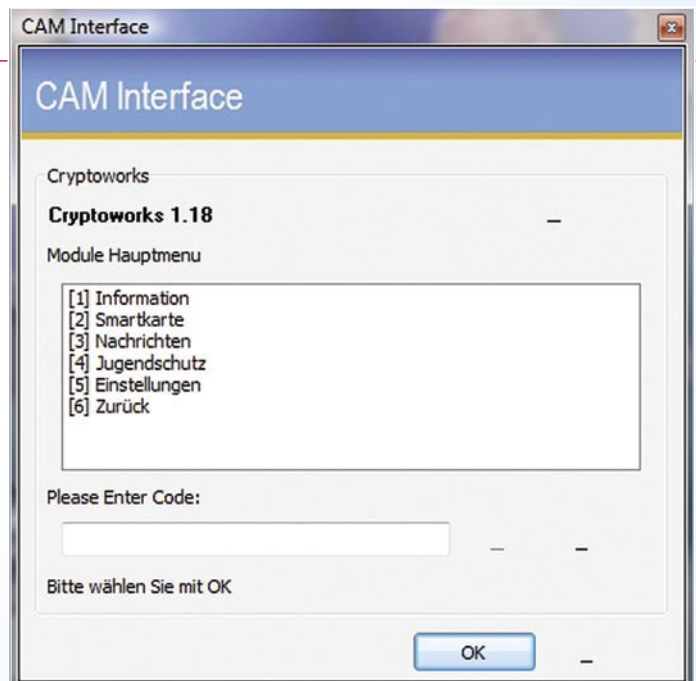
The control bar is located at the lowest end of the FireDTV Viewer and can be used to control the viewer. Altogether it boasts eleven buttons, which are (from

left to right): play/pause, record, timer, previous channel, search, one channel down, one channel up, volume, mute, teletext and EPG. Above the control bar a second bar indicates the current position during playback. It can also be used to move to another position thanks to time shifting during playback and recording. There are no dedicated buttons for fast forward and fast rewind, but thanks to the time shift bar this is no real loss.

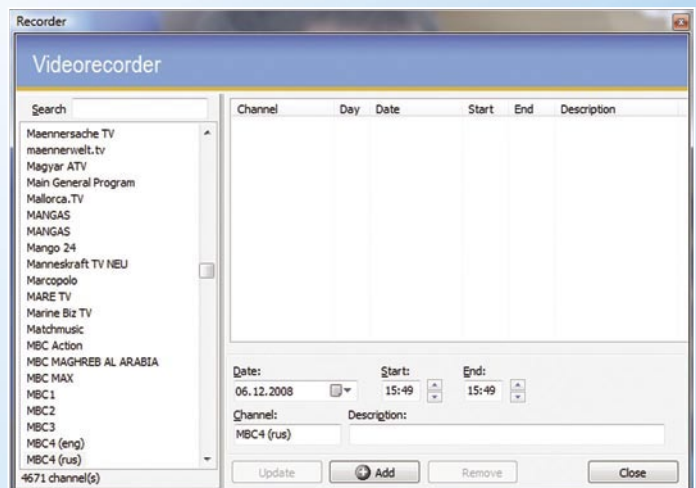
Once the installation process is finished the software is ready to perform its first channel scan. The FireDTV Viewer comes with a pre-stored list of 153 European, Asian and American satellite positions which is quite up-to-date and well sorted. Any required LOF can be used which means that the good old C band is supported just as well as signals from the exotic S band.

DiSEqC 1.0, 1.2 and 1.3 are available if your set-up includes more than one LNB and make the software compatible with small dual-feed antennas as well as motorised dishes. Only those relying on DiSEqC 1.1 (frequently used in combination with multi-focus antennas) are left standing in the rain, as the software currently is unable to work with such systems. In the end, however, the manufacturer would be able to rectify this glitch with a simple software update.

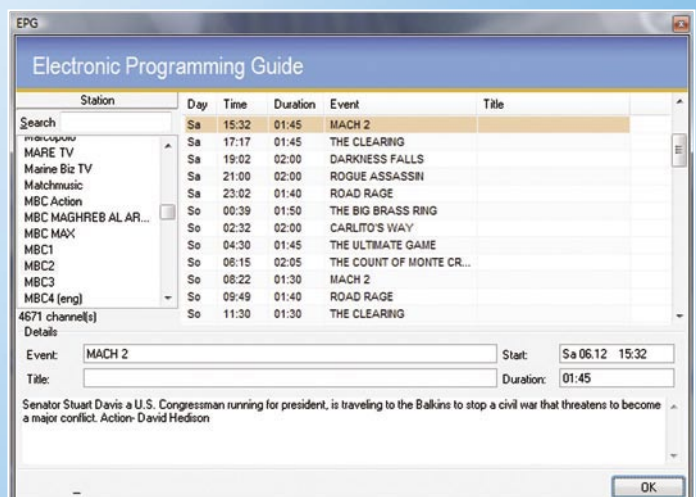
The pre-stored transponder list allows performing a channel scan either across the full frequency range of a satellite or for a restricted range. Alternatively, a single transponder can be chosen for a scan as well. Each scan result is saved separately with an individual time stamp by the software and it is even



CI menu |



PVR timer function |



Extended EPG |

possible to decide whether the result should be added to an existing list or stored separately. In case you don't use a conditional access module it is of course perfectly possible to restrict any search to free-to-air channels only. We tested the software with

HOTBIRD 13° East with its 100+ transponders and were surprised it took only 4:20 minutes to find more than 1500 TV and radio channels, which is quite an achievement.

Now that the channel list is



filled it is worthwhile looking at the settings menu: Here you can choose your favourite OSD language (German, English and Italian are currently available), the directory for recordings and the time shift buffer, you can define whether recordings exceeding a certain size should be divided into several files and select the used hardware components. Even a dedicated codec can be selected manually for each supported output format, unless you decide to let the FireDTV Viewer take care of this by activating the 'auto' mode.

Whenever you tune into a new channel the software displays an info bar in the lower screen area. It shows EPG information relating to the current event if the channel provides this data. Switching channels takes approximately one second, which is fairly impressive for a PC solution.

The channel list that pops up in the right screen area can easily be sorted, edited and adjusted to personal preferences. You can sort and display channels alphabetically, according to providers, frequency or satellite and you can blank out either TV, radio or encrypted channels.

Channels you never watch can be deleted while channels you watch on a regular basis can be moved into a favourites list. Another feature we really appreciated is the search mode which you can use to find even channels that are hidden way down the channel list.

Simply press the EPG button in the status bar to open the cleverly laid out EPG that displays information

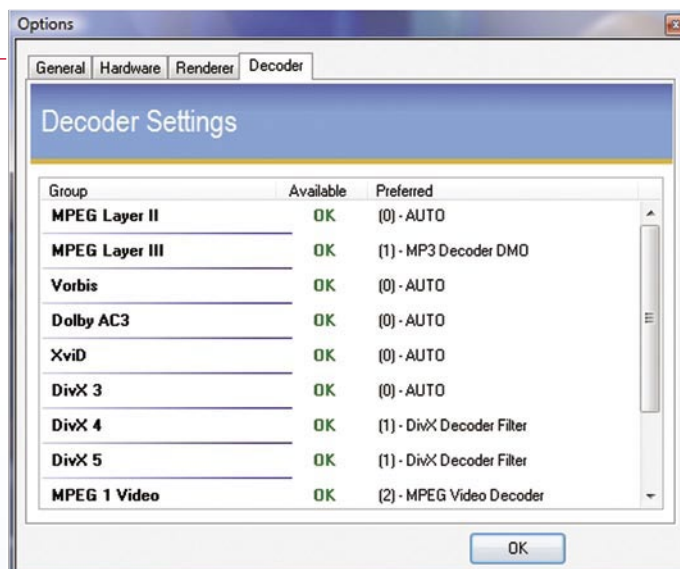
for up to a week in advance, if provided for the selected channel. Naturally you can mark EPG entries for recording with a simple touch of a button – we would not have expected anything less for a premium product anyway.

In case no EPG data are available for certain channels it is of course just as well possible to create manual timer entries or edit existing entries through a dedicated timer menu. The integrated teletext decoder rounds off the fine overall impression of the FireDTV Viewer. Like all other features, it performed flawlessly during our test.

TELE-satellite tests the reception capabilities of all receivers that make it to our lab, and the FireDTV was no exception. It performed well and was able to also pull in weaker signals from NILESAT 7° West or EXPRESS AM1 40° East with ease. The tuner also did a good job with SCPC signals and created a steady signal with symbol rates of 2 MS/s and above. Only when the symbol rate was just 1 MS/s from EUTELSAT SESAT 36° East did the FloppyDTV not pass the test.

H.264 HDTV reception was not a problem with our test PC and we were able to run other applications next to the TV window without noticeable limitations. But what about older systems?

We stumbled across an old Pentium IV PC in our basement and revived it to check how the FloppyDTV works with less state-of-the-art PC hardware. The result was far better than what we had anticipated: While it came as no surprise that SDTV reception worked brilliantly, we found that even HDTV reception was possible, albeit with some frozen



Selection of different codecs!

## Expert Opinion



+

The FloppyDTV card is an extremely versatile and powerful extension to your existing PC at home. It allows storing and editing TV and radio contents directly on your hard disk. The FireDTV Viewer also performed very well during our test and stands out thanks to its ease of use.

-

DiSEqC 1.1 switches are not supported and editing the pre-stored satellite and transponder lists is rather cumbersome.

## TECHNIC

### DATA

Distributor	DVB Shop Network and Television GmbH D-04509 Neukyhna OT Pohritzsch, Germany
Email	webmaster@dvbshop.net
Website	www.dvbshop.net
Tel	+49 (0) 34954/31960 (Mo-Thu 13:00-17:00)
Fax	+49 (0) 34954/49233
Model	FloppyDTV
Function	Internal PC Card for the reception of SD and HD content via DVB-S/2 using FireWire connector
Channel memory	unlimited
Satellites	153
Symbol rates	2-45 Ms/sec.
SCPC compatible	yes (tested > 2 MS/s)
USALS	yes
DiSEqC	1.0, 1.2, 1.3
EPG	yes
C/Ku-Band compatible	yes

frames every once in a while and no way of working with other applications simultaneously as the processor was really pushed to the limits with HDTV viewing.

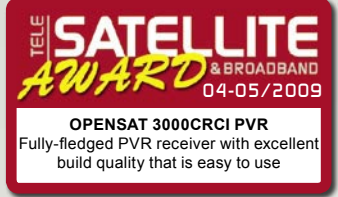
This proved once more that HDTV solutions for PCs require an enormous amount of processing power as well

as an equally capable graphics board.

Thanks to decreasing prices for hardware components and technological progress, however, most modern home PCs can be expected to meet these requirements and should be a perfect match for the FloppyDTV card.

# OPENSAT 3000CRCI PVR

## ريسيفر صغير بمزايا كبيرة



إن الريسيفر OPENSAT 3000CRCI PVR هو ريسيفر مزود بفتحات لإدخال الكامات بمختلف أنواع التشفير و مسجل و مع ذلك به ميزة غير معتادة حيث انه صغير الحجم و بهذا يتناسب مع أي غرفة معيشة ، و تم تجهيز اللوحة الأمامية بشاشة عرض لأربعة أرقام فى الجانب الأيسر العلوي و بجواره زر الاستعداد أما بقية الأزرار و الفتحات تجدها مخبأة وراء غطاء .



DIGITAL SATELLITE RECEIVER • 3000 CRCI PVR

عملية التركيب و هذا يعنى انك تقوم بنفسك فى البداية باختيار لغة عرض القوائم من بيم : الإنجليزية ، الفرنسية ، الألمانية ، الإيطالية ، الأسبانية ، التركية ، البولندية ، الفارسية - السلوفاكية ، السلوفانية ، التشيكية و المجرية .

بعمل كتيب تشغيلي شامل و يجيب على أي تساؤلات ، و تتناول جميع الوظائف وخيارات التشغيل و مزودة بالصورة التوضيحية . إن التصنيع العام للريسيفر موديل 3000CRCI جيد و لم تواجهنا أي مشاكل أثناء الاختبار .

## الاستخدام اليومي

لم يجهز البرنامج التشغيلي لهذا الريسيفر بقوائم مساعدة أثناء

أوروبي و عدد أربعة جاكات RCA للصوت الاستريو و الصورة و تحكم 0/12 فولت ، كما يوجد مخرج صوت رقمي ضوئي و موالف UHF و منفذ توالى RS-232 و مفتاح رئيسي .

و تتناسب وحدة التحكم عن بعد التي تأتي مع الريسيفر مع راحة يدك و قد أتت بتصميم مريح و تم ترقيمها بطريقة جيدة واضحة ، كما أن قوائم العرض على الشاشة للريسيفر OPENSAT تشرح نفسها ، و قد قامت الشركة المنتجة

إذا فتحت هذا الغطاء سوف تجد عدد سبعة أزرار تتحكم بالريسيفر بالكامل بدون استخدام وحدة التحكم عن بعد ، و فتحة لإدخال الكامات بمختلف أنواع التشفير مثل Irdeto ، Seca ، Viaccess ، Nagravision أو Cryptoworks كما يوجد قاري كروت لنوع التشفير Conax و منفذ USB .

و قد تم تجهيز اللوحة الخلفية جيدا حيث يوجد مدخل إشارات IF و مخرج تمرير لها و عدد 2 موصل سكاتر



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Croatian	Hrvatski	<a href="http://www.TELE-satellite.com/TELE-satellite-0905/hrv/opensat.pdf">www.TELE-satellite.com/TELE-satellite-0905/hrv/opensat.pdf</a>
Italian	Italiano	<a href="http://www.TELE-satellite.com/TELE-satellite-0905/ita/opensat.pdf">www.TELE-satellite.com/TELE-satellite-0905/ita/opensat.pdf</a>
Hungarian	Magyar	<a href="http://www.TELE-satellite.com/TELE-satellite-0905/mag/opensat.pdf">www.TELE-satellite.com/TELE-satellite-0905/mag/opensat.pdf</a>
Mandarin	中文	<a href="http://www.TELE-satellite.com/TELE-satellite-0905/man/opensat.pdf">www.TELE-satellite.com/TELE-satellite-0905/man/opensat.pdf</a>
Dutch	Nederlands	<a href="http://www.TELE-satellite.com/TELE-satellite-0905/ned/opensat.pdf">www.TELE-satellite.com/TELE-satellite-0905/ned/opensat.pdf</a>
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Turkish	Türkçe	<a href="http://www.TELE-satellite.com/TELE-satellite-0905/tur/opensat.pdf">www.TELE-satellite.com/TELE-satellite-0905/tur/opensat.pdf</a>

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OPENSAT

DVB  
Digital Video  
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OPENSAT

وتتكون القائمة الرئيسية الواضحة من ستة فئات ( قائمة القنوات ، ضبط الطبق ، البحث ، الضبط ، الألعاب و المسجل ) ، و أول خطوة يتم ضبطها هي ضبط الريسيفر مع جهاز التلفزيون المستخدم .

حيث يوجد أنظمة الإرسال الملون PAL- ، PAL-M ، PAL ، SECAM ، N و NTSC ، و يمكن اختيار نوع الإرسال يدويا أو أوتوماتيكيا عن طريق جعل جهاز الريسيفر الاعتناء بهذا الأمر .

كما يمكن ضبط مخارج إشارات الصورة RGB أو CVBS ، و مع S-Video و YUV لم يتم تطبيقها من الشركة المنتجة ، و يمكن تفعيل عمل موافق UHF من خلال قوائم خاصة للعمل من قناة 21 إلى قناة 69 .

و مثل أي جهاز ريسيفر رقمي تجد الريسيفر OPENSAT 3000CRCI المحلى من خلال الإرسال الفضائي ، و للتأكد من أن الوقت صحيح يجب أن تضبط توقيتك المحلى بالنسبة إلي توقيت GMT ، و بينما تجد أن أجهزة الريسيفر الأخرى تطلب ضبط وقت GMT +/- بالساعات فان هذا الريسيفر يظهر لك أوقات المدن

و تم ضبط معدل ترددات المذبذب المحلى لاستقبال C band مسبقا و أيضا لاستقبال Ku band ، كما يمكن استقبال الإشارات الدائرية لوحدة خفض الشوشرة و إذا كان هذا غير كافيا فيمكن ضبط معدل ترددات المذبذب المحلى يدويا .

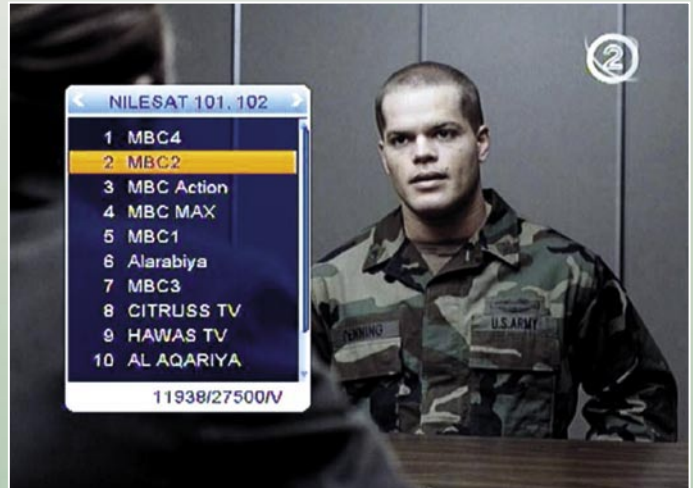
إن الريسيفر موديل لدية ذاكرة كافية لعدد 4000 قناة ، و يمكن



Transponder list of NILESAT 7° West |



EPG |



Channel list |



# OPENSAT



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- Toggle to display Post BER and Carrier to Noise (dB)

- DiSEqC switch commands (available from sub menu)
- Symbol rates 2Msymb to 45Msymb
- Frequency range 950 to 2150MHz
- Input impedance 75 Ohms
- LNB Pass / Fail test function
- LNB short circuit protection
- Satellite cable integrity test
- Upgradeable firmware
- Intelligent internal AC charger 100 to 240 V AC
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- USB lead supplied
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- Compliant with EN 61326-1 : 2006 (EMC) and EN 61010-1 : 2001 (Electrical safety)
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- Free product support via phone and email

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Main menu – installation |



Multi-satellite search |



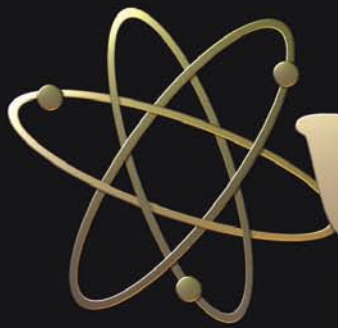
Channel list editing |



Info bar |



# OPENSAT



# VENUS

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إجراء عملية البحث عن القنوات الأتوماتيكي سواء لقمر صناعي واحد أو عدة أقمار صناعية أو إجراء البحث اليدوي للنواقل و إجراء البحث عن القنوات المجانية فقط و يمكن إجراء البحث عن القنوات التليفزيونية فقط أو الإذاعية فقط و أيضا إجراء البحث الشبكي عن القنوات .

و يدعم الريسيفر ما يسمى بالبحث الأعمى عن القنوات مما يسمح لك بالبحث عن الترددات و القنوات الغير معروفة لديك و إضافتها إلى قائمة الترددات .

و لقد أجرينا الاختبار على القمر HOTBIRD عند 13 درجة شرق ، و استغرق الريسيفر OPENSAT حوالي 3:20 دقيقة فقط أثناء البحث ووجد قناة تليفزيونية و 456 قناة إذاعية ، و عند تفعيل خاصية البحث الأعمى عن القنوات لنفس القمر قام الريسيفر بالبحث خلال خمس دقائق وجد الريسيفر خلالها 1132 قناة تليفزيونية و 431 قناة إذاعية و كلى النتيجة كافيتين مع اعتبار أن هذا بحث أتوماتيكي .

Multi-picture view with 9 channels

قائمة القنوات حيث يمكن إلغاء القنوات الغير مرغوب فيها سواء كانت قنوات تليفزيونية أو إذاعية . و بالنسبة لهواة استقبال القنوات فيمكن أن يسعدوا لمعرفة انه يمكن إلغاء جميع القنوات بضغطة واحدة و بدون إعادة ضبط الريسيفر .

و عند تحرير و ضبط قائمة القنوات تظهر جميع القنوات المتاحة و لسهولة الأمر تعرض جميع القنوات و يمكن تحديد بعض القنوات للتخطى أثناء التنقل بين القنوات ، و أثناء عملية الضبط تظهر القناة

و يمكن إجراء البحث اليدوي عن القنوات و اختيار أو ضبط أو إضافة أو إلغاء الترددات ، و هنا تعمل مرة أخرى الأزرار الملونة بوحدة التحكم عن بعد لتسهيل العملية ، و الشيء الوحيد المفقود هو إمكانية إدخال قيم تعريف الباقات يدويا و هذا ما لم يدعمه الريسيفر .

و إذا وضعنا في الاعتبار أن ذاكرة الريسيفر لعدد 4000 قناة هي ذاكرة محدودة فمن المنطقي ضبط و تحرير





استخدام الريسيفر juke box للحفلة القادمة .

كما يمكن تحديث البرنامج التشغيلي عن طريق منفذ USB - كل ما عليك هو تحميل البرنامج التشغيلي الحديث من موقع الشركة المنتجة على الإنترنت و نسخ البرنامج إلى فلاشة و من ثم وضع الفلاشة لتحديث الريسيفر .

و النقص الوحيد في الريسيفر OPENSAT 3000CRCI PVR هو انه يتم توصيل وحدات التخزين من الأمام فقط و هذا يعنى أن الغطاء الأنيق الموجود فى اللوحة الأمامية يجب أن يظل مفتوحا و يكشف وجود الإزار و الفتحات الأقل أناقة .

و الذي أعجبنا فى الريسيفر كثيرا هو سهولة ضبط ما تم تسجيله على جهاز الكمبيوتر أو الحرق على اسطوانات DVD ، و نشكر وجود وحدات تخزين خارجية فمن السهل نقلها و توصيلها بجهاز الكمبيوتر و نقل محتوياتها الضخمة من وحدة إلى أخرى .

مسجل عند استخدام قرص صلب خارجي أو كارت ذاكرة أو فلاشة و إذا تم إدخال أي من تلك الأنواع سوف يتحول الريسيفر فورا إلى جهاز مسجل كامل لوظائف ، مثل التسجيل للبرنامج المعروف أو تشغيل ملفات مسجلة من قبل و أيضا وظيفة ترحيل الوقت و هي عندما تشاهد فيلم أو برنامج هام و تضطر للرد على التليفون قم ببساطة بالضغط على زر pause و تحدث فى التليفون و من ثم يمكن متابعة مشاهدة البرنامج أو الفيلم من حيث النقطة التي توقفت عندها .

و طبيعيا قمنا باختبار جميع وظائف المسجل و لم نلاحظ وجود أي مشكلة أثناء الاختبار ، كما يمكن ضبط الميقاتي لعدد ثمانية أحداث و يمكن ضبطه للعمل بصفة يومية أو أسبوعية .

و بالإضافة إلى إمكانية تسجيل و عرض الإرسال الفضائي التلفزيوني يمكن أيضا تشغيل ملفات الصوت MP3 و أيضا عرض الصور على الشاشة و يمكن

و استطاع الريسيفر أيضا استقبال القنوات المفردة من خلال القمر تركسات مع معدل ترميز 2400 الف رمز بدون أية مشكلات .

و تعمل فتحة إدخال الكامات مع مختلف أنواع الكامات بدون مشاكل ، كما يعمل قارئ الكروت لنوع التشفير Conax بدون أية مشكلات أيضا .

و يمكن استخدام منفذ التوالي RS-232 لتحديث البرنامج التشغيلي للريسيفر أو إدخال بيانات قوائم القنوات ، و لقد وفرت شركة OPENSAT برنامج يعمل على جهاز الكمبيوتر لهذا الغرض و هو يتوافق أيضا مع قوائم قنوات SatcoDX مما يسهل تحديث القنوات بشكل سريع جدا .

## وظيفة التسجيل

و إذا كنت تتعجب كيف يعمل الريسيفر OPENSAT the 3000CRCI PVR كمسجل فان الإجابة تكمن فى وجود منفذ USB 2.0 مما يحول الريسيفر إلى جهاز

المعروضة داخل شاشة صغيرة فى الجانب الأيمن من الشاشة .

و عند الضغط على الزر باللون الأحمر تظهر لك إمكانية البحث عن قناة معينة عن طريق إدخال اسم القناة و تظهر لشك لوحة حروف لمساعدتك على كتابة اسم القناة و بينما أن هذه الميزة جيدة للريسيفر OPENSAT فهي تعتبر أيضا أداة لتطبيق سهولة الاستخدام .

و اكتمل الانطباع الجيد لهذا الريسيفر مع وظيفة الزووم و ديكودر استقبال قنوات المعلومات المدمج بالريسيفر و أيضا تعدد عرض القنوات على الشاشة لعدد تسعة قنوات .

إن شركة OPENSAT استخدمت تيونر عالي الحساسية بحيث استطعنا استقبال الإشارات الضعيفة من القمر نايلسات عند 7 درجة غرب و القمر ASTRA2D عند 28 درجة شرق من حيث موقعنا .



# OPENSAT

## تعليق الخبراء

+

### إن الريسيفر OPENSAT 3000CRCI PVR

هو جهاز مسجل كامل الوظائف و يتناسب مع محيط أي غرفة معيشة ، و سهل الاستخدام لجميع أفراد العائلة ، و نظام التشغيل سهل الاستخدام و عمل بدون توقف أثناء الاختبار ، و لم يترك الريسيفر أي شئ آخر نتمناه في جهاز ريסיفر ، يعمل كمسجل و مشغل ملفات MP3 و عرض الصور ، الريسيفر أنيق و صغير الحجم



Thomas Haring  
TELE-satellite  
Test Center  
Austria

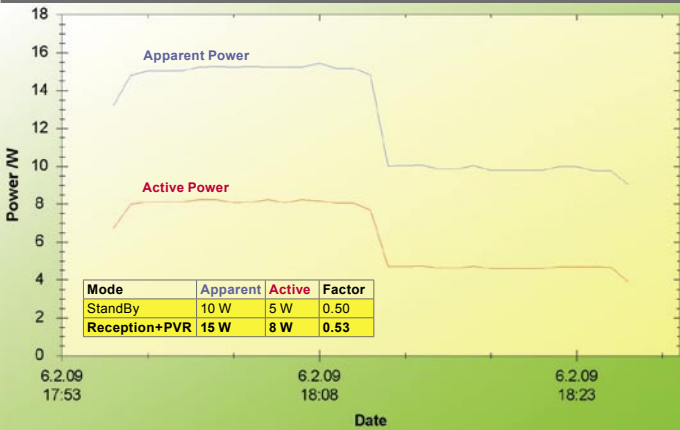
منفذ USB موجود فقط في اللوحة الأمامية و من المفضل نقله إلى الخلف أو الأفضل وضع منفذ USB آخر في الخلف .

## TECHNIC

### DATA

Manufacturer	ABC Biznis, 955 01 Topol'cany, Slovakia
Tel/Fax	+421 38 5313508
E-Mail	info@abcbiznis.sk
Website	www.opensat.sk, www.abcbiznis.sk
Model	OPENSAT 3000CRCI PVR
Function	Digital DVB-S CI-PVR receiver
Channel memory	4000
Symbol rates	2-45 Ms/sec.
SCPC compatible	yes
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
USALS	yes
HDMI connector	no
Scart connector	2
Audio/Video output	3 x RCA
S-Video output	no
UHF modulator	yes
0/12 Volt connector	yes
Digital audio output	yes
EPG	yes
C/Ku-band compatible	yes
PVR-function	yes (via external USB 2.0 storage media)

## ENERGY DIAGRAM



First 15 minutes: reception with channel switching, PVR recording and play. Second 15 minutes: standby



Main menu – PVR |



PVR Manager |



MP3 Jukebox |



SCPC reception via TURKSAT 42° East



# Helping to build a better industry

## DTTV: DISTRIBUTION IN DVB-T

Convert QPSK and AV into COFDM signals for true "Digital To Television"



DTT  
QPSK  
ASI-TS  
VIA analogue



DTT

DIGITAL To TV  
DTTV

Advanced technology at affordable prices



**TV EXPLORER II+**

- High definition satellite (DVB-S2) & Mobile TV (DVB-H)
- Encrypted channels decoding (Patented)
- Automatic signals identifying
- Automatic channel tables
- Fast, automatic reports
- Spectrogram and Merogram (Patent Pend)
- Minimum size & weight



**SATHUNTER**

- Fast and accurate dish installation
- Light, compact and easy to use
- Displays Power, MER, BER and service list
- Customizable through software and USB port

# AWARD WINNING

**SATELLITE  
PRODUCTS OF  
21<sup>ST</sup> CENTURY**





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	• / •

**TELE SATELLITE AWARD & BROADBAND**  
02-03/2009

**TOPFIELD TF6000PVR ES**  
Easy to use family oriented receiver with built-in upscaler – ideal for use on LCD or plasma TVs

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**TOPFIELD**



Manufacturer	Dizipia
Website	www.dizipia.com
Function	HDTV Satellite Receiver with Scaler
DVB-S2/LAN	• / •
Channel Memory	!
DiSEqC	1.0 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

**TELE SATELLITE AWARD & BROADBAND**  
02-03/2009

**DIZIPIA DS4H-9160**  
A competent receiver with lots of connection options and powerful capabilities

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**DIZIPIA**



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



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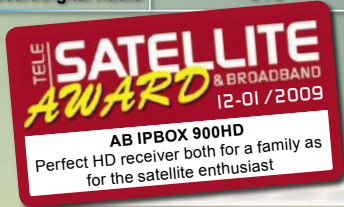
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Manufacturer	AB-COM
Website	www.abipbox.com
Function	Digital Linux-based HDTV PVR Receiver for DVB-S, DVB-S2, DVB-C and DVB-T
DVB-S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
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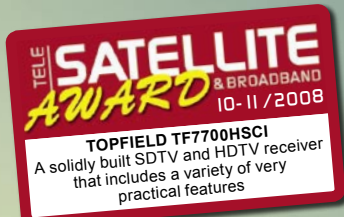
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**AB-COM**



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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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Portuguese	Português	<a href="http://www.TELE-satellite.com/TELE-satellite-0811/por/topfield.pdf">www.TELE-satellite.com/TELE-satellite-0811/por/topfield.pdf</a>
Romanian	Românesc	<a href="http://www.TELE-satellite.com/TELE-satellite-0811/rom/topfield.pdf">www.TELE-satellite.com/TELE-satellite-0811/rom/topfield.pdf</a>
Russian	Русский	<a href="http://www.TELE-satellite.com/TELE-satellite-0811/rus/topfield.pdf">www.TELE-satellite.com/TELE-satellite-0811/rus/topfield.pdf</a>
Swedish	Svenska	<a href="http://www.TELE-satellite.com/TELE-satellite-0811/sve/topfield.pdf">www.TELE-satellite.com/TELE-satellite-0811/sve/topfield.pdf</a>
Turkish	Türkçe	<a href="http://www.TELE-satellite.com/TELE-satellite-0811/tur/topfield.pdf">www.TELE-satellite.com/TELE-satellite-0811/tur/topfield.pdf</a>



**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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 A family-friendly receiver and easiest to use with a multitude of features

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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
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English	English	www.TELE-satellite.com/TELE-satellite-0811/eng/sonicview.pdf
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Farsi	فارسی	www.TELE-satellite.com/TELE-satellite-0811/far/sonicview.pdf
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Greek	Ελληνικά	www.TELE-satellite.com/TELE-satellite-0811/hel/sonicview.pdf
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Italian	Italiano	www.TELE-satellite.com/TELE-satellite-0811/ita/sonicview.pdf
Hungarian	Magyar	www.TELE-satellite.com/TELE-satellite-0811/mag/sonicview.pdf
Mandarin	中文	www.TELE-satellite.com/TELE-satellite-0811/man/sonicview.pdf
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Romanian	Românesc	www.TELE-satellite.com/TELE-satellite-0811/rom/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.subursmt.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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Czech	Česky	www.TELE-satellite.com/TELE-satellite-0811/ces/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	• / •

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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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Czech	Česky	<a href="http://www.TELE-satellite.com/TELE-satellite-0809/ces/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0809/ces/abcom.pdf</a>
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Spanish	Español	<a href="http://www.TELE-satellite.com/TELE-satellite-0809/esp/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0809/esp/abcom.pdf</a>
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Hungarian	Magyar	<a href="http://www.TELE-satellite.com/TELE-satellite-0809/mag/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0809/mag/abcom.pdf</a>
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Polish	Polski	<a href="http://www.TELE-satellite.com/TELE-satellite-0809/pol/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0809/pol/abcom.pdf</a>
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Manufacturer	Arion
Website	www.arion.co.kr
Function	Digital Satellite PVR Receiver with Built-in Scaler
DVB-S2/LAN	• / —
Channel Memory	8000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	• / •
Scart/Digital Audio	• / •

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**ARION AF9400PVR HDMI**  
A solid and easy to use receiver that with its Scaler can present satellite channels in excellent quality.

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English	English	<a href="http://www.TELE-satellite.com/TELE-satellite-0807/eng/arion.pdf">www.TELE-satellite.com/TELE-satellite-0807/eng/arion.pdf</a>
Spanish	Español	<a href="http://www.TELE-satellite.com/TELE-satellite-0807/esp/arion.pdf">www.TELE-satellite.com/TELE-satellite-0807/esp/arion.pdf</a>
Farsi	فارسی	<a href="http://www.TELE-satellite.com/TELE-satellite-0807/far/arion.pdf">www.TELE-satellite.com/TELE-satellite-0807/far/arion.pdf</a>
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Greek	Ελληνικά	<a href="http://www.TELE-satellite.com/TELE-satellite-0807/hel/arion.pdf">www.TELE-satellite.com/TELE-satellite-0807/hel/arion.pdf</a>
Croatian	Hrvatski	<a href="http://www.TELE-satellite.com/TELE-satellite-0807/hrv/arion.pdf">www.TELE-satellite.com/TELE-satellite-0807/hrv/arion.pdf</a>
Italian	Italiano	<a href="http://www.TELE-satellite.com/TELE-satellite-0807/ita/arion.pdf">www.TELE-satellite.com/TELE-satellite-0807/ita/arion.pdf</a>
Hungarian	Magyar	<a href="http://www.TELE-satellite.com/TELE-satellite-0807/mag/arion.pdf">www.TELE-satellite.com/TELE-satellite-0807/mag/arion.pdf</a>
Mandarin	中文	<a href="http://www.TELE-satellite.com/TELE-satellite-0807/man/arion.pdf">www.TELE-satellite.com/TELE-satellite-0807/man/arion.pdf</a>
Dutch	Nederlands	<a href="http://www.TELE-satellite.com/TELE-satellite-0807/med/arion.pdf">www.TELE-satellite.com/TELE-satellite-0807/med/arion.pdf</a>
Polish	Polski	<a href="http://www.TELE-satellite.com/TELE-satellite-0807/pol/arion.pdf">www.TELE-satellite.com/TELE-satellite-0807/pol/arion.pdf</a>
Portuguese	Português	<a href="http://www.TELE-satellite.com/TELE-satellite-0807/por/arion.pdf">www.TELE-satellite.com/TELE-satellite-0807/por/arion.pdf</a>
Romanian	Românesc	<a href="http://www.TELE-satellite.com/TELE-satellite-0807/rom/arion.pdf">www.TELE-satellite.com/TELE-satellite-0807/rom/arion.pdf</a>
Russian	Русский	<a href="http://www.TELE-satellite.com/TELE-satellite-0807/rus/arion.pdf">www.TELE-satellite.com/TELE-satellite-0807/rus/arion.pdf</a>
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Manufacturer	NanoXX
Website	www.nanoxx.info
Function	Digital HDTV PVR Receiver
DVB-S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	• / •
Scart/Digital Audio	• / •

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04-05/2008

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

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- Polish Polski
- Portuguese Português
- Romanian Românesc
- Russian Русский
- Swedish Svenska
- Turkish Türkçe



**NANOXX**



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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**OPENSAT X9000HDCI**  
Fasten your seatbelt: super fast channel zapping combined with superb audio and video quality in SD and HD

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- Russian Русский
- Swedish Svenska
- Turkish Türkçe



**OPENSAT**



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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**TOPFIELD TF7700 HDPVR**  
Fully capable twin receiver with proven HDTV technology and outstanding picture quality.

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**TOPFIELD**



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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02-03/2008

**AB IPBOX 350PRIME PVR**  
A Linux-based Receiver as Powerful as Never Before

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English	English	<a href="http://www.TELE-satellite.com/TELE-satellite-0803/eng/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0803/eng/abcom.pdf</a>
Spanish	Español	<a href="http://www.TELE-satellite.com/TELE-satellite-0803/esp/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0803/esp/abcom.pdf</a>
Farsi	فارسی	<a href="http://www.TELE-satellite.com/TELE-satellite-0803/far/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0803/far/abcom.pdf</a>
French	Français	<a href="http://www.TELE-satellite.com/TELE-satellite-0803/fra/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0803/fra/abcom.pdf</a>
Greek	Ελληνικά	<a href="http://www.TELE-satellite.com/TELE-satellite-0803/hel/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0803/hel/abcom.pdf</a>
Croatian	Hrvatski	<a href="http://www.TELE-satellite.com/TELE-satellite-0803/hrv/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0803/hrv/abcom.pdf</a>
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Turkish	Türkçe	<a href="http://www.TELE-satellite.com/TELE-satellite-0803/tur/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0803/tur/abcom.pdf</a>



**AB-COM**



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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Indonesian	Indonesia	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/bid/arionHDCI.pdf">www.TELE-satellite.com/TELE-satellite-0801/bid/arionHDCI.pdf</a>
Bulgarian	Български	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/bul/arionHDCI.pdf">www.TELE-satellite.com/TELE-satellite-0801/bul/arionHDCI.pdf</a>
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Croatian	Hrvatski	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/hrv/arionHDCI.pdf">www.TELE-satellite.com/TELE-satellite-0801/hrv/arionHDCI.pdf</a>
Italian	Italiano	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/ita/arionHDCI.pdf">www.TELE-satellite.com/TELE-satellite-0801/ita/arionHDCI.pdf</a>
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Mandarin	中文	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/man/arionHDCI.pdf">www.TELE-satellite.com/TELE-satellite-0801/man/arionHDCI.pdf</a>
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**ARION**

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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Bulgarian	Български	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/bul/zimple.pdf">www.TELE-satellite.com/TELE-satellite-0801/bul/zimple.pdf</a>
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Russian	Русский	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/rus/zimple.pdf">www.TELE-satellite.com/TELE-satellite-0801/rus/zimple.pdf</a>
Turkish	Türkçe	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/tur/zimple.pdf">www.TELE-satellite.com/TELE-satellite-0801/tur/zimple.pdf</a>



**INFOSAT**

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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Mandarin	中文	<a href="http://www.TELE-satellite.com/TELE-satellite-0711/man/jiuzhou.pdf">www.TELE-satellite.com/TELE-satellite-0711/man/jiuzhou.pdf</a>
Dutch	Nederlands	<a href="http://www.TELE-satellite.com/TELE-satellite-0711/ned/jiuzhou.pdf">www.TELE-satellite.com/TELE-satellite-0711/ned/jiuzhou.pdf</a>
Polish	Polski	<a href="http://www.TELE-satellite.com/TELE-satellite-0711/pol/jiuzhou.pdf">www.TELE-satellite.com/TELE-satellite-0711/pol/jiuzhou.pdf</a>
Russian	Русский	<a href="http://www.TELE-satellite.com/TELE-satellite-0711/rus/jiuzhou.pdf">www.TELE-satellite.com/TELE-satellite-0711/rus/jiuzhou.pdf</a>
Turkish	Türkçe	<a href="http://www.TELE-satellite.com/TELE-satellite-0711/tur/jiuzhou.pdf">www.TELE-satellite.com/TELE-satellite-0711/tur/jiuzhou.pdf</a>



**JIUZHOU**

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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Hungarian	Magyar	<a href="http://www.TELE-satellite.com/TELE-satellite-0709/mag/jiuzhou.pdf">www.TELE-satellite.com/TELE-satellite-0709/mag/jiuzhou.pdf</a>
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Dutch	Nederlands	<a href="http://www.TELE-satellite.com/TELE-satellite-0709/ned/jiuzhou.pdf">www.TELE-satellite.com/TELE-satellite-0709/ned/jiuzhou.pdf</a>
Polish	Polski	<a href="http://www.TELE-satellite.com/TELE-satellite-0709/pol/jiuzhou.pdf">www.TELE-satellite.com/TELE-satellite-0709/pol/jiuzhou.pdf</a>
Russian	Русский	<a href="http://www.TELE-satellite.com/TELE-satellite-0709/rus/jiuzhou.pdf">www.TELE-satellite.com/TELE-satellite-0709/rus/jiuzhou.pdf</a>
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**JIUZHOU**



Manufacturer	ABC Biznis
Website	www.opensat.info
Function	Fast satellite receiver with two CI slots
DVB-S2/LAN	- / -
Channel Memory	6000
DiSEqC	1.0 / 1.2
S-Video/HDMI	- / -
Scart/Digital Audio	• / -

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| Farsi      | فارسی      | <a href="http://www.TELE-satellite.com/TELE-satellite-0709/far/opensat.pdf">www.TELE-satellite.com/TELE-satellite-0709/far/opensat.pdf</a> |
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| Croatian   | Hrvatski   | <a href="http://www.TELE-satellite.com/TELE-satellite-0709/hrv/opensat.pdf">www.TELE-satellite.com/TELE-satellite-0709/hrv/opensat.pdf</a> |
| Italian    | Italiano   | <a href="http://www.TELE-satellite.com/TELE-satellite-0709/ita/opensat.pdf">www.TELE-satellite.com/TELE-satellite-0709/ita/opensat.pdf</a> |
| Hungarian  | Magyar     | <a href="http://www.TELE-satellite.com/TELE-satellite-0709/mag/opensat.pdf">www.TELE-satellite.com/TELE-satellite-0709/mag/opensat.pdf</a> |
| Mandarin   | 中文         | <a href="http://www.TELE-satellite.com/TELE-satellite-0709/man/opensat.pdf">www.TELE-satellite.com/TELE-satellite-0709/man/opensat.pdf</a> |
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Manufacturer	AB-COM
Website	www.abcom.sk
Function	Digital Linux-based PVR satellite receiver
DVB-S2/LAN	- / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	- / -
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| Bulgarian  | Български  | <a href="http://www.TELE-satellite.com/TELE-satellite-0707/bul/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0707/bul/abcom.pdf</a> |
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# جودة صناعة AB-COM

# ab-com

جودة عالية يسعر مناسب – هذه تصريحات الشركة السلوفاكية المنتجة لأجهزة الريسيفر AB-COM ، و التي دخلت إلى هذا السوق عام 2005 بتقديمها أجهزة ريسيفر تعتمد على نظام التشغيل Linux ، و كان نجاح الريسيفر الرقمي 200S كبير جدا منذ تلك الفترة و حتى اليوم و يعتبر من افضل أجهزة الريسيفر و التي تباع بأعداد كبيرة ، و لقد أعطانا المدير الإداري للشركة السيد Juraj Masaryk معلومات مختصرة عن ماضي شركة AB-COM و ما هو المستقبل الذي ينتظر الشركة .

■ عقار شركة AB-COM في سلوفاكيا ، يمكن أن ترى شاشة التسليم في المقدمة

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إن شركة AB-COM تحتفل هذا العام على مرور 20 سنة على وجودها الحقيقي و لكن مرت الشركة بعدة تغييرات فرعية في الماضي فعام 1992 يعتبر نقطة البداية لشركة AB-COM في مجال صناعة أجهزة استقبال الأقمار الصناعية .

و كانت الشركة في قبل هذا التاريخ تعمل كموزع لأجهزة الكمبيوتر الشخصية و قد أسست عن طريق اثنين من الشركاء و في عام 1992 انضم إليها السيد Juraj Masaryk الذي كان يعمل كمدير للمبيعات و المشتريات في موزع أجهزة استقبال أقمار صناعية قبل أن يقرر تطبيق أفكاره الخاصة في مرحلة ما .

و قد حصل السيد Juraj Masaryk مبدئياً على 25 في



المهندس Juraj Masaryk يدير شركة AB-COM كمدير أدارى و يجب أن يسمى نفسه مدير المبيعات و التسويق و يعمل دائماً على إيجاد طريقة لتحسين خطوات العمل ، و كما في الصورة يشير إلى خريطة تنظيم العمل لعدد 29 موظف في شركة AB-COM و بعض الموظفين يتحملون مسنوليات في العديد من المناطق ، و يفيد Juraj " يتم تجميع التقارير أسبوعياً و يتم تقييمها " و هذا نتيجة لتنظيم بناء العمل الجيد مما يضع شركة AB-COM في طريق التقدم و التوسع في المستقبل .





■ نظرة داخل متجر **AB-COM** لبيع التجزئة و يمكن للعملاء الشراء المباشر من مقر الشركة ، السيد **Peter Hrnko** هو واحد من خمسة من العاملين بالمتجر و يعرض جهاز ريسيفر خاص بشركة **AB-COM** ، و بينما تمثل مبيعات أجهزة الريسيفر **70** في المائة من الدخل ، فان شركة **AB-COM** أيضا تقوم بإمداد **3000** موزع في سلوفاكيا و جمهورية التشيك بجميع مكونات أجهزة استقبال الأقمار الصناعية .

المائة من اسهم شركة **AB-COM** كشريك و قد بدأ عملة في الشركة بتوسيع نشاطها بما فيها مكونات أجهزة استقبال الأقمار الصناعية و قد بدأت شركة **AB-COM** بتقديم مكونات **MMDS** لاستقبال الإرسال التليفزيوني الأرضي و هذا القطاع مازال موجودا حتى الآن و لكن بشكل مصغر .

و الآن يستحوذ السيد **Juraj Masaryk** على **60** في المائة من اسهم شركة مع الشركاء الأصليين و بهذا أصبح هو الشريك الأساسي في الشركة و الآن تركز الشركة على صناعة أجهزة الريسيفر فقط و قد اخبرنا السيد **Juraj Masaryk** انه يرى أن ذلك هو مستقبل الشركة و يستطيع من خلال ذلك تطبيق أفكاره .

و كانت شركة **AB-COM** في البداية تستورد أجهزة الريسيفر من العديد من الشركات المنتجة و لكن أداء هذه الأجهزة لم يكن يصل مستواه للقياسات الخاصة بي ، و يتذكر السيد **Juraj Masaryk** " إنني كنت أريد أن أرى رؤيتي الخاصة تتحقق "



■ بالرغم من عملية فحص الجودة الصارمة إلا انه لا يمكن تفادي عملية التصليح ، المهندس **René Hubinsk** هو واحد من أربعة مهندسين يقدمون الدعم الفني للبرامج التشغيلية .

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و لكن هذه كانت دافع واحد من عدة دوافع لعمل الشركة في مجال تصنيع أجهزة الريسيفر ، " أنا دائما أومن أن لغة التشغيل Linux أكثر ملائمة لأجهزة الريسيفر " و قد أراد السيد Juraj Masaryk استخدام مزايا نظام التشغيل Linux لوضع أفكاره حيز التنفيذ حيث أن من إحدى أدوات أجهزة الريسيفر هو البرنامج التشغيلي الذي يتم تطويره بواسطة مهندسي شركة AB-COM و هذا ما قد تم لأجهزة الريسيفر الرقمية العادية أما أجهزة الريسيفر التي تستقبل الإرسال فائق التفاصيل فلزالت في طور التطوير ، و في المستقبل فان أجهزة الريسيفر HD المنتجة في شركة AB-COM سوف تكون مزودة بالبرنامج التشغيل الإصدار Enigma HD AB .

و الشيء الأخير و الأهم في تصنيع أجهزة الريسيفر بشركة AB-COM هو الكلمة المشهورة و هي الجودة " إن الجودة هي مركز اهتماماتنا " هذا ما صرح به السيد Juraj و لكن كيف يمكننا أن نضمن أن تظل الجودة عالية دائما ؟ طبيعيا وجد السيد Juraj حل لهذا : إن مصدر المكونات من شركة كورية تسمى SKD ( semi knock down ) و يتم تجميع الأجزاء عن طريق شركة AB-COM و اختبار الجودة لكل مكون على حدي .

و لقد أرانا السيد علامة موجودة على خلف أجهزة الريسيفر AB-COM " يمكنك أن ترى هنا : تم اختبارها في الاتحاد الأوروبي " و هذه الطريقة التي تضمن بها شركة AB-COM دائما أن كل منتج على حدي يعمل طبقا لمواصفات الشركة القياسية .

و لكن الأمر لا يتوقف على الإنتاج فقط ، فأين تباع أجهزة ريسيفر AB-COM ؟ إن السيد Tomas Kopeck هو مدير المبيعات في أوروبا و الذي اخبرنا نحن نتعاون مع الموزعين المحليين " و لقد أضاف بفخر " إن لدينا موزعين حتى في أمريكا الشمالية " .

و بالطبع مازالت هناك بعض النقاط البيضاء على الخريطة مثل فرنسا و البرتغال و تركيا و بريطانيا و شمال أفريقيا " فنحن ما زلنا نبحث عن موزعين لنا في تلك الدول و أضاف السيد Juraj إننا يمكننا بالطبع ضبط أجهزة الريسيفر للتوافق مع متطلبات كل سوق و نحن نعمل في هذا المشروع للسوق الأوكرانية .

" إن نسبة مبيعات أجهزة الريسيفر العادية تمثل 30 في المائة بينما تمثل نسبة مبيعات أجهزة الريسيفر التي تستقبل الإرسال فائق التفاصيل 70 في المائة " و بالنظر إلى موديل AB-COM

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■ مدير المخازن Michal Valent مشغول بتخزين أجهزة الريسيفر التي تم الانتهاء منها في المخازن و تجهزها للشحن طبقا للطلبات .



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■ مدير المبيعات في أوروبا Tomaš Kopeck هو من إحدى نقاط الاتصال مع الموزعين خارج سلوفاكيا و التشيك " نحن نرحب بالمزيد من الموزعين الجدد داخل شبكتنا "



■ يعتنى Juraj Bobula بتجارة الجملة في سلوفاكيا

المنتج النهائي صغير الحجم و مزود بقارئ كروت ذكية و يعمل بنظام التشغيل Enigma HD AB .

و بالنسبة للسنة المالية 2009 نتوقع زيادة مبيعات أجهزة الريسيفر HD لتصل إلى 80 في المائة و في عام 2010 نتوقع أن تزيد إلى 90 في المائة ، و قد أضاف السيد Tomas الريسيفر الذي يقدم هو و الذي يأتي بتيونس قابل للتغيير و يعمل الريسيفر لاستقبال قنوات الكابل و هذا يعتبر تطور جديد .

و أيضا استقبال التلفزيون الرقمي الأرضي DVB-C هو من إحدى الأشياء التي تركز عليها شركة AB-COM ، و عند انتهاء مشروع Enigma HD AB فسوف يعمل مهندسي الشركة على تطوير البرنامج التشغيلي Enigma IPTV AB لاستقبال التلفزيون عبر الإنترنت .

و لقد سعد السيد Juraj Masaryk بالنجاح التجاري للشركة فمن عام 2007 إلى 2008 كان هناك حوالي 30 في المائة زيادة في عائدات الشركة و نتوقع زيادة النسبة 20 في المائة إضافيا في عام 2009 .

" و لقد وصل العائد السنوي إلى حوالي عشرة ملايين يورو في 2009 و بالطبع سوف يزيد العائد في 2009 و اخبرنا السيد Juraj متفانلا ، يتم بناء عقار جديد الشركة و بهذه الطريقة تكون لدينا مساحة كافية للتوسع .

و الأكيد في الأمر إن شركة AB-COM تخطط للمستقبل الذي يبدا حيويا و تتقابل الإبداعات مع الجودة – و الجميع من مصدر واحد فقط .



■ السيد Juraj Masaryk من هواة الستلايت الأصليين – حتى بعد فترات العمل تراه في الشرفة بجوار طبق هوائي متعدد وحدات التغذية .

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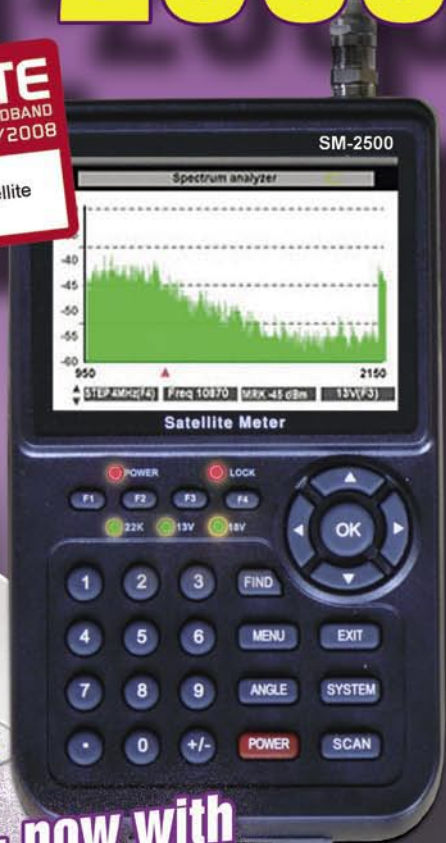
و في وقت قراءة هذا العدد فسوف يجهز لعملية تقديم هذا المنتج للسوق و من المتوقع أن يكون

2008 الناجح فأنه يمثل من الناحية الاقتصادية أفضل منتج من حيث المبيعات لدينا : انه عالي الجودة و به جميع المزايا و بسعر معقول " ثم أضاف السيد Juraj " و لهذا نحن نريد تقديم

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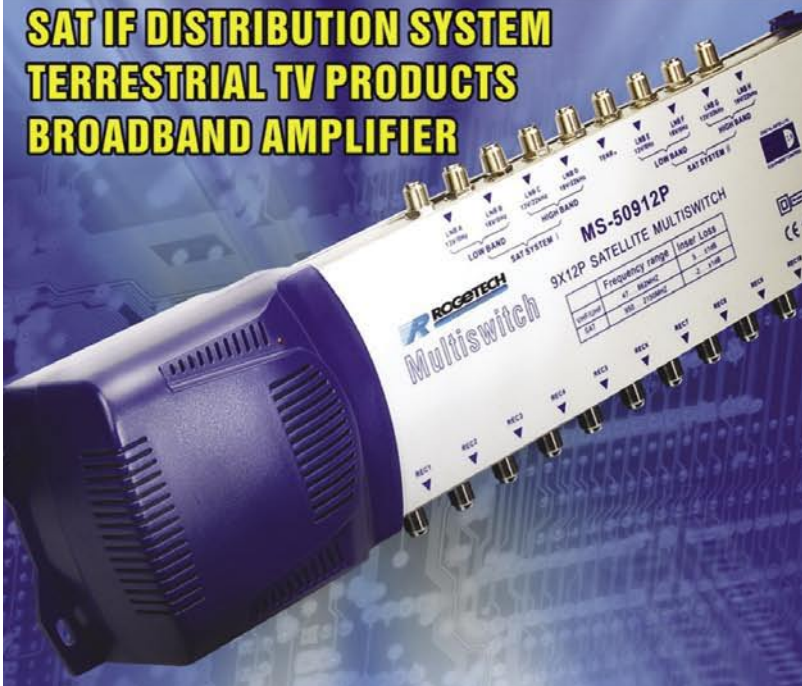
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# علامة تجارية ممتازة

## Topfield

بقلم: الكسندر فايسه

لقد كانت شركة Topfield لاعب أساسي في إنتاج أجهزة الريسيفر المتقدمة في الأسواق لسنوات عديدة ، و سوف يكون الريسيفر الجديد السوبر TMS خطوة أخرى جديدة في سوق الأجهزة المتقدمة . و لقد أرادت مجلة تيلى ستلايت معرفة المزيد عن استراتيجية هذه الشركة المستقبلية و قد تحدثنا مع السيد Dong Hoon Suk في فريق شركة Topfield للتسويق .

■ مدير التسويق Dong Hoon Suk يقف أمام حائط شرح المزايا لأجهزة الريسيفر Topfield

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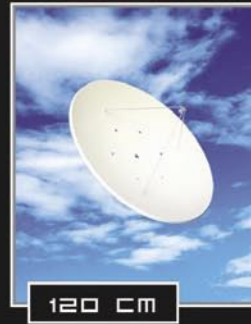
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الهاردوير و مهندسي الإنتاج و مناقشة المزايا المطلوبة في هذا الريسيفر السوبر مع أقسام التسويق ، و لقد اخبرنا أن لديه جدول للإنتاج " سوف ندخل إلى الأسواق بعدد مبدئي حوالي 3000 جهاز ، و بهذا يمكننا تقدير رد فعل السوق تجاه هذا الريسيفر الجديد .

مع تنوع الأسواق سوف يكون هناك أيضا تنوع في الريسيفر TMS ، فطبيعة الألعاب المثبتة على الريسيفر سوف تكون مختلفة كمثل "



■ مدير إنتاج السيد Jimmy Lee يستعرض التوصيلات المبتكرة للريسيفر TMS .



■ إن السيد Matt Jeon ليس فقط صاحب فكرة الريسيفر TMS و لكنه أيضا قائد الفريق المكون من ثمانية مهندسين يعملون على التطوير المستمر لبرنامج تشغيل TMS .

متصفح شبكة الإنترنت سوف يكون مخصص لبعض الخدمات و في الربع الثاني من 2009 سوف يكون متصفح كامل المزايا .

أولا نريد معرفة أين ظهرت فكرة الريسيفر الجديد ؟ ، إن فكرة الجهاز الجديد ترجع إلى مهندس البرامج التشغيلية Matt Jeon الذي أتى بمفهوم جديد لجهاز ريسيفر للوسائط المتعددة في فبراير 2008 ، و لقد قام بعمل فريق من ثمانية مهندسين الذين استطاعوا عمل نموذج للريسيفر في أغسطس 2008 ، و لقد تم عزل فريق TMS تماما عن بقية أفراد الشركة للحفاظ على السرية التامة ، و عندما تم تجميع النموذج الأولى قمنا بعرضه على الموزعين و سوف يقدم الريسيفر TMS إلى العامة في معرض ANGA هذا العام .

سيتم تصنيع الريسيفر TMS في كوريا التي سوف تكون مكان لعرض مزايا هذا الريسيفر و إمكانياته و هكذا تقدم شركة Topfield الدليل على أنها قائدة للوسائط المتعددة المنزلية و هو شعار من الصعب اكتسابه و هذا يظهر أن شركة تعمل يوميا في اتجاه التكنولوجيا المتقدمة .



يمكن استخدام تطبيقات جديدة و هذا سوف يحسن من إمكانيات استخدام جهاز الريسيفر بطريقة دراماتيكية، و حيث أن الموديل الجديد TMS يعتبر أحدث و أرقى منتج للشركة فسوف يقدم في بعض الأسواق في البداية " و ألمانيا هي إحدى الأسواق المبدئية ، و أيضا هولندا و بلجيكا و سويسرا ، و أضاف السيد Dong Hoon Suk " إن العملاء في هذه الأسواق يطلبون هذه النوعية من الأجهزة ، و لكن المفاجئ أن الريسيفر الجديد TMS سوف يقدم أيضا في روسيا ، و نحن على ثقة انه سيكون هناك طلب كبير جدا على الريسيفر TMS .

إن السيد Jimmy Lee هو مدير الإنتاج و المسؤول على مشروع الريسيفر الجديد TMS ، و مهمته تنسيق مهندسي البرامج التشغيلية مع



■ رئيس تحرير مجلة تبلي ستلايت السيد/ الكسندر فايسه كان متوقع وجوده من شركة Topfield لاستعراض الريسيفر الجديد TMS .

إن شركة لديها أكثر من 200 جهاز ريسيفر مختلف مصممة لكي تتناسب مع الأسواق و تعلم الشركة أن هناك بعض الأنواع من أجهزة الريسيفر غير ناجحة " يجب أن نثبت أننا قادرون على تحقيق أعلى أداء " هذا ما شرحه لنا السيد Dong Hoon Suk موضحا استراتيجية شركة Topfield ، " و مع الريسيفر الجديد TMS لا يمكننا استعراض الجودة التقنية فقط التي نجح قادرون على تحقيقها و لكن أيضا تقديم مستوى جديد من الاستخدامات " و سوف يكون هذا الريسيفر على أعلى مستوى و مع إمكانيات لم تكن موجودة من قبل أي في الخيال " و يمكن استخدام الريسيفر الجديد TMS في الخدمات التجارية " فمع توصيله بخدمة الإنترنت



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# Worldwide Satellites in Toronto

*Satellite business in a franchise system. This is the concept that Nick Aquino from Worldwide Satellites in Toronto, Canada follows. Satellite business based on a franchise system? What exactly does this mean? We wanted to know so we made our way to Mississauga. This city is right next to Toronto and is also the home of Toronto's Pearson International Airport.*

Right next to the airport Nick Aquino, along with his girlfriend and business partner Connie Falleta, leased an office with a warehouse. The name on the sign turns out to be GTA Electronics. Nick had this to say about that: "You could say that GTA is our first franchisee; there's a second one in California in the USA."

We wanted to find out more and asked Nick when this all started. Nick explains: "In 2001 I started with my first satellite antenna and already in 2003 I became independent together with my girlfriend Connie." That's when the company Worldwide Satellites came into being. "We get most of our orders from our web site [www.worldwidesatellites.com](http://www.worldwidesatellites.com)", on which he also advertises for his company, "In our first full business year (2004) we managed to turn over 12,000 satellite receivers."

But things only got better: in just four years receiver sales increased tenfold. "In 2008 it was 120,000 boxes", revealed Nick very proudly. With these many receivers sold, why didn't Nick start up his own receiver

■ Nick Aquino is President of Worldwide Satellites. Here in the stockroom he shows us one of EMP's multiswitches that Worldwide Satellites distributes in large numbers in North America. "With EMP alone we have yearly sales of \$1 million", reveals Nick.



■ GTA Electronics can be found here in this office complex as a satellite dealer for end users and Worldwide Satellites as a satellite wholesaler. Pearson International Airport is located roughly 1 km behind the office.

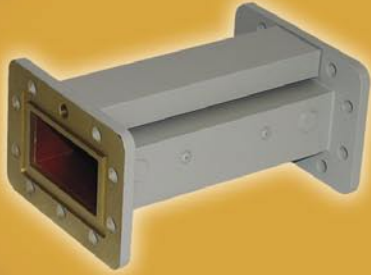




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■ If you call Worldwide Satellites, you'll end up with the always friendly voice of Tanya Shipman.

switches from EMP", comments Nick. Satellite dishes are also available but shipping costs play a very large role here so in most cases Nick lets local dealers care about dishes. "Of the dishes that we do sell, 50% of them are Multisat antennas with which up to five satellites can be received", explains Nick, "The most popular satellite positions would be 91° west, 101° west, 110° west and 119° west. Customers also ask about the 82° west position and I am experimenting with a solution to receive a sixth position at 129° west."

series? "I thought about it", concedes Nick, "but the advantages also came with quite a few disadvantages." In the end, he is happy with the situation in which he works very closely with every satellite receiver manufacturer for the North American market, including SonicView. Their model SV-360 Elite PVR was recently introduced by TELE-satellite.

this franchising system. Nick explains: "Every Worldwide Satellites franchisee profits from our market experience. We deliver the products, naturally at a reasonable price, and the franchisee is guaranteed that these products will find their way to end users."

Worldwide Satellites with its seven employees supplies products as a wholesaler to about 50 satellite dealers in Canada and an additional 10 in the USA. If the franchise concept catches on, these numbers should definitely increase!

Customers simply can't say no when dealing with Andrea Falleta (left) and her sister Connie Falleta (right). Connie Falleta is President of GTA Electronics and sells products in this store to end users.

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فان اسم Luo اصبح Aluo .

و لقد أتى السيد Luo أصلا من ولاية Sichuan  
في جنوب غرب الصين ، و لقد درس الهندسة  
الكهربية و حصل على أول عمل له في شركة  
لإنتاج المكونات الإلكترونية للجيش الصيني في  
مدينة Lanzhou في الشمال الغربي و كانت  
تلك الشركة تنتج أيضا معدات استقبال الأقمار  
الصناعية .

و لقد حصل السيد على خبرة في مجال استقبال  
الأقمار الصناعية لأول مرة عندما استقبل إشارات  
قمر EKRAN عند 99 درجة شرق و التي تبث

# شركة Aluo-sat تعرف الجميع

أي شخص يعمل في مجال الستلايت في الصين لابد أن يقابل السيد  
Luo Shi Gang سواء قريبا أو لاحقا ، ليس فقط انه موزع مجلة  
تيلي ستلايت في الصين لعدة سنوات بل و أيضا لان لديه باع كبير  
في مجال الستلايت ، و حيث أن الصين قد دخلت ن عصر استقبال  
الأقمار الصناعية المباشر في 2009 فان هذا يعتبر وقت جيد لزيارة  
السيد Luo Shi Gang في مكتبة في ولاية Shenzhen .



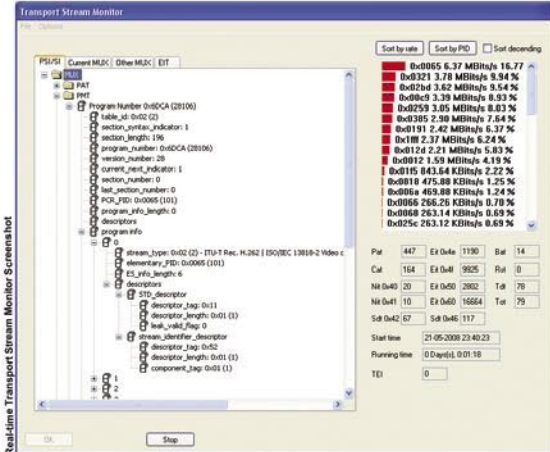
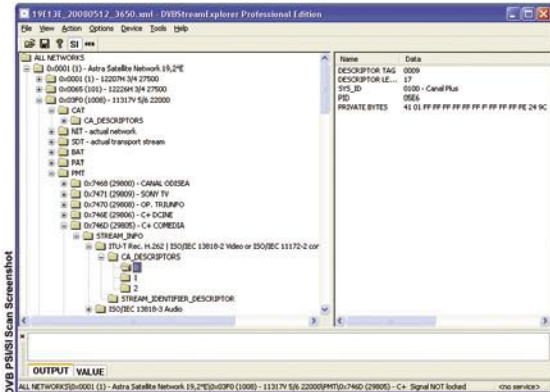
■ أعضاء شركة Aluo-Sat السيد  
Luo Shi Jun ( على اليسار ) و  
Gang ( على اليمين ) فوق السطح  
، لماذا اختار السيد Luo المكتب على  
سطح المبنى : ربما لتكون الكابلات من  
الأطباق إلي المكتب قصيرة ، و لماذا  
تم تركيب الأطباق داخل السور : إن  
استقبال الأقمار الصناعية مازال ممنوع  
للاستخدام الخاص في الصين و لهذا لا  
ترى أطباق السيد Luo من الخارج و  
في الصورة يوجد طبقين لاستقبال C  
band و طبق في الخلف متحرك .

# 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 DCSCCT 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 A/V, H.264 and AC3 elementary stream key parameters.
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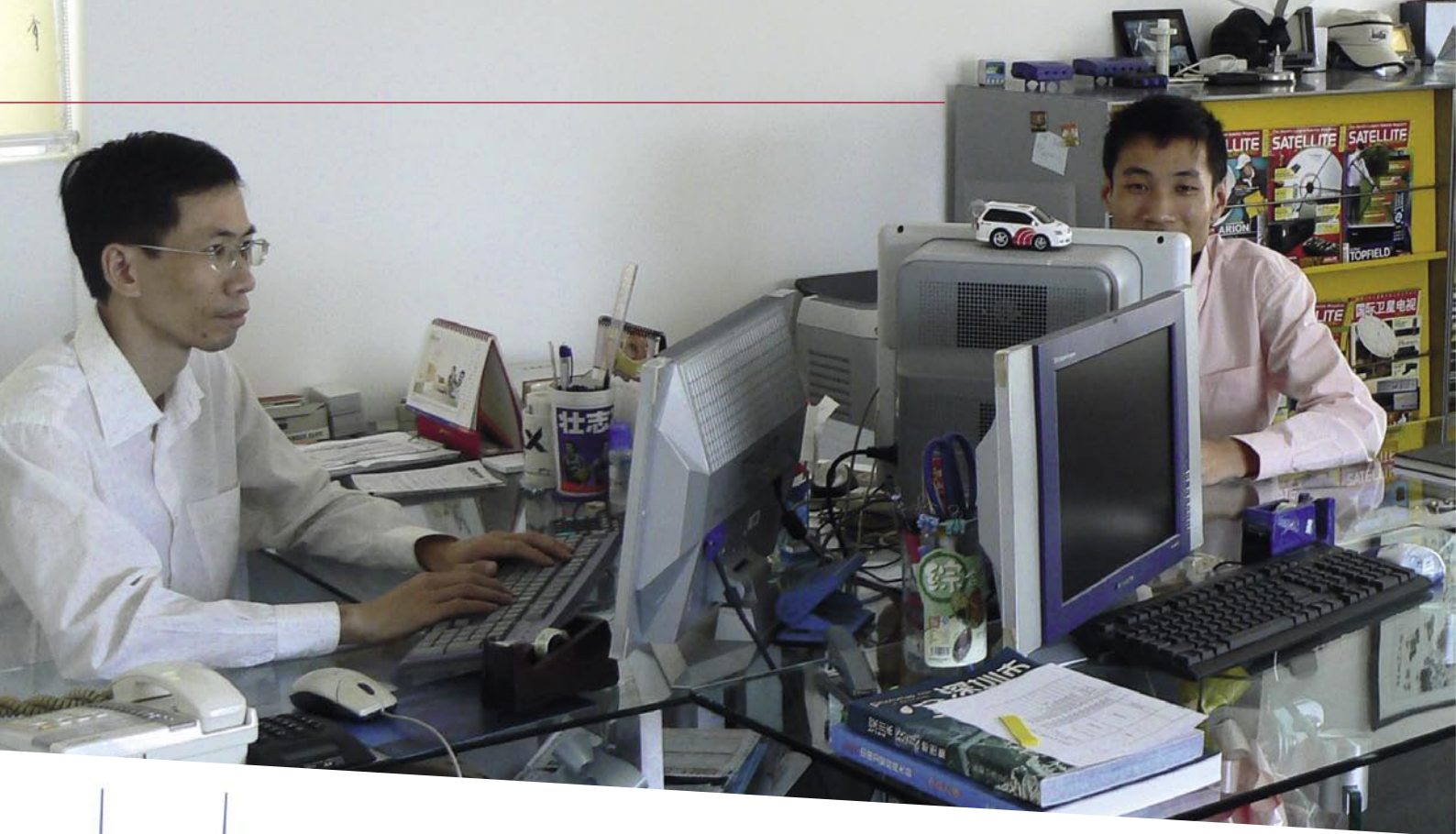


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Changhong لاستقبال الإرسال الرقمي الأرضي (DMB-TH) ، و هي قناة بثت من هونج كونج و لكن يمكن استقبالها بطريقة جيدة في ولاية Shenzhen ، " نحن نخدم المستخدم النهائي و أيضا تجارة الجملة " و لقد اخبرنا السيد Luo باستراتيجية عملة " و لكن ما يسعدني هو عملي كخبير

على نطاق UHF عند تردد 714 ميغاهيرتز من روسيا في ذلك الوقت .

و منذ تلك اللحظة تعلق في مجال استقبال الأقمار الصناعية و قام بكتابة مقالات لمجلة إلكترونية أسبوعية و كانت هذه المجلة الوحيدة في هذا المجال . و لقد زاد عدد المشاركين فيها و أخيرا في عام 1995 قام بإنشاء عمل خاص به : " قمت بتأسيس شركة Aluo-sat مع زوجتي في ولاية Shenzhen عام 1995 " و بجانب عملة كصحفي فني إلا انه عمل أيضا كاستشاري ، و الآن يعمل لدية سبعة موظفين " زوجتي تعتنى بالحسابات و عدد ثلاثة مهندسين يعنون بالطلبات الفنية و موظف مدير متجر للسلايت في هونج كونج و موظف آخر يعتنى بالمبيعات و التوزيع ."

و لقد بدأت شركة أيضا في توزيع منتجات مختارة من شركات منتجة ذات جودة عالية مثل

## TELE-satellite World

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Italian	Italiano	<a href="http://www.TELE-satellite.com/TELE-satellite-0905/ita/aluosat.pdf">www.TELE-satellite.com/TELE-satellite-0905/ita/aluosat.pdf</a>
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السيد Luo Shi Gang في مكتبة على سطح المبنى في قلب ولاية  
Shenzhen ، و لا يمكن إنكار انه موزع مجلة تيلدي ستلايت في تلك  
المنطقة .



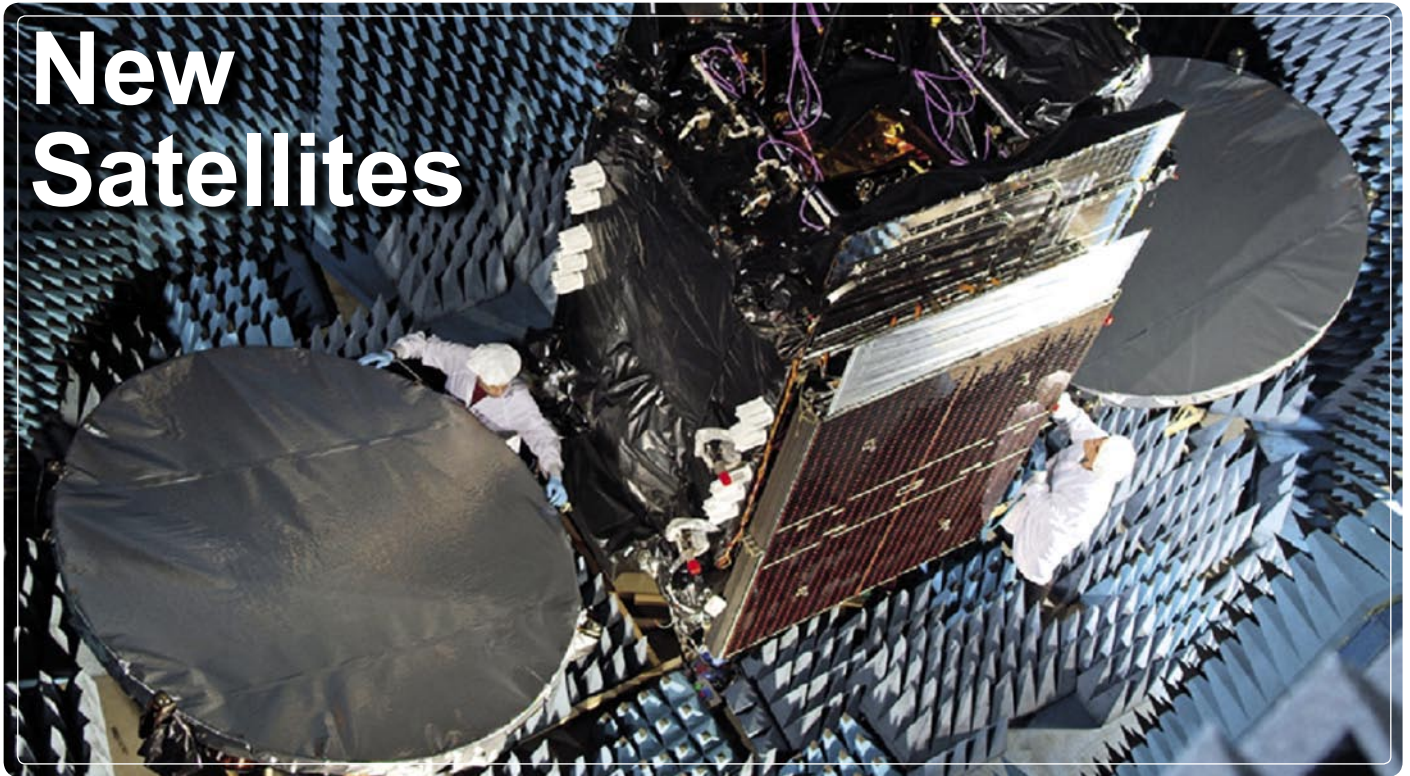
و يقوم السيد LUO بالعمل في الكثير من المناطق و المقاطع " أنا احب المساعدة  
عندما يتعلق الأمر بعمل رابطة في مجال أجهزة استقبال الأقمار الصناعية  
الصينية " .

استشاري " و يقوم السيد LUO بالسفر و حضور المعارض  
المتعلقة بمجال الستلايت و بهذا الطريقة يقوم بمقابلة  
الأشخاص المهمين و توسيع شبكة أعماله .

■ السور المرتفع للتأكد من أن الطبق مخبأ و لا  
يمكن رؤيته من الخارج .



# New Satellites



Edited by  
**Sylvain Oscul**

## EUTELSAT W2A

April-May 2009

This new EUTELSAT Satellite will be positioned at 10 EAST and replace EUTELSAT W1. This Satellite carries 46 Ku and 10 C band transponders and 1 S band. Manufactured by Alcatel and based on a 4000C4 platform, this satellite will cover Europe, North Africa and the Middle East. A second fixed beam will serve southern Africa and Indian Ocean islands. The C-band mission will provide pan-African coverage for broadband and telecommunications services.

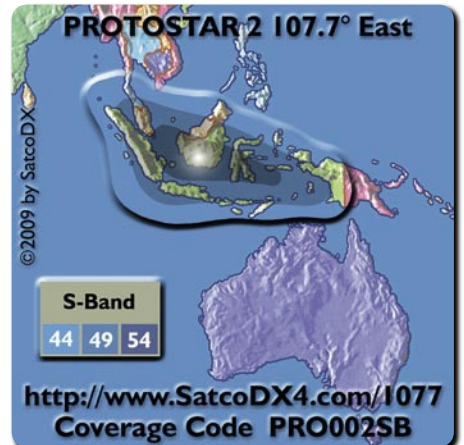
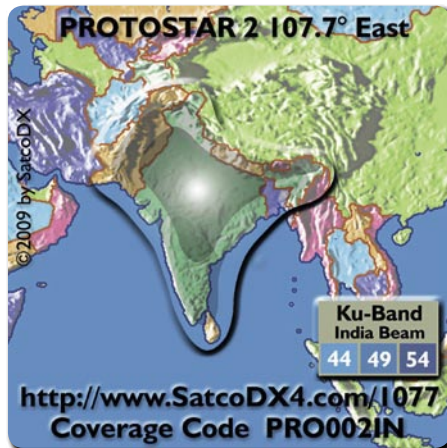
This satellite is also a special joint venture with ASTRA, The S-band (2.0 and 2.2 GHz), which represents a new frequency band for both SES and Eutelsat, provides a set of frequencies optimized for supporting a wireless distribution network for delivering video and other services to mobile devices, including phones.



## PROTOSTAR 2

May 2009

This satellite is based on a Boeing Satellite system platform called 601HP, located at 107.7 EAST, this satellite will replace CAKRAWARTA. The satellite is built with 24 KU transponders to cover Philippines, India and Indonesia, and 10 S transponders to cover Indonesia. Launched with a Proton M vehicle, the satellite will be in the air for 15 years.



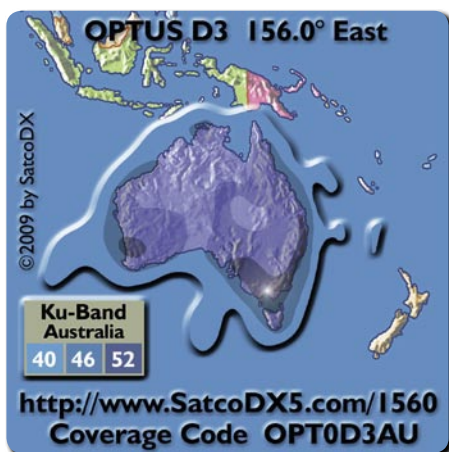




## OPTUS D3

May-June 2009

This satellite will be launched simultaneously with HOTBIRD 10, co-located at 156 EAST with OPTUS C1, this Orbital Science Corporation satellite will embed 24 Ku band transponders and cover Australia for 15 years. The satellite will provide direct TV, Internet, telephony and data transmission services for Australia and New Zealand. Orbital Sciences Corporation has constructed the Optus D3 spacecraft using the Star-2 platform.



## INTELSAT 15

June 2009

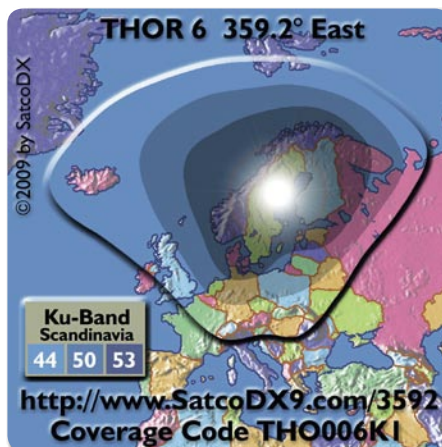
This satellite will replace INTELSAT 709 at 85.2 EAST; launched by a Zenith 3 vehicle, this satellite will embed 22 Ku-BAND Transponders (and 8 for backup). The INTELSAT 15 high power Ku-band payload will provide video and data services for the Middle East, Indian Ocean Regions and Russia. INTELSAT 15 is based on a Orbit-



al's STAR spacecraft bus. Launch with a Zenith 3 vehicle, the satellite will be on the air for 15 years.

## THOR 6

June 2009



Thor 6 is based on Thales Alenia Space Spacebus-4000B2 platform and fitted with 36 active Ku-band transponders. The satellite has a capacity of 16 transponders pointed to the European Nordic countries and 20 transponders will be positioned to serve the growing broadcasting demands within Central and Eastern Europe. THOR 6 is the final satellite in Telenor Satellite Broadcasting's replacement program for THOR 2 and THOR 3. THOR 6 will replace THOR 3, which is set to retire in 2010. The satellite will be launched on an Ariane 5 launcher from the Kourou Space Centre in French Guyana and will provide programs for the next 15 years.



## ASIASAT 5

June 2009

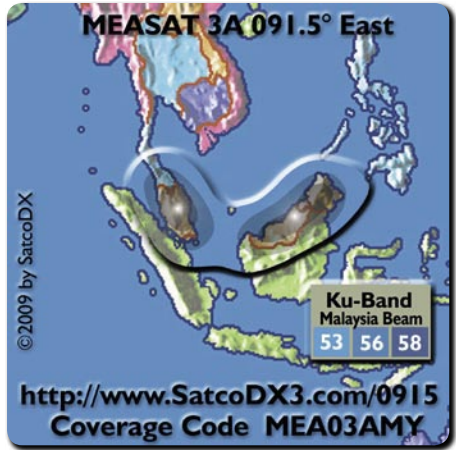
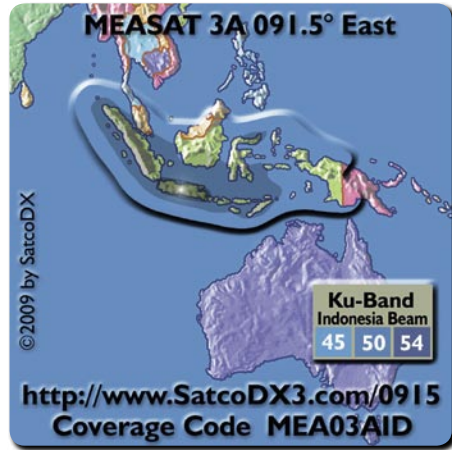
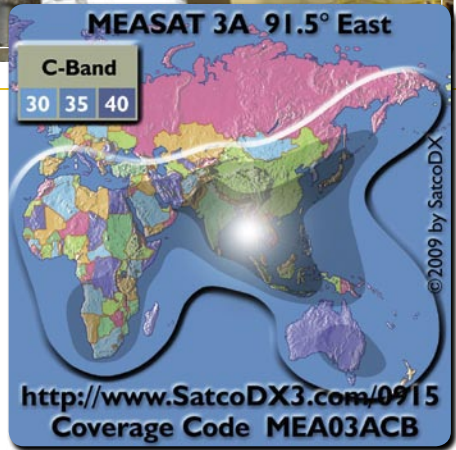
ASIASAT 5 C-band footprint will offer an extensive pan-Asian coverage and its high power Ku-band beams will focus on both East and South Asia, with a steerable beam that will cover anywhere within ASIASAT 5 geographic coverage. ASIASAT 5 has a sophisticated Ku-band inter-beam switching which provides great flexibil-

ity of usage in orbit. This Satellite will replace ASIASAT 2 at 100.5 EAST with 22 Transponders in KU Band



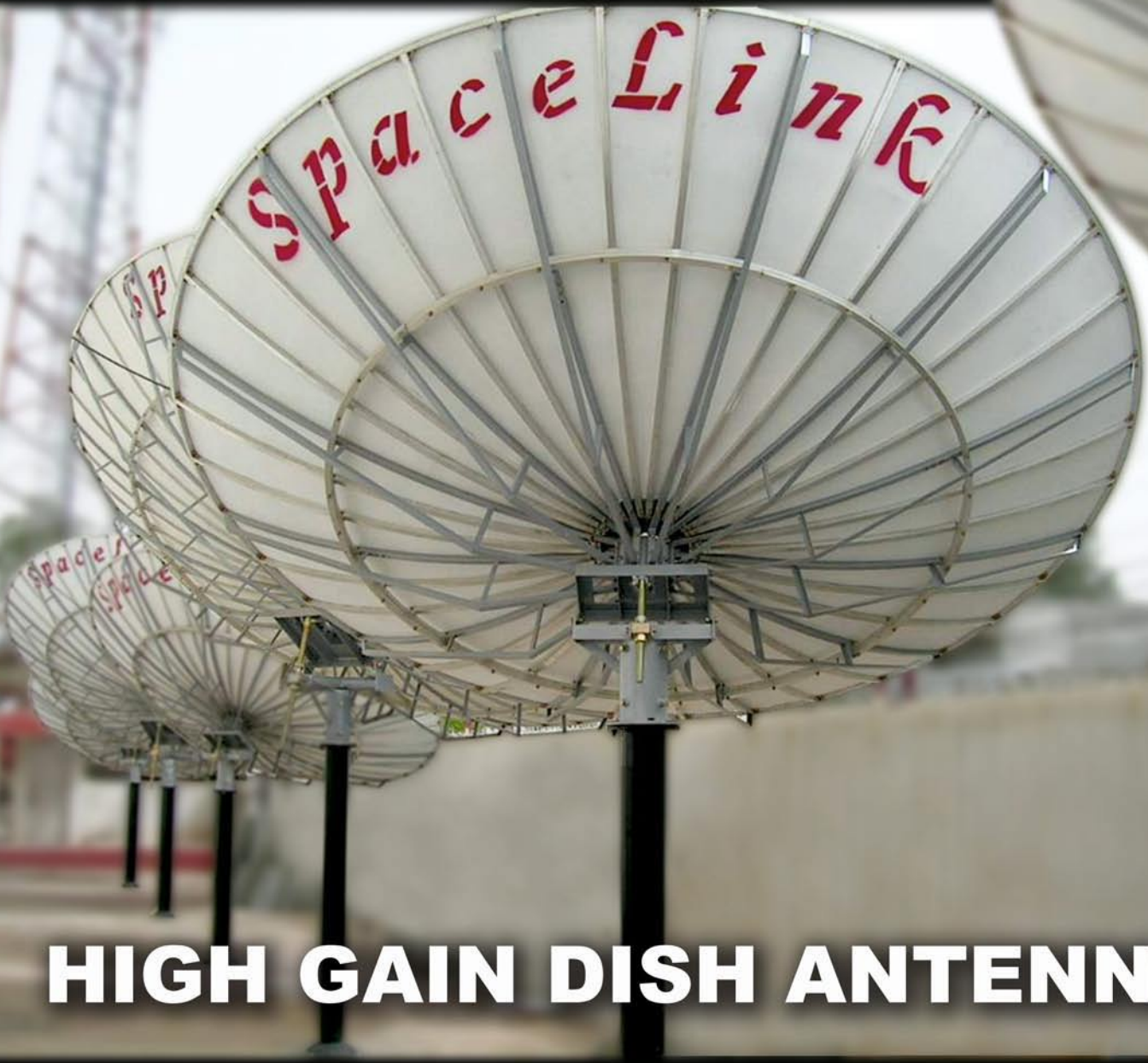
**MEASAT 3A**  
June 2009

MEASAT 3A has been designed to be co-located with MEASAT 3 at 91.5 EAST. The satellite will provide 12 high-powered C-band transponders providing coverage across a region bounded by Africa and Eastern Europe in the West, through to Japan and Australia in the East, and 12 high-powered Ku band transponders for DTH in Malaysia and Indonesia over a 15 year minimum service life. This satellite will be launched by a Zenith 3.





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Edited by  
**Branislav Pekic**

**EUROPE**

**EUROPE**

**NSS-9 SATELLITE SUCCESSFULLY LAUNCHED**

The NSS-9 satellite was successfully launched onboard an Ariane 5 ECA rocket from the European Spaceport in Kourou, French Guiana, on February 12. NSS-9 was manufactured by Orbital Sciences Corporation and is poised to be the 40th satellite in SES' global fleet. The NSS-9 spacecraft will be positioned at the orbital location of 183 degrees East, a prime connectivity slot for the Pacific Ocean Region. The spacecraft carries 44 active C-band transponders, and features three beams that can interconnect on a transponder-by-transponder basis: a global beam providing coverage of the entire earth visible from 183 degrees East; a West Hemi beam (covering Australia, Indonesia, the Philippines, Japan, China, Korea and the Pacific Islands); and an East Hemi beam (providing coverage and connectivity to the U.S., Hawaii and Polynesia).

**ASTRA 1M READY FOR OPERATION**

SES Astra has announced that its new Astra 1M satellite has been successfully deployed at its final orbital position at 19.2 degrees East and is ready for commercial operations. The satellite, which was built by EADS Astrium and launched from Baikonur, Kazakhstan, on 5 November 2008 has successfully passed all necessary in-orbit tests of the hardware and broadcasting functionalities on board. With its 36 transponders, Astra 1M will deliver DTH and HDTV services to continental Europe.

**170 MILLION HDTV EUROPEAN HOUSEHOLDS BY 2013**

According to a report from Euroconsult and NPA, currently 59 million European households are equipped with HD-enabled TV sets. That figure is set to grow to 116 million in 2010, a 51% penetration rate and explode to 220 million in 2018. Driving this adoption is the steady decline in prices for flat screens since 2004, and the imminent inclusion of HDTV capability as a standard feature in flat screens sold throughout Europe. The number of pay-TV networks in Europe offering HD almost tripled in the last two years.

**AUSTRIA**

**TELEKOM AUSTRIA TOPS 63.800 IPTV SUBSCRIBERS**

Telekom Austria ended 2008 with 63,800 subscribers for its IPTV service aonTV, compared to 10,930 one year previously. The operator sold 334,800 combo packages during the last two months of 2008, helping to slow net line loss to 98,000 during the period, compared with 250,000 one year previously. aonTV provides 63 TV channels in its basic package for €4.90, with a further 21 thematic channels available for an additional €7.90 per month.

**BOSNIA-HERZEGOVINA**

**BH TELECOM SIGNS IPTV/VOIP DEAL**

Bosnian state-owned telecommunications operator BH Telecom has signed a contract today with Slovenian vendor Smart Com for the introduction of an integrated IPTV and VoIP system. The deal will see Smart Com provide the design, delivery and

installation of equipment, as well as offer support and maintenance for a one-year period. The value of the deal is an estimated EUR 2.47 million.

**FRANCE**

**SES ASTRA AND GLOBECAST DISTRIBUTE ORANGE TV**

SES ASTRA and Globecast have signed a capacity contract with the French telecommunications operator Orange to distribute its new Orange TV offer via satellite, particularly targeting French homes with no TV coverage over ADSL. Orange TV is part of a triple play offer (TV, telephone, internet) and will be broadcast by the ASTRA satellite system from the prime orbital position 19.2 degrees East, which already serves more than five million French direct-to-home households. GlobeCast will be handling transmission of Orange TV, including digitalisation, MPEG-4 encoding, multiplexing, encryption and uplink services.

**FRENCH IPTV HOUSEHOLDS TOP 5.64 MILLION**

At the end of the third quarter 2008 there were 5.643 million subscribers to IPTV services in France, according to new figures from the French telecoms regulator ARCEP. This figure represents an increase of 1.6 million or 39% from the same period of 2007. IPTV subscribers accounted for 34.6% of the total number of ADSL subscribers in France at the end of the third quarter of last year (16.299 million), compared to 28.8% of the total (14.09 million) one year previously. France Telecom's Orange TV had around 1.5 million at the end of last September, while competitor Neuf Cegetel had around 850,000 subscribers for its Neuf TV, and rival ISP Alice, owned by the Iliad Group, had around 150,000 at the same point.

**GERMANY**

**GERMANY CLOSES 2008 WITH 536.000 IPTV SUBSCRIBERS**

The German Association for IT, Telecommunications and New media (BITKOM) has reported that the number of IPTV subscribers in the country reached 536.000 at end-2008, up from 180.000 a year earlier. Deutsche Telekom aims to double its number of IPTV subscribers to 1 million in 2009, a senior company executive told the "Focus" magazine. Deutsche Telekom accounts for over 90% of the country's IPTV subscribers, having recently announced an excess of half a million customers, while Telecom Italia subsidiary HanseNet has reported an estimated 25.000 subscribers.

**ITALY**

**TISCALI CANCELS IPTV SERVICE**

Italian broadband ISP Tiscali has shut down its ADSL-based IPTV service in Italy, with poor subscriber take-up thought to be behind the decision to pull the service. It has not revealed any plans to cancel its UK-based IPTV service, which has attracted investor interest from broadcaster and broadband provider BSkyB. However, in December it was reported that disagreements over the price of the UK unit of Cagliari-based Tiscali had caused BSkyB to withdraw from negotiations.

**RUSSIA**

**PLATFORMAHD BOOSTS CAPACITY ON EUROBIIRD 9**

Following on from the successful launch in 2008 of Platforma HD on the Eurobird 9 satellite of Eutelsat Communications, Russian pay-TV operator National Satellite Company is complementing and significantly expanding its offer with a new package called Platforma DV of 20 Standard Digital

channels. Platforma DV launched on February 1 via a second transponder leased by National Satellite Company on Eutelsat's Eurobird 9 satellite which provides extensive reach to satellite homes across the European territory of Russia. Platforma DV costs subscribers R900 (EUR20) a year, while subscribers taking both SD and HD packages will pay R4,200 (EUR93) a year.

**ARIANE TO LAUNCH YAMAL SATELLITES**

Arianespace has been chosen to launch the two communications satellites, Yamal-401 and Yamal-402 within the scope of a contract between Thales Alenia Space and Russian operator Gazprom. Thales Alenia Space will build these two satellites using Spacebus 4000C3 platforms. They will be orbited by Ariane 5 ECA launchers in the second half of 2011. Yamal-401 will be equipped with 36 Ku-band and 17 C-band transponders and will be positioned at 90 degrees East. For its part, the Yamal-402 will have 46 Ku-band transponders and be positioned at 55 degrees East.

**EXPRESS SATELLITES SUCCESSFULLY LAUNCHED**

The Express AM-44 and Express MD-1 satellites were successfully launched in February by a Proton-M rocket from the Baikonour Cosmodrome in Kazakhstan. The Express-AM-44 satellite is designed to provide digital TV and radio broadcasting, telephony, data transmission channels, videoconferencing services and Internet access. It carries 16 active transponders in Ku-band, 10 in C-band, and 1 in L-band and will be positioned at 11° West. The Express-MD-1 satellite is designed to provide TV, voice and data transmission and radio broadcasting services over an area spanning Russia and most of the CIS countries from 53° East.

**SPAIN**

**TV3 and IB3 STUDY JOINT IPTV CHANNEL**

Spanish TV channels IB3 (available in the Balearic Islands) and TV3 (the public television channel of the Catalan region) have formed an agreement to look into the viability of partnering on delivering a joint channel for IPTV services in the country, according to local news portal DiariDeGirona. The channel would carry content from both organisations. A joint committee made up of representatives from both companies is to take responsibility for moving the project forward.

**TURKEY**

**MEDIA REGULATOR PREPARES GROUND FOR IPTV**

Turkey's Radio and Television Supreme Council (RTÜK) has prepared the legal groundwork to regulate the introduction of new broadcasting technologies, including IPTV, DVB-H, DVB-T and DVB-T2. After a meeting in January, RTÜK said that it would give permission for test transmissions by prospective broadcasters wishing to invest in IPTV provided that they comply with certain requirements. Following this decision, prospective IPTV broadcasters should apply to RTÜK for permission to begin testing. Having satisfied preliminary requirements, applicants will be given permission by RTÜK to start their test broadcasts for a period of one year.

**UNITED KINGDOM**

**BBC, ITV AND BT TO DEVELOP IPTV STANDARD**

UK terrestrial broadcasters BBC and ITV have teamed up with operator BT to develop and on-demand service that would for the first time in the U.K. offer free-to-air broadband content from TV sets. The three parties have signed a memorandum of understanding and

invited other U.K. public service broadcasters and ISPs to join the project, which could be as revolutionary as the hugely successful U.K. digital terrestrial platform Freeview. The new service would require a set-top box connected to an Ethernet connection enabling audiences to access shows via broadband on their TV sets.

**VIRGIN MEDIA TO LAUNCH FOUR HDTV CHANNELS**

Cable company Virgin Media has launched a 50 Mbps broadband service in the UK and announced plans to launch four high-definition channels in 2009. The fibre optic cable network will give UK customers nearly nine times the average headline broadband speed. CEO Neil Berkett said Virgin Media would launch four new HD channels in March.

**AVANTI TO LAUNCH SATELLITE**

Avanti Communications, which plans to launch its first satellite in the final quarter of this year, has recruited 28 wholesale customers around Europe who will sell on broadband services. According to chairman, John Brackenbury, the company hopes to benefit from government initiatives in both the UK and Europe, where the European Commission last week announced further funding to help the 30 per cent of EU homes that have no access to high speed internet services. Avanti already supplies some customers via leased satellite capacity.

**UK LEADS HDTV TAKE-UP**

In Europe the UK leads HDTV take-up largely as a result of Sky's 800,000 HD subscribers. Freesat, the free-to-air satellite service offers a much smaller choice of HD programming with BBC HD and ITV HD, but has around 200,000 users which are growing rapidly. Virgin Media with around 400,000 subscribers to its V+ box, with access to the BBC HD channel takes the total in the UK to around 1.5 million.

**HD TERRESTRIAL TESTS LAUNCH IN LONDON**

HD test transmissions launched in February via London's Crystal Palace transmitter, equipped with a modulator using the new DVB-T2 transmission standard which was provided by Enensys. Last September, the BBC successfully performed test transmissions in the UK to receive high def pictures compliant to the DVB-T2 standard using a real-time demodulator.

**NORTH AMERICA**

**CANADA**

**SASKTEL TO DEPLOY MARINER'S IPTV PLATFORM**

SaskTel is commercially deploying xVu. Mariner's IPTV Service Assurance platform. xVu will be deployed to SaskTel's over 70,000 IPTV subscribers to provide continuous monitoring and real time feedback of customer's Quality of Experience. The platform will allow SaskTel to proactively manage its IPTV service quality, and to identify and resolve issues often before the customer even realizes there is a problem.

**BELL TV OFFERS NEW BOXES FOR HD SUBSCRIBERS**

Bell TV subscribers with a first generation HD DTH satellite receiver were sent a letter this week notifying them their old ExpressVu 6000 HD receivers would no longer work after April 1. Bell has offered to exchange the old HD receivers with the company's new model 6131 HD receiver free of charge. In April, Bell will roll out a new signal modulation scheme called 8PSK which will allow Bell TV to transmit more HD satellite signals without using more bandwidth.

**UNITED STATES**

**RAINBOW DROPS VOOM HD SERVICE**

Cable operator Rainbow Media Holdings is dropping the Voom-branded suite of 15 HD channels, after losing domestic carriage on the satellite platform Dish Network. Dish dropped the Voom channels in May 2007, reportedly after a contract dispute, leaving just Rainbow parent Cablevision Systems as the channels' only US platform. Rainbow has since filed a lawsuit against Dish for breach of contract but has now axed the channels while it focuses on the US\$1 billion legal action.

**ZCOM NETWORKS TO INTEGRATE IPTV WITH SATELLITE**

In order to link its IPTV Broadcasting with Satellite, Zcom Networks has commenced discussion with Globecast for the transport of signals via satellite and fiber. Harnessing the power of IP, Zcom will capitalize on its broadcast expertise from program origination to play out and from assembling to reformatting and encoding utilizing the broadband IP connection.

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**DISH NETWORK INTRODUCES SLINGBOX TECHNOLOGY**

Satellite TV provider Dish Network Corp unveiled the new Vip 922 DVR box in January that allows people watch to their favorite TV shows on any Internet-enabled device. The Slingbox is a device that lets people watch cable and satellite programming from a computer or mobile phone with a broadband Internet connection. In addition to TV sets, people can watch their recorded TV programs and sports events on their desktops at home, their laptops on the road, their smart phones, iPhones, Blackberry, and more.

**NEULION LAUNCHES NEW IPTV HD BOX**

NeuLion has introduced the IPTV HD TV Box delivering HD programming in 720p and 1080i, providing adaptive streaming in HD without buffering. NeuLion now offers HD streaming services of live TV channels, live events and VOD over the Internet directly to the television. NeuLion's existing IPTV HD PC browser service provides HD quality programming of live channels, sports, entertainment events and VOD in up to a 1080i format to its Network Partners across the globe.

**VERIZON FIOS WITH 1.9 MILLION IPTV SUBSCRIBERS**

Verizon FiOS TV customers now have a total of 105 HD channels available, and over 1,400 HD VOD titles, which are offered each month. Verizon FiOS is available for sale to more than 8.2 million homes and small businesses in 14 states. The company added 303,000 FiOS TV subscribers in the fourth quarter and almost 1 million in 2008, bringing the total to 1.9 million out of 9.2 million homes that

have access to the service. In contrast, AT&T is hoping to have 1 million subscribers to its rival IPTV offering, U-verse, by the end of the year.

**TIME WARNER WITH 100 HD CHANNEL IN NY**

Time Warner Cable now offers 100 High-Definition channels in New York City. The HD lineup in New York includes an HD Movies On Demand feature and StartOver, which enables customers to restart a program in progress from the beginning. Time Warner offers roughly 60 HD channels free with its digital cable package. The remaining channels must be purchased with premium movie channels or other programming packages.

**17 MILLION HDTV HOUSEHOLDS DO NOT WATCH HD**

17 million households with HDTVs installed do not watch HD programming, according to a new study from research organization In-Stat. Last year, there were 39 million households in the United States that owned HDTVs, of which 22 million are considered HDTV households or those owning HD-capable sets and receiving and watching HD programming. According to In-Stat, last year saw a 40 percent uptake in the number of households choosing to receive HD programming.

**SPACE SYSTEMS/LORAL TO BUILD INTELSAT 17 SATELLITE**

Space Systems/Loral (SS/L) has finalized a previously announced satellite contract award to provide a new spacecraft to Intelsat. Intelsat 17 is a C- and Ku-band spacecraft which is to be available for launch in 2010 and will be located at 66 degrees East, where it will replace Intelsat 704.

**LATIN AMERICA**

**ARGENTINA**

**TELEFONICA LAUNCHES VOD TESTS**

Telefonica Argentina has started testing a VOD system over the IPTV network with 100 clients in Buenos Aires. It includes movies, children's programmes, weather information and karaoke. Clients are able to access a content library on either their computer or TV set, via the installation of a modem and a set-top box. A launch date has yet to be named.

**TELPIN LAUNCHES IPTV SERVICE**

Telecommunications operator Cooperativa de Telefonos de Pinamar (Telpin) now offers IPTV services in the country. Telpin is operating an internet television portal called Telpin TV, offering VOD content such as local news, music and general interest shows. Although telecom operators are currently prohibited from entering the pay-TV sector, they can launch VOD services until the legislation is modified.

**COLOMBIA**

**UNE ENDS 2008 WITH 30.000 IPTV SUBSCRIBERS**

Telecommunications operator UNE EPM ended 2008 with 30.000 subscribers for its IPTV service, one year after launch. It is now aiming to reach around 150.000 by the end of this year. Une is using Orca Interactive middleware, Verimatrix CAS and set-top boxes from Sagem, integrated by local supplier Grupo Unión. UNE is now focused on expanding the service into other regions of



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## NETHERLAND ANTILLES

### UTS CURACAO DELIVERS MORE HD WITH RGB NETWORKS

United Telecommunication Services (UTS), the parent company of TDS, the wireless cable service provider servicing the Dutch islands of Curaçao and Bonaire, has deployed RGB's Broadcast Network Processor (BNP) as a key element of its next-generation video delivery network. Working with Divitel, RGB's system integration partner in the Netherlands, UTS has migrated its TDS system to a fully digital, IP-based platform. RGB's BNP, offering high density grooming, statistical multiplexing and transrating, enables UTS to offer their subscribers in Curaçao and Bonaire a number of new services, including significantly more high definition (HD) channels at extremely high quality.

## URUGUAY

### ANTEL TO LAUNCH IPTV

Telecommunications operator Antel will launch IPTV services during the first quarter of 2009, according to local media reports. Antel's vice president, Gonzalo Perera, said the company has been working on the launch and already has the necessary equipment to deliver the service, which would be the country's first IPTV offering.

## ASIA

### MIDDLE EAST SATELLITE REVENUES TOP US\$ 752 MILLION

The Middle East and North Africa (MENA) has become one of the most dynamic emerging

markets for satellite and broadcast use, according to a recent study by Euroconsult and The London Satellite Exchange. Transponder demand throughout MENA has risen 12 per cent per year for the last five years. Commercial satellite-lease revenues have grown by 17 per cent per year on average since 2003, reaching US\$ 752 million in 2007. The report states that 42 per cent of Ku-band satellite usage within the MENA region was from TV and radio broadcasts, while the remainder was made up from voice and data traffic.

### JAPAN HDTV LEADER IN ASIA

Of the 50 million total TV households in Japan, almost 17 million have HDTV, according to a study by IMS Research. In contrast, there are 400 million total TV households in China, but HDTV is only just beginning to be rolled out. Japan's uptake of HDTV has been driven by Japan Broadcasting Corp. (NHK), the country's sole public broadcaster. NHK has introduced HD via free satellite, thus creating a demand for the programming, although NHK also delivers digital terrestrial with additional HD programming as a pay service. China's uptake of HDTV may be driven more by cable. The country's primary video provider is China Central TV (CCTV), the state-owned broadcaster, which is slowly transitioning from analog to digital terrestrial. There is no direct broadcast satellite (DBS) operator in the country.

### SMARTSAT FIRST PRIVATE SATELLITE COMPANY

An alliance of Jordanian and Kuwaiti companies announced in February the launch of a USD 500 million firm, which will be the MENA region's first private company specialised in the satellite industry. The new UAE-based company has been named SmartSat and will be headquartered in Dubai Studio City. SmartSat will offer

its new services by launching the Arab World's first private satellite that will serve the MENA region. The company will thus contribute in the development of the quality of services for the region's internet service providers (ISPs), GSM providers, broadband technology solutions providers, television stations, and ministries of communication, military agencies and companies dealing with data systems among others.

### ASTRIUM AND THALES TO DELIVER NEW ARABSAT SATELLITES

Arabsat has selected the consortium of Astrium and Thales Alenia Space to build and deliver in orbit two new satellites, Arabsat 5C and Arabsat 6B. Astrium will supply the Eurostar E3000 platforms and integrate the satellites. Thales Alenia Space will design and build the communications payloads. Arabsat-5C will feature 26 active transponders in C-band and 12 in Ka-band at the position 20°E. Arabsat-6B will be co-located with the rest of Arabsat's BADR constellation at its 26° East "hot-spot" and will feature 36 active transponders in Ku-band.

## CHINA

### ZHUJIANG DIGITAL OPTS FOR MICROSOFT MEDIAROOM

Guangzhou Digital Media Group has formally launched Zhujiang Digital, a connected TV service powered by the Microsoft Mediaroom IPTV platform. This is the first Mediaroom-enabled TV service to launch in China and the first time Mediaroom has been delivered over a cable network anywhere in the world. The new service, available to residents in the Guangzhou region of China, also includes the first deployment of the Mediaroom Anytime feature set, which will let subscribers access previously

aired shows from their Interactive Program Guide and immediately restart currently airing programs without any preplanning or prior DVR.

**IPTV SUBSCRIBERS UP 100 PERCENT IN 2008**

According to CCID Consulting, China's number of IPTV subscribers grew rapidly, up 100% year-on-year, thanks mostly to China Telecom's vigorous promotion. Because of Shanghai Telecom's free promotion, its number of subscribers saw rapid growth.

**INDIA**

**BHARTI AIRTEL LAUNCHES IPTV SERVICES**

Bharti Airtel has become the first private operator to launch its IPTV services under the brand—Airtel Digital Television. The one-time activation fee is Rs 3999, with two packages available: Rs 999 per month for 135 channels, a broadband connection and a landline connection, while the second package costs Rs 599 and comes bundled with 117 channels and a broadband connection.

**BSNL ANNOUNCES INTERACTIVE TV ON IPTV**

BSNL has announced the nation-wide launch of interactive, personalized TV and video services for its customers in collaboration with Smart Dig. These services, which would be offered via the IPTV platform or cable TV on broadband, would enable users to watch programmes as per their convenience from over 140 TV channels. BSNL will also offer customers an extensive movie library with Hollywood and Bollywood titles at no extra cost, the company said. BSNL has around 38 million landline users and hopes that one-fourth of them will subscribe to the IPTV platform.

**INDONESIA**

**RUSSIAN COMPANY TO BUILD TELKOM 3 SATELLITE**

PT Telekomunikasi Indonesia, is close to signing a deal with a Russian firm on a third satellite project, called Telkom 3, according to local media reports. The Russian company Information Satellite Systems, or Reshetnev, had won the tender to build and launch the Telkom 3 satellite in mid-2011, at an undisclosed cost of less than US\$ 200 million. The new satellite, which will have 18 transponders, will replace the Telkom 2 satellite and be used for the TelkomVision pay-TV service, data and Internet transmissions, and applications for earth observation.

**MOROCCO**

**MAROC TELECOM WITH 10,000 IPTV SUBSCRIBERS**

Maroc Telecom ended 2008 with 10,000 subscribers for its IPTV services, while its fixed-line subscriber base fell 2.8% year-on-year to reach 1.299 million lines. The number of fixed Internet access lines totalled 482,000 at the end of last year, up 1.3% from end-2007. Maroc Telecom introduced its IPTV service in August 2006, based on a platform supplied by Huawei.

**THE PHILIPPINES**

**PLDT TO LAUNCH DTH SERVICE**

The Philippine Long Distance Telephone (PLDT) Group has nearly completed the preparations for the forthcoming launch of its DTH satellite-TV

service. The group has allocated about P700 million to jumpstart its DTH satellite TV project in the country. It has tapped SES New Skies to provide satellite transponders on the NSS-11 satellite. The DTH service will initially offer 24 channels.

**SOUTH KOREA**

**LG DACOM LAUNCHES IPTV SERVICE**

LG Dacom commercially launched its IPTV service, myLGtv, in Seoul and the surrounding area in January. The service seeks to differentiate itself from its bigger rivals using high video quality and user-friendly interfaces. Viewers are able to order products on home shopping channels and will be able to search the internet while watching live television. LG Dacom offers 24 IPTV channels, including four terrestrial channels such as KBS, MBC, SBS and EBS, and plans to increase the number to 60 by the end of March. myLGtv offers English and Korean subtitles for movies, documentaries and children's programs on its VOD channel. Viewers are also able to adjust the playback speed of videos.

**SK BROADBAND SEEKS IPTV LEADERSHIP SPOT**

SK Broadband is seeking to reclaim its leadership in the IPTV market after it launched commercial IPTV services in January. SK introduced preliminary IPTV services in 2006, but ceded the top spot to rival KT. SK Telecom acquired the No. 2 fixed line provider SK Broadband last year, giving the firm much needed clout. To help sell its IPTV service, SK Broadband has bundled its IPTV other fixed-line services with SK Telecom's mobile services to improve price competitiveness. SK Broadband will also expand its customer choice

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by offering content owned by SK Group, which has several media affiliates. KT's IPTV service, dubbed Mega TV, has 800.000 subscribers, while SK Broadband's Broad & TV has 780.000 and LG Dacom's myLgtv has 65.000.

## TAIWAN

### CHT MOD ENDS 2008 WITH 600.000 IPTV SUBSCRIBERS

Taiwan's largest telecommunications company, Chunghwa Telecom (CHT), closed 2008 with over 600.000 subscribers for its IPTV service, which launched in 2005. CHT's MOD is provided via its ADSL network, subscribers are provided with rental set-top boxes to select and receive programs. In addition to broadcast TV channels, CHT MOD offers on-demand services for movies, TV series and anime titles.

## VIETNAM

### VTC LAUNCHES HDTV CHANNELS VIA SATELLITE

The Viet Nam Multimedia Corporation (VTC) launched the second generation digital television receiver and the first ever HDTV channels in Vietnam during January. All channels are broadcast through the national satellite VINASAT-1, which was launched in April 2008. The new product services, which were researched and produced by VTC, will serve the demands of Vietnamese people nationwide with 40 special digital television channels, including 8-HDTV channels and 32 SDTV channels. The satellite's footprint covers Viet Nam, Laos, East Asia, India and Australia. HDTV receivers are now sold on the domestic market for over VND3.5 million (US\$ 205.8) each.

## AUSTRALIA & PACIFIC

### AUSTRALIA

#### MYKP TO TRIAL IPTV SERVICES

Sydney-based ISP myKP plans to start trialling IPTV services, according to local media reports, quoting company director George Kaloudis. No planned start date was given for the trials, but Kaloudis added that the ISP is "in discussions with several international content suppliers working through licensing agreements". The company is expected to focus particularly on rural areas which lack a variety of media outlets.

### NEW ZEALAND

#### SKY SELLS 54.000 HD BOXES IN 2008

Sky Television surpassed its sales target for the MySky HDi high definition satellite TV receivers. Although the company projected to sell around 40.000 units it ended 2008 by selling 54.000, putting it neck and neck with free, state-funded rival Freeview, which boasts sales of just over 52.500. As a result, Sky is well on track to reach the 80,000 first year sales projection, if not exceed it. The company attributes the success of the HD launch to the penetration of HD capable sets, competition with Freeview raising HD awareness and the recession keeping people at home.

## AFRICA

### INTELSAT TO LAUNCH NEW DAWN IN 2010

A US\$ 250 million telecommunications satellite dedicated to supplying telecommunications services to Africa is to be built over the next two years and launched in the fourth quarter of 2010. Over half of the capacity of the new satellite has already been sold to major clients, including Gateway Communications, Gilat Satcom, Vodacom and Zain Nigeria. Named New Dawn, the satellite will be operated by Intelsat in a joint venture with a consortium of African investors, led by South Africa's Convergence Partners and Altirah Telecoms. New Dawn will be equipped with 52 equivalent 36 MHz transponder units, divided into 28 C-Band and 24 Ku-Band units. Africa's first dedicated telecommunications satellite, Nigerian owned and operated NigComSat-1 in November 2008 after only 22 months in orbit.

## WORLD

### HDTV INTEROPERABILITY TESTS TO START IN JUNE

The World Broadcasting Unions International Satellite Operations Group (WBU-ISOG) and 11 vendors of HDTV MPEG-4 decoders/encoders have agreed to begin interoperability testing to ensure that HD video feeds are transmitted seamlessly. Formal tests will begin on 8 June 2009 and will be conducted by Telesat in Canada. The 11 vendors are ATEME, Comtech TV, Evertz Microsystems, Fujitsu, Harmonic, International DataCasting, NTT Electronics Corporation, Scopus Video Networks, Sencore, Tandberg Television and Thomson.



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<http://www.nanoxx.info>

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- NanoXX 9400 (Satellite Receiver)
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- NanoXX 9500HD-C (HDTV USB-PVR Cable-Rec.)
- NanoXX 9600IP (IP-PVR Sat.-Receiver)
- NanoXX 9800HD (Twin-HDTV USB-PVR Sat.-Rec.)

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# Exhibition Preview

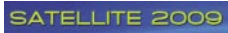
- **21 - 23 March: CCBN 2009**

The 17th China Content Broadcasting Network Exhibition  
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[www.ccbn.tv](http://www.ccbn.tv)



- **25 - 27 March 2009: Satellite 2009**

Exhibition for Satellite Enabled Communication  
Walter E. Washington Convention Center, Washington, USA  
[www.satellite2009.com](http://www.satellite2009.com)



- **25 - 27 May 2009: MECOM 2009**

Middle East Communications Exhibition, Forum, TV  
Abu Dhabi National Exhibition Centre, Abu Dhabi, UAE  
[www.mecomexpo.com](http://www.mecomexpo.com)



- **26 - 28 May 2009: ANGACABLE 2009**

Tradefair for Cable, Broadband and Satellite  
Koelnmesse, Cologne, Germany  
[www.angacable.com](http://www.angacable.com)



- **16 - 19 June 2009: CommunicAsia 2009**

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- **26 - 28 August 2009: SET 2009**

18th Broadcast & Cable International Fair  
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## TELE-satellite Deadlines

### Editorial Deadlines, Magazine Publishing Dates

<i>Number</i>	<i>Issue</i>	<i>Deadline</i>	<i>Hardcopies</i>	<i>Available Online</i>
#211	06/2009	3 April 2009	15 May 2009	29 May 2009
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#213	10/2009	7 August 2009	18 September 2009	2 October 2009
#214	12/2009	2 October 2009	13 November 2009	18 December 2009
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● 11.449 H SuperSport 2 27500	● 11.596 H EVENTS 30000	● 11.534 H TRACE 30000	● 11.797 H PREMIERE KRIMI 27500	● 12.012 V A LA CARTE 11 27500	● 12.574 H Radio Veronica 22000	● 12.110 H MOR Sachsen 27500
● 11.449 H SuperSport 3 27500	● 11.596 H EXTREME SPORTS 30000	● 11.534 H TV 5 30000	● 11.817 V C CINEMA EMOTION 27500	● 12.012 V CINE+ 27500	● 12.574 H RadioGold 22000	● 12.110 H MOR Thüringen 27500
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● 11.449 H TVSH 27500	● 11.596 H KANAL AUSTRAL 30000	● 11.575 H BBC WORLD 30000	● 11.817 V I TELE 27500	● 12.031 H BIG BROTHER 27500	● 12.574 H RNW2 22000	● 12.110 H NDR FS NDS 27500
<b>East Africa</b>	● 11.596 H LCI 30000	● 11.575 H CANAL+ FAMILY 30000	● 11.817 V JIMMY 27500	● 12.031 H BLUE MOVIE 27500	● 12.574 H RNW3 22000	● 12.110 H NDR FS NDS 27500
<b>EUTELSAT W2</b>	● 11.596 H M6 Music Black 30000	● 11.575 H CUISINE TV 30000	● 11.817 V LA CHAINE METEO 27500	● 12.031 H MGM 27500	● 12.574 H Sky Radio 22000	● 12.110 H rbb Berlin 27500
<b>EU2E1</b>	● 11.596 H M6 Music Hits 30000	● 11.575 H DISNEY CINEMAGIC 30000	● 11.817 V PARIS PREMIERE 27500	● 12.031 H SCI FI 27500	● 12.694 H WDR Aachen 22000	● 12.110 H rbb Brandenburg 27500
<b>EU702/E2</b>	● 11.596 H NATIONAL GEO 30000	● 11.575 H EURONEWS 30000	● 11.817 V SEASONS 27500	● 12.031 H PREMIERE DIREKT 27500	● 12.694 H WDR Bonn 22000	● 12.110 H SWR Fernsehen RP 27500
<b>EUTELSAT W2, 01.6° East</b>	● 11.596 H TV Odyssey 30000	● 11.575 H GAME ONE 30000	● 11.817 V SPORT+ 27500	● 12.305 H Animal Planet 27500	● 12.694 H WDR Duisburg 22000	● 12.110 H ARD-Data-2 27500
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	● 11.596 H TFS 30000	● 11.575 H PLANETE NO LIMIT 30000	● 11.876 H BOOMERANG (a/P) 27500	● 12.305 H NOVA SPORT 27500	● 12.695 H USHUAIA TV HD 22000	● 12.129 V A LA CARTE 2 27500
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	● 11.596 H TRS Star 30000	● 11.575 H TEST 30000	● 11.876 H DISNEY PLAYHOUSE 27500	● 12.305 H Jettix/Atix Max 27500	● 11.778 V Boomerang 27500	● 12.129 V A LA CARTE 4 27500
	● 11.596 H TRANCE TROPICAL 30000	● 11.575 H TEVA 30000	● 11.876 H DISNEY TOON (P) 27500	● 12.305 H JimJam 27500	● 11.778 H Cartoon Network 27500	● 12.129 V A LA CARTE 5 27500
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	● 11.596 H Wdr Music 30000	● 11.575 H XFL 30000	● 11.876 H ROMANCE TV 27500	● 12.305 H Zone Reality 27500	● 11.778 V VOX 27500	● 12.129 V A LA CARTE 8 27500
	● 11.596 H ZEE CINEMA 30000	● 11.575 H (Empty) 30000	● 11.876 H STAR XL LIVE 27500	● 12.305 H CT1 27500	● 11.778 H sportdigital.tv 27500	● 12.129 V A LA CARTE 9 27500
	● 11.596 H ZEE TV 30000		● 11.876 H TCM (a/P) 27500	● 12.305 H CT2 27500	● 11.778 H sportdigital.tv 27500	● 12.129 V A LA CARTE 5 27500
	● 11.596 H Europe 1 30000		● 11.895 H CANAL XL LIVE 27500	● 12.383 H G14 Sport 27500	● 11.836 H Bayerisches FS Nord 27500	● 12.149 H HD 4 27500
	● 11.596 H Wdr Music 30000		● 11.895 H CANAL XL LIVE 27500	● 12.383 H EuropaSport 2 27500	● 11.836 H Bayerisches FS Süd 27500	● 12.149 H PPH 27500
	● 11.596 H Nostalgie 30000		● 11.895 H M6 27500	● 12.383 H FilmZoo 27500	● 11.836 H Das Erste 27500	● 12.149 H PREMIERE AUSTRIA 27500
	● 11.596 H Radio Classique 30000		● 11.895 H MCM 27500	● 12.383 H Novuz Cinema 27500	● 11.836 H Das Erste 27500	● 12.149 H Alpenglöhler TVX 27500
	● 11.596 H Radio Plus 30000		● 11.895 V MCM POP 27500	● 12.383 H Prima TV 27500	● 11.836 H hr-fernsehen 27500	● 12.149 H GSD Channel 27500
	● 11.596 H Radio Reunion 30000		● 11.895 V MCM TOP 27500	● 12.383 H TV Barandov 27500	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H HOPE Channel deutsch 27500
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	● 11.596 H RTA Gasy Radio 30000		● 11.895 V TFI 27500	● 12.383 H TV Markiza 27500	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.596 H RTL 30000		● 11.895 V VIRGIN 17 27500	● 12.383 H TV Nova 27500	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.596 H Sport O FM 30000		● 11.934 V CANAL J 27500	● 12.383 H XXX Xtreme 27500	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.596 H Top FM 30000		● 11.934 V CUISINE TV 27500	● 12.383 H CT4 27500	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.596 H MIM Mayotte 30000		● 11.934 V EUROSPORT 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.596 H RCF 30000		● 11.739 V MTV Base 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.596 H CANAL+ 30000		● 11.739 V MTV Hits 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.596 H CANAL+ CINEMA 30000		● 11.739 V MTV Base 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.596 H CANAL+ SPORT 30000		● 11.739 V MTV Dance 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.596 H CINEMA EMOTION 30000		● 11.739 V MTV Hits 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.596 H CINEMA PRISON 30000		● 11.739 V MTV Base 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.596 H CINEMA PREMIER 30000		● 11.739 V MTV Dance 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.596 H H Serie Club 30000		● 11.739 V MTV Hits 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.596 H STAR ACB 29950		● 11.739 V MTV Base 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.486 H SuperSport 3 29950		● 11.739 V MTV Dance 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.486 H TeleReunion 29950		● 11.739 V MTV Hits 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.486 H Tempo 29950		● 11.739 V MTV Base 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.486 H Tewa 29950		● 11.739 V MTV Dance 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.486 H TFS 29950		● 11.739 V MTV Hits 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.486 H Cherie FM 29950		● 11.739 V MTV Base 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.486 H EXO FM 29950		● 11.739 V MTV Dance 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.486 H Festival 29950		● 11.739 V MTV Hits 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.486 H KOJ 29950		● 11.739 V MTV Base 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.486 H Kreol FM 29950		● 11.739 V MTV Dance 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.486 H NRJ Reunion 29950		● 11.739 V MTV Hits 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.486 H Radio One 29950		● 11.739 V MTV Base 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.486 H RER 29950		● 11.739 V MTV Dance 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.575 V + DE SPORT 30000		● 11.739 V MTV Hits 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.575 V EXTREME SPORTS 30000		● 11.739 V MTV Base 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
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	● 11.575 V NATIONAL GEO 30000		● 11.739 V MTV Hits 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
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	● 11.575 V TRACE TROPICAL 30000		● 11.739 V MTV Hits 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
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	● 11.575 V ZEE CINEMA 30000		● 11.739 V MTV Dance 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
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	● 11.596 H CN1 30000		● 11.739 V MTV Dance 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500
	● 11.596 H Comedie 30000		● 11.739 V MTV Hits 27500	● 12.515 H Film1.2 22000	● 11.836 H SWR Fernsehen BW 27500	● 12.149 H Q TV SHOP 27500

# SatDX Global Satellite Chart 04/2009

Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate
12.207 H BBCW SERVICE	27500	12.265 H WDR 2	27500	12.563 H Spass im TV	22000	13.118 V DISNEY CH. #1	22000	11.635 H Euro Hits	28500	11.635 H Heavy Metal	28500
12.207 H BEUR FM	27500	12.265 H WDR 2 Klassik	27500	12.563 H WDR 2	27500	13.118 V JETIX	22000	11.635 H Klassik Hits	28500	11.635 H Klassiker Klassik	28500
12.207 H BFM	27500	12.265 H WDR 3	27500	12.563 H WDR 5	27500	13.118 V PLAYHOUSE	22000	11.635 H Klassischer Jazz	28500	11.635 H Live Songs	28500
12.207 H CANALSAT RADIOS	27500	12.265 H WDR 5	27500	12.563 H WDR 6	27500	13.118 V SONY TV	22000	11.635 H Love Dinner	28500	11.635 H New Age	28500
12.207 H CHERIE FM	27500	12.265 H WDR 6	27500	12.563 H WDR 7	27500	13.118 V TELEFE INT	22000	11.635 H Perfect Dancers	28500	11.635 H Live Dancers	28500
12.207 H CONTACT FM	27500	12.265 H WDR 7	27500	12.563 H WDR 8	27500	13.118 V BABY FIRST	22000	11.635 H Party Party Party	28500	11.635 H Pop	28500
12.207 H COULEUR 3	27500	12.265 H WDR 8	27500	12.563 H WDR 9	27500	13.118 V CANAL EVENEMENT	22000	11.635 H R & B Hip Hop	28500	11.635 H Reggae	28500
12.207 H EUROPE 1	27500	12.265 H WDR 9	27500	12.563 H WDR 10	27500	13.118 V GIRONDIS TV	22000	11.635 H Rock Anthems	28500	11.635 H Rock'n Roll Oldies	28500
12.207 H FP	27500	12.265 H XXL	27500	12.563 H WDR 11	27500	13.118 V INULIEM	22000	11.635 H Symphonie	28500	11.635 H Spanscher Rock	28500
12.207 H FRANCE BLEU HD	27500	12.265 H ABN	27500	12.563 H WDR 12	27500	13.118 V PLAYMUSIC TV	22000	11.635 H UK Hits	28500	11.635 H UK Hits	28500
12.207 H FRANCE CULTURE	27500	12.265 H ARTE	27500	12.563 H WDR 13	27500	13.118 V PLAYN TV	22000	11.635 H Bayern 2	28500	11.635 H Bayern 2	28500
12.207 H FRANCE INFO	27500	12.265 H BULVAR	27500	12.563 H WDR 14	27500	13.118 V VIVA TV	22000	11.635 H Bremen Vier	28500	11.635 H Bremen Vier	28500
12.207 H FRANCE INTER	27500	12.265 H CINE POLAR	27500	12.563 H WDR 15	27500	13.118 V WDR 15	27500	11.635 H SWR BR	28500	11.635 H SWR BR	28500
12.207 H FRANCE MUSIQUE	27500	12.265 H CORCELE	27500	12.563 H WDR 16	27500	13.118 V WDR 16	27500	11.635 H SWR RP	28500	11.635 H SWR RP	28500
12.207 H JAZZ RADIO	27500	12.265 H DORCEL TV	27500	12.563 H WDR 17	27500	13.118 V WDR 17	27500	11.635 H WDR 4	28500	11.635 H WDR 4	28500
12.207 H LE MOUV'	27500	12.265 H EMPY CLOPEDIA	27500	12.563 H WDR 18	27500	13.118 V WDR 18	27500	11.635 H Al Jazeera Int (eng)	28500	11.635 H Al Jazeera Int (eng)	28500
12.207 H MD DUALITY TV	27500	12.265 H ESCAPAD	27500	12.563 H WDR 19	27500	13.118 V WDR 19	27500	11.635 H Europa	28500	11.635 H Europa	28500
12.207 H MDR 1	27500	12.265 H MANGAS	27500	12.563 H WDR 20	27500	13.118 V WDR 20	27500	11.635 H EuroNews (port)	28500	11.635 H EuroNews (port)	28500
12.207 H MDR 2	27500	12.265 H NC1	27500	12.563 H WDR 21	27500	13.118 V WDR 21	27500	11.635 H EuroNews (span)	28500	11.635 H EuroNews (span)	28500
12.207 H MDR 3	27500	12.265 H MOSAIC	27500	12.563 H WDR 22	27500	13.118 V WDR 22	27500	11.635 H EuroNews (rus)	28500	11.635 H EuroNews (rus)	28500
12.207 H MDR ALPHA	27500	12.265 H MUSA 2	27500	12.563 H WDR 23	27500	13.118 V WDR 23	27500	11.635 H EuroNews (turk)	28500	11.635 H EuroNews (turk)	28500
12.207 H MDR COURTOISE	27500	12.265 H MUSA 3	27500	12.563 H WDR 24	27500	13.118 V WDR 24	27500	11.635 H Fishing and Hunting	27500	11.635 H Fishing and Hunting	27500
12.207 H MDR FG	27500	12.265 H MUSA 4	27500	12.563 H WDR 25	27500	13.118 V WDR 25	27500	11.635 H HD EuroSport 2	27500	11.635 H HD EuroSport 2	27500
12.207 H MDR FRANCE	27500	12.265 H MUSA 5	27500	12.563 H WDR 26	27500	13.118 V WDR 26	27500	11.635 H H2O	27500	11.635 H H2O	27500
12.207 H MDR INFO	27500	12.265 H MUSA 6	27500	12.563 H WDR 27	27500	13.118 V WDR 27	27500	11.635 H Home	27500	11.635 H Home	27500
12.207 H MDR NET 2	27500	12.265 H MUSA 7	27500	12.563 H WDR 28	27500	13.118 V WDR 28	27500	11.635 H Live	27500	11.635 H Live	27500
12.207 H MDR LATINA	27500	12.265 H MUSA 8	27500	12.563 H WDR 29	27500	13.118 V WDR 29	27500	11.635 H MDR 1	27500	11.635 H MDR 1	27500
12.207 H MDR NOTRE-DAME	27500	12.265 H MUSA 9	27500	12.563 H WDR 30	27500	13.118 V WDR 30	27500	11.635 H MDR 2	27500	11.635 H MDR 2	27500
12.207 H RADIO NOVA	27500	12.265 H MUSA 10	27500	12.563 H WDR 31	27500	13.118 V WDR 31	27500	11.635 H MDR 3	27500	11.635 H MDR 3	27500
12.207 H RADIO ALPHA	27500	12.265 H MUSA 11	27500	12.563 H WDR 32	27500	13.118 V WDR 32	27500	11.635 H MDR 4	27500	11.635 H MDR 4	27500
12.207 H RADIO EUROPE	27500	12.265 H MUSA 12	27500	12.563 H WDR 33	27500	13.118 V WDR 33	27500	11.635 H MDR 5	27500	11.635 H MDR 5	27500
12.207 H RADIO FRANCE	27500	12.265 H MUSA 13	27500	12.563 H WDR 34	27500	13.118 V WDR 34	27500	11.635 H MDR 6	27500	11.635 H MDR 6	27500
12.207 H RADIO INFO	27500	12.265 H MUSA 14	27500	12.563 H WDR 35	27500	13.118 V WDR 35	27500	11.635 H MDR 7	27500	11.635 H MDR 7	27500
12.207 H RADIO NET 2	27500	12.265 H MUSA 15	27500	12.563 H WDR 36	27500	13.118 V WDR 36	27500	11.635 H MDR 8	27500	11.635 H MDR 8	27500
12.207 H RADIO LATINA	27500	12.265 H MUSA 16	27500	12.563 H WDR 37	27500	13.118 V WDR 37	27500	11.635 H MDR 9	27500	11.635 H MDR 9	27500
12.207 H RADIO NOTRE-DAME	27500	12.265 H MUSA 17	27500	12.563 H WDR 38	27500	13.118 V WDR 38	27500	11.635 H MDR 10	27500	11.635 H MDR 10	27500
12.207 H RADIO NOVA	27500	12.265 H MUSA 18	27500	12.563 H WDR 39	27500	13.118 V WDR 39	27500	11.635 H MDR 11	27500	11.635 H MDR 11	27500
12.207 H RADIO ALPHA	27500	12.265 H MUSA 19	27500	12.563 H WDR 40	27500	13.118 V WDR 40	27500	11.635 H MDR 12	27500	11.635 H MDR 12	27500
12.207 H RADIO EUROPE	27500	12.265 H MUSA 20	27500	12.563 H WDR 41	27500	13.118 V WDR 41	27500	11.635 H MDR 13	27500	11.635 H MDR 13	27500
12.207 H RADIO FRANCE	27500	12.265 H MUSA 21	27500	12.563 H WDR 42	27500	13.118 V WDR 42	27500	11.635 H MDR 14	27500	11.635 H MDR 14	27500
12.207 H RADIO INFO	27500	12.265 H MUSA 22	27500	12.563 H WDR 43	27500	13.118 V WDR 43	27500	11.635 H MDR 15	27500	11.635 H MDR 15	27500
12.207 H RADIO NET 2	27500	12.265 H MUSA 23	27500	12.563 H WDR 44	27500	13.118 V WDR 44	27500	11.635 H MDR 16	27500	11.635 H MDR 16	27500
12.207 H RADIO LATINA	27500	12.265 H MUSA 24	27500	12.563 H WDR 45	27500	13.118 V WDR 45	27500	11.635 H MDR 17	27500	11.635 H MDR 17	27500
12.207 H RADIO NOTRE-DAME	27500	12.265 H MUSA 25	27500	12.563 H WDR 46	27500	13.118 V WDR 46	27500	11.635 H MDR 18	27500	11.635 H MDR 18	27500
12.207 H RADIO NOVA	27500	12.265 H MUSA 26	27500	12.563 H WDR 47	27500	13.118 V WDR 47	27500	11.635 H MDR 19	27500	11.635 H MDR 19	27500
12.207 H RADIO ALPHA	27500	12.265 H MUSA 27	27500	12.563 H WDR 48	27500	13.118 V WDR 48	27500	11.635 H MDR 20	27500	11.635 H MDR 20	27500
12.207 H RADIO EUROPE	27500	12.265 H MUSA 28	27500	12.563 H WDR 49	27500	13.118 V WDR 49	27500	11.635 H MDR 21	27500	11.635 H MDR 21	27500
12.207 H RADIO FRANCE	27500	12.265 H MUSA 29	27500	12.563 H WDR 50	27500	13.118 V WDR 50	27500	11.635 H MDR 22	27500	11.635 H MDR 22	27500
12.207 H RADIO INFO	27500	12.265 H MUSA 30	27500	12.563 H WDR 51	27500	13.118 V WDR 51	27500	11.635 H MDR 23	27500	11.635 H MDR 23	27500
12.207 H RADIO NET 2	27500	12.265 H MUSA 31	27500	12.563 H WDR 52	27500	13.118 V WDR 52	27500	11.635 H MDR 24	27500	11.635 H MDR 24	27500
12.207 H RADIO LATINA	27500	12.265 H MUSA 32	27500	12.563 H WDR 53	27500	13.118 V WDR 53	27500	11.635 H MDR 25	27500	11.635 H MDR 25	27500
12.207 H RADIO NOTRE-DAME	27500	12.265 H MUSA 33	27500	12.563 H WDR 54	27500	13.118 V WDR 54	27500	11.635 H MDR 26	27500	11.635 H MDR 26	27500
12.207 H RADIO NOVA	27500	12.265 H MUSA 34	27500	12.563 H WDR 55	27500	13.118 V WDR 55	27500	11.635 H MDR 27	27500	11.635 H MDR 27	27500
12.207 H RADIO ALPHA	27500	12.265 H MUSA 35	27500	12.563 H WDR 56	27500	13.118 V WDR 56	27500	11.635 H MDR 28	27500	11.635 H MDR 28	27500
12.207 H RADIO EUROPE	27500	12.265 H MUSA 36	27500	12.563 H WDR 57	27500	13.118 V WDR 57	27500	11.635 H MDR 29	27500	11.635 H MDR 29	27500
12.207 H RADIO FRANCE	27500	12.265 H MUSA 37	27500	12.563 H WDR 58	27500	13.118 V WDR 58	27500	11.635 H MDR 30	27500	11.635 H MDR 30	27500
12.207 H RADIO INFO	27500	12.265 H MUSA 38	27500	12.563 H WDR 59	27500	13.118 V WDR 59	27500	11.635 H MDR 31	27500	11.635 H MDR 31	27500
12.207 H RADIO NET 2	27500	12.265 H MUSA 39	27500	12.563 H WDR 60	27500	13.118 V WDR 60	27500	11.635 H MDR 32	27500	11.635 H MDR 32	27500
12.207 H RADIO LATINA	27500	12.265 H MUSA 40	27500	12.563 H WDR 61	27500	13.118 V WDR 61	27500	11.635 H MDR 33	27500	11.635 H MDR 33	27500
12.207 H RADIO NOTRE-DAME	27500	12.265 H MUSA 41	27500	12.563 H WDR 62	27500	13.118 V WDR 62	27500	11.635 H MDR 34	27500	11.635 H MDR 34	27500
12.207 H RADIO NOVA	27500	12.265 H MUSA 42	27500	12.563 H WDR 63	27500	13.118 V WDR 63	27500	11.635 H MDR 35	27500	11.635 H MDR 35	27500
12.207 H RADIO ALPHA	27500	12.265 H MUSA 43	27500	12.563 H WDR 64	27500	13.118 V WDR 64	27500	11.635 H MDR 36	27500	11.635 H MDR 36	27500
12.207 H RADIO EUROPE	27500	12.265 H MUSA 44	27500	12.563 H WDR 65	27500	13.118 V WDR 65	27500	11.635 H MDR 37	27500	11.635 H MDR 37	27500
12.207 H RADIO FRANCE	27500	12.265 H MUSA 45	27500	12.563 H WDR 66	27500	13.118 V WDR 66	27500	11.635 H MDR 38	27500	11.635 H MDR 38	27500
12.207 H RADIO INFO	27500	12.265 H MUSA 46	27500	12.563 H WDR 67	27500	13.118 V WDR 67	27500	11.635 H MDR 39	27500	11.635 H MDR 39	27500
12.207 H RADIO NET 2	27500	12.265 H MUSA 47	27500	12.563 H WDR 68	27500	13.118 V WDR 68	27500	11.635 H MDR 40	27500	11.635 H MDR 40	27500
12.207 H RADIO LATINA	27500	12.265 H MUSA 48	27500	12.563 H WDR 69	27500	13.118 V WDR 69	27500	11.635 H MDR 41	27500	11.635 H MDR 41	27500
12.207 H RADIO NOTRE-DAME	27500	12.265 H MUSA 49	27500	12.563 H WDR 70	27500	13.118 V WDR 70	27500	11.635 H MDR 42	27500	11.635 H MDR 42	27500
12.207 H RADIO NOVA	27500	12.265 H MUSA 50	27500	12.563 H WDR 71	27500	13.118 V WDR 71	27500	11.635 H MDR 43	27500	11.635 H MDR 43	





# SatCoDX Global Satellite Chart 04/2009

Freq	Pol	Channel Name	Symbol rate	GHz	Freq	Pol	Channel Name	Symbol rate	GHz	Freq	Pol	Channel Name	Symbol rate	GHz	Freq	Pol	Channel Name	Symbol rate	GHz	Freq	Pol	Channel Name	Symbol rate	GHz			
12.0292	H	AL HRMAIN	27500	3.882	H	AANKAR	27500	11.739	V	Bravo	27500	12.461	H	Vegas Pyramid	27500	10.738	V	BBC 1 E Mids	20000	11.261	H	Zone SportsBabes	27500	11.508	H	Games Slot 16	27500
12.0292	H	AL MOUTANA	27500	3.882	H	Al Jawhara	27500	11.739	V	Bravo+1	27500	12.461	H	WAP Browar 1	27500	10.788	V	BBC 1 East (E)	20000	11.261	H	Zone Horz	27500	11.508	H	Games Slot 18	27500
12.0292	V	ALDFARAF Music	27500	3.882	H	Al Family TV	27500	11.739	V	Bravo	27500	12.461	H	WML HighPerks	27500	10.788	V	BBC 1 W Mids	20000	11.261	H	Zone Reality+1	27500	11.508	H	Games Slot 19	27500
12.0292	V	EBONY TV	27500	3.882	H	Oyoum Jeddah	27500	11.739	V	Challenge	27500	12.461	H	WonderScores	27500	10.788	V	BBC 1 Yrks	20000	11.261	H	Newstalk	27500	11.508	H	Games Slot 20	27500
12.0292	V	Falshah Media 12	27500	3.882	H	Al Press TV	27500	11.739	V	Al Mawakeel	27500	12.461	H	WAP Browar 2	27500	10.788	V	BBC 1 S Mids	20000	11.261	H	Zone ParaSport	27500	11.508	H	Games Slot 21	27500
12.0292	V	orient	27500	3.882	H	Sahraya	27500	11.739	V	LIVING	27500	11.973	V	Sony TV Asia	27500	10.788	V	ETVS	20000	11.307	H	Bravo 2	27500	11.527	V	Eden+1	27500
12.0292	V	QRANNI TV	27500	3.882	H	H Test	27500	11.739	V	LIVING+1	27500	12.031	H	bid tv	27500	10.803	H	BBC 1 Scotland	20000	11.307	H	Challenge+1	27500	11.527	V	Extreme Sports	27500
12.0292	V	SAHAR TV	27500	3.882	H	Tesla1	27500	11.739	V	Living+2	27500	12.031	H	Ideal World	27500	10.803	H	BBC 1 Wales	20000	11.307	H	LIVING	27500	11.527	V	ParaComedy 1	27500
12.0292	V	Shahar Al Rasoul	27500	3.882	H	Tesla 2	27500	11.739	V	LIVING HD	27500	12.031	H	Free-drop TV	27500	10.803	H	BBC 1 Wales	20000	11.307	H	LIVING2+1	27500	11.527	V	Channel M	27500
12.0292	V	TEAM TV	27500	3.882	H	Thuraya TV	27500	11.739	V	Test+1	27500	12.031	H	QVC	27500	10.803	H	BBC 2 Wales	20000	11.307	H	Motors TV	27500	11.527	V	GayDateTV	27500
12.0292	V	Zoal TV	27500	3.882	H	Yara TV	27500	11.739	V	Trouble	27500	12.031	H	QVC Islamic Test	27500	10.803	H	BBC 2 Wales	20000	11.307	H	MUTV	27500	11.527	V	GayDateTV	27500
12.0292	V	Coast FM	27500	4.040	H	AD Sports	27500	11.739	V	Trouble+1	27500	12.031	H	QVC Mosaic Test	27500	10.803	H	ETV2	20000	11.307	H	UKTV Hory+1	27500	11.527	V	Life TV	27500
12.0292	V	Falshah Radio	27500	4.040	H	Al Eshbaria	27500	11.817	V	Albtl	27500	12.031	H	QVC Test	27500	10.803	H	BBC 2 East	20000	11.307	H	Virgin 1	27500	11.527	V	Over 18	27500
12.111	H	Al Eqtisada TV	27500	4.040	H	DubaiTV	27500	11.817	V	Dave	27500	12.031	H	QVC TSNOW	27500	10.803	H	BBC R5X	20000	11.307	H	Virgin+1	27500	11.527	V	Thomas Cook	27500
12.111	H	ALAAAN TV	27500	4.040	H	Ethiopia	27500	11.817	V	Eden	27500	12.031	H	speedactionTV	27500	10.818	V	BBC 1 NE & C	20000	11.307	H	XPLCIT XXX	27500	11.546	H	ARLIC Digital	27500
12.111	H	ARIRANG	27500	4.040	H	IRA	27500	11.817	V	TV	27500	12.110	H	Sky Sports 3	27500	10.818	V	BBC 1 Oxford	20000	11.307	H	9X	27500	11.546	H	WAG	27500
12.111	H	ASHOROQTV	27500	4.040	H	Press TV	27500	11.817	V	UKTV Comedy	27500	12.110	H	Sky Sports 3	27500	10.818	V	BBC 1 S West	20000	11.307	H	BET	27500	11.546	H	Geo Comedy+1	27500
12.111	H	Decision Makers Tv	27500	4.040	H	PRES TV	27500	11.817	V	UKTV Docs	27500	12.110	H	Sky Sports 3	27500	10.818	V	BBC 1 S West	20000	11.307	H	BET	27500	11.546	H	Geo Comedy+1	27500
12.111	H	Dubai Sports 2	27500	4.040	H	Riyadiah	27500	11.817	V	UKTV Food	27500	12.110	H	SBL	27500	10.818	V	BBC 1 South	20000	11.307	H	High Street TV	27500	11.546	H	AvraTest	27500
12.111	H	INFINITY 2	27500	4.040	H	Saudi-1	27500	11.817	V	UKTV History	27500	12.110	H	Sky Sports 1	27500	10.818	V	BBC 1 West	20000	11.307	H	Jewellery CH	27500	11.546	H	Beverly Hills TV	27500
12.111	H	Jawana	27500	4.040	H	Saudi-2	27500	11.817	V	UKTV Style	27500	12.110	H	Sky Sports 2	27500	10.818	V	ETV6	27500	11.307	H	Jewellery CH	27500	11.546	H	Beverly Hills TV	27500
12.111	H	SHARQAQVA	27500	4.040	H	ShariaQVA R1	27500	11.817	V	Waiz	27500	12.110	H	Sky Sports 3	27500	10.818	V	ETV6	27500	11.307	H	Jewellery CH	27500	11.546	H	Beverly Hills TV	27500
12.130	V	4FUN	27500	4.024	H	BT15	4340	11.876	H	Animal Planet	27500	10.832	H	TCM 2	27500	10.832	H	ITV1 Border	20000	11.343	H	NigeriaMovies	27500	11.546	H	Chanel 1	27500
12.130	V	AlHublatv	27500	11.876	H	dis+	27500	10.832	H	Games Slot 23	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	NTAI	27500	11.546	H	Monte Carlo TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-Knowledge	27500	10.832	H	Games Slot 24	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.343	H	propeller	27500	11.546	H	Shop on TV	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	Disc-News	27500	10.832	H	ITV1 Central S	20000	10.832	H														



# SatCoDX Global Satellite Chart 04/2009

Freq Pol Channel Name	Symbol rate	GHz
<b>PAKSAT 1</b>		
● 11029 V Tandberg Service	1759	
● 11161 V feed 1 (feed 1)	4600	
● 11185 V PTVK DSKG	3333	
● 11456 V ISL DAWN TV	2850	
● 11457 V DSKG	2850	
● 11577 V Xandberg Service	3000	
<b>EUROPE</b>		
<b>HELLAS SAT 2</b>		
<b>HELLASAT 2</b>		
<b>HELLAS2</b>		
<b>HELLAS SAT 2 039.0° East</b>		
● 11037 V PTV	5200	
● 11140 V PTV	1425	
● 11425 V PTV	1425	
● 12115 V test	6654	
<b>HELLAS SAT 2 039.0° East</b>		
● 11512 H FEED	3000	
● 11512 H HTH	3000	
● 11512 H RDKTRK	3000	
● 11512 H KRT	3000	
● 11512 H KULTURA	3000	
● 11512 H TV BITA	3000	
● 11512 H UKR	3000	
● 11512 H TVR	3000	
● 11512 H ZAGRAVA	3000	
● 11512 H RUJZ	3000	
● 11512 H StudioChocolate	3000	
● 11512 H StudioChocolate 2	3000	
● 11512 H URJ	3000	
● 11512 H UR2	3000	
● 11512 H Antena 1	3000	
● 11512 H Antena 2	3000	
● 11512 H Antena 3	3000	
● 11512 H AXN	3000	
● 11512 H BT	3000	
● 11512 H CineStar	3000	
● 11512 H Favorit TV	3000	
● 11512 H Minimax/Anime	3000	
● 11512 H N24	3000	
● 11512 H National TV	3000	
● 11512 H OTV	3000	
● 11512 H Prima TV	3000	
● 11512 H PRO TV	3000	
● 11512 H PRO TV INTL	3000	
● 11512 H Realitatea TV	3000	
● 11512 H Sport.ro	3000	
● 11512 H X-Dream TV	3000	
● 11512 H Film Plus HD	3000	
● 11512 H Bulsatcom HD	3000	
● 11512 H AXN CRIME	3000	
● 11512 H BNT SAT	3000	
● 11512 H Boomerang	3000	
● 11512 H Cartoon NET/CN	3000	
● 11512 H Cartoon Network	3000	
● 11512 H CNN Intern.	3000	
● 11512 H Discovery World	3000	
● 11512 H Discovery Science	3000	
● 11512 H Discovery World & L	3000	
● 11512 H Discovery World	3000	
● 11512 H Eurocom BG	3000	
● 11512 H Euronews	3000	
● 11512 H Film Plus	3000	
● 11512 H Free-TV	3000	
● 11512 H Free-TV 2	3000	
● 11512 H GTV	3000	
● 11512 H Hallmark	3000	
● 11512 H Huester TV	3000	
● 11512 H Kanal D	3000	
● 11512 H Kanal D 2	3000	
● 11512 H MTV Dagestan	3000	
● 11512 H MTV Romania	3000	
● 11512 H Private Sport	3000	
● 11512 H Super 7	3000	
● 11512 H Tricolor	3000	
● 11512 H TravelLiving	3000	
● 11512 H TV Europa	3000	
● 11512 H VH1	3000	
● 11512 H Viast History	3000	
● 11512 H Zone Club	3000	
● 11512 H Kanal 3	3000	
● 11512 H MM	3000	
● 11512 H Planeta Folk TV	3000	
● 11512 H Skat TV	3000	
● 11512 H BG Radio	3000	
● 11512 H Dark Radio	3000	
● 11512 H NRJ	3000	
● 11512 H Radio 1 Rock	3000	
● 11512 H radio Aurea	3000	
● 11512 H Tangra MegaRock	3000	
● 11512 H ActionStar	3000	
● 11512 H AXN	3000	
● 11512 H AXN Crime	3000	
● 11512 H AXN Sci Fi	3000	
● 11512 H Cinemax	3000	
● 11512 H City TV	3000	
● 11512 H Diema Family	3000	
● 11512 H Discovery World	3000	
● 11512 H Eurosport	3000	
● 11512 H Eurosport 2	3000	
● 11512 H Extreme Sports	3000	
● 11512 H Fashion TV	3000	
● 11512 H FOX Crime	3000	
● 11512 H FOX Life	3000	
● 11512 H HBO	3000	
● 11512 H HBO Comedy	3000	
● 11512 H Hobby TV	3000	
● 11512 H MTV Europe	3000	
● 11512 H Nat. Geographic	3000	
● 11512 H National Geographic	3000	
● 11512 H PRO Cinema	3000	
● 11512 H TELESPORT	3000	
● 11512 H TRACE	3000	
● 11512 H Travel Channel	3000	
● 11512 H TV1000	3000	
● 11512 H TV2	3000	
● 11512 H TV5 MOND	3000	
● 11512 H VH1	3000	
● 11512 H Taraf	3000	
● 11512 H radio Atlantic	3000	
● 11512 H radio OMV	3000	
● 11512 H radio Veselina E	3000	
● 11512 H radio Veselina W	3000	
● 11512 H radio Veselina X	3000	
● 11512 H radio Veselina Y	3000	
● 11512 H radio Veselina Z	3000	
● 11512 H radio Veselina AA	3000	
● 11512 H radio Veselina AB	3000	
● 11512 H radio Veselina AC	3000	
● 11512 H radio Veselina AD	3000	
● 11512 H radio Veselina AE	3000	
● 11512 H radio Veselina AF	3000	
● 11512 H radio Veselina AG	3000	
● 11512 H radio Veselina AH	3000	
● 11512 H radio Veselina AI	3000	
● 11512 H radio Veselina AJ	3000	
● 11512 H radio Veselina AK	3000	
● 11512 H radio Veselina AL	3000	
● 11512 H radio Veselina AM	3000	
● 11512 H radio Veselina AN	3000	
● 11512 H radio Veselina AO	3000	
● 11512 H radio Veselina AP	3000	
● 11512 H radio Veselina AQ	3000	
● 11512 H radio Veselina AR	3000	
● 11512 H radio Veselina AS	3000	
● 11512 H radio Veselina AT	3000	
● 11512 H radio Veselina AU	3000	
● 11512 H radio Veselina AV	3000	
● 11512 H radio Veselina AW	3000	
● 11512 H radio Veselina AX	3000	
● 11512 H radio Veselina AY	3000	
● 11512 H radio Veselina AZ	3000	
● 11512 H radio Veselina BA	3000	
● 11512 H radio Veselina BB	3000	
● 11512 H radio Veselina BC	3000	
● 11512 H radio Veselina BD	3000	
● 11512 H radio Veselina BE	3000	
● 11512 H radio Veselina BF	3000	
● 11512 H radio Veselina BG	3000	
● 11512 H radio Veselina BH	3000	
● 11512 H radio Veselina BI	3000	
● 11512 H radio Veselina BJ	3000	
● 11512 H radio Veselina BK	3000	
● 11512 H radio Veselina BL	3000	
● 11512 H radio Veselina BM	3000	
● 11512 H radio Veselina BN	3000	
● 11512 H radio Veselina BO	3000	
● 11512 H radio Veselina BP	3000	
● 11512 H radio Veselina BQ	3000	
● 11512 H radio Veselina BR	3000	
● 11512 H radio Veselina BS	3000	
● 11512 H radio Veselina BT	3000	
● 11512 H radio Veselina BU	3000	
● 11512 H radio Veselina BV	3000	
● 11512 H radio Veselina BW	3000	
● 11512 H radio Veselina BX	3000	
● 11512 H radio Veselina BY	3000	
● 11512 H radio Veselina BZ	3000	
● 11512 H radio Veselina CA	3000	
● 11512 H radio Veselina CB	3000	
● 11512 H radio Veselina CC	3000	
● 11512 H radio Veselina CD	3000	
● 11512 H radio Veselina CE	3000	
● 11512 H radio Veselina CF	3000	
● 11512 H radio Veselina CG	3000	
● 11512 H radio Veselina CH	3000	
● 11512 H radio Veselina CI	3000	
● 11512 H radio Veselina CJ	3000	
● 11512 H radio Veselina CK	3000	
● 11512 H radio Veselina CL	3000	
● 11512 H radio Veselina CM	3000	
● 11512 H radio Veselina CN	3000	
● 11512 H radio Veselina CO	3000	
● 11512 H radio Veselina CP	3000	
● 11512 H radio Veselina CQ	3000	
● 11512 H radio Veselina CR	3000	
● 11512 H radio Veselina CS	3000	
● 11512 H radio Veselina CT	3000	
● 11512 H radio Veselina CU	3000	
● 11512 H radio Veselina CV	3000	
● 11512 H radio Veselina CW	3000	
● 11512 H radio Veselina CX	3000	
● 11512 H radio Veselina CY	3000	
● 11512 H radio Veselina CZ	3000	
● 11512 H radio Veselina DA	3000	
● 11512 H radio Veselina DB	3000	
● 11512 H radio Veselina DC	3000	
● 11512 H radio Veselina DD	3000	
● 11512 H radio Veselina DE	3000	
● 11512 H radio Veselina DF	3000	
● 11512 H radio Veselina DG	3000	
● 11512 H radio Veselina DH	3000	
● 11512 H radio Veselina DI	3000	
● 11512 H radio Veselina DJ	3000	
● 11512 H radio Veselina DK	3000	
● 11512 H radio Veselina DL	3000	
● 11512 H radio Veselina DM	3000	
● 11512 H radio Veselina DN	3000	
● 11512 H radio Veselina DO	3000	
● 11512 H radio Veselina DP	3000	
● 11512 H radio Veselina DQ	3000	
● 11512 H radio Veselina DR	3000	
● 11512 H radio Veselina DS	3000	
● 11512 H radio Veselina DT	3000	
● 11512 H radio Veselina DU	3000	
● 11512 H radio Veselina DV	3000	
● 11512 H radio Veselina DW	3000	
● 11512 H radio Veselina DX	3000	
● 11512 H radio Veselina DY	3000	
● 11512 H radio Veselina DZ	3000	
● 11512 H radio Veselina EA	3000	
● 11512 H radio Veselina EB	3000	
● 11512 H radio Veselina EC	3000	
● 11512 H radio Veselina ED	3000	
● 11512 H radio Veselina EE	3000	
● 11512 H radio Veselina EF	3000	
● 11512 H radio Veselina EG	3000	
● 11512 H radio Veselina EH	3000	
● 11512 H radio Veselina EI	3000	
● 11512 H radio Veselina EJ	3000	
● 11512 H radio Veselina EK	3000	
● 11512 H radio Veselina EL	3000	
● 11512 H radio Veselina EM	3000	
● 11512 H radio Veselina EN	3000	
● 11512 H radio Veselina EO	3000	
● 11512 H radio Veselina EP	3000	
● 11512 H radio Veselina EQ	3000	
● 11512 H radio Veselina ER	3000	
● 11512 H radio Veselina ES	3000	
● 11512 H radio Veselina ET	3000	
● 11512 H radio Veselina EU	3000	
● 11512 H radio Veselina EV	3000	
● 11512 H radio Veselina EW	3000	
● 11512 H radio Veselina EX	3000	
● 11512 H radio Veselina EY	3000	
● 11512 H radio Veselina EZ	3000	
● 11512 H radio Veselina FA	3000	
● 11512 H radio Veselina FB	3000	
● 11512 H radio Veselina FC	3000	
● 11512 H radio Veselina FD	3000	
● 11512 H radio Veselina FE	3000	
● 11512 H radio Veselina FF	3000	
● 11512 H radio Veselina FG	3000	
● 11512 H radio Veselina FH	3000	
● 11512 H radio Veselina FI	3000	
● 11512 H radio Veselina FJ	3000	
● 11512 H radio Veselina FK	3000	
● 11512 H radio Veselina FL	3000	
● 11512 H radio Veselina FM	3000	
● 11512 H radio Veselina FN	3000	
● 11512 H radio Veselina FO	3000	
● 11512 H radio Veselina FP	3000	
● 11512 H radio Veselina FQ	3000	
● 11512 H radio Veselina FR	3000	
● 11512 H radio Veselina FS	3000	
● 11512 H radio Veselina FT	3000	
● 11512 H radio Veselina FU	3000	
● 11512 H radio Veselina FV	3000	
● 11512 H radio Veselina FW	3000	
● 11512 H radio Veselina FX	3000	
● 11512 H radio Veselina FY	3000	
● 11512 H radio Veselina FZ	3000	
● 11512 H radio Veselina GA	3000	
● 11512 H radio Veselina GB	3000	
● 11512 H radio Veselina GC	3000	
● 11512 H radio Veselina GD	3000	
● 11512 H radio Veselina GE	3000	
● 11512 H radio Veselina GF	3000	
● 11512 H radio Veselina GH	3000	
● 11512 H radio Veselina GI	3000	
● 11512 H radio Veselina GJ	3000	
● 11512 H radio Veselina GK	3000	
● 11512 H radio Veselina GL	3000	
● 11512 H radio Veselina GM	3000	
● 11512 H radio Veselina GN	3000	
● 11512 H radio Veselina GO	3000	
● 11512 H radio Veselina GP	3000	
● 11512 H radio Veselina GQ	3000	
● 11512 H radio Veselina GR	3000	
● 11512 H radio Veselina GS	3000	
● 11512 H radio Veselina GT	3000	
● 11512 H radio Veselina GU	3000	
● 11512 H radio Veselina GV	3000	
● 11512 H radio Veselina GW	3000	
● 11512 H radio Veselina GX	3000	
● 11512 H radio Veselina GY	3000	
● 11512 H radio Veselina GZ	3000	
● 11512 H radio Veselina HA	3000	
● 11512 H radio Veselina HB	3000	
● 11512 H radio Veselina HC	3000	
● 11512 H radio Veselina HD	3000	
● 11512 H radio Veselina HE	3000	
● 11512 H radio Veselina HF	3000	
● 11512 H radio Veselina HG	3000	
● 11512 H radio Veselina HH	3000	
● 11512 H radio Veselina HI	3000	
● 11512 H radio Veselina HJ	3000	
● 11512 H radio Veselina HK	3000	
● 11512 H radio Veselina HL	3000	
● 11512 H radio Veselina HM	3000	
● 11512 H radio Veselina HN	3000	
● 11512 H radio Veselina HO	3000	
● 11512 H radio Veselina HP	3000	
● 11512 H radio Veselina HQ	3000	
● 11512 H radio Veselina HR	3000	
● 11512 H radio Veselina HS	3000	
● 11512 H radio Veselina HT	3000	
● 11512 H radio Veselina HU	3000	
● 11512 H radio Veselina HV	3000	
● 11512 H radio Veselina HW	3000	
● 11512 H radio Veselina HX	3000	
● 11512 H radio Veselina HY	3000	
● 11512 H radio Veselina HZ	3000	
● 11512 H radio Veselina IA	3000	
● 11512 H radio Veselina IB	3000	
● 11512 H radio Veselina IC	3000	
● 11512 H radio Veselina ID	3000	
● 11512 H radio Veselina IE	3000	
● 11512 H radio Veselina IF	3000	
● 11512 H radio Veselina IG	3000	
● 11512 H radio Veselina IH	3000	
● 11512 H radio Veselina II	3000	
● 11512 H radio Veselina IJ	3000	
● 11512 H radio Veselina IK	3000	
● 11512 H radio Veselina IL	3000	
● 11512 H radio Veselina IM	3000	
● 11512 H radio Veselina IN	3000	
● 11512 H radio Veselina IO	3000	
● 11512 H radio Veselina IP	3000	
● 11512 H radio Veselina IQ	3000	
● 11512 H radio Veselina IR	3000	
● 11512 H radio Veselina IS	3000	
● 11512 H radio Veselina IT	3000	
● 11512 H radio Veselina IU	3000	
● 11512 H radio Veselina IV	3000	
● 11512 H radio Veselina IW	3000	
● 11512 H radio Veselina IX	3000	
● 11512 H radio Veselina IY	3000	
● 11512 H radio Veselina IZ	3000	

Freq Pol Channel Name	Symbol rate	GHz
● 11010 H SAT1	30000	
● 11010 X ZDF	30000	
● 11010 V adhoc2	30000	
● 11010 V Guide	30000	
● 11010 V Euronews	30000	
● 11010 V Regis	30000	
● 11010 V SABC1	30000	
● 11010 V SABC2	30000	
● 11010 V SABC3	30000	
● 11010 V -	30000	
● 11010 H BAY1	30000	
● 11010 H CFM	30000	
● 11010 H CH 73	30000	
● 11010 H DW-R	30000	
● 11050 V Boom	30000	
● 11050 V C02	30000	
● 11050 V Fut	30000	
● 11050 V Future (ex-BBC P)	30000	
● 11050 V go	30000	
● 11050 V HST	30000	
● 11050 V HA Virtual 1	30000	
● 11050 V Idols	30000	
● 11050 V KADY	30000	
● 11050 V NaGeo	30000	
● 11050 V SumTV	30000	
● 11050 V TV5	30000	
● 11050 V ZneRa	30000	
● 11050 V Zee	30000	
● 11050 V 702	30000	
● 11050 V CII	30000	
● 11050 V CRI	30000	
● 11050 V HEAT	30000	
● 11050 V Hyper	30000	
● 11050 V Im	30000	
● 11050 V VOA	30000	
● 11050 V Wave	30000	
● 11050 V WRN	30000	
● 11050 V TWR	30000	
● 11050 V BBC W	30000	
● 11050 V Bcom	30000	
● 11050 V CN	30000	
● 11050 V Dany	30000	
● 11050 V ESPN	30000	
● 11050 V MTV	30000	
● 11050 V PTV	30000	
● 11050 V SET	30000	
● 11050 V Sun	30000	
● 11050 V TCM	30000	
● 11050 V Travl	30000	
● 11050 V VH1	30000	
● 11050 V BBC1	30000	
● 11050 V BBC2	30000	
● 11050 V BBC3	30000	
● 11050 V Fut2 (ex-KTV)	30000	
● 11130 H MntHD	30000	
● 11130 V Actio	30000	
● 11130 V ABC	30000	
● 11130 V eNews	30000	
● 11130 V eTV	30000	
● 11130 V Fut9	30000	
● 11130 V MHz	30000	
● 11130 V Mstar	30000	
● 11130 H Mavid	30000	
● 11130 H NGwd	30000	
● 11130 H OnG	30000	
● 11130 V Par1	30000	
● 11130 V RT	30000	
● 11130 V Soveit	30000	
● 11130 V TV8	30000	
● 11130 V SS4	30000	
● 11130 V TelTr	30000	
● 11130 V TRACE	30000	
● 11130 V Wnet	30000	
● 11130 V ZNRC	30000	
● 11130 V GA1	30000	
● 11130 V 70s	30000	
● 11130 V 101	30000	
● 11130 V A & O	30000	
● 11130 V AduC	30000	
● 11130 V Afric	30000	
● 11130 V AFR	30000	
● 11130 V Beut	30000	
● 11130 V Blues	30000	
● 11130 V CampR	30000	
● 11130 V Chamb	30000	
● 11130 V City	30000	
● 11130 V ClasJ	30000	
● 11130 V ClaSR	30000	
● 11130 V Cont	30000	
● 11130 V Dance	30000	
● 11130 V Electr	30000	
● 11130 V EuroH	30000	
● 11130 V FamF	30000	
● 11130 V GdSD	30000	
● 11130 V Gspol	30000	
● 11130 V Groov	30000	
● 11130 V HarDr	30000	
● 11130 V Htraz	30000	
● 11130 V Italc	30000	
● 11130 V LiteC	30000	
● 11130 V Love	30000	
● 11130 V Mabr	30000	
● 11130 V ModCn	30000	
● 11130 V NevA	30000	
● 11130 V PowrH	30000	
● 11130 V RAB	30000	
● 11130 V RoR	30000	
● 11130 V Regga	30000	
● 11130 V SmtJH	30000	
● 11130 V SoRH	30000	
● 11130 V SmtJ	30000	
● 11130 V SympH	30000	
● 11130 V TradC	30000	
● 11130 V Ubeat	30000	
● 11130 V Urban	30000	
● 1282 H 3ABN	26657	
● 1282 H Adonai	26657	
● 1282 H Chosen	26657	
● 1282 H QW	26657	
● 1282 H Day*	26657	
● 1282 H Divine	26657	
● 1282 H Emmanuel TV	26657	
● 1282 H Israel	26657	
● 1282 H LoveWorld	26657	
● 1282 H Solid Rock	26657	
● 1282 H TKC	26657	
● 1282 H YashR	26657	
● 1282 H Divine Radio	26657	

Freq Pol Channel Name	Symbol rate	GHz
● 1730 V Intelsat 10	16175	
● 1730 V 525 English	16175	
● 1730 V 525 Japanese	16175	
● 1730 V 625 Japanese	16175	
● 1730 V 625 Japanese	16175	
● 1730 V Premium	16175	
● 1730 V Radio 1&2	16175	
● 1730 V Radio 3&4	16175	
● 1730 V ZEE SPORTS US	6500	
● 1730 V ZEE SPORTS SA	6500	
● 1730 V AASHA INT.	3940	
● 1730 V HMC Pakistan	2343	
● 1730 V HMC	2343	
● 1730 V SV 8	19850	
● 1730 V SV 9I	19850	
● 1730 V AAJTAK	19850	
● 1730 V AAJTAK TEZ	19850	
● 1730 V H AT INT	19850	
● 1730 V DELHI AAJTAK	19850	
● 1730 V HEADLINES TODAY	19850	
● 1730 V COPY of MAX INTERN	26500	
● 1730 V COPY of SET Intern	26500	
● 1730 V COPY of SETMAX	26500	
● 1730 V Download 200	26500	
● 1730 V MAX International	26500	
● 1730 V MAX TRAI	26500	
● 1730 V MAX UK	26500	
● 1730 V MIDDLE EAST	26500	
● 1730 V SAB INTL	26500	
● 1730 V SAB TV	26500	
● 1730 V SET Encrypted	26500	
● 1730 V SET Encrypted Finger	26500	
● 1730 V SET International	26500	
● 1730 V SETMAX	26500	
● 1730 V Cartoon India	19500	
● 1730 V Cartoon India HND	19500	
● 1730 V Cartoon India INM	19500	
● 1730 V Cartoon India TAMI	19500	
● 1730 V Cartoon India TEL	19500	
● 1730 V CNN India	19500	
● 1730 V HBO India	19500	
● 1730 V Pkg	19500	
● 1730 V Real Global Broadcasts	19500	
● 1730 V WP Pakistan	19500	
● 1730 V MTVS	20500	
● 1730 V MTVS	20500	
● 1730 V Nickelodeon-Nick Ind	20500	
● 1730 V VH1 India	20500	
● 1730 V XYZ	20500	
● 1730 V Discovery	20500	
● 1730 V X	20500	
● 1730 V H Jazera	19850	
● 1730 V H EWTN	19850	
● 1730 V BCC Radio	19850	
● 1730 V BCC MTW Radio	19850	
● 1730 V Voice of Tibet	19850	
● 1730 V WRN AAP1	19850	
● 1730 V IBN	9750	
● 1730 V IBN	9750	
● 1730 V SAMAA	3350	
● 1730 V DAWN NEWS TV	3250	
● 1730 V Ujala TV	2572	
● 1730 V DUNI TV	2672	
● 1730 V DUNYA ENT.	6500	
● 1730 V DUNYA NEWS	6500	
● 1730 V Express 24/7	6500	
● 1730 V Express Urdu	6500	

Freq Pol Channel Name	Symbol rate	GHz
● 3796 V RHYBER NEWS	7300	
● 3796 V Itaz Africa	7300	
● 3796 V Reality TV	10340	
● 3796 V God Asia	10340	
● 3796 V Supreme Master TV	10340	
● 3796 V SBC W	10340	
● 3796 V RNN-7	10340	
● 3796 V safeRadio	10340	
● 3796 V Actio	20600	
● 3796 V TV5	20600	
● 3796 V MTV	20600	
● 3796 V NaGeo	20600	
● 3796 V SBT	20600	
● 3796 V Maltine	20600	
● 3796 V BBC2	20600	
● 3796 V BBC3	20600	
● 3796 V RAI	20600	
● 3796 V Euronews	20600	
● 3796 V Euronews	20600	
● 3796 V WRN	20600	
● 3796 V FTV	20600	
● 3796 V HNTV	20600	
● 3796 V HNTV Service	20600	
● 3796 V AASHA INT.	20600	
● 3796 V HMC Pakistan	20600	
● 3796 V HMC	20600	
● 3796 V SV 8	19850	
● 3796 V SV 9I	19850	
● 3796 V AAJTAK	19850	
● 3796 V AAJTAK TEZ	19850	
● 3796 V H AT INT	19850	
● 3796 V DELHI AAJTAK	19850	
● 3796 V HEADLINES TODAY	19850	
● 3796 V COPY of MAX INTERN	26500	
● 3796 V COPY of SET Intern	26500	
● 3796 V COPY of SETMAX	26500	
● 3796 V Download 200	26500	
● 3796 V MAX International	26500	
● 3796 V MAX TRAI	26500	
● 3796 V MAX UK	26500	
● 3796 V MIDDLE EAST	26500	
● 3796 V SAB INTL	26500	
● 3796 V SAB TV	26500	
● 3796 V SET Encrypted	26500	
● 3796 V SET Encrypted Finger	26500	
● 3796 V SET International	26500	
● 3796 V SETMAX	26500	
● 3796 V Cartoon India	19500	
● 3796 V Cartoon India HND	19500	
● 3796 V Cartoon India INM	19500	
● 3796 V Cartoon India TAMI	19500	
● 3796 V Cartoon India TEL	19500	
● 3796 V CNN India	19500	
● 3796 V HBO India	19500	
● 3796 V Pkg	19500	
● 3796 V Real Global Broadcasts	19500	
● 3796 V WP Pakistan	19500	
● 3796 V MTVS	20500	
● 3796 V MTVS	20500	
● 3796 V Nickelodeon-Nick Ind	20500	
● 3796 V VH1 India	20500	
● 3796 V XYZ	20500	
● 3796 V Discovery	20500	
● 3796 V X	20500	
● 3796 V H Jazera	19850	
● 3796 V H EWTN	19850	
● 3796 V BCC Radio	19850	
● 3796 V BCC MTW Radio	19850	
● 3796 V Voice of Tibet	19850	
● 3796 V WRN AAP1	19850	
● 3796 V IBN	9750	
● 3796 V IBN	9750	
● 3796 V SAMAA	3350	
● 3796 V DAWN NEWS TV	3250	
● 3796 V Ujala TV	2572	
● 3796 V DUNI TV	2672	
● 3796 V DUNYA ENT.	6500	
● 3796 V DUNYA NEWS	6500	
● 3796 V Express 24/7	6500	
● 3796 V Express Urdu	6500	

Freq Pol Channel Name	Symbol rate	GHz
● 12519 V TV1000 East (FSS)	22000	
● 12519 V TV1000	22000	
● 12519 V TV5 Explorer (FSS)	22000	
● 12519 V Viasia History (FSS)	22000	
● 12519 V Viasia Sport	22000	
● 12519 V DV12	22000	
● 12519 V Israel*	22000	
● 12519 V Radio 21	22000	
● 12519 V 24techo	22000	
● 12519 V Euronews	22000	
● 12519 V RuskiyExtrem	22000	
● 12519 V TV-21	22000	
● 12519 V Detasky	22000	
● 12519 V Fashion-TV	22000	
● 12519 V Iuzilion+	22000	
● 12519 V NEVDIGIMOST.TV	22000	
● 12519 V RuskiyJitell	22000	
● 12519 V DOPOBOE.TB	22000	
● 12519 V DRIVE	22000	
● 12519 V OKXTAAPHBALKA	22000	
● 12519 V USA84	22000	
● 12519 V Viasia Explorer (FSS)	22000	
● 12519 V SABN	22000	
● 12519 V A-One	22000	
● 12519 V APOSTOLIC ONENESS	22000	
● 12519 V InterA2	22000	
● 12519 V JCTV	22000	
● 12519 V Smile of A Child	22000	
● 12519 V Supreme Master TV	22000	
● 12519 V TBN	22000	
● 12519 V The Church Channel	22000	
● 12519 V Topshop TV	22000	
● 12519 V TV-Sale	22000	
● 12519 V AXN-SF-R	22000	
● 12519 V Fenix+ Kino	22000	
● 12519 V Fox Crime	22000	
● 12519 V Fox Life	22000	
● 12519 V Jetix Digital UK	22000	
● 12519 V ARY Digital Asia	19850	
● 12519 V ARY Middle East	19850	
● 12519 V ARY ONE World	19850	
● 12519 V ARY World	19850	
● 12519 V ARY Nick AR	19850	
● 12519 V ARY Asia	19850	
● 12519 V ARY One World	19850	
● 12519 V ARY Qib 1	19850	
● 12519 V The Hub	19850	
● 12519 V ARY Nick AR	19850	
● 12519 V Nimbuz 2	12300	
● 12519 V KES WORLD P	6510	
● 12519 V TNT	3000	
● 12519 V LA CADENA	3000	
● 12519 V FETV 0	3003	
● 12519 V APIL India	19850	
● 12519 V BBC World News	19850	
● 12519 V DISC India - English	19850	
● 12519 V DISC India - Hindi	19850	
● 12519 V DTL India	19850	
● 12519 V Encoder 4	19850	
● 12519 V BBC Burmese	19850	
● 12519 V ArrangTV V1	4400	
● 12519 V MTVS	20500	
● 12519 V Times Now	4610	
● 12519 V Hope Channel Int	3000	
● 12519 V Hope Intl All Lang2	3000	
● 12519 V Hope Intl All Lang2	3000	
● 12519 V Lifetalk Radio	3000	
● 12519 V Hungama	4000	
● 12519 V CRI Radio	3428	
● 12519 V CCTV 5	9375	
● 12519 V CCTV 9	9375	
● 12519 V CCTV E	9375	
● 12519 V INDIA TV	3000	
● 12519 V ZOOM	4000	
● 12519 V MTR		

Main table listing satellite channels with columns for Freq, Pol, Channel Name, Symbol rate, GHz, and Channel Name. Includes multiple satellite coverage maps like THAIOCS3, THAIOCS3 078.5° East, THAIOCS3 090.0° East, INSAT 2E 83.0° East, ST 1088.0° East, and MEASAT 3 091.5° East.



# SatcoDX Global Satellite Chart 04/2009

Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz
4.140 ZEE GUJRATI	27500	2.625 H Trans 7	20000	12.689 V	26667	12.691 R C-BS Welcome Chan	9080	3.871 V SK-XIN-BC	9080	4.175 V ZY2 stereo	18000	4.175 V ZY2 stereo	18000	3.820 V Zee TV
4.140 ZEE MARATHI	27500	2.625 H MTV Asia	20000	12.689 V	26667	12.691 R CVC Japan	9080	3.871 V SK-XinWen-BC	9080	4.175 V ZY3 stereo	18000	4.175 V ZY3 stereo	18000	3.820 V Mahua
4.140 ZEE PUNJABI	27500	2.625 H Radio Australia	20000	12.689 V	26667	12.730 R Bloomberg TV Japan	9080	3.871 V SK-XinYu-BC	9080	4.175 V ZY4 stereo	18000	4.175 V ZY4 stereo	18000	3.820 V Nepal-1
4.140 ZEE NEWS	27500	2.625 H Radio Danang/TPI	20000	12.689 V	26667	12.730 R Data College	9080	3.871 V SK-XinYue-BC	9080	4.175 V ZY5 stereo	18000	4.175 V ZY5 stereo	18000	3.820 V Saha National
4.140 ZEE TV - NEW	27500	2.625 H Radio Sonora	20000	12.689 V	26667	12.730 R DPSTV	9080	3.880 H CTV1-5	27500	4.175 V ZY6 stereo	18000	4.175 V ZY6 stereo	18000	3.820 V TV-5 Monde
4.140 ZEE MUSIC	27500	2.625 H Voice of America	20000	12.689 V	26667	12.730 R G+ Sport&News	9080	3.880 H CTV-6	27500	4.175 V ZY7 stereo	18000	4.175 V ZY7 stereo	18000	3.820 V BeInFan
4.140 ZEE SMILE	27500	2.655 H Al Jazeera Int'l	15000	12.689 V	26667	12.730 R Music Japan TV	9080	3.880 H CTV-7	27500	4.175 V ZY8 stereo	18000	4.175 V ZY8 stereo	18000	3.820 V H N LX
4.180 V AAG	26666	2.655 H Fashion TV	15000	12.689 V	26667	12.730 R NNN 24	9080	3.880 H CTV-8	27500	4.175 V ZY9 stereo	18000	4.175 V ZY9 stereo	18000	3.820 V H N NY
4.180 V AAG INTL	26666	2.655 H Global TV	15000	12.689 V	26667	12.730 R Science Channel	9080	3.880 H CTV-9	27500	4.175 V ZY10 stereo	18000	4.175 V ZY10 stereo	18000	3.820 V H N QC
4.180 V FEED 1	26666	2.655 H MTV Asia	20000	12.689 V	26667	12.730 R E! Entertainment	9080	3.880 H CTV-10	27500	4.175 V ZY11 stereo	18000	4.175 V ZY11 stereo	18000	3.820 V H N XQ
4.180 V FEED 2	26666	2.655 H MTV Asia	20000	12.689 V	26667	12.730 R G+ Sport&News	9080	3.880 H CTV-11	27500	4.175 V ZY12 stereo	18000	4.175 V ZY12 stereo	18000	3.820 V H N YW
4.180 V FEED 3	26666	2.655 H MTV Asia	20000	12.689 V	26667	12.730 R Music Japan TV	9080	3.880 H CTV-12	27500	4.175 V ZY13 stereo	18000	4.175 V ZY13 stereo	18000	3.820 V H N YZ
4.180 V GEO	26666	2.655 H Fashion TV	15000	12.689 V	26667	12.730 R NNN 24	9080	3.880 H CTV-13	27500	4.175 V ZY14 stereo	18000	4.175 V ZY14 stereo	18000	3.820 V H N YY
4.180 V GEO ENT B	26666	2.655 H Global TV	15000	12.689 V	26667	12.730 R Science Channel	9080	3.880 H CTV-14	27500	4.175 V ZY15 stereo	18000	4.175 V ZY15 stereo	18000	3.820 V H N ZZ
4.180 V GEO ENT U	26666	2.655 H MTV Asia	20000	12.689 V	26667	12.730 R E! Entertainment	9080	3.880 H CTV-15	27500	4.175 V ZY16 stereo	18000	4.175 V ZY16 stereo	18000	3.820 V H N AA
4.180 V GEO ME	26666	2.655 H MTV Asia	20000	12.689 V	26667	12.730 R G+ Sport&News	9080	3.880 H CTV-16	27500	4.175 V ZY17 stereo	18000	4.175 V ZY17 stereo	18000	3.820 V H N AB
4.180 V GEO NEWS INTL	26666	2.655 H MTV Asia	20000	12.689 V	26667	12.730 R Music Japan TV	9080	3.880 H CTV-17	27500	4.175 V ZY18 stereo	18000	4.175 V ZY18 stereo	18000	3.820 V H N AC
4.180 V GEO SUPER	26666	2.655 H Fashion TV	15000	12.689 V	26667	12.730 R NNN 24	9080	3.880 H CTV-18	27500	4.175 V ZY19 stereo	18000	4.175 V ZY19 stereo	18000	3.820 V H N AD
4.180 V GEO NEWS	26666	2.655 H Global TV	15000	12.689 V	26667	12.730 R Science Channel	9080	3.880 H CTV-19	27500	4.175 V ZY20 stereo	18000	4.175 V ZY20 stereo	18000	3.820 V H N AE
ASIATAS 35	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-20	27500	4.175 V ZY21 stereo	18000	4.175 V ZY21 stereo	18000	3.820 V H N AF
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-21	27500	4.175 V ZY22 stereo	18000	4.175 V ZY22 stereo	18000	3.820 V H N AG
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-22	27500	4.175 V ZY23 stereo	18000	4.175 V ZY23 stereo	18000	3.820 V H N AH
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-23	27500	4.175 V ZY24 stereo	18000	4.175 V ZY24 stereo	18000	3.820 V H N AI
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-24	27500	4.175 V ZY25 stereo	18000	4.175 V ZY25 stereo	18000	3.820 V H N AJ
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-25	27500	4.175 V ZY26 stereo	18000	4.175 V ZY26 stereo	18000	3.820 V H N AK
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-26	27500	4.175 V ZY27 stereo	18000	4.175 V ZY27 stereo	18000	3.820 V H N AL
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-27	27500	4.175 V ZY28 stereo	18000	4.175 V ZY28 stereo	18000	3.820 V H N AM
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-28	27500	4.175 V ZY29 stereo	18000	4.175 V ZY29 stereo	18000	3.820 V H N AN
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-29	27500	4.175 V ZY30 stereo	18000	4.175 V ZY30 stereo	18000	3.820 V H N AO
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-30	27500	4.175 V ZY31 stereo	18000	4.175 V ZY31 stereo	18000	3.820 V H N AP
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-31	27500	4.175 V ZY32 stereo	18000	4.175 V ZY32 stereo	18000	3.820 V H N AQ
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-32	27500	4.175 V ZY33 stereo	18000	4.175 V ZY33 stereo	18000	3.820 V H N AR
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-33	27500	4.175 V ZY34 stereo	18000	4.175 V ZY34 stereo	18000	3.820 V H N AS
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-34	27500	4.175 V ZY35 stereo	18000	4.175 V ZY35 stereo	18000	3.820 V H N AT
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-35	27500	4.175 V ZY36 stereo	18000	4.175 V ZY36 stereo	18000	3.820 V H N AV
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-36	27500	4.175 V ZY37 stereo	18000	4.175 V ZY37 stereo	18000	3.820 V H N AW
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-37	27500	4.175 V ZY38 stereo	18000	4.175 V ZY38 stereo	18000	3.820 V H N AX
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-38	27500	4.175 V ZY39 stereo	18000	4.175 V ZY39 stereo	18000	3.820 V H N AY
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-39	27500	4.175 V ZY40 stereo	18000	4.175 V ZY40 stereo	18000	3.820 V H N AZ
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-40	27500	4.175 V ZY41 stereo	18000	4.175 V ZY41 stereo	18000	3.820 V H N BA
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-41	27500	4.175 V ZY42 stereo	18000	4.175 V ZY42 stereo	18000	3.820 V H N BB
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-42	27500	4.175 V ZY43 stereo	18000	4.175 V ZY43 stereo	18000	3.820 V H N BC
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-43	27500	4.175 V ZY44 stereo	18000	4.175 V ZY44 stereo	18000	3.820 V H N BD
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-44	27500	4.175 V ZY45 stereo	18000	4.175 V ZY45 stereo	18000	3.820 V H N BE
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-45	27500	4.175 V ZY46 stereo	18000	4.175 V ZY46 stereo	18000	3.820 V H N BF
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-46	27500	4.175 V ZY47 stereo	18000	4.175 V ZY47 stereo	18000	3.820 V H N BG
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-47	27500	4.175 V ZY48 stereo	18000	4.175 V ZY48 stereo	18000	3.820 V H N BH
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-48	27500	4.175 V ZY49 stereo	18000	4.175 V ZY49 stereo	18000	3.820 V H N BI
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-49	27500	4.175 V ZY50 stereo	18000	4.175 V ZY50 stereo	18000	3.820 V H N BJ
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-50	27500	4.175 V ZY51 stereo	18000	4.175 V ZY51 stereo	18000	3.820 V H N BK
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-51	27500	4.175 V ZY52 stereo	18000	4.175 V ZY52 stereo	18000	3.820 V H N BL
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-52	27500	4.175 V ZY53 stereo	18000	4.175 V ZY53 stereo	18000	3.820 V H N BM
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-53	27500	4.175 V ZY54 stereo	18000	4.175 V ZY54 stereo	18000	3.820 V H N BN
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-54	27500	4.175 V ZY55 stereo	18000	4.175 V ZY55 stereo	18000	3.820 V H N BO
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-55	27500	4.175 V ZY56 stereo	18000	4.175 V ZY56 stereo	18000	3.820 V H N BP
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-56	27500	4.175 V ZY57 stereo	18000	4.175 V ZY57 stereo	18000	3.820 V H N BQ
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-57	27500	4.175 V ZY58 stereo	18000	4.175 V ZY58 stereo	18000	3.820 V H N BR
ASI35SA	105.5 East	12.315 V IRIB AQZOEZH	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H CTV-58	27500	4.175 V ZY59 stereo	18000	4.175 V ZY59 stereo	18000	3.820 V H N BS
ASI35SA	105.5 East	12.315 V IRIB QURAN	30000	12.689 V	26667	12.691 R CVC Japan	9080	3.880 H						



Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including Computer Music, D-Navi Station, Disco Collection, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including 3.960 V 35 KF, 3.960 V 36 Cristal and Piano Mu, etc.

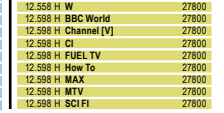
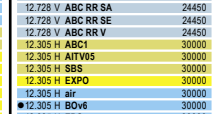
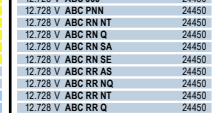
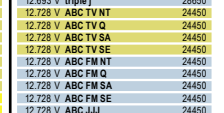
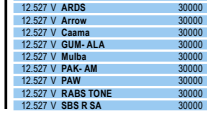
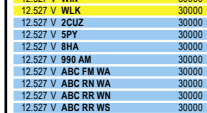
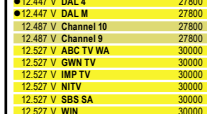
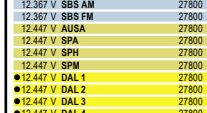
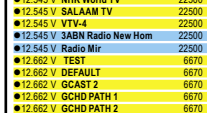
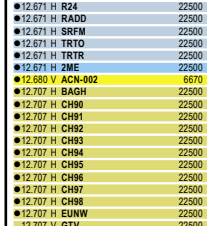
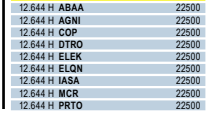
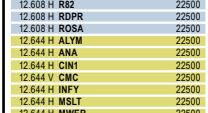
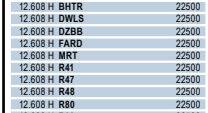
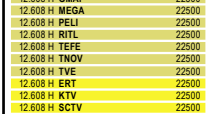
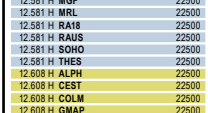
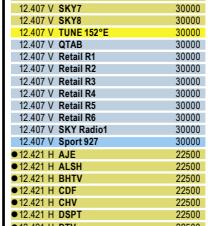
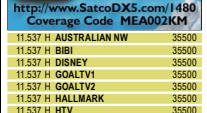
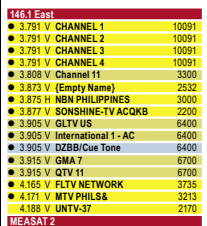
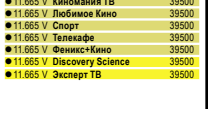
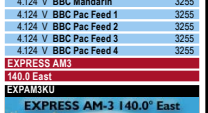
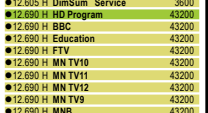
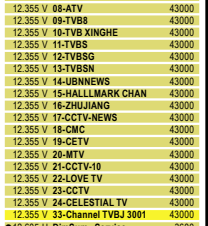
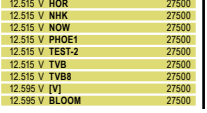
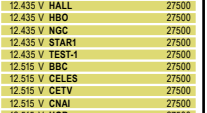
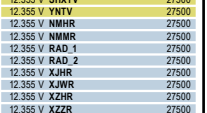
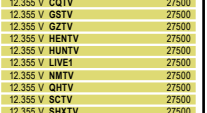
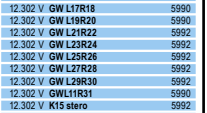
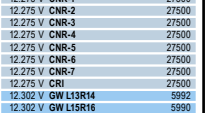
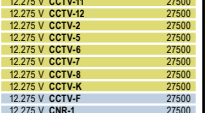
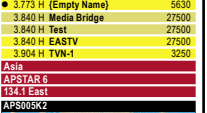
Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including 12.595 V EUROS, 12.595 V MAS, 12.595 V MTRV, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including C-Band EXPRESS AM3, EXPAM3K, EXPAM3K, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including BCC World, BCC World, BCC World, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including 12.644 H R103, 12.644 H R109, 12.644 H SOUT, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including 12.627 V SMA Bus6, 12.627 V SMA BUS7, 12.627 V Teab-BU, etc.



# SatcoDX Global Satellite Chart 04/2009

Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz
12.598 H SKY News	27800	12.594 H SKY Box Office	27800	12.311 R Antenna Satellite	20000	12.310 H HBO Signature West	19510	12.300 H C-Band AMC 11	223.0 East (131.0 West)	21500	3.800 H Caracol TV (Audio On)	27690	3.800 H Caracol TV (Audio On)	27690
12.598 H TCM	27800	12.421 H (Empty Name)	22500	12.311 R Art Sat	20000	3.740 H Lowe Stars West	19510	12.300 H North America	21500	12.300 H GALAXY 18	21500	12.300 H GALAXY 18	21500	
12.598 H VH1	27800	12.421 H ARTV	22500	12.311 R Mega Cosmos	20000	3.740 H Mystery West	19510	12.300 H GALAXY 19	21500	12.300 H GALAXY 19	21500	12.300 H GALAXY 19	21500	
12.638 H BOB	27800	12.421 H Arts Channel	22500	12.311 R Future TV USA	20000	3.740 H ShowTime Top West	19510	12.300 H GALAXY 20	21500	12.300 H GALAXY 20	21500	12.300 H GALAXY 20	21500	
12.638 H Bob Office	27800	12.421 H CBS	22500	12.311 R MTV Plus	20000	3.740 H Starz Theater West	19510	12.300 H GALAXY 21	21500	12.300 H GALAXY 21	21500	12.300 H GALAXY 21	21500	
12.638 H Channel [VJ]	27800	12.421 H CNBC	22500	12.311 R International Pro	20000	3.740 H The History Channel	19510	12.300 H GALAXY 22	21500	12.300 H GALAXY 22	21500	12.300 H GALAXY 22	21500	
12.638 H Country Music	27800	12.421 H Documentary	22500	12.311 R KDN-TV	20000	3.740 H The Movie Channel West	19510	12.300 H GALAXY 23	21500	12.300 H GALAXY 23	21500	12.300 H GALAXY 23	21500	
12.638 H Disc Health	27800	12.421 H Fashion TV	22500	12.311 R KFDV-TV	20000	3.740 H Westerns West	19510	12.300 H GALAXY 24	21500	12.300 H GALAXY 24	21500	12.300 H GALAXY 24	21500	
12.638 H Disc Science	27800	12.421 H Star Plus Hindi	22500	12.311 R KUVN-TV	20000	3.780 H Galavisión USA Este	29200	12.300 H GALAXY 25	21500	12.300 H GALAXY 25	21500	12.300 H GALAXY 25	21500	
12.638 H Disc Travel	27800	12.421 H Star Plus	22500	12.311 R KMPX-TV	20000	3.780 H Galavisión USA Oeste	29200	12.300 H GALAXY 26	21500	12.300 H GALAXY 26	21500	12.300 H GALAXY 26	21500	
12.638 H EI	27800	12.421 H HCNB	22500	12.311 R KSTP-TV	20000	3.780 H Telefe Uruguay	29200	12.300 H GALAXY 27	21500	12.300 H GALAXY 27	21500	12.300 H GALAXY 27	21500	
12.638 H Eurosports	27800	12.456 H C4	22500	12.311 R HERO Channel	20000	3.780 H Unifon Este	29200	12.300 H GALAXY 28	21500	12.300 H GALAXY 28	21500	12.300 H GALAXY 28	21500	
12.638 H FTV	27800	12.456 H Parliament TV	22500	12.311 R EDTV Channel West	20000	3.780 H The California Chann	30000	12.300 H GALAXY 29	21500	12.300 H GALAXY 29	21500	12.300 H GALAXY 29	21500	
12.638 H Nick Jr	27800	12.456 H Te Reo	22500	12.311 R ESC 1 USA	20000	3.800 H Black Starz West	19510	12.300 H GALAXY 30	21500	12.300 H GALAXY 30	21500	12.300 H GALAXY 30	21500	
12.638 H AIR1	27800	12.456 H BaseFM	22500	12.428 R HD Plus	20000	3.800 H V Encore West	19510	12.300 H GALAXY 31	21500	12.300 H GALAXY 31	21500	12.300 H GALAXY 31	21500	
12.638 H AIR2	27800	12.456 H GeorgeFM	22500	3.790 V KBS WORLD N	6507	3.800 H MoviePlus West	19510	12.300 H GALAXY 32	21500	12.300 H GALAXY 32	21500	12.300 H GALAXY 32	21500	
12.638 H AIR3	27800	12.456 H RNZ Concert	22500	3.790 V YTN N	6507	3.800 H Starz Cinema East	19510	12.300 H GALAXY 33	21500	12.300 H GALAXY 33	21500	12.300 H GALAXY 33	21500	
12.638 H AIR4	27800	12.456 H RNZ National	22500	3.808 V Radio Services	5632	3.800 H Starz Family East	19510	12.300 H GALAXY 34	21500	12.300 H GALAXY 34	21500	12.300 H GALAXY 34	21500	
12.638 H AIR5	27800	12.456 H (Empty Name)	22500	3.815 V AirringTV W2	4400	3.800 H Starz Kids West	19510	12.300 H GALAXY 35	21500	12.300 H GALAXY 35	21500	12.300 H GALAXY 35	21500	
12.638 H AIR6	27800	12.456 H Maori TV	22500	3.833 V TVBS-Asia	17500	3.800 H Starz Theater West	19510	12.300 H GALAXY 36	21500	12.300 H GALAXY 36	21500	12.300 H GALAXY 36	21500	
12.638 H AIR7	27800	12.483 H Reserved 4	22500	3.833 V TVBS-3	17500	3.800 H Starz Theater East	19510	12.300 H GALAXY 37	21500	12.300 H GALAXY 37	21500	12.300 H GALAXY 37	21500	
12.638 H AIR8	27800	12.483 H Reserved 5	22500	3.833 V TVBS-N	17500	3.800 H Starz Cinema West	19510	12.300 H GALAXY 38	21500	12.300 H GALAXY 38	21500	12.300 H GALAXY 38	21500	
12.638 H AIR9	27800	12.483 H Reserved 6	22500	3.833 V TVBS-N	17500	3.800 H Starz Family West	19510	12.300 H GALAXY 39	21500	12.300 H GALAXY 39	21500	12.300 H GALAXY 39	21500	
12.638 H AIR10	27800	12.483 H Reserved 7	22500	3.833 V TVBS-N	17500	3.800 H Starz Kids East	19510	12.300 H GALAXY 40	21500	12.300 H GALAXY 40	21500	12.300 H GALAXY 40	21500	
12.638 H AIR11	27800	12.483 H TV ONE	22500	3.833 V TVBS-N	17500	3.800 H Starz Theater East	19510	12.300 H GALAXY 41	21500	12.300 H GALAXY 41	21500	12.300 H GALAXY 41	21500	
12.638 H AIR12	27800	12.483 H TV 2	22500	3.833 V TVBS-N	17500	3.800 H Starz Cinema East	19510	12.300 H GALAXY 42	21500	12.300 H GALAXY 42	21500	12.300 H GALAXY 42	21500	
12.638 H AIR13	27800	12.483 H TV 2	22500	3.833 V TVBS-N	17500	3.800 H Starz Family East	19510	12.300 H GALAXY 43	21500	12.300 H GALAXY 43	21500	12.300 H GALAXY 43	21500	
12.638 H AIR14	27800	12.483 H TVN 6	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Kids West	19510	12.300 H GALAXY 44	21500	12.300 H GALAXY 44	21500	12.300 H GALAXY 44	21500	
12.638 H AIR15	27800	12.483 H TVN 7	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Theater West	19510	12.300 H GALAXY 45	21500	12.300 H GALAXY 45	21500	12.300 H GALAXY 45	21500	
12.638 H AIR16	27800	12.483 H TVN 7 SPORT EXTRA	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Cinema West	19510	12.300 H GALAXY 46	21500	12.300 H GALAXY 46	21500	12.300 H GALAXY 46	21500	
12.638 H AIR17	27800	12.519 H B3	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Family West	19510	12.300 H GALAXY 47	21500	12.300 H GALAXY 47	21500	12.300 H GALAXY 47	21500	
12.638 H AIR18	27800	12.519 H Cartoon Network	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Kids East	19510	12.300 H GALAXY 48	21500	12.300 H GALAXY 48	21500	12.300 H GALAXY 48	21500	
12.638 H AIR19	27800	12.519 H CT1 V	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Theater East	19510	12.300 H GALAXY 49	21500	12.300 H GALAXY 49	21500	12.300 H GALAXY 49	21500	
12.638 H AIR20	27800	12.519 H Preview	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Cinema East	19510	12.300 H GALAXY 50	21500	12.300 H GALAXY 50	21500	12.300 H GALAXY 50	21500	
12.638 H AIR21	27800	12.519 H H Preview	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Family East	19510	12.300 H GALAXY 51	21500	12.300 H GALAXY 51	21500	12.300 H GALAXY 51	21500	
12.638 H AIR22	27800	12.519 H SKY Movies	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Kids West	19510	12.300 H GALAXY 52	21500	12.300 H GALAXY 52	21500	12.300 H GALAXY 52	21500	
12.638 H AIR23	27800	12.519 H M1	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Theater West	19510	12.300 H GALAXY 53	21500	12.300 H GALAXY 53	21500	12.300 H GALAXY 53	21500	
12.638 H AIR24	27800	12.519 H M2	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Cinema West	19510	12.300 H GALAXY 54	21500	12.300 H GALAXY 54	21500	12.300 H GALAXY 54	21500	
12.638 H AIR25	27800	12.519 H M3	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Family West	19510	12.300 H GALAXY 55	21500	12.300 H GALAXY 55	21500	12.300 H GALAXY 55	21500	
12.638 H AIR26	27800	12.519 H M4	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Kids East	19510	12.300 H GALAXY 56	21500	12.300 H GALAXY 56	21500	12.300 H GALAXY 56	21500	
12.638 H AIR27	27800	12.519 H M5	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Theater East	19510	12.300 H GALAXY 57	21500	12.300 H GALAXY 57	21500	12.300 H GALAXY 57	21500	
12.638 H AIR28	27800	12.519 H M6	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Cinema East	19510	12.300 H GALAXY 58	21500	12.300 H GALAXY 58	21500	12.300 H GALAXY 58	21500	
12.638 H AIR29	27800	12.519 H M7	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Family East	19510	12.300 H GALAXY 59	21500	12.300 H GALAXY 59	21500	12.300 H GALAXY 59	21500	
12.638 H AIR30	27800	12.519 H M8	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Kids West	19510	12.300 H GALAXY 60	21500	12.300 H GALAXY 60	21500	12.300 H GALAXY 60	21500	
12.638 H AIR31	27800	12.519 H M9	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Theater West	19510	12.300 H GALAXY 61	21500	12.300 H GALAXY 61	21500	12.300 H GALAXY 61	21500	
12.638 H AIR32	27800	12.519 H M10	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Cinema West	19510	12.300 H GALAXY 62	21500	12.300 H GALAXY 62	21500	12.300 H GALAXY 62	21500	
12.638 H AIR33	27800	12.519 H M11	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Family West	19510	12.300 H GALAXY 63	21500	12.300 H GALAXY 63	21500	12.300 H GALAXY 63	21500	
12.638 H AIR34	27800	12.519 H M12	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Kids East	19510	12.300 H GALAXY 64	21500	12.300 H GALAXY 64	21500	12.300 H GALAXY 64	21500	
12.638 H AIR35	27800	12.519 H M13	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Theater East	19510	12.300 H GALAXY 65	21500	12.300 H GALAXY 65	21500	12.300 H GALAXY 65	21500	
12.638 H AIR36	27800	12.519 H M14	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Cinema East	19510	12.300 H GALAXY 66	21500	12.300 H GALAXY 66	21500	12.300 H GALAXY 66	21500	
12.638 H AIR37	27800	12.519 H M15	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Family East	19510	12.300 H GALAXY 67	21500	12.300 H GALAXY 67	21500	12.300 H GALAXY 67	21500	
12.638 H AIR38	27800	12.519 H M16	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Kids West	19510	12.300 H GALAXY 68	21500	12.300 H GALAXY 68	21500	12.300 H GALAXY 68	21500	
12.638 H AIR39	27800	12.519 H M17	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Theater West	19510	12.300 H GALAXY 69	21500	12.300 H GALAXY 69	21500	12.300 H GALAXY 69	21500	
12.638 H AIR40	27800	12.519 H M18	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Cinema West	19510	12.300 H GALAXY 70	21500	12.300 H GALAXY 70	21500	12.300 H GALAXY 70	21500	
12.638 H AIR41	27800	12.519 H M19	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Family West	19510	12.300 H GALAXY 71	21500	12.300 H GALAXY 71	21500	12.300 H GALAXY 71	21500	
12.638 H AIR42	27800	12.519 H M20	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Kids East	19510	12.300 H GALAXY 72	21500	12.300 H GALAXY 72	21500	12.300 H GALAXY 72	21500	
12.638 H AIR43	27800	12.519 H M21	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Theater East	19510	12.300 H GALAXY 73	21500	12.300 H GALAXY 73	21500	12.300 H GALAXY 73	21500	
12.638 H AIR44	27800	12.519 H M22	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Cinema East	19510	12.300 H GALAXY 74	21500	12.300 H GALAXY 74	21500	12.300 H GALAXY 74	21500	
12.638 H AIR45	27800	12.519 H M23	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Family East	19510	12.300 H GALAXY 75	21500	12.300 H GALAXY 75	21500	12.300 H GALAXY 75	21500	
12.638 H AIR46	27800	12.519 H M24	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Kids West	19510	12.300 H GALAXY 76	21500	12.300 H GALAXY 76	21500	12.300 H GALAXY 76	21500	
12.638 H AIR47	27800	12.519 H M25	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Theater West	19510	12.300 H GALAXY 77	21500	12.300 H GALAXY 77	21500	12.300 H GALAXY 77	21500	
12.638 H AIR48	27800	12.519 H M26	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Cinema West	19510	12.300 H GALAXY 78	21500	12.300 H GALAXY 78	21500	12.300 H GALAXY 78	21500	
12.638 H AIR49	27800	12.519 H M27	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Family West	19510	12.300 H GALAXY 79	21500	12.300 H GALAXY 79	21500	12.300 H GALAXY 79	21500	
12.638 H AIR50	27800	12.519 H M28	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Kids East	19510	12.300 H GALAXY 80	21500	12.300 H GALAXY 80	21500	12.300 H GALAXY 80	21500	
12.638 H AIR51	27800	12.519 H M29	22500	3.880 V A copy of ANC statio	28700	3.800 H Starz Theater East	19510	12.300 H GALAXY 81	21					

Main table containing satellite data with columns for Freq Pol Channel Name, Symbol rate GHz, and Freq Pol Channel Name, Symbol rate GHz. Includes various satellite names and frequencies.

AMC 16 27.5° East
Ku-Band
39.41 47
http://www.SatcoDX.com/2750
Coverage Code: AMC16K16

ECHOSTAR 7 241.0° East
Ku-Band
39.41 47
http://www.SatcoDX.com/2410
Coverage Code: ECH0707K

ECHOSTAR 9 239.0° East
Ku-Band
39.41 47
http://www.SatcoDX.com/2390
Coverage Code: ECH0909K

ECHOSTAR 10 239.0° East
Ku-Band
39.41 47
http://www.SatcoDX.com/2390
Coverage Code: ECH1000K

239.1 East (120.9 West)
Ku-Band
39.41 47
http://www.SatcoDX.com/2390
Coverage Code: ECH1000K

242.9 East (113.1 West)
Ku-Band
39.41 47
http://www.SatcoDX.com/2429
Coverage Code: SA12MEX5

242.9 East (113.1 West)
Ku-Band
39.41 47
http://www.SatcoDX.com/2429
Coverage Code: SA12MEX5

242.9 East (113.1 West)
Ku-Band
39.41 47
http://www.SatcoDX.com/2429
Coverage Code: SA12MEX5

242.9 East (113.1 West)
Ku-Band
39.41 47
http://www.SatcoDX.com/2429
Coverage Code: SA12MEX5

245.1 East (114.9 West)
Ku-Band
39.41 47
http://www.SatcoDX.com/2451
Coverage Code: SOLIDARIDAD 2

245.1 East (114.9 West)
Ku-Band
39.41 47
http://www.SatcoDX.com/2451
Coverage Code: SOLIDARIDAD 2

247.0 East (110.0 West)
Ku-Band
39.41 47
http://www.SatcoDX.com/2470
Coverage Code: 250.0 East (110.0 West)

247.0 East (110.0 West)
Ku-Band
39.41 47
http://www.SatcoDX.com/2470
Coverage Code: 250.0 East (110.0 West)

250.0 East (110.0 West)
Ku-Band
39.41 47
http://www.SatcoDX.com/2500
Coverage Code: 250.0 East (110.0 West)

250.0 East (110.0 West)
Ku-Band
39.41 47
http://www.SatcoDX.com/2500
Coverage Code: 250.0 East (110.0 West)

250.0 East (110.0 West)
Ku-Band
39.41 47
http://www.SatcoDX.com/2500
Coverage Code: 250.0 East (110.0 West)

250.0 East (110.0 West)
Ku-Band
39.41 47
http://www.SatcoDX.com/2500
Coverage Code: 250.0 East (110.0 West)

250.0 East (110.0 West)
Ku-Band
39.41 47
http://www.SatcoDX.com/2500
Coverage Code: 250.0 East (110.0 West)

250.0 East (110.0 West)
Ku-Band
39.41 47
http://www.SatcoDX.com/2500
Coverage Code: 250.0 East (110.0 West)

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Ku-Band
39.41 47
http://www.SatcoDX.com/2500
Coverage Code: 250.0 East (110.0 West)

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http://www.SatcoDX.com/2500
Coverage Code: 250.0 East (110.0 West)

250.0 East (110.0 West)
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39.41 47
http://www.SatcoDX.com/2500
Coverage Code: 250.0 East (110.0 West)

250.0 East (110.0 West)
Ku-Band
39.41 47
http://www.SatcoDX.com/2500
Coverage Code: 250.0 East (110.0 West)

250.0 East (110.0 West)
Ku-Band
39.41 47
http://www.SatcoDX.com/2500
Coverage Code: 250.0 East (110.0 West)

250.0 East (110.0 West)
Ku-Band
39.41 47
http://www.SatcoDX.com/2500
Coverage Code: 250.0 East (110.0 West)

# SatcoDX Global Satellite Chart 04/2009

Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz
11589 V Channel 3	7234	11589 V Channel 3	7234	11589 V Channel 3	7234	11589 V Channel 3	7234	11589 V Channel 3	7234	11589 V Channel 3	7234	11589 V Channel 3	7234	11589 V Channel 3
11589 V Channel 3	7234	11589 V Channel 3	7234	11589 V Channel 3	7234	11589 V Channel 3	7234	11589 V Channel 3	7234	11589 V Channel 3	7234	11589 V Channel 3	7234	11589 V Channel 3

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.175 W JRYM MUSIC 5147, 12.177 W MACYS 4 5147, 12.177 W MACYS 5 5147.

North America GALAXY 11.17 269.0 East (9.0 West) GXY11C



C-Band 30 36 40 http://www.SatcoDX7.com/2690 Coverage Code GXY11C1B

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 3.720 H The CW Central/Mount 26700, 3.740 W Fox Sports Feeds (B) 27800, 3.740 W Fox Sports Feeds (A) 27800.

North America GALAXY 11.17 269.0 East (9.0 West) GXY11C

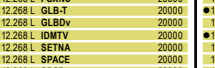


C-Band 30 36 40 http://www.SatcoDX7.com/2690 Coverage Code GXY11C1B

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.239 L CW11 20000, 12.239 L GAME 20000, 12.239 L HLTH 20000.

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.239 L CW11 20000, 12.239 L GAME 20000, 12.239 L HLTH 20000.

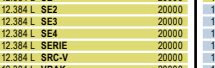
North America GALAXY 11.17 269.0 East (9.0 West) GXY11C



C-Band 30 36 40 http://www.SatcoDX7.com/2690 Coverage Code GXY11C1B

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.239 L CW11 20000, 12.239 L GAME 20000, 12.239 L HLTH 20000.

North America GALAXY 11.17 269.0 East (9.0 West) GXY11C

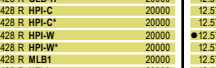


C-Band 30 36 40 http://www.SatcoDX7.com/2690 Coverage Code GXY11C1B

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.239 L CW11 20000, 12.239 L GAME 20000, 12.239 L HLTH 20000.

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.239 R VU10 20000, 12.239 R VU11 20000, 12.239 R VU12 20000.

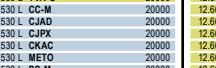
North America GALAXY 11.17 269.0 East (9.0 West) GXY11C



C-Band 30 36 40 http://www.SatcoDX7.com/2690 Coverage Code GXY11C1B

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.239 R VU10 20000, 12.239 R VU11 20000, 12.239 R VU12 20000.

North America GALAXY 11.17 269.0 East (9.0 West) GXY11C



C-Band 30 36 40 http://www.SatcoDX7.com/2690 Coverage Code GXY11C1B

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.239 R VU10 20000, 12.239 R VU11 20000, 12.239 R VU12 20000.

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.239 R VU10 20000, 12.239 R VU11 20000, 12.239 R VU12 20000.

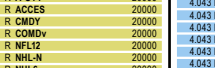
North America GALAXY 11.17 269.0 East (9.0 West) GXY11C



C-Band 30 36 40 http://www.SatcoDX7.com/2690 Coverage Code GXY11C1B

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.239 R VU10 20000, 12.239 R VU11 20000, 12.239 R VU12 20000.

North America GALAXY 11.17 269.0 East (9.0 West) GXY11C

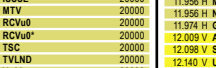


C-Band 30 36 40 http://www.SatcoDX7.com/2690 Coverage Code GXY11C1B

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.239 R VU10 20000, 12.239 R VU11 20000, 12.239 R VU12 20000.

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.261 R VU10 20000, 12.261 R VU11 20000, 12.261 R VU12 20000.

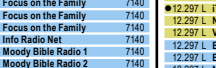
North America GALAXY 11.17 269.0 East (9.0 West) GXY11C



C-Band 30 36 40 http://www.SatcoDX7.com/2690 Coverage Code GXY11C1B

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.261 R VU10 20000, 12.261 R VU11 20000, 12.261 R VU12 20000.

North America GALAXY 11.17 269.0 East (9.0 West) GXY11C

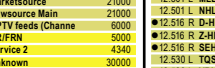


C-Band 30 36 40 http://www.SatcoDX7.com/2690 Coverage Code GXY11C1B

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.261 R VU10 20000, 12.261 R VU11 20000, 12.261 R VU12 20000.

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 4.174 H S0 Test Card 3024, AMC3 273.0° East.

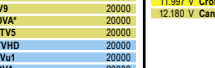
North America GALAXY 11.17 269.0 East (9.0 West) GXY11C



C-Band 30 36 40 http://www.SatcoDX7.com/2730 Coverage Code AMC003KB

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 11.735 W AR/FRN 30000, 11.735 W ENGLISH 6102, 11.735 W INFO 6102.

North America GALAXY 11.17 269.0 East (9.0 West) GXY11C

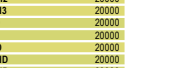


C-Band 30 36 40 http://www.SatcoDX7.com/2730 Coverage Code AMC003KB

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 11.735 W AR/FRN 30000, 11.735 W ENGLISH 6102, 11.735 W INFO 6102.

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.384 L DISHD 20000, 12.384 L HDH1 20000, 12.384 L HDV2 20000.

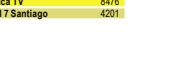
North America GALAXY 11.17 269.0 East (9.0 West) GXY11C



C-Band 30 36 40 http://www.SatcoDX7.com/2884 Coverage Code NAH001K

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 11.649 V Canal 7 3700, 11.680 L La Pampa 3385, 11.692 V Canal 9 3385.

North America GALAXY 11.17 269.0 East (9.0 West) GXY11C



C-Band 30 36 40 http://www.SatcoDX7.com/2884 Coverage Code NAH001K

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 11.649 V Canal 7 3700, 11.680 L La Pampa 3385, 11.692 V Canal 9 3385.









Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes sections for Europe, ATLANTIC BIRD 3, and AMOS 2.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes sections for ATLANTIC BIRD 3, AMOS 2, and AMOS 3.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes sections for AMOS 2, AMOS 3, and AMOS 4.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes sections for AMOS 2, AMOS 3, and AMOS 4.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes sections for AMOS 2, AMOS 3, and AMOS 4.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes sections for AMOS 2, AMOS 3, and AMOS 4.

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Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes sections for AMOS 2, AMOS 3, and AMOS 4.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes sections for AMOS 2, AMOS 3, and AMOS 4.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes sections for AMOS 2, AMOS 3, and AMOS 4.

# SatcoDX Global Satellite Chart 04/2009

Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate
GHz		GHz		GHz		GHz		GHz	
12.169 H McBox	28000	11.785 H Nat Geo Wild RO	28000	4.025 R BBC English (W.A.)	7324	TH0002KU		12.456 V Discov Science	28000
12.169 H Planets TV	28000	11.785 H BBC English Mid-Ea	7324	4.025 R BBC English News	7324	THOR 2 359.2° East		12.456 V World Carnival	28000
12.169 H SKAT	28000	11.785 H TV 6	28000	4.025 R BBC French	7324			12.456 V MTV2 (Cable)	28000
12.169 H Telesat TV	28000	11.785 H Music Channel	28000	4.025 R BBC Pashto	7324			12.456 V Jazz Classics	28000
12.169 H TV LUX	28000	11.785 H Radio Gaga	28000	4.025 R BBC Portuguese	7324			12.456 V Just Chill Out	28000
12.169 H Alpha 3	28000	12.015 H Canal HD	28000	4.025 R BBC Somali	7324			12.456 V Discovery Travel	28000
12.169 H Alpha Radio	28000	11.538 H CANAL+ SPORT HD	25000	4.025 R BBC Swahili	7324			12.456 V Nick-VH1 TS	28000
12.169 H BG Radio	28000	12.128 H TV Norge HD	30000	INTELSAT 10-02				12.456 V Rock Anthems	28000
12.169 H ENERGY	28000	12.128 H TV Norge HD	30000	INS002				12.456 V Sky News	28000
12.169 H Focus Prima	28000	12.188 H Silver HD	25000	INS003				12.456 V Soul Classics	28000
12.169 H Focus Sofia	28000	12.188 H Voom HD	25000	INS004				12.456 V Strictly 60s	28000
12.169 H Focus Varnovo	28000	12.418 H DR1 Syd	28000	INS005				12.456 V The Alternative	28000
12.169 H Focus Varma	28000	12.418 H DR2 Syd	28000	INS006				12.456 V Total Hits	28000
12.169 H HIT FM	28000	12.418 H DTV2 (Cable)	28000	INS007				12.456 V Total Hits Italy	28000
12.169 H HORNET Radio	28000	12.418 H NRK1 Reserve	28000	INS008				12.456 V Total Hits Nordi	28000
12.169 H Njory	28000	12.418 H TV Finland	28000	INS009				12.456 V Urban	28000
12.169 H OMV ROMANIA	28000	12.418 H Nautilus	28000	INS010				12.456 V VH1 Classic	28000
12.169 H Radio 1	28000	12.418 H The Poker Channel	28000	INS011				12.456 V World's Best Music	28000
12.169 H Radio City 2	28000	12.418 H TV Patriot	28000	INS012				12.456 V Xmas & Kids	28000
12.169 H Radio FM+	28000	12.418 H DR Klassisk Syd	28000	INS013				12.476 H Eurosport	27800
12.169 H Radio Fresh	28000	12.418 H DR P1 Syd	28000	INS014				12.476 H Eurosport 2	27800
12.169 H Radio Misa	28000	12.418 H DR P2 Syd	28000	INS015				12.476 H TV-Bijljet 1	27800
12.169 H Radio1 Rock	28000	12.418 H DR P3 Syd	28000	INS016				12.476 H TV-Bijljet 2	27800
12.169 H STAR FM	28000	12.418 H DR P4 Syd	28000	INS017				12.476 H TV4 Guid	27800
12.169 H Test Radio	28000	12.418 H EKPRFS mp2	28000	INS018				12.476 H TV4 Komedi	27800
12.169 H Veronica	28000	12.418 H KISS	28000	INS019					
12.169 H Z-ROCK	28000	12.418 H NRK AN Reserve	28000	INS020					
12.226 V ESPN America	28000	12.418 H NRK P1 Reserve	28000	INS021					
12.226 V ESPN Classic	28000	12.418 H Radio One	28000	INS022					
12.226 V TV 2 Sport 2	28000	12.418 H Scandinavian Satelli	28000	INS023					
12.226 V TV (N)	28000	12.418 H Ylesat 1	28000	INS024					
12.226 V TV8	28000	12.418 H Ylesat 2	28000	INS025					
12.226 V Scandinavian Satelli	28000	12.428 H DR1 Syd	28000	INS026					
12.245 H Antena 1	28000	12.428 H DR2 Syd	28000	INS027					
12.245 H Favorit TV	28000	12.428 H DTV2 (Cable)	28000	INS028					
12.245 H Hallmark	28000	12.428 H NRK1 Reserve	28000	INS029					
12.245 H Hustler TV	28000	12.428 H TV Finland	28000	INS030					
12.245 H Minimax	28000	12.428 H Nautilus	28000	INS031					
12.245 H MTV Romania	28000	12.428 H The Poker Channel	28000	INS032					
12.245 H National TV	28000	12.428 H TV Patriot	28000	INS033					
12.245 H Prima TV	28000	12.428 H DR Klassisk Syd	28000	INS034					
12.245 H Realitatea TV	28000	12.428 H DR P1 Syd	28000	INS035					
12.245 H Romantica	28000	12.428 H DR P2 Syd	28000	INS036					
12.245 H Telesport	28000	12.428 H DR P3 Syd	28000	INS037					
12.245 H TVR 1	28000	12.428 H DR P4 Syd	28000	INS038					
12.245 H TVR 2	28000	12.428 H EKPRFS mp2	28000	INS039					
12.245 H TVR Cultural	28000	12.428 H KISS	28000	INS040					
12.245 H TVR 3	28000	12.428 H NRK AN Reserve	28000	INS041					
12.303 V SVT1	27800	12.428 H NRK P1 Reserve	28000	INS042					
12.303 V SVT1 Gävle	27800	12.428 H Radio One	28000	INS043					
12.303 V SVT1 Gävle	27800	12.428 H Scandinavian Satelli	28000	INS044					
12.303 V SVT1 Jämtland	27800	12.428 H Ylesat 1	28000	INS045					
12.303 V SVT1 Jönköping	27800	12.428 H Ylesat 2	28000	INS046					
12.303 V SVT1 MittiNytt	27800	INS047		INS047					
12.303 V SVT1 Nordlytt	27800	INS048		INS048					
12.303 V SVT1 SmålandNytt	27800	INS049		INS049					
12.303 V SVT1 SydNytt	27800	INS050		INS050					
12.303 V SVT1 Talande Extrem	27800	INS051		INS051					
12.303 V SVT1 Träsnytt	27800	INS052		INS052					
12.303 V SVT1 Västernytt	27800	INS053		INS053					
12.303 V SVT1 VästNytt	27800	INS054		INS054					
12.303 V SVT2 Gävle	27800	INS055		INS055					
12.303 V SVT2 Jämtland	27800	INS056		INS056					
12.303 V SVT2 Jönköping	27800	INS057		INS057					
12.303 V SVT2 MittiNytt	27800	INS058		INS058					
12.303 V SVT2 Nordlytt	27800	INS059		INS059					
12.303 V SVT2 SmålandNytt	27800	INS060		INS060					
12.303 V SVT2 SydNytt	27800	INS061		INS061					
12.303 V SVT2 Talande Extrem	27800	INS062		INS062					
12.303 V SVT2 Träsnytt	27800	INS063		INS063					
12.303 V SVT2 Västernytt	27800	INS064		INS064					
12.303 V SVT2 VästNytt	27800	INS065		INS065					
12.322 H TV 2 Norge	27800	INS066		INS066					
12.322 H Al Jazeera English	27800	INS067		INS067					
12.322 H JIM	27800	INS068		INS068					
12.322 H Playhouse Disney	27800	INS069		INS069					
12.322 H Rikstoto Direkte	27800	INS070		INS070					
12.322 H Subtv	27800	INS071		INS071					
12.322 H TV Norge	27800	INS072		INS072					
12.322 H P4	27800	INS073		INS073					
12.322 H Radio Oslo	27800	INS074		INS074					
12.399 H Nelonen HD	28000	INS075		INS075					
12.399 H Nautilus	28000	INS076		INS076					
12.456 V Discov Science	28000	INS077		INS077					
12.456 V Discov Travel	28000	INS078		INS078					
12.456 V Discov World	28000	INS079		INS079					
12.456 V Nick(S)-VH1 TS	28000	INS080		INS080					
12.456 V Nick-VH1 TS	28000	INS081		INS081					
12.456 V Nickelodeon	28000	INS082		INS082					
12.456 V Nickelodeon (S)	28000	INS083		INS083					
12.476 H Eurosport	27800	INS084		INS084					
12.476 H Eurosport 2	27800	INS085		INS085					
12.476 H TV-Bijljet 1	27800	INS086		INS086					
12.476 H TV-Bijljet 2	27800	INS087		INS087					
12.476 H TV4 Guid	27800	INS088		INS088					
12.476 H TV4 Komedi	27800	INS089		INS089					
12.476 H TV4 Science Fiction	27800	INS090		INS090					
12.476 H SVT1	24500	INS091		INS091					
12.476 H SVT1 Gävle	24500	INS092		INS092					
12.476 H SVT1 Gävle	24500	INS093		INS093					
12.476 H SVT1 Jämtland	24500	INS094		INS094					
12.476 H SVT1 Jönköping	24500	INS095		INS095					
12.476 H SVT1 MittiNytt	24500	INS096		INS096					
12.476 H SVT1 Nordlytt	24500	INS097		INS097					
12.476 H SVT1 SmålandNytt	24500	INS098		INS098					
12.476 H SVT1 SydNytt	24500	INS099		INS099					
12.476 H SVT1 Talande Extrem	24500	INS100		INS100					
12.476 H SVT1 Träsnytt	24500	INS101		INS101					
12.476 H SVT1 Västernytt	24500	INS102		INS102					
12.476 H SVT1 VästNytt	24500	INS103		INS103					
12.480 H SVT2	24500	INS104		INS104					
12.480 H SVT2 Gävle	24500	INS105		INS105					
12.480 H SVT2 Gävle	24500	INS106		INS106					
12.480 H SVT2 Jämtland	24500	INS107		INS107					
12.480 H SVT2 Jönköping	24500	INS108		INS108					
12.480 H SVT2 MittiNytt	24500	INS109		INS109					
12.480 H SVT2 Nordlytt	24500	INS110		INS110					
12.480 H SVT2 SmålandNytt	24500	INS111		INS111					
12.480 H SVT2 SydNytt	24500	INS112		INS112					
12.480 H SVT2 Talande Extrem	24500	INS113		INS113					
12.480 H SVT2 Träsnytt	24500	INS114		INS114					
12.480 H SVT2 Västernytt	24500	INS115		INS115					
12.480 H SVT2 VästNytt	24500	INS116		INS116					
12.480 H SVT3	24500	INS117		INS117					
12.480 H SVT3 Gävle	24500	INS118		INS118					
12.480 H SVT3 Jämtland	24500	INS119		INS119					
12.480 H SVT3 Jönköping	24500	INS120		INS120					
12.480 H SVT3 MittiNytt	24500	INS121		INS121					

# SatcoDX World Statistics



Alexandru Porosanu  
TELE-satellite  
Statistics Center  
Romania

## Top 60 Video PIDs Worldwide

Video PID	Feb 2008	Jan 2009	Feb 2009	2009/2008
512	344	348	348	1.16%
513	313	291	291	-7.03%
1160	309	280	280	-9.39%
308	290	257	257	-11.38%
33	253	212	212	-16.21%
514	273	211	211	-22.71%
516	196	196	196	0.00%
515	191	195	195	2.09%
4130	197	194	194	-1.52%
518	165	180	180	9.09%
1260	203	176	176	-13.30%
517	159	162	162	1.89%
519	149	151	151	1.34%
163	178	147	147	-17.42%
160	148	146	146	-1.35%
161	147	142	142	-3.40%
1360	162	139	139	-14.20%
521	137	129	129	-5.84%
162	127	123	123	-3.15%
520	133	121	121	-9.02%
165	114	121	121	6.14%
1760	168	115	115	-31.55%
101	111	112	112	0.90%
5922	105	112	112	6.67%
1460	129	108	108	-16.28%
166	98	105	105	7.14%
4194	131	103	103	-21.37%
169	84	101	101	20.24%
167	94	99	99	5.32%
4386	81	98	98	20.99%
524	62	97	97	56.45%
4642	84	95	95	13.10%
164	107	94	94	-12.15%
110	94	91	91	-3.19%
6178	63	90	90	42.86%
522	81	90	90	11.11%
168	103	89	89	-13.59%
1660	97	89	89	-8.25%
5154	73	88	88	20.55%
4898	71	87	87	22.54%
257	80	86	86	7.50%
5666	78	86	86	10.26%
1110	89	84	84	-5.62%
1560	89	83	83	-6.74%
523	82	82	82	0.00%
171	79	81	81	2.53%
201	68	79	79	16.18%
6434	58	78	78	34.48%
5410	67	76	76	13.43%
170	84	74	74	-11.90%
501	61	73	73	19.67%
301	68	71	71	4.41%

## Top 60 Audio PIDs Worldwide

Audio PID	Feb 2008	Jan 2009	Feb 2009	2009/2008
256	328	300	300	-8.54%
1120	296	262	262	-11.49%
4131	181	175	175	-3.31%
100	163	171	171	4.91%
660	163	154	154	-5.52%
640	126	154	154	22.22%
1220	183	152	152	-16.94%
650	157	146	146	-7.01%
80	142	133	133	-6.34%
84	135	126	126	-6.67%
1320	146	125	125	-14.38%
34	144	118	118	-18.06%
104	106	116	116	9.43%
36	132	112	112	-15.15%
88	116	112	112	-3.45%
700	107	111	111	3.74%
108	101	102	102	0.99%
5923	98	102	102	4.08%
102	105	101	101	-3.81%
4195	123	99	99	-19.51%
1420	114	99	99	-13.16%
92	102	95	95	-6.86%
680	104	94	94	-9.62%
96	102	93	93	-8.82%
670	155	92	92	-40.65%
112	95	90	90	-5.26%
4387	75	90	90	20.00%
400	112	89	89	-20.54%
202	78	88	88	12.82%
6179	60	87	87	45.00%
4643	77	87	87	12.99%
641	83	84	84	1.20%
258	88	84	84	-4.55%
1620	89	81	81	-8.99%
4899	68	81	81	19.12%
402	78	79	79	1.28%
116	82	78	78	-4.88%
644	86	78	78	-9.30%
5155	66	78	78	18.18%
1520	88	77	77	-12.50%
651	81	76	76	-7.32%
690	70	75	75	7.14%
302	71	75	75	5.63%
5667	71	73	73	3.23%
5411	65	73	73	12.31%
652	60	72	72	20.00%
642	61	70	70	14.75%
502	53	70	70	32.08%
6435	53	70	70	32.08%
120	76	67	67	-11.84%
664	68	66	66	-2.94%
710	69	65	65	-8.00%
668	45	64	64	42.22%
6691	45	62	62	37.78%
648	47	62	62	31.91%
1720	64	62	62	-3.12%
1920	71	60	60	-15.49%

## Transmission Types Worldwide

Type	Feb 2008	Jan 2009	Feb 2009	2009/2008
TV-DIG-CRYPT	10703	11349	11349	6.04%
TV-DIG	7471	6765	6765	-9.45%
R-DIG	4237	3722	3722	-12.15%
DATA	1954	2263	2263	15.81%
R-DIG-CRYPT	1392	1322	1322	-5.03%
TV-SD-CRYPT	308	446	446	44.81%
TV-HD-CRYPT	214	325	325	51.87%
TV-SD	78	102	102	30.77%
TV-HD	59	62	62	5.08%
TV-ANA	127	59	59	-53.54%
TV-ANA-CRYPT	57	45	45	-21.05%
R-ANA	64	25	25	-60.94%

## Transponder Polarization Worldwide

Polarization	Feb 2008	Jan 2009	Feb 2009	2009/2008
V	12155	11812	11812	-2.82%
H	11554	11112	11112	-3.83%
R	1881	2320	2320	23.34%
L	1151	1258	1258	9.30%

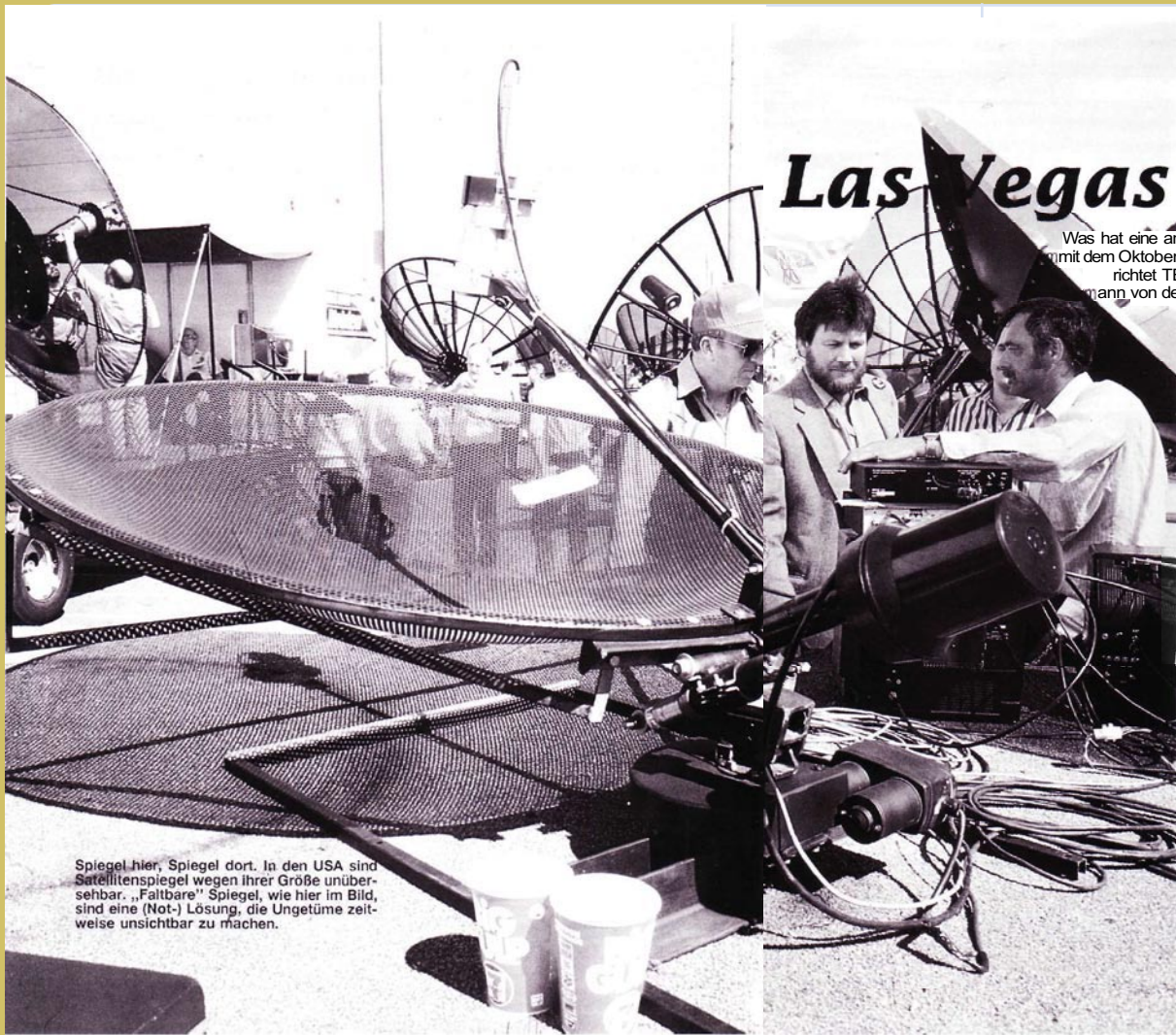
## Top 100 Ku band Frequencies Worldwide

Frequency	Feb 2008	Jan 2009	Feb 2009	2009/2008
12.226	188	206	206	9.57%
12.149	150	171	171	14.00%
11.823	104	152	152	46.15%
12.399	138	142	142	2.90%
12.360	89	132	132	48.31%
12.341	86	131	131	52.33%
11.938	92	126	126	36.96%
12.418	99	122	122	23.23%
12.428	54	121	121	124.07%
11.804	63	120	120	90.48%
12.092	82	120	120	46.34%
11.747	59	118	118	100.00%
12.523	120	116	116	-3.33%
12.643	92	113	113	23.83%
12.303	127	107	107	-15.75%
12.628	106	106	106	0.00%
12.661	72	103	103	43.06%
11.785	143	102	102	-28.67%
11.766	80	101	101	26.25%
12.355	93	100	100	7.53%
12.265	17	100	100	488.24%
12.407	98	97	97	-1.02%
11.727	76	97	97	27.63%
12.207	200	97	97	-51.50%
12.253	61	96	96	57.38%
11.470	53	96	96	81.13%
12.574	132	96	96	-27.27%
12.282	79	94	94	18.99%
12.053	51	94	94	84.31%
11.919	59	93	93	57.63%
12.647	76	93	93	22.37%
12.688	87	92	92	5.75%
11.996	95	91	91	-4.21%
11.843	95	91	91	-4.21%
12.015	42	88	88	109.52%
11.010	83	87	87	4.82%
11.283	77	87	87	12.99%
11.630	33	86	86	160.61%
12.268	58	85	85	46.55%
12.472	53	84	84	58.49%
11.635	83	84	84	1.20%
12.284	34	83	83	144.12%
12.311	76	83	83	9.21%
12.486	37	83	83	124.32%
11.550	27	83	83	207.41%
12.012	97	83	83	-14.43%
12.370	63	80	80	26.98%
12.302	34	80	80	135.29%
12.545	59	80	80	35.59%
12.516	56	80	80	42.86%
11.130	15	79	79	426.67%
12.130	32	78	78	143.75%
12.726	19	78	78	310.53%
12.322	96	77	77	-19.79%
12.476	82	77	77	-6.10%
12.604	181	75	75	-58.56%
10.970	84	75	75	-10.71%
11.170	58	74	74	27.59%
12.723	35	74	74	117.65%
12.224	64	74	74	13.85%
12.729	19	74	74	289.47%
12.034	42	73	73	73.81%
12.608	15	72	72	380.00%
12.169	70	71	71	1.43%
12.380	93	70	70	-24.73%
12.563	61	70	70	14.75%
11.604	67	70	70	4.48%
12.501	57	69	69	21.05%
12.603	74	69	69	-6.76%
12.414	99	69	69	-30.30%
11.642	76	69	69	-9.21%
11.596	25	68	68	172.00%
11.862	55	68	68	23.64%
12.443	64	66	66	3.12%
11.954	53	66	66	24.53%
12.519	63	66	66	4.76%
12.565	65	66	66	1.54%
12.607	45	65	65	44.44%
12.581	49	65	65	32.65%
11.617	65	64	64	-1.54%
11.778	14	64	64	357.14%
12.644	26	63	63	142.31%
12.683	47	63	63	34.04%
11.900	69	63	63	-8.70%
10.972	64	62	62	-3.12%
11.623	47	62	62	31.91%
11.150	48	62	62	29.17%
12.456	82	62	62	-24.39%
11.075	40	61	61	52.50%

## Top 40 Symbol Rate Usage Worldwide

Symbol Rate	Feb 2008	Jan 2009	Feb 2009	2009/2008
27500	9849	8537	8537	-13.32%
30000	2292	2768	2768	20.77%
20000	1840	2310	2310	25.54%
22000	1350	1045	1045	-22.59%
28000	545	518	518	-4.95%
28500	246	491	491	99.59%
19510	459	456	456	-0.65%
22500	316	434	434	37.34%
21096	410	410	410	0.00%
29270	276	286	286	3.62%
27800	277	276	276	-0.36%
28800	51	265	265	419.61%
29950	206	217	217	5.34%
24500	136	197	197	44.85%
26000	153	189	189	23.53%
27684	175	175	175	0.00%
26470	128	108	108	-15.62%
21300	54	106	106	96.30%
28100	74	104	104	40.54%
30800	106	104	104	-1.89%
22425	124	102	102	-17.74%
20600	81	96	96	18.52%
26667	115	92	92	-20.00%
3428	64	92	92	43.75%
40700	22	90	90	309.09%
33483	19	89	89	368.42%
25000	48</			





USAT

# Las Vegas 1988

Was hat eine amerikanische Satelliten-Show mit dem Oktoberfest zu tun? Aus den USA berichtet TELE-satellit Redakteur Rainer ...  
mann von der weltgrößten Satelliten-show

Im Anflug auf Las Vegas vermag sich der europäische Besucher nicht darüber klar werden, warum die Satelliten-show unbedingt in dieser Wüstengegend ausgerichtet wird. Immerhin braucht der Europäer fast 24 Stunden, bis er sich in einem der Superhotels niederlassen kann. Erst hier wird ihm ein Service zuteil, der den weiten Weg vergessen läßt, denn jeder mit Gästen beschäftigte Bewohner ist nur mit dem Gedanken befaßt, es dem Besucher so einfach und bequem wie möglich zu machen.

Die von der SBCA und NSSA (Organisationen der amerikanischen Satellitenszene) angemieteten Räume des



Satellitenshow Las Vegas 1988: Spiegelwald auf dem Freigelände vor dem Bally's Hotel

"Bally's Hotel", einem riesigen Komplex, reichten gerade aus, die Show aufzunehmen. Angenehmer Nebeneffekt: Das "Bally's" ist instand, einen Großteil der Besucher und Aussteller unterzubringen. Prädestiniert ist das Hotel von Hause aus: es glänzte durch die weit und breit einmalige haus eigene Satellitenempfangsanlage mit sechs (!) fest ausgerichteten 3-4 m Antennen.

## Desolate Verkaufslage des US Marktes

In amerikanischer Direktheit kam Präsident Rick Schneringer in seiner Empfangsrede ohne Beschönigung auf die desolaten Verkaufslage des amerikanischen Satellitenmarktes zu sprechen, die durch den Start der Verschlüsselung der Pay-TV Programme ausgelöst worden war. Der vor Jahren explosive Markt brach nach dem Umschalten etlicher Programme total zusammen. Selbst die

Spiegel hier, Spiegel dort. In den USA sind Satellitenspiegel wegen ihrer Größe unübersehbar. „Faltbare“ Spiegel, wie hier im Bild, sind eine (Not-) Lösung, die Ungetüme zeitweise unsichtbar zu machen.

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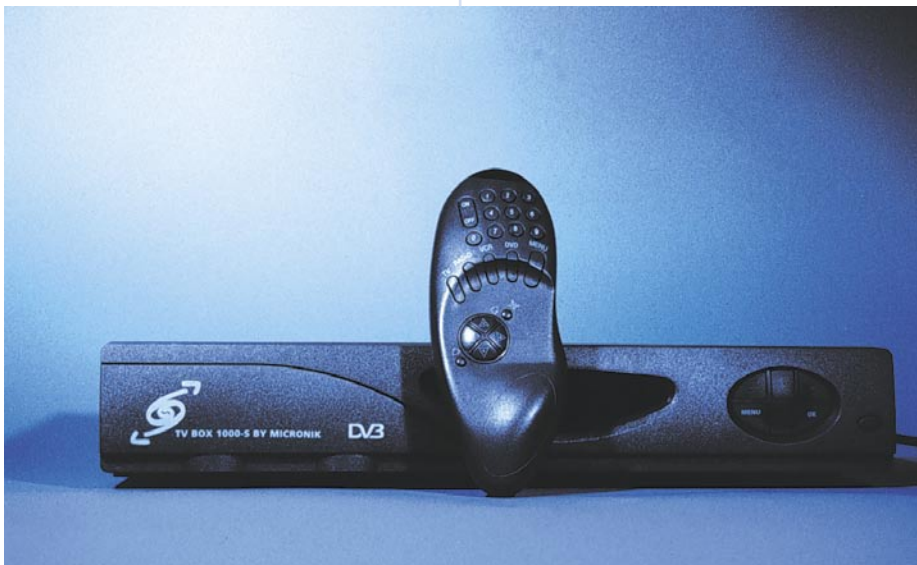
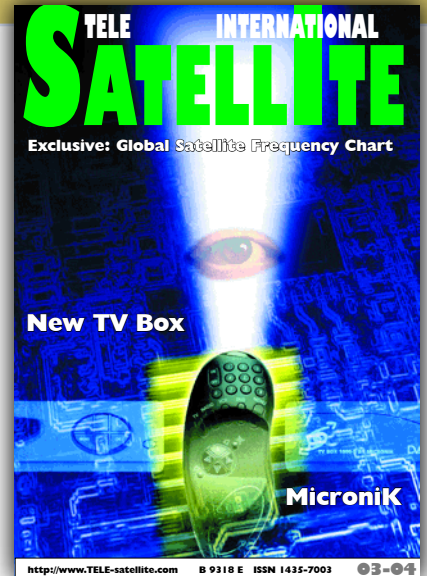
Edited by  
**Alexander Wiese**

**Mikronik TV-Box 1000-S**

The digital era requires a lot of speed of manufacturers. What is a new development today will be history tomorrow. R&D departments are working overtime to keep track of all new developments. The benefit of doing everything in-house is shown by German Mikronik. They offer their new 1000-S receiver, which is a full in-house development. We have already published a test report about this receiver and did get a lot of feedback from buyers of this receiver. Mostly positive remarks designed to make a better receiver of it. This indicates that the 1000-S has been accepted by the market, otherwise people would not be

# 10 Years Ago

Travel into the Past  
**TELE-satellite Magazine**  
Issue 04/1999



interested in it. Very soon after this test, Mikronik released a new firmware version which could be uploaded by the users or by the retailer. One of the most nasty things in this digital era is the incompatibility of Conditional Access systems. For every pay-TV operator you will need either a separate box or a special Conditional Access Module (CAM.) This makes it so frustrating when moving around in Europe. A Dutch family moving to Switzerland can bring their receiver, but will not be able to watch any Swiss channel with it. So they will need a new, separate receiver. To overcome this situation, Common Access Modules were developed. But in practice it doesn't work all the time, as some encryption standards are still not available (Irdeto). Mikronik tried to solve this problem in a very creative way. They developed the so-called multi-access-module. It can hold up to four different PCMCIA modules and their smartcards. Whether it is Irdeto, Viaccess, Cryptoworks, Conax, Nagravision or even a complete new encryption standard, just plug it in and it is showtime. The firmware fully automatically detects the presence of the modules. Even fully integrated encryption systems can be inserted. Let's take a real-life example: a guy from Greece living in France with a Spanish wife and kids growing up together with their French friends. He doesn't want to live without the Hellas package. She wants to keep in touch with 'home' and have the Spanish package. The children want to talk to their friends about what was on French television last night. What to do? Buy three boxes? What a waste when you could solve this problem perfectly with the Mikronik 1000-S. Just plug in all the neces-

sary CAMs together with the needed smart-cards and there you are. Simple and effective. And still ready for the future, even in this situation there is still room for more. Without any CAMs at all, the 1000-S is still a very fine FTA receiver. So you can always turn to pay-TV later on, if you first decide to only FTA a while. This Multi-Access-Module (MAM) is the first to integrate a wide variety of encryption standards into one receiver. For Mikronik this means they are way ahead of the competition. For the buyer it means saving money.

**Telecontrol's i-Box**

We received a small black box and didn't really know what to think of it. Well, there was an IF jack on the back, but that was about it. So we rang our retired in-house tester out of the bed only to learn that he had received a similar thing quite some time ago. We took out the manual for our new TV fairy, but we still didn't know whether this was supposed to be an analogue satellite receiver with teletext, a teletext decoder with satellite TV and FM radio or something entirely different. After a while we found out why this piece of equipment is called TV fairy. For an annual fee of DEM 50 it can do a lot for you, your TV and your VCR (up to now, that applies only if you live in Germany.) Utilising the European radio data system (RDS) which was originally designed to allow FM radio stations to transmit data and information, the TV fairy helps you record your favourite TV shows without missing a second, it lets you check when your favourite movie will be on or which channel will offer films with your favourite actor within the next two weeks.





### FSM 204 SAT-TV Spektrum-Analyser

A level meter and a spectrum analyzer are two of the costlier pieces of equipment that can easily drain an installer's budget. Therefore it is a logical consequence that only instruments are accepted that both serve well in the lab and up on the roof. These units must not only feature a built-in monitor and a rechargeable battery pack, but also a robust chassis that protects the sensitive electronic equipment. After all, the conditions up on a customer's roof can hardly be described as ideal for expensive equipment. Installers looking for a one-4-all unit also expect the analyzer to handle the whole frequency band which ranges from 40 to 850 MHz for terrestrial signals and from 950 to 2150 MHz for the satellite signals. Only if these demands are satisfied an installer will be able to set-up and check a client's antenna system which is used for FM, terrestrial TV and satellite signals. German company Doebis has recently introduced its JAEGER FSM204 portable level meter and spectrum analyzer which is offered at a competitive price and may even be bought by individual satellite enthusiasts and not only by professional installers. With a weight of 8.5 kg the FSM204 is not exactly a light-weight, but if one takes into account that the unit comes with a built-in monitor and a battery back that guarantees two hours of uninterrupted power supply the weight is somewhat acceptable. The terrestrial frequency range extends from 45 to 862 MHz and the IF range for satellite signals goes from 950 to 2150 MHz. The FSM204 is primarily used for the evaluation of analog satellite signals. We did some preliminary tests on a purely digital satellite (like the two DFS of Deutsche Telekom) and were able to meter the signal strength of digital bouquets, if the peaks on the spectrum analyzer are metered. However, it is not possible to determine the quality of digital signals. After all, comparable units for digital signals are twice as expensive.

### Antennas in Poltava

Poltava is a humanitarian center of Ukraine. About 380 thousands citizens of Ukraine now live in Poltava. Antennas on the walls and roofs of houses obviously illustrate the interests of modern Poltava inhabitants on the boundary between 20th and 21st centuries.



The overwhelming majority of Poltava inhabitants watch the programs of national TV of Ukraine, which are relayed from Poltava and Krasnogorovka (about 80 kms from Poltava) in VHF and UHF band: "Ut-1", "Ut-2", "Inter", "ICTV", "UTA", "STB", and also Kharkov channel "Simon" and local channel "Ltava". The off-air reception is very cheap. The air antenna, most popular in Poltava, - "shaggy" VHF/UHF antenna of Polish manufacturing with the built-in amplifier and included power supply unit. Its value on the city market is about \$11. For 3-4 TV sets connection a standard 15-20 dB divider TAP is used, sometimes it is supplied by a divider "1:2", if not 4, but 5 places of TV set connection are made in the apartment (in the house). Satellite TV as the mass phenomenon exists in Poltava since 1995. Before that

time only few amateurs that had been abroad had the satellite systems. Main distributors of satellite systems in Poltava are the trade firms "Satellit", "Poisk", "Condor", "Promelektronika", "Voyage", Kiev "Romsat" representatives, and also few enthusiasts. As it is seen, the competition is strong. By the middle of 1998 there are approximately 700 satellite antennas total in Poltava and nearest neighbourhoods according to the experts' estimation, and each year this number increases by 200. If to accept 700 Poltava antennas as a unit, then about 10% of installed antennas are antennas with a 0,9 m diameter, about 50% of antennas with diameters 1,15 - 1,20 m, about 20% with a diameter 1,4 - 1,5 m and about 15% with a diameter 1,8 - 2,2 m and more. The largest satellite antennas in Poltava are 3,7 - 4 m, they are in a professional application.

**Echostar & S.C.I.**

After a roll call by Echostar and S.C.I. six European expert journalists undertook a journey all the way to the Scottish highlands and took over historic Blairquhan Castle for a night (and that included a fine supply of Scottish Whisky collected by the Hunter-Blair clan). On the next morning the leap from 18th century sobriety to 20th century technology couldn't have been more eye-opening, when we were transferred to S.C.I.-UK's new production facility in Irvin. Echostar Vice-President Richard Innemee presented his company's new strategy, and S.C.I. Vice-President Jim Ferguson took us on a tour around one of the 35 S.C.I. production sites where Echostar products will be assembled in the future. Founder and current CEO of Echostar, Charlie Ergen, entered the market in 1980 with the ambitious motto "a dish in every home". The established players in the US market at first ridiculed that goal, and in the European and Asian markets Echostar had yet to make a name for itself. However,



While in 1980 Charlie Ergen's vision was sneered at, in 1999 Ergen controls a company which is the only one in the world to offer both DBS satellite services and all the necessary hardware and software products. Furthermore Echostar operates a huge uplink center in the USA, owns four satellites with a DBS capacity of 90 transponders and offers complex solutions from planning to operating.

**SCI**

One of world's biggest manufacturer of electronics components for entertainment products, the military and medical equipment company was chosen as an ideal partner for Echostar. With an excellent name in medical equipment, SCI has proven to guarantee uncompromising quality in its 35 production facilities all over the world. That way regional Echostar products can be produced close to the actual end-market. Among the pluses of SCI are fixed prices, continuously high quality, and a reliable flow of information between the ordering company and the manufacturer. One of the best equipped SCI facilities can be found in Irvin and it was here that a TELE-satellite journalist was able to look at how an Echostar receiver is being assembled. All production stages are carried out automatically, except for the final check and the packaging which are done manually. At the final check the receiver is brought to life for the first time. While many manufacturers only carry out a quick test, at SCI in Irvin all receivers are put to a test that simulates six hours of continuous operation in order to detect any weaknesses or malfunctions. All units that are not 100% OK are repaired manually and then enter the production and evaluation process again so that only top-quality units leave the site. SCI is also proud of its excellent reputation as a PC manufacturer. It would be wise to check if the motherboard features the SCI logo before buying a new computer. Unfortunately the sales staff at your electronics store will not be too happy with such a request. As far as military equipment is concerned, a look into the famous Janes Handbook of Military Communications reveals that quite a few units are SCI products. In the satellite receiver business a complete range of international companies cooperate with SCI, so that our TELE-satellite journalist came across units that are produced for companies like Philips, Nokia, HTS and of course Echostar.

Echostar's competitors in the USA started to worry as soon as the first receiver with an integrated positioner was introduced by Echostar and kickstarted the company from newbie to market-leader status. In 1989 Echostar decided to conquer the old world and opened regional headquarters in the wharf district of Rotterdam, only to move to a new and generously laid out center in Almelo (Netherlands). The major asset in this phase of expansion was the SR4500 receiver, which was later replaced by the new SR5500 which surprised both importers and consumers. The following years saw the introduction of two less successful follow-ups to the SR5500, until the SR8700LT was put in the market and was as good a seller as the legendary SR5500. However, for no particular reason the high-end segment of the receiver market idled for quite some time and loyal Echostar enthusiasts almost felt neglected, since Echostar obviously had started to focus on its satellite business which included the company's first DBS satellite. It came as a big surprise that - coinciding with our Scottish weekend - Echostar introduced the sophisticated AD-2000IP receiver which is

designed to follow the 8700LT's footsteps as a state-of-the-art unit for the high-end market. While Echostar is back on track in the receiver business the whole company expanded dramatically over the past few years and has been restructured to accommodate all sectors of the business. In Colorado, Wyoming and The Netherlands Echostar serves as an operator of a whole fleet of satellites, Pay-TV provider and up- and downlink provider. These different branches are now bundled into the following groups: DISH-NETWORKS, ECHOSTAR TECHNOLOGIES CORP (ETC), ECHOSTAR SATELLITE SERVICES (ESS) and ECHOSTAR INTERNATIONAL CORP (EIC). With these services Echostar is able to offer a comprehensive range of products and services ranging from data and educational services to turnkey satellite solutions for Africa, Europe and the Middle East. One example of the enormous expertise of Echostar is the second digital platform in Spain which is a typical turnkey product. The company is currently working on broadband internet access (ICEbox project) and the MediaStream network control system in cooperation with MEDIA4.





### Sagem ISD 3100

Recently we received a new digital set-top box which supports the Open-TV standard. It's a French receiver, called Sagem ISD 3100, and it comes with a built-in Viaccess decoder. Perhaps you have already seen how many channels are using Viaccess today, not just in France. A good example is the Russian NTV for which smartcards are very easy to get. Although the ISD 3100 is basically a Free to Air receiver, the Viaccess integration is a very welcome addition. In fact, the Sagem is a very back to the basics receiver, without any unnecessary gadgets. Operation is very simple, but done to keep it clear for a larger audience. The ISD 3100 is in fact designed for reception of two European satellite systems: Astra and Hotbird, or perhaps a Scandinavian satellite as well. On the front you will only find the emergency buttons together with a LED indicating the status of the receiver. Of course, there is a smartcard slot for the Viaccess system. At the back, two Scart (Peritel) connectors take care of the connections to the rest of your equipment. Together with two phono jacks for supplying your stereo with sound. Additionally a phono connector with composite video can be used to supply an extra monitor with the video signal. To update the firmware or settings, an RS-232 interface is present. An analogue or second digital receiver can be connected to the LNB output. There is no RF modulator built-in. Looking at the extensive on-screen display we believe it's even the better. The remote control is not just an everyday one. The numeric keys are shaped like the numbers itself, making it easy to find them even if it is dark. Since Open-TV is supported, there are a few buttons more on the remote. But grouped together and marked with colours, they pose no problem in everyday use where you will only use the numeric keys and the ones beyond. Fear of the remote control, of any, disappears very rapidly when using it for just a short time.

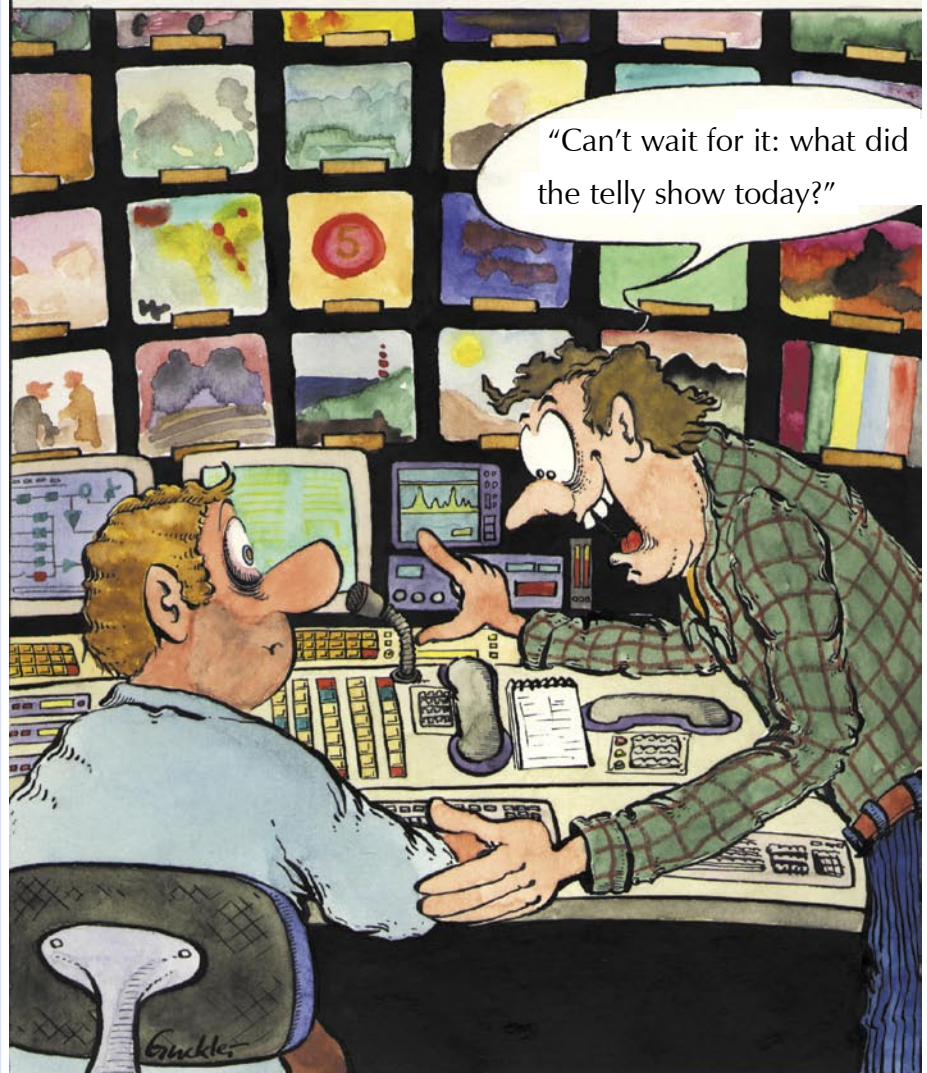
### Measuring analog and digital, now and in the future

Buying a measuring device for signals is always a serious job. Not because it is expensive, but more so because it must be in operation for many years. Newly bought measuring devices should, therefore, also be able to process digital signals. The new R.O.V.E.R. SDA-4 & 5 Digisky coming from Italy is capable of measuring analog and digital QPSK satellite signals. The input can handle signals from 950 up to 2150MHz. And the channel memory of 200 channels should be enough for average use. Besides the signal strength it also shows the frequency. It can measure the error rate of digital signals and when channel IDs are integrated in the data stream the names are visible on-screen.



One of the more rare functions is the possibility to measure the signal/noise figure for analog signals. Other receivers can be connected to this unit without any loss in signal strength or quality. A Digisky is yours for only DM 1.600 (incl. VAT). It only weighs 1.2kg and can do its job up to 3 hours on its battery. When the battery runs dry it warns you perfectly on time.

## The other day, the new shift arrives at work in the satellite control station



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