

SATELITA

& BROADBAND

B 9318 E

04-05
2009

Przegląd firm
ALUO-SAT
Wsparcie
dla biznesu
w Chinach

Przegląd firm
TOPFIELD
Połączenie satelity
z Internetem

Raport z testów
AB-COM

Jak potężny potrafi być
współczesny odbiornik HD PVR?



TELE **SATELLITE**
AWARD & BROADBAND
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

Wyłącznie dla czytelników TELE-satellite SatcoDX "World of Satellites"

Oprogramowanie SatcoDX „World of Satellites” podaje parametry techniczne wszystkich transmisji satelitarnych z całego świata.



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www.TELE-satellite.com/pol



Członek Distripress

SatcoDX 06/2009

World of Satellites

Baza danych do programowania satelitów z całego świata – program komputerowy

Software V3.12 pol sdx Creator

Światowe tablice satelitarne
Wszystkie kanały ze wszystkich satelitów

Pomocnik satelitarny: Jakie kanały odbierzesz ze swojego miejsca na swojej antenie?

DishTrak: Jakie satelity możesz odebrać?

Lokator kanałów: Znajdź interesujące cię kanały

Aktualizacja tablic on-line:
Odśwież dane przez Internet w dowolnej chwili

Programowanie odbiornika: Przesortuj, przefiltruj i załaduj do odbiornika kompatybilnego z SatcoDX

Mapki zasięgu: Sprawdź gdzie skierowane są anteny satelitów

Eksportuj bazę danych w sdx
Zaprogramuj swój odbiornik kompatybilny z SatcoDX

GRATIS Zawiera pełne wydanie TELE-satellite 03/2009

Eksportuj i drukuj tablice:
Zachowaj swoje spersonalizowane listy

© TELE-satellite – Minimum System Requirements: Pentium III
– 128 MB RAM – 16 bit Colordepth – 800x600 Screen
Compatible to Win 95, 98, ME, 2000, NT4, XP

Wydane przez magazyn TELE-satellite
Tylko do użytku prywatnego
ISSN 1861-5384
SatcoDX.com

Ściągnij oprogramowanie SatcoDX stąd:
www.TELE-satellite.com/cd/0906/pol

Kompletne listy kanałów ze wszystkimi parametrami technicznymi z dowolnego satelity

Automatyczne wyświetlanie wszystkich odbieralnych kanałów satelitarnych

Automatyczne programowanie odbiorników kompatybilnych z SatcoDX

Aktualizacja danych przez internet w dowolnym momencie z głównego lub zapasowego serwera

Wydruk list kanałów i mapek pokrycia w formacie HTML

The screenshot displays the SatcoDX software interface. At the top, there's a menu bar with 'File', 'Utilities', 'License', and 'Help'. Below it is a toolbar with various icons. The main window is divided into several sections:

- Map:** A world map showing satellite coverage areas. A red dot indicates the user's location. A sidebar on the right shows coordinates and a 'Display Satellites' button.
- Channel List:** A table with columns for Position Code and Satellite, Type, Ch, Freq, Pol, Channel Name, Coverage, and a checkbox. The list includes channels like '3150 PANAMSAT 1R' and '3205 INTELSAT 90'. A yellow highlight is over the 'Channel Name' column.
- Settings:** A 'Satellite Position and Name' dialog box is open, showing a table with columns for Coverage Code, Dish Size, Azimuth, and Elevation. It also has a 'Display Channels' button.
- Database Update:** A small window titled 'Database Update' is visible, showing progress bars for different satellite systems.
- Program Receiver:** A window titled 'Program Receiver' is open, showing settings for 'SatcoDX Industry Standard Protocol', 'Send Port', 'Send Rate', and 'Flow Control'.
- Channel List Print:** A window titled '3150 PANAMSAT 1R (315.0E - 45.0W)' is open, showing a detailed list of channels for that satellite, including columns for Ch, Freq, Pol, Channel Name, Coverage, and a checkbox.



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Available online starting from 27 March 2009

تكنولوجيا استقبال الأقمار الصناعية
209
02-03 2009

والساتلات
& الإنترنت فائق السرعة

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TOPFIELD
رئيسي نموذجي للاستخدام مع تليفزيونات البلازما

تقرير عن شركة
MFC USA
تصنيع فلتر C-Band لتعطي صورة نقية

العربية

DiZiPiA

قريباً اختيار
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Bahasa Indonesia

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Idealer Receiver für Plasma TV

Firmenbericht
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Test Report
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Plazma TV'ler için ideal Uydu Alıcısı

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DS4H-9160
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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 CRGI 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

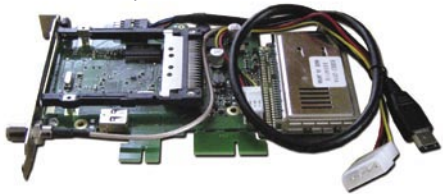


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Drodzy Czytelnicy



Wybór wyjątkowych odbiorników HDTV staje się dziś coraz szerszy. W tym wydaniu znów przedstawiamy dwóch nowych przedstawicieli tej kategorii: odbiornik z nagrywarką PVR i kartę PC.

Szkoda, że liczba kanałów HDTV nie rośnie równie szybko. Dzieje się nawet coś odwrotnego. Obecny kryzys ekonomiczny skłonił niektórych nadawców do obniżenia przepływności i zaoszczędzenia w ten sposób pieniędzy płaconych właścicielom satelitów. W rezultacie mamy coraz więcej kanałów, których oglądanie nie jest już taką przyjemnością jak kiedyś. Nazywa się to „smużeniem pikselowym” i powstaje wówczas, gdy osiąga się najniższy poziom przepływności bitowej.

Moim zdaniem powinno działać się coś całkiem przeciwnego. Zamiast transmitować ile tylko się da kanałów nędznej jakości technicznej, operatorzy powinni ograniczyć liczbę kanałów i transmitować je z najwyższą możliwą jakością!

To niewiarygodne, ale statystyka SatcoDX pokazuje, że obecnie nadawanych jest na świecie ponad 18 000 kanałów TV. W praktyce normalny telewidz ogląda nie więcej niż 100 kanałów, a prawdopodobnie ta liczba bliższa jest 50, a może nawet jeszcze mniejsza.

Rodzi się zatem pytanie: według jakich kryteriów telewidz dokonuje wyboru kanałów i zapamiętuje je jako swoje ulubione?

Wątpię czy ktoś naprawdę zbadał czy widz rzeczywiście ustawia swoje programy w oparciu o ich zawartość. Osobiście podejrzewam, że decydująca jest wysoka jakość obrazu, zaś zawartość programowa odgrywa mniejszą rolę.

Wierzę, że gdyby operatorzy zdecydowali się zredukować liczbę swoich kanałów, a zainwestowali za to w ich lepszą jakość obrazu, zyskaliby większą liczbę widzów. I jeszcze jeden mały efekt uboczny: producenci odbiorników i telewizorów byłiby również szczęśliwsi gdyż lepsza jakość obrazu dałaby ich klientom większą radość ze sprzętu.

Czasami mniej znaczy więcej!

Wasz, Alexander Wiese

P.S.: moją ulubioną radiostacją miesiąca jest „Radio Fresh” na satelicie THOR 379 E (1 W) 12,169 GHz, H, 28000. Ta bułgarska stacja gra dużo muzyki pop rzadko przerywanej komentarzem.

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HD2.0

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)

MPEG-2 / MPEG-4 Part 10 AVC HD/H.264 compliant

Software Upgrade via USB 2.0

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Various Video Aspect Ratio with 4:3, Letter Box, Full Screen and 16:9 Support

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

Easy and Fast Auto Programming, Intuitive User Interface

Multi Language Support(Customer Option)

HD2.0 Slim



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TOPFIELD NEW Topfield Media Solution



Features available at launch

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- * 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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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

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



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- Quattro Universal
- Quad Universal
- Octo LNB
- Monoblock Single Universal
- Monoblock Twin Universal
- Monoblock Quad
- C Band
- Circular and many more

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- Black Ultra - 40mm, 0,2dB
- Black Multiconnect - 23mm, 0,2dB

All available as:

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- Twin Universal
- Quattro Universal
- Quad Universal



Full LNB range INVERTO available from stock

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- DTRON
- JAEGER
- JOHANSSON
- MAXIMUM
- BEST



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

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Parts

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- 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



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



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- QTH-031
- QDH-031
- SNF-031
- TWF-031
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High-Line-Series



AVAILABLE AS:

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- MTI AP 82 XT2N Twin
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Full LNB range MTI available from stock

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digital-labs

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



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



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

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

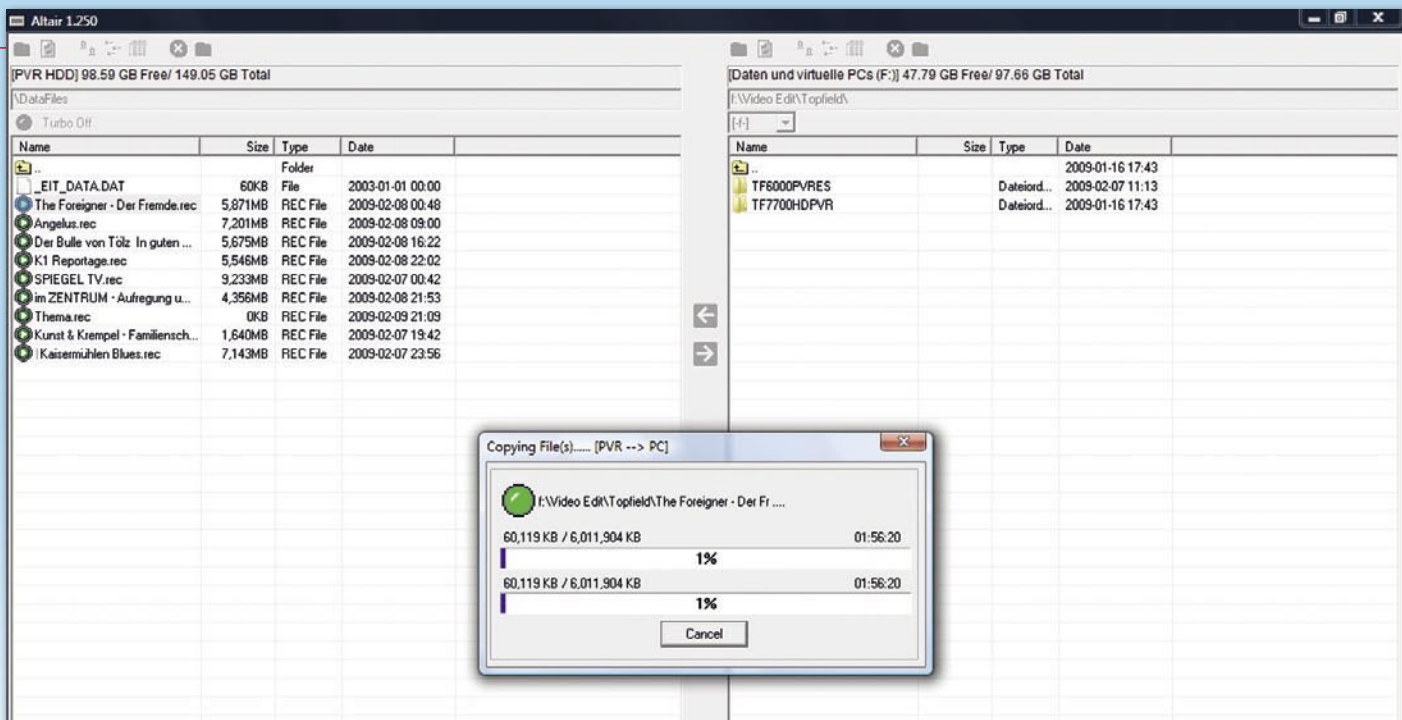
it as a removable disk drive after a few moments and then you're all set for copying files to the local disk.

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.

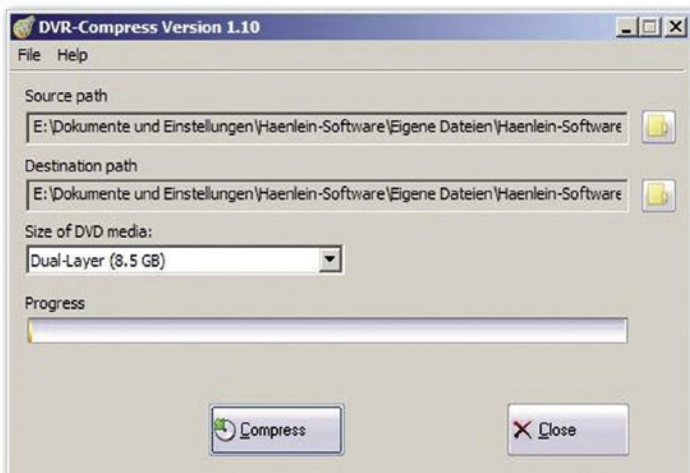
All this is not only available in the local network, but also via the Internet, if required. This means you are able to check right from your hotel room whether your Topfield receiver at home has recorded all events you had set in the timer. Or if you find out a blockbuster movie is on TV that night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



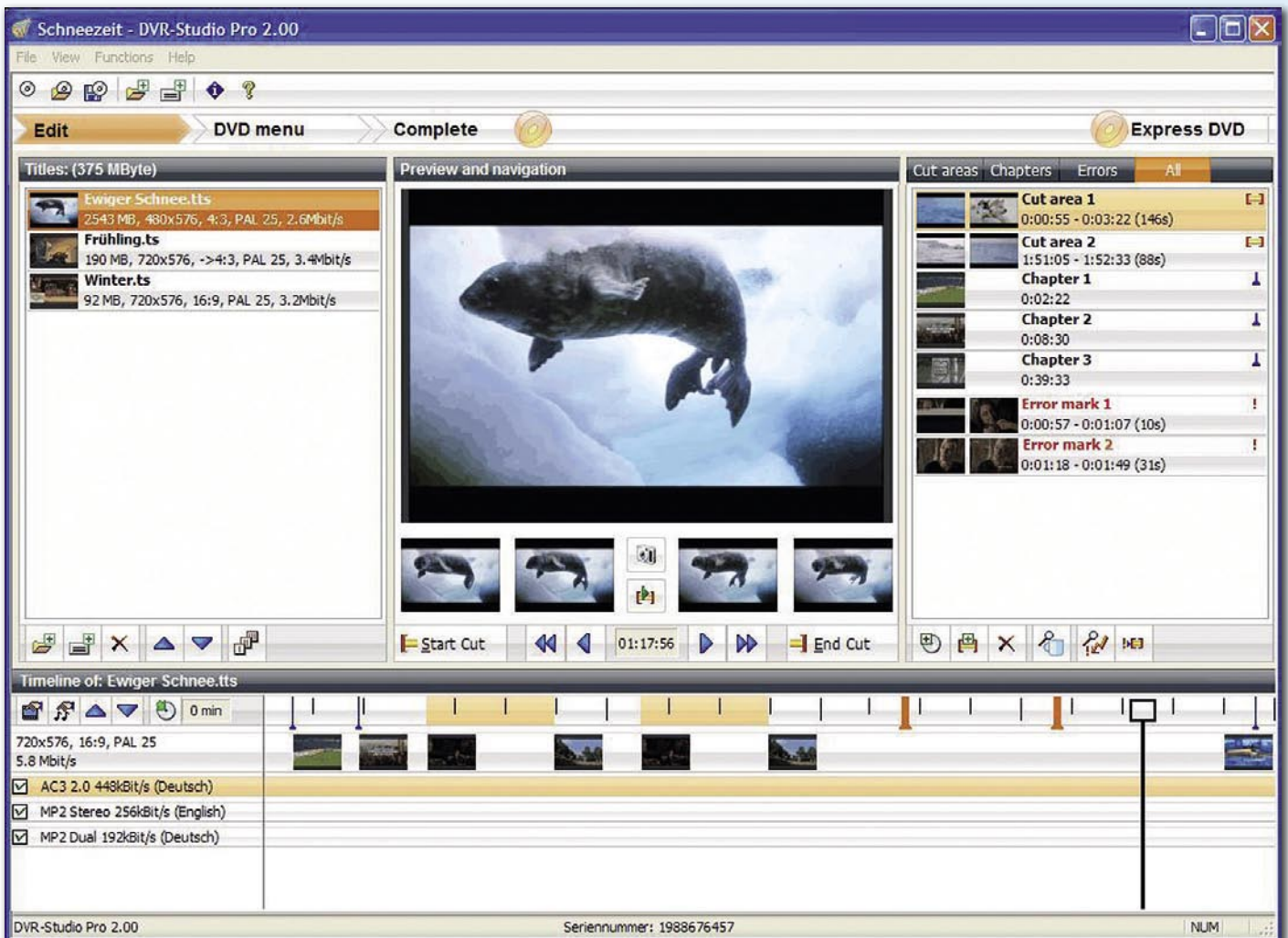
DVR Studio HD creates DVDs or Blu-ray discs from HD material

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

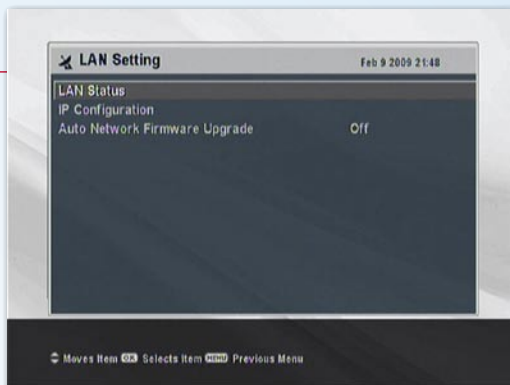
MPEG4 - HD,SD / H.264 / DVB-S2 Twin Tuner
Micro SD slot for external memory
Supporting DivX file play back



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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.

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) 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). 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

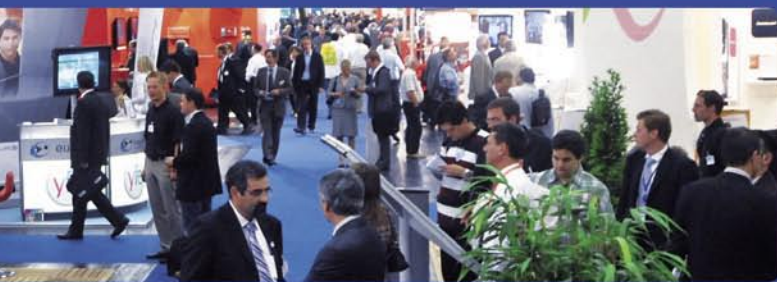
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- Strategy and technology panels focusing on Triple Play, Platforms, Regulatory Affairs, Content, HDTV, IPTV, Next Generation Networks and many more

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Tel. +49 228/96 21 890
Fax +49 228/96 21 895
info@angacable.de
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.

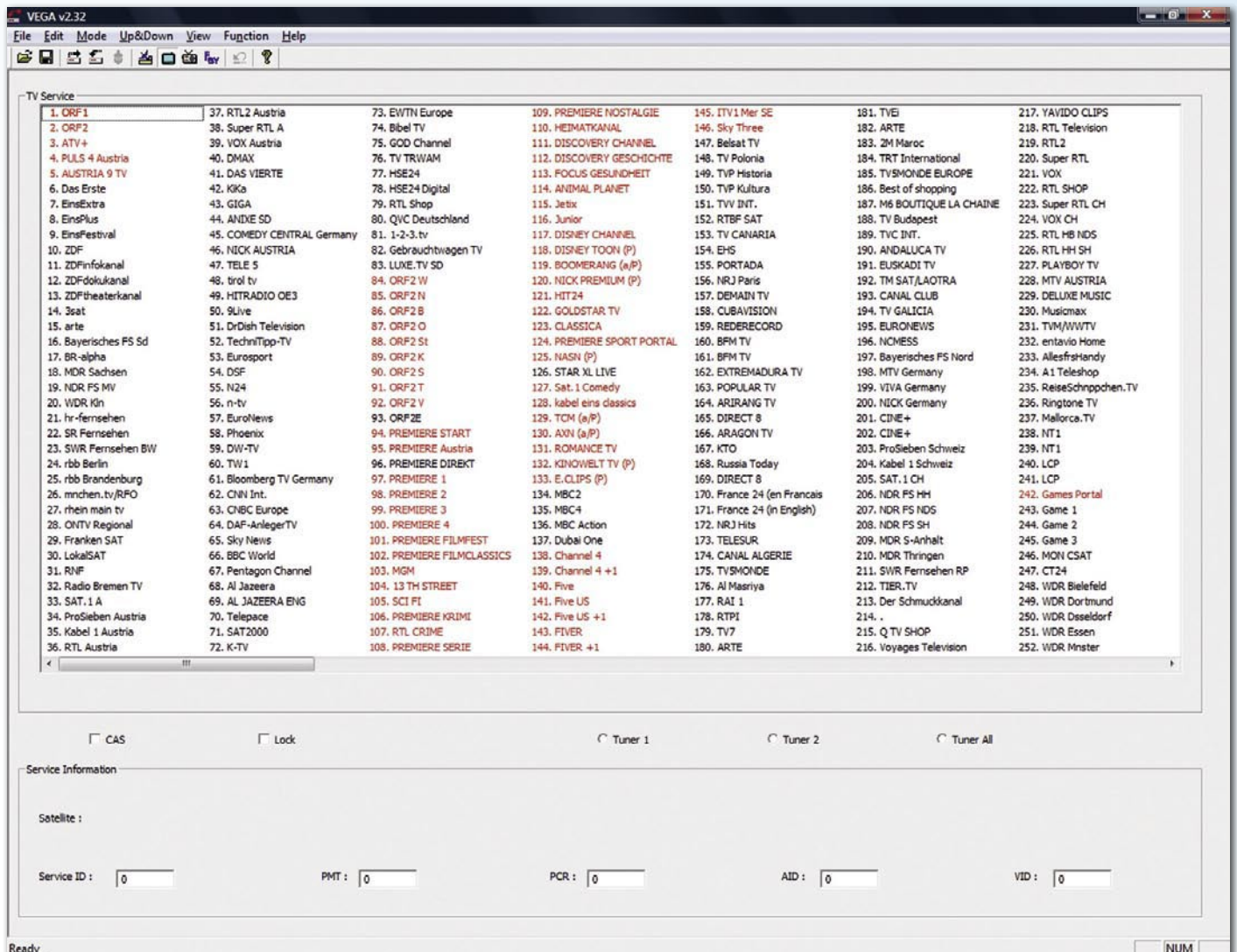
In a first step you need to make sure

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.

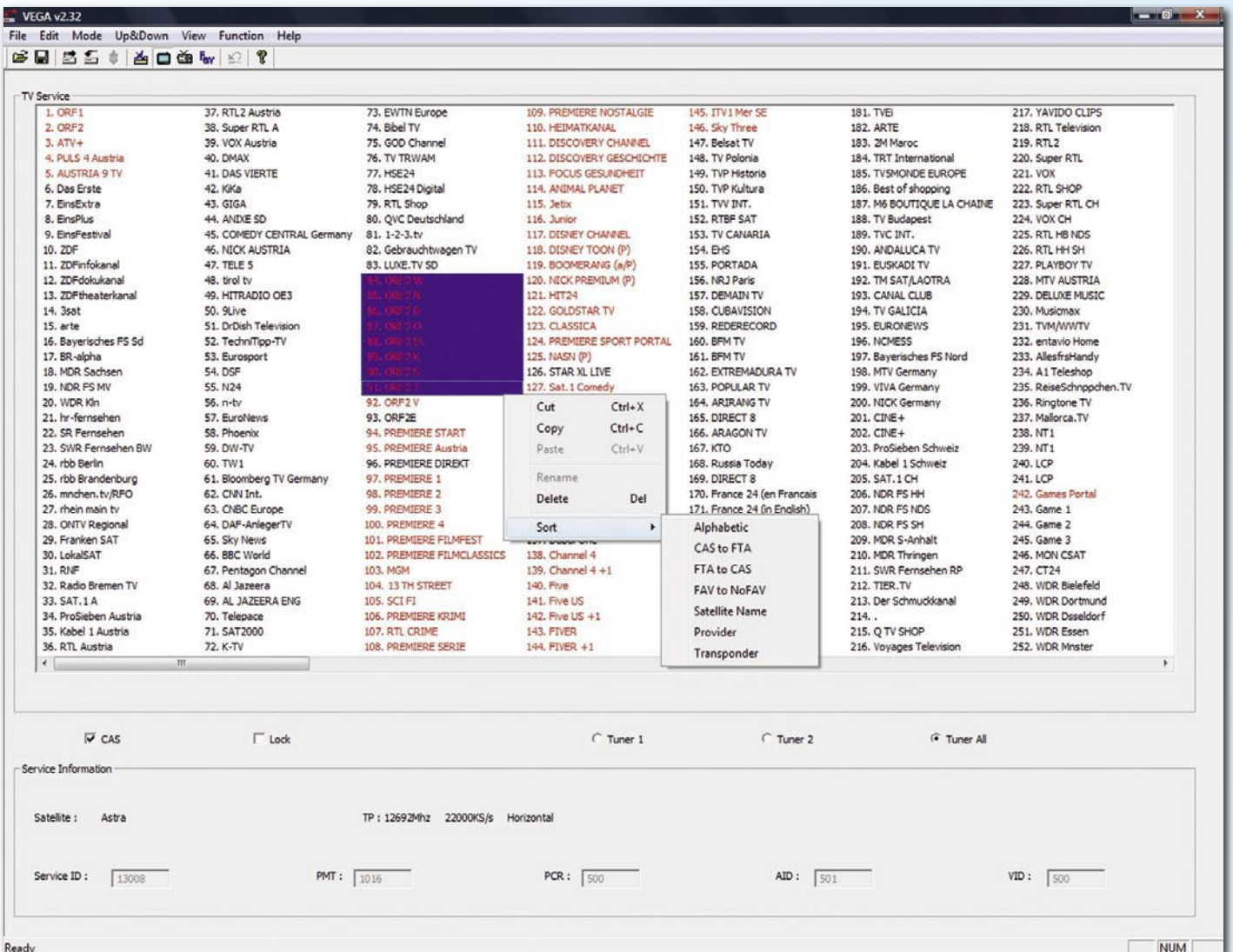
In such a configuration the Topfield TF7700HDPVT, for example, can automatically obtain all information (like standard gateway or DNS server) thanks to DHCP. Alternatively, all settings can also be entered manually. As soon as a connection to the Internet can be established the receiver connects to the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

Jak potężny może być współczesny linuksowy odbiornik HD PVR?



Postęp w produkcji odbiorników jest naprawdę zdumiewający! Czy kilka lat temu, kiedy jeszcze walczyliśmy z analogowymi urządzeniami, mogliśmy przypuszczać, że podobnie

wyglądająca skrzynka da nam nie tylko fantastycznie kolorowy i niewiarygodnie ostry obraz, ale także będzie odtwarzać pliki muzyczne i wideo, wysyłać emaile, czy że pozwoli zagrać nam w grę? Granica między komputerami a odbiornikami zaczyna się zacierać, dając początek łatwym w obsłudze urządzeniom rodzinnym z niesamowitym potencjałem dla zaawansowanych użytkowników.

ABCom znany ze swych potężnych opartych na Linuksie odbiorników z pewnością pomaga w realizacji tego scenariusza. Firma sumiennie odrabia zadanie domowe, wciąż ulepszając swój sprzęt i oprogramowanie. Ze szczególną radością odnotowujemy, że kilka niedociągnięć w ich poprzednich modelach zostało już poprawione. Ostatnio zyskaliśmy szansę przetestowania AB IPBox 910HD, pochodnej modelu 900HD, który zbadaliśmy kilka wydań wcześniej (TELE-satelita 08-09/2008).

Nowy model zachował wszystkie zalety starszego brata. Obsługuje zarówno wysoką jak i standardową rozdzielczość, DVB-S jak i DVB-S2, MPEG-2 jak i MPEG-4. Potrzebujemy sprawić naszej

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babci odbiornik cyfrowej telewizji naziemnej, aby mogła dalej oglądać opery mydlane, gdy wyłączono już przekaz analogowy? I do tego nada się 910HD. Zastąpienie tunera DVB-S tunerem DVB-T to kwestia minut. Tak samo, jeśli chodzi o tuner kablowy DVB-C.

Z odległości trudno jest zauważyć różnicę między 900HD a 910HD. A chodzi o pozorne drobiazgi. Panel przedni zachował elegancję 900HD i pasować będzie nawet do ekskluzywnego wnętrza. Oprócz dwóch złącz CI, umieszczonych za magnetyczną klapką, mamy tu wyświetlacz VFD i 8 klawiszy do sterowania wszystkimi podstawowymi funkcjami odbiornika.

Panel tylny jest równie wspaniały jak poprzednio, ale pojawia się tu coś nowego. Po zainstalowaniu tunera DVB-S, jak w testowanym egzemplarzu, w lewym narożniku widzimy wejście LNB z odpowiadającym mu zapętlonym wyjściem. Wszystkie sprawy z komputerem i siecią załatwia się przy pomocy portów USB, RS-232 i Ethernet. Wyjścia HDMI, S/PDIF i Y/Pb/Pr

odpowiedzialne są za dostarczenie krystalicznie czystego obrazu i fonii. Jeden Scart i trzy RCA są tu raczej dla zapewnienia kompatybilności wstecz, ponieważ nie da się przy ich pomocy wyprowadzić sygnału HDTV. Mamy tu też złącze E-SATA i wyjście zasilania, chociaż 910HD pozwala także instalować dysk SATA HD wewnątrz obudowy! Dysk będzie startował wówczas razem z odbiornikiem. Koniec problemów z kablami i złączami. Ale wciąż mamy wybór. Jeśli chcemy mieć nagrania, nadające się do przeniesienia, możemy wykorzystać do tego dysk zewnętrzny.

Obok wyłącznika zasilania zabudowano wentylator zapobiegający przegrzaniu się skomplikowanej elektroniki. Pomysłowe rozwiązanie! Chociaż bardziej wrażliwi użytkownicy mogą uznać, że jest on nieco za głośny. W takim przypadku możemy w sklepie komputerowym wyszukać sobie inny, cichszy typ.

Pilot zdalnego sterowania to dokładnie kopia tego sprzedawanego z poprzednim modelem. Właściwie to mieliśmy z tego powodu pewien kłopot. A to dlatego, że wciąż używamy

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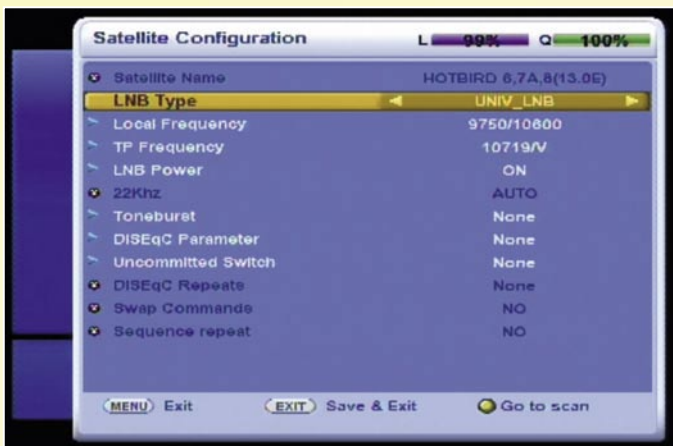
900HD. Sygnały sterujące są dokładnie takie same, choć warto wiedzieć, że pilot do 900HD/910HD może zostać tak zaprogramowany aby sterował również starszymi modelami skrzynek IPBox. Może on także zostać zaprogramowany do sterowania telewizora, a do wyboru mamy setki modeli. Jeśli chodzi o jego projekt, nie żałujemy żadnego słowa powiedzianego przy teście 900HD. Guzików jest dużo, ale są one tak logicznie rozłożone, że bardzo łatwo się do nich przyzwyczaić. A ze specjalnym guzikiem do wielu funkcji odbiornika, łatwo zachować nad wszystkim kontrolę.

Ustawienia początkowe

Może się wydać, że oficjalne oprogramowanie

ABCCom niewiele się zmieniło, przynajmniej na pierwszy rzut oka. Taki sam pomocnik wiedzy nas przez wybór języka (OSD można wyświetlać po angielsku, rosyjsku, francusku, włosku, holendersku, niemiecku, duńsku, czesku, słowacku, węgiersku, norwesku, polsku, portugalsku, hiszpańsku, szwedzku, grecku, turecku, koreańsku, chorwacku, bośniacku, serbsku, bułgarsku, rumuńsku i fińsku, a język ustawia się także dla fonii, podpisów i telegazety), a dalej do ustawienia czasu lokalnego. Tu znów czas wyboru: albo ustawia się go ręcznie, albo odbiornik będzie pobierał go automatycznie ze strumienia danych. Można zmienić tryb wyświetlania czasu jak i ustawić przełączanie na czas letni.





Konfiguracja satelity



Ustawianie obrotnicy USALS

W kolejnym kroku powinniśmy już mieć dopiętą do odbiornika antenę. W przypadku tunera satelitarnego naciskamy najpierw guzik czerwony i krok po kroku dodajemy wszystkie satelity jakie planujemy oglądać. Każdy z nich może mieć indywidualne częstotliwości LOF. Odbiornik wspiera wszystkie wersje DiSEqC (1.0, 1.1, 1.2 i 1.3), dzięki czemu AB IPBox 910HD staje się sercem naszego systemu antenowego. Po znalezieniu wszystkich potrzebnych satelitów naciskamy „Exit” i wracamy do pomocnika instalacji.

Teraz naciskamy klawisz żółty, co przenosi nas do okna wyszukiwania kanałów. Nowy ekran ma dwie zakładki: automatycznie i ręcznie. Tytuły wyjaśniają o co chodzi. Pierwszy służy do wyszukiwania kanałów na podstawie fabrycznie zapisanych częstotliwościach, bądź tych znalezionych w NIT. Drugi pozwala na ręczne wpisanie wszystkich parametrów. Oczywiście

są tu też modulacje i FEC potrzebne do DVB-S2.

Częste wyszukiwania kanałów, czy to automatyczne, czy ręczne, to nie jest coś co Schumacher polubi najbardziej, ale są one wystarczająco szybkie dla zwykłego użytkownika. Potrzebowaliśmy 9 minut, aby przeskanować pozycję satelitarną ze 105 transponderami. Dla niecierpliwych, którzy wprost nie mogą się doczekać obrazu pierwszego kanału wprowadzono funkcję „Quick load”, która od razu ładuje fabrycznie przygotowaną listę kanałów. Bardziej aktualna lista kanałów wymaga jednak odrobiny cierpliwości do wykonania wyszukiwania.

Wszystkie dalsze opcje możemy znaleźć w logicznie ułożonym menu odbiornika, który także wywarł na nas wrażenie deja vu. Zdawaliśmy sobie jedną sprawę, że nad czymś ci programiści musieli pracować, więc coś nowego tu powinno być! Sprawdźmy zatem. W menu możemy

ustawić wszelkie opcje takie jak proporcje obrazu, system TV, Dolby, Scart, HDMI czy format S/PDIF. Jest też podmenu, w którym ustawiamy połączenie do sieci lokalnej albo/i do Internetu, sprawdzamy parametry twardego dysku, a także wykonujemy zerowanie do ustawień fabrycznych. Aha, jest też odtwarzacz DivX, ale cała część multimedialna zasługuje na osobne przedstawienie, zatem nie przerywajcie czytania!

Gdzie to jesteśmy? A no tak, to w końcu odbiornik satelitarny. Zanim zatem zaczniemy szaleć eksperymentując z Linuksem, Telnetem czy FTP, weźmy w garść pilota i sprawdźmy podstawowe funkcje, jakość odbioru itd.

Użytkowanie

Lista kanałów wygląda identycznie jak ta w 900HD i wszystkie jej dobre cechy zostały zachowane. Są różne opcje sortowania - możemy je poukładać alfabetycznie, FTA/kodowane, wg satelity lub operatora. Naciśnięcie żółtego guzika aktywuje funkcję skoku, co jest pomocne wtedy, kiedy mamy tysiące kanałów. W przypadku posortowania alfabetycznego jest to skok do następnej litery. Z nadmiarem kanałów można sobie także poradzić przy pomocy list ulubionych kanałów. Mamy 5 wstępnie zdefiniowanych grup: Sports, Dramat, Wiadomości, Filmy i Muzyka. Po naciśnięciu „i” możemy stworzyć tyle nowych list ile tylko zechcemy, skasować, przemianować, przesunąć blokować lub edytować te już istniejące.

Naciśnięcie „i” na liście głównej kanałów daje nam podobne opcje, w tym naszą ulubioną z 900HD - edytowanie domyślnego poziomu audio dla każdego kanału osobno. Eleganckie rozwiązanie starego programu. Ile razy podczas surfowania po kanałach trafiał się nam niespodziewanie jakiś jeden

ryczący wniebogłose? Teraz wystarczy wyregulować indywidualnie jego poziom fonii na liście kanałów i voila! Nikt już nie będzie robił nam uwag, że oglądamy TV zbyt głośno.

Skoro mowa o surfowaniu, 910HD nie uszczęśliwi maniaków tego sposobu spędzania wolnego czasu, ale jedna sekunda z kanału na kanał jest absolutnie wystarczająca dla normalnego użytkownika. W obrębie jednego transpondera może to być nawet szybciej. Jest nieco dłużej przy przełączaniu DVB-S i DVB-S2 i SDTV na HDTV. Za to możemy być niemal pewni, że żaden kanał nie umknie naszej uwadze. Nawet tak egzotyczne kanały SCPC jak Calabria Channel na HELLAS SAT 2 z SR 1425! Specjalna wtyczka programowa mierząca rzeczywistość przepływnością bitową pozwoli nam sprawdzać czy operator dostarcza obraz i fonię w takiej jakości jak obiecywał.

PIP jest tak samo dobre jak było. Można wyświetlić równocześnie dwa kanały z tego samego transpondera w równej wielkości oknach, albo drugi może być w mniejszym oknie za obrazem głównym, przy czym będziemy mieli możliwość ich przełączania. Ponieważ pilot jest identyczny z tym do 900HD, odpowiedzialne guziki to te w drugim rzędzie od góry.

Miłe i przyjazne EPG jest także na miejscu w pełni swojej chwały. Jedno kliknięcie guzika EPG pokazuje audycje dla wybranego kanału, a kolejne wywołuje pełną siatkę programową dla sąsiednich kanałów. Oczywiście informacja EPG musi być najpierw wprowadzona do strumienia danych przez nadawcę kanału. Naciśnięcie guzika z czerwonym kółkiem wystarcza, aby podświetlona audycja czy film zostały zapamiętane do zarejestrowania.

I tu do gry włącza się wspaniały PVR. 910HD nie tylko pozwala nam dołączyć zewnętrzny dysk twardy



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przez USB albo E-SATA, ale ma już jeden wewnętrzny. Nasz model testowy wyposażony był w dysk 500 GB, co wystarcza nie tylko na zwykłe użytkowanie PVR, ale także na składowanie filmów DivX i muzyki MP3. Skoro mowa o PVR, warto zwrócić uwagę na guzik z kopertą. Daje on dostęp do wszystkich nagrań, a także do wspomnianej funkcji poślizgu w czasie. Po jej aktywacji w zaawansowanych ustawieniach menu w podmenu ustawień HDD, poczujemy magię nowoczesnej telewizji. Pauzujemy oglądany na żywo program i możemy zająć się jakąś pilną sprawą, a po powrocie przed telewizor, wznawiamy oglądanie od momentu, którym odeszliśmy! Łatwo jest też „przewinąć” audycję do specjalnego momentu, który chcemy obejrzeć jeszcze raz. Przy tym nie trzeba doktoratu, aby nauczyć się tego wszystkiego używać!

Opcje multimedialne

Ponieważ oprogramowanie pokładowe 900HD/910HD jest nieustannie rozwijane,

obie skrzynki potrafią już dziś odtwarzać zarówno pliki audio jak i wideo oraz wyświetlać fotografie zapisane czy to na zewnętrznym dysku twardej, pamięci flash USB czy wewnętrznym dysku w przypadku 910HD. Pliki takie mogą być wgrywane przy pomocy FTP do katalogu „media” (IP dbiornika znajdziemy w zaawansowanych ustawieniach/IP setup, jako UserID podajemy „Root”, a jako hasło: „ipbox”).

Podmenu „Multimedia” także ma pewne funkcje PVR. Są to „Nagrane pliki” odnoszące się do zachowanych w PVR nagrań i „Harmonogram nagrań” do nagrań wykonywanych w staroświecki sposób przy pomocy timera. Pozostałe trzy opcje przeznaczone są dla „zewnętrznych” plików. Fotografie można oglądać albo indywidualnie po dwukrotnym kliknięciu na ich nazwie klawiszem „OK”, albo jako pokaz slajdów, który programuje się naciskając żółty guzik. Odtwarzacz MP3 wita użytkownika nieco bardziej zaawansowanym obrazkiem. Widoczne są

typowe guziki obsługi odtwarzacza, ale także czas aktualnej ścieżki i przepływność bitowa.

I choć o poprzednich funkcjach nie da się powiedzieć niczego złego, to odtwarzacz Video/DivX wymaga dopracowania. Podczas naszych testów, plik doskonale odtwarzany w komputerze, w 910HD

nie miał zsynchronizowanej wizji i fonii. Wizja opóźniona była o 1-2 sekundy. Niemniej odtwarzanie działało, więc jesteśmy pewni, że błąd ten zostanie usunięty w najbliższej aktualizacji oprogramowania.

Aktualizacja oprogramowania



Przy tak potężnym i uniwersalnym odbiorniku istotne jest, aby utrzymywać jego wewnętrzne oprogramowanie na tyle aktualne na ile tylko to możliwe. Tylko wtedy uda nam się stopniowo odkryć cały potencjał kryjący się w takim urządzeniu. ABCom spróbował uprościć to przez umożliwienie ściągania i instalacji

oprogramowania bezpośrednio ze skrzynki, bez dodatkowych urządzeń zewnętrznych. Niestety coś poszło nie tak. 910HD jaki otrzymaliśmy miał wersję firmware 8340, zaś na stronie producenta najbardziej aktualne to 8360. Najbardziej oczywistym działaniem było przejście do zaawansowanych ustawień i

skorzystanie z opcji „Network update”. I co tu zobaczyliśmy? Dwie całkiem przestarzałe wersje oprogramowania! Tą sprawą producent powinien się szybko zająć. Musieliśmy wybrać inną metodę aktualizacji oprogramowania – przy pomocy pamięci USB.

Ze sprzętowego punktu

widzenia, AB IPBox 910HD nie pozostawia nic do życzenia. Są tu wszystkie potrzebne złącza, możliwość wymiany tunerów plug-and-play, możliwość odbioru DVB-S, DVB-S2, MPEG-2, MPEG-4, HDTV i SDTV. Na jego twardy dysk możemy skopiować wszystkie nasze filmy, muzykę i zdjęcia. Możemy grać w gry i sprawdzać prognozy pogody. W łatwy sposób doinstalujemy się dodatki programistyczne. Można diametralnie przeobrazić odbiornik instalując na nich alternatywne oprogramowanie.

ABCom sumiennie odrabia zadania domowe, a ponieważ większość podstawowych rzeczy działa w 910HD już teraz bez zarzutu, jest to dobry wybór, który sprawdzi się też w przyszłości!



ab-com



Zdaniem eksperta

+

Odbiornik, który usatysfakcjonuje niemal każdego, ponieważ można go przeobrazić przez instalację różnego typu oprogramowania.

Przy pozostaniu przy fabrycznym oprogramowaniu, obsługa będzie bardzo prosta. Nawet dzieci poradzą sobie z odnalezieniem ulubionego kanału z kreskówkami.

Alternatywne oprogramowanie zadowoli nawet zatwardziałego DX-mana.

Pełna elastyczność i uniwersalność: DVB-S, DVB-S2, MPEG-2, MPEG-4, HDTV i SDTV – wszystkie są odbierane znakomicie.

Prosta wymiana tunerów może przekształcić go w odbiornik kablowej lub naziemnej TV.

Opcja zainstalowania dysku wewnętrznego uwalnia nas od kłopotów z kabełkami, a wciąż pozostaje otwarta możliwość dołączenia dodatkowego zewnętrznego HDD.

Prawdziwie multimedialna skrzynka umożliwiająca nie tylko odbiór cyfrowej telewizji satelitarnej/kablowej/naziemnej, ale także słuchanie własnej muzyki, oglądanie filmów DivX i przeglądanie zdjęć.

-

Wyszukiwanie kanałów i ich przełączanie mogłoby być szybsze. Trzeba poprawić odtwarzacz DivX tak, aby wizja i fonia były zsynchronizowane.

Wentylator chłodzący na tylnym panelu mógłby być zastąpiony jakimś cichszym modelem.



Nickolas Ovsyadovsky
TELE-satellite
Test Center
Hungary



Lista kanałów |



Tryb PIP z wyborem podkanalu |

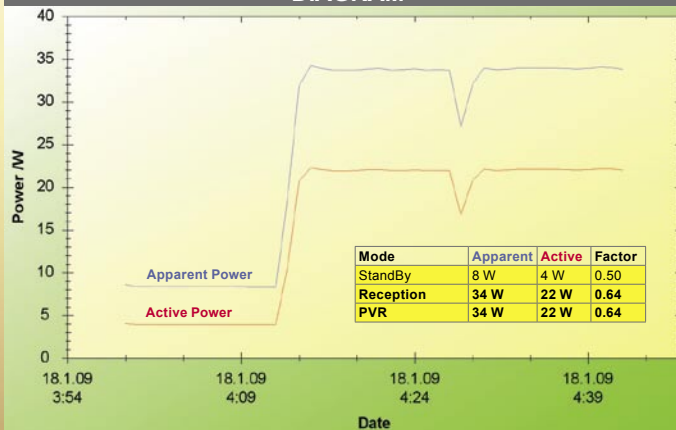
TECHNIC DATA

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



Odbiór SCPC z SR zaledwie 1425 |

ENERGY DIAGRAM



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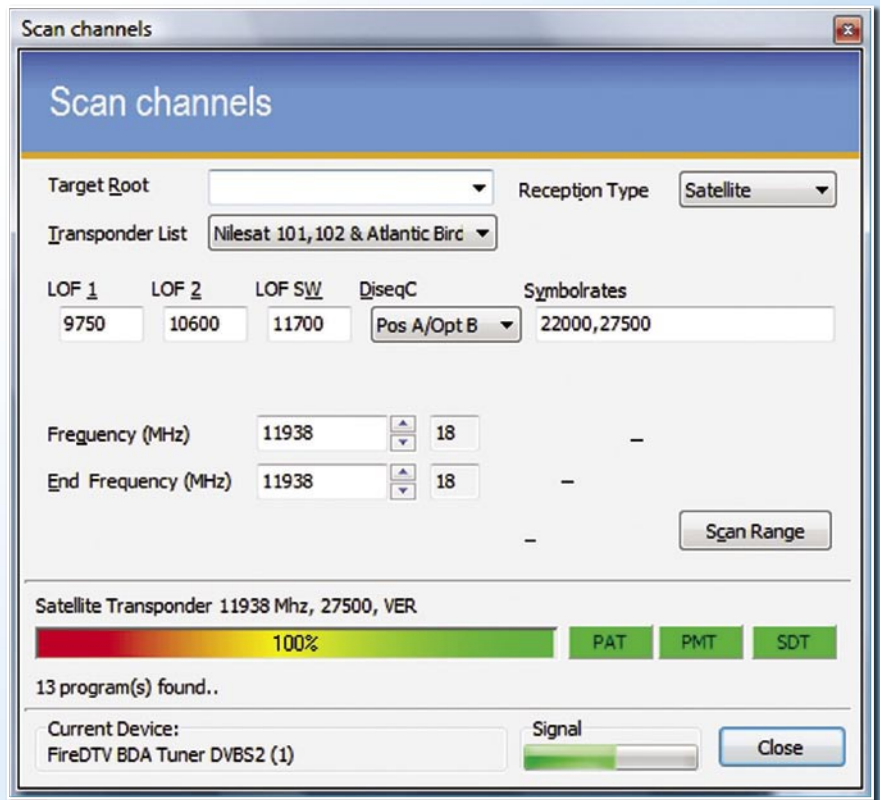


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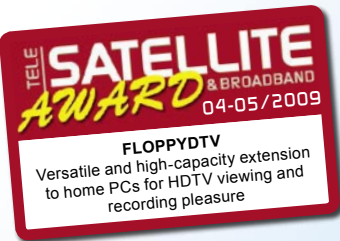
FloppyDTV Perfect DVB-S/2 Solution for the PC

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 DVBSHOP 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.



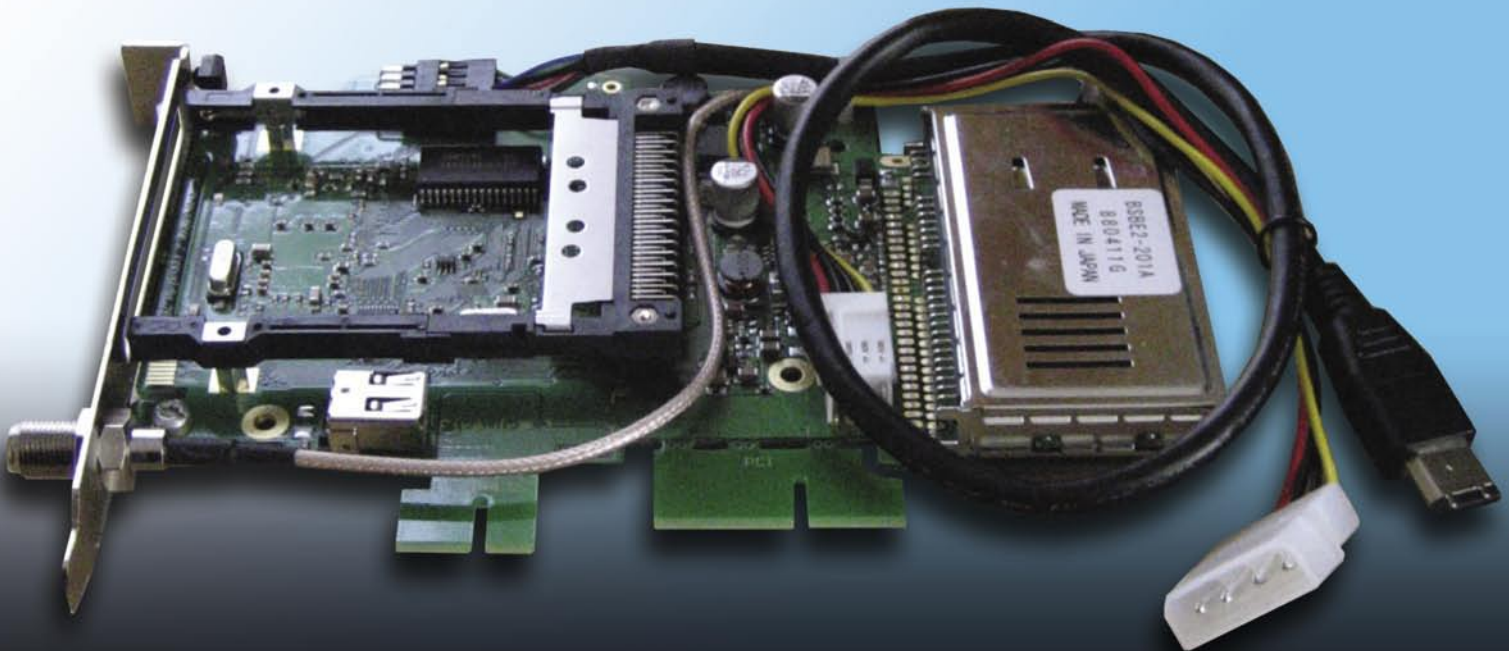
Transponder scan on NILESAT 7° West |



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.

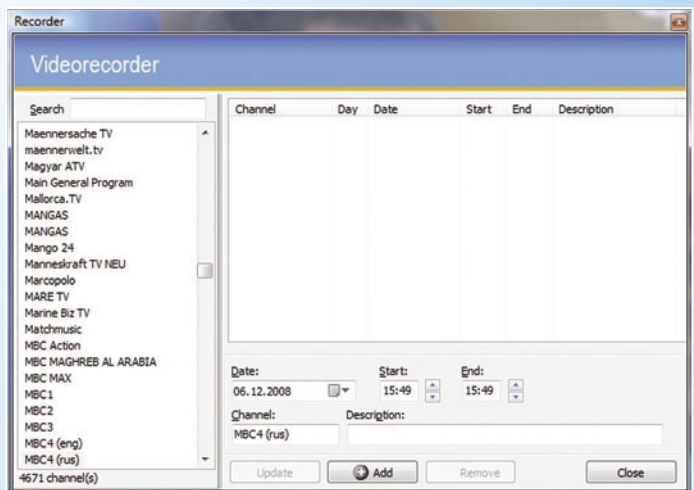
Once the installation process is finished the software is ready to perform its first channel scan. The FireDTV Viewer comes with a pre-stored list of 153 European, Asian and American satellite positions which is quite up-to-date and well sorted. Any required LOF can be used which means that the good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

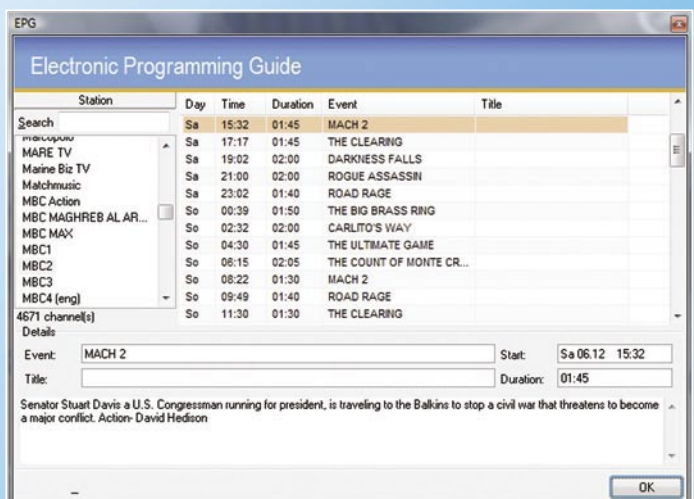
The pre-stored transponder list allows performing a channel scan either across the full frequency range of a satellite or for a restricted range. Alternatively, a single transponder can be chosen for a scan as well. Each scan result is saved separately with an individual time stamp by the software and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

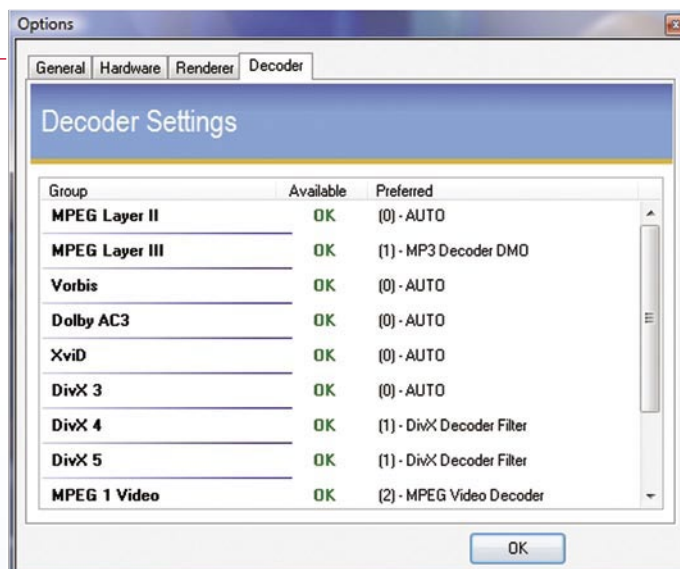
for up to a week in advance, if provided for the selected channel. Naturally you can mark EPG entries for recording with a simple touch of a button – we would not have expected anything less for a premium product anyway.

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

Mały odbiorniki o wielkich możliwościach



OPENSAT 3000CRCI PVR jest niewielkim odbiornikiem CI z nagrywarką PVR. Ma on niezwykle małe wymiary i dlatego zmieści się w każdym zestawie domowym A/V. Na przednim panelu zabudowano czterocyfrowy wyświetlacz segmentowy i – w lewym górnym rogu – przycisk załączania do pracy. Pozostałe guziki i złącza schowane są za klapką.



DIGITAL SATELLITE RECEIVER • 3000 CRCI PVR

DIGITAL SATELLITE RECEIVER • 3000 CRCI PVR

Po jej otwarciu ukazuje się siedem guzików obsługujących odbiornik w razie braku pilota, kieszeń CI na standardowe moduły dekodujące takie jak: Irdeto, Seca, Viacces, Cryptoworks czy Nagra-vision, czytnik kart kodowych Conax i interfejs USB.

Ściana tylna jest wyposażona bogato i zawiera wejście

IF z zapętlonym wyjściem, dwa złącza Scart, 4 złącza RCA z fonią stereo, wizją i sygnałem sterującym 0/12 V, wyjście optyczne fonii, wyjście modulatora UHF, interfejs RS-232 i główny wyłącznik zasilania.

Pilot zdalnego sterowania dołączony do odbiornika dobrze leży w dłoni, jest logicznie rozplanowany i czytelnie opisany. Mimo, że menu ekranowe OPENSAT-a jest

zrozumiałe samo przez się, producent dołącza wyczerpującą instrukcję obsługi, która rozwiązuje wątpliwości, jakie mogłyby się pojawić, co do sposobu posługiwania się urządzeniem. Wszystkie funkcje i opcje są opisane, a tam gdzie jest to pomocne zawiera rysunki i ilustracje.

Ogólna jakość wykończenia 3000CRCI jest bardzo dobra i do egzemplarza jaki otrzymaliśmy do testów nie możemy mieć żadnych zastrzeżeń.

Użytkowanie

Ten odbiornik nie został wyposażony w pomocnika instalacji, a to znaczy, że sami musimy zacząć od wyboru preferowanego języka dla menu ekranowego. Po odnalezieniu właściwego menu przekonamy się, że do dyspozycji mamy: angielski, francuski, niemiecki, włoski, hiszpański, turecki, polski, perski, słowacki, słoweński, czeski i węgierski.

Główne menu charaktery-



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zuje się przejrzystą strukturą i podzielone jest na sześć kategorii (lista kanałów, ustawienia anteny i wyszukiwanie kanałów, ustawienia, narzędzia, gry i PVR). W pierwszym kroku powinniśmy dopasować odbiornik do posiadanego telewizora.

Wspierane są następujące systemy koloru: PAL, PAL-M, PAL-N, SECAM i NTSC. Dowolny z nich można wybrać ręcznie albo zostawić odbiornik w trybie auto, a wtedy pozostawiamy to w gestii odbiornika.

Sygnał wizji można otrzymać w formacie RGB albo CVBS. Ani S-Video, ani YUV nie są zaimplementowane. Modulator UHF aktywuje się przy pomocy dedykowanej pozycji menu. Ustawić można dowolny kanał w zakresie od 21 do 69.

Jak wszystkie urządzenia, DVB OPENSAT 3000CRCI też synchronizuje swój czas lokalny z czasem transmitowanym z satelity. Nam pozostaje tylko poinformować go, jakie jest przesunięcie naszego czasu lokalnego w stosunku do GMT. Większość innych odbiorników wymaga od nas podania tej różnicy w postaci GMT +/- x godzin, natomiast ta skrzynka wyświetla listę popularnych miast w każdej strefie czasowej, co pozwala na prostą identyfikację prawidłowej strefy. Nie musimy dokładnie wiedzieć ile wynosi przesunięcie w godzinach.

Osobna pozycja w menu służy do ustawienia czasu letniego. Dzięki temu nie ma obawy, że dwa razy w roku będziemy musieli znów coś przestawiać. Opisywane menu uzupełniają jeszcze

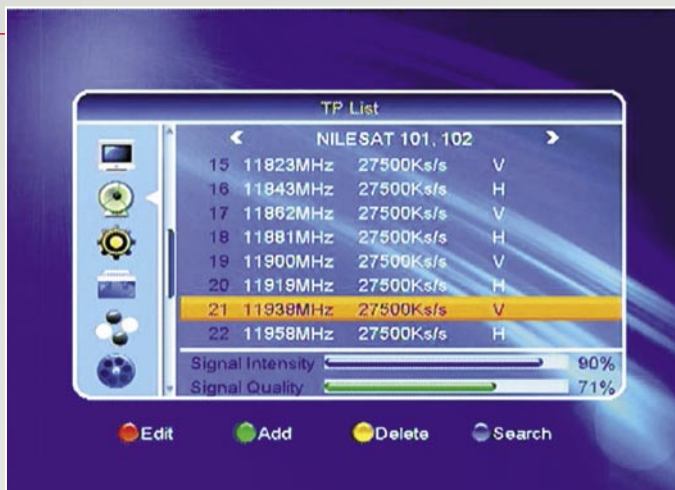
dwie przydatne pozycje: ustawienia grafiki ekranowej OSD i opcje przełączania kanałów.

Dalej, powinniśmy „zaprzyjaźnić” odbiornik z istniejącym systemem antenowym. W pamięci fabrycznie zapisane są 44 satelity europejskie, a ich parametry są bardzo aktualne.

Kolorowe guziki na pilocie można wykorzystać do dodawania kolejnych satelitów lub kasowania niepotrzebnych.

Odbiornik powinien wiedzieć czy jest połączony do anteny stałej, czy do obrotowej. Wspierane są wszystkie protokoły DiSEqC: 1.0, 1.1, 1.2 i 1.3 (USALS). Dzięki DiSEqC 1.1, odbiornik doskonale nadaje się do współpracy z systemami antenowymi o wielu konwerterach, zaś dzięki wspieraniu USALS nie ma problemu z podłączeniem bardzo praktycznych obrotnic tego typu, w których do poprawnej pracy wystarcza podać własne położenie geograficzne.

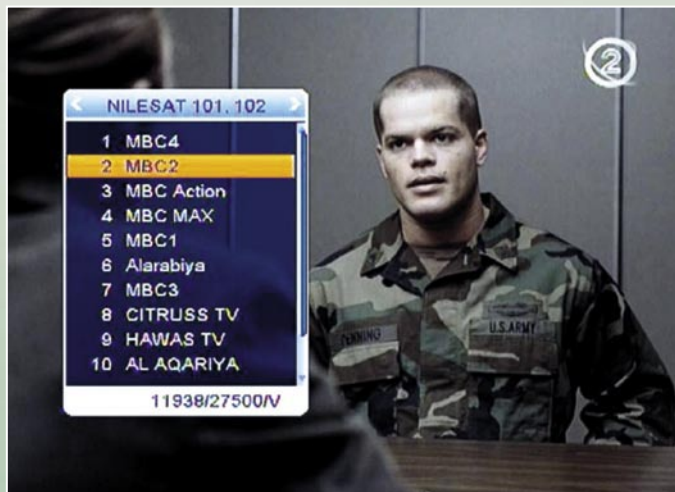
Odbiornik proponuje różne wartości LOF. Zatem odbiór pasma C jest równie możliwy jak odbiór pasma Ku. Można również podłączać LNBF na sygnały z polaryzacją kołową. W sumie liczba dostępnych LOF robi wrażenie, a przecież odbiornik pozwala też nietypową wartość wprowadzić ręcznie.



Lista transponderów NILESAT 7° W |



EPG |



Lista kanałów |



OPENSAT



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- Pre and Post BER can be displayed with their actual values (setup option)
- 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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- Registered design
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HDSM USB PLUS (additional features)

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Menu główne – instalacja



Wyszukiwanie wielosatelitarne



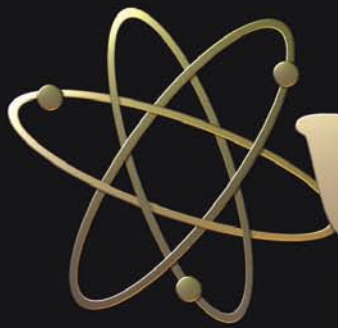
Edycja listy kanałów



Belka informacyjna



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Tegal Alur, Jakarta Barat 11820
Tel: (62-21)-5559733 Fax:(62-21)-5559805
email: subursmt@gmail.com
<http://subursmt.com>
INDONESIA



Mozaika 9 kanałów

3000CRCI ma pamięć na 4000 kanałów, a żeby ją wypełnić możemy skorzystać z automatycznego wyszukiwania na jednym lub więcej satelitach, albo wybrać ręczne wyszukiwanie na podanym transponderze. W obu trybach możemy ograniczyć skanowanie do kanałów niekodowanych, tylko TV, tylko radiowych lub radiowych i telewizyjnych. W razie potrzeby możemy dodać wyszukiwanie według informacji o sieciach. Wbudowany wykrywacz transponde-

rów jest miłym dodatkowym bonusem. Dzięki takiemu „wyszukiwaniu w ciemno” można znaleźć kanały nawet wtedy, kiedy transpondera nie ma na oryginalnej liście dla danego satelity.

Wypróbowaliśmy wyszukiwanie na pozycji HOTBIRD 13° E i OPENSAT potrzebował 3:20 minuty na znalezienie 1235 kanałów TV i 456 kanałów radiowych. Po aktywacji wykrywacza transponderów na tej samej pozycji satelitarnej odbiornik zakończył

po czasie nieco dłuższym niż 5 minut i znalazł 1132 kanałów TV i 431 radiowych. Oba wyniki są bardzo zadowalające biorąc pod uwagę, że pracujemy w trybie automatycznym.

W ręcznym wyszukiwaniu mamy do czynienia z transponderami, które możemy wybierać, edytować, sortować, dodawać lub usuwać, a wszystko po dotknięciu jednego guzika. Tutaj znów kolorowe guziki na pilocie czynią całą operację dziecinnie

prostą. Jedyną rzecz, jakiej nam zabrakło w tym odbiorniku, to ręczne wpisywanie wartości PID.

Jeśli uwzględnimy fakt, że pojemność pamięci ograniczona jest do 4000 kanałów, trzeba poważnie pomyśleć o dostosowaniu listy kanałów do własnych potrzeb i co ważne, o skasowaniu tych kanałów, których i tak nie będziemy oglądać. To wszystko da się zrobić dzięki pierwszej kategorii menu, gdzie umieszczono funkcje edycji listy kanałów. Nie trzeba mówić, że porządkować możemy nie tylko listę kanałów TV, ale w taki sam sposób zmienić listę radiową.

Do wszystkich DX-manów: z przyjemnością odnotujecie, że całą listę kanałów da się skasować bez zerowania innych ustawień odbiornika. W trybie edycji wyświetlana jest albo kompletna lista kanałów, albo tylko kanały z wybranego satelity – co jest w praktyce wygodne.

Kolorowe guziki pilota służą do dodawania kanałów do którejś z kilku list ulubionych (które można nazwać wg



upodobań), kasowania, przesuwania czy ich blokowania po to aby młodociani członkowie rodziny nie mieli dostępu do nieodpowiednich dla nich treści.

Ponadto kanały można zaznaczyć do przeskakiwania podczas przechodzenia górą-dół. Podczas pracy w trybie edycji w małym okienku wyświetlany jest obraz bieżącego kanału.

Czerwony guzik na pilocie otwiera okno wyboru kanału, którym możemy wpisać nazwę poszukiwanego kanału, a w trakcie tego na lewo od klawiatury pojawiają się wszystkie pasujące kanały.

Cecha ta sama w sobie jest już bardzo cenna, a OPENSAT uczynił ją przy tym bardzo wygodną w użyciu.

Bardzo dobrego wrażenia dopełniają funkcje dodatkowe takie jak zoom, wbudowany dekodery telegazety i wyświetlanie mozaikowe dziewięciu kanałów na raz.

OPENSAT stosuje tuner z niskim progiem czułości i dzięki temu odbiera i prze-

tworza nawet słabe sygnały, np. te z NILESAT 7° W czy ASTRA2D 28° E.

Test odbioru sygnału SCPC z satelity TURKSAT o przepływności 2400 kS/s zakończył się w przypadku 3000CRCI pełnym sukcesem. Wbudowany interfejs CI działał bez zarzutu i wszystkie moduły, jakie tam wkładaliśmy, bez problemu podejmowały pracę. Wbudowany czytnik kart Conax także działał bez zarzutu z naszą kartą testową.

Interfejs RS-232 można wykorzystać do aktualizacji oprogramowania, albo do zainstalowania nowej listy kanałów. W tym celu OPENSAT dostarcza specjalny edytor na PC, który jest nawet kompatybilny z SatcoDX i dzięki temu można go wykorzystać do zbudowania listy kanałów aktualnych co do minuty.

PVR

Jeśli zastanawialiście się dlaczego OPENSAT 3000CRCI PVR ma w swojej nazwie PVR, oto odpowiedź: to dzięki portowi USB 2.0 na panelu przednim daje się przekształ-

cić odbiornik w pełni funkcjonalną nagrywarę.

Do portu można podłączyć dowolny dysk twardy lub pamięć flash USB, a odbiornik rozpozna je w kilka sekund. Od tej chwili stają się dostępne wszystkie funkcje PVR, takie jak nagrywanie bieżącej audycji, odtwarzanie wcześniejszych nagrań i oczywiście oglądanie z poślizgiem w czasie.

Następnym razem, kiedy zadzwoni telefon podczas oglądania super filmu, naciskamy guzik pauza i spokojnie odbieramy telefon. Po skończeniu rozmowy siadamy przed telewizor i puszczaemy film od momentu, w którym go zatrzymaliśmy.

Naturalnie sprawdziliśmy wszystkie funkcje PVR i nie znaleźliśmy niczego, na co można się poskarżyć. Do naszej dyspozycji jest 8 zdarzeń w programatorze czasowym, a możemy nagrywać także w trybie codziennym lub cotygodniowym.

Oprócz nagrywania i odtwarzania zawartości TV i radiowej odbiornik posiada odtwa-

rzacz MP3 i przeglądarkę zdjęć. Nic nie stoi na przeszkodzie, aby przejrzeć na ekranie TV zdjęcia z ostatniej wycieczki albo wykorzystać odbiornik jako szafę grającą na najbliższej imprezie.

Aktualizacja oprogramowania możliwa jest także przez interfejs USB – wystarczy ściągnąć odpowiedni plik ze strony producenta, skopiować go na pendrive'a i zainicjować proces uaktualnienia w menu odbiornika.

Jedyną niedogodnością OPENSAT-a 3000CRCI jest to, że pamięć zewnętrzna może być podłączana tylko przez panel przedni odbiornika. To znaczy, że elegancka klapka musi pozostawać otwarta przez cały czas i odkrywać nieco mniej eleganckie wnętrze z guzikami i kieszeniami łącz.

Bardzo za to nam się podobało prostota edytowania nagrań na PC bądź ich wypalania na płytach. Dzięki przenośnej pamięci bardzo łatwo podłączyć ją do komputera bez potrzeby transferów dużych plików po kablach.



OPENSAT

Zdaniem eksperta

+

OPENSAT 3000CRCI PVR jest w pełni funkcjonalnym odbiornikiem z funkcją nagrywania doskonale nadającym się do dowolnego pokoju dziennego i dla wszystkich członków rodziny, a to dzięki prostej obsłudze. System operacyjny ma przyjazny interfejs użytkownika i przez cały czas trwania testu działał bezbłędnie. Komponenty sprzętowe stosowane przez OPENSAT-a także nie pozostawiają niczego do życzenia. Dzięki PVR, odtwarzaczowi MP3 i przeglądarce zdjęć, 3000CRCI jest niezwykle wszechstronny i świetnie wkomponuje się w każdy zestaw A/V dzięki swoim niewielkim wymiarom.



Thomas Haring
TELE-satellite
Test Center
Austria

-

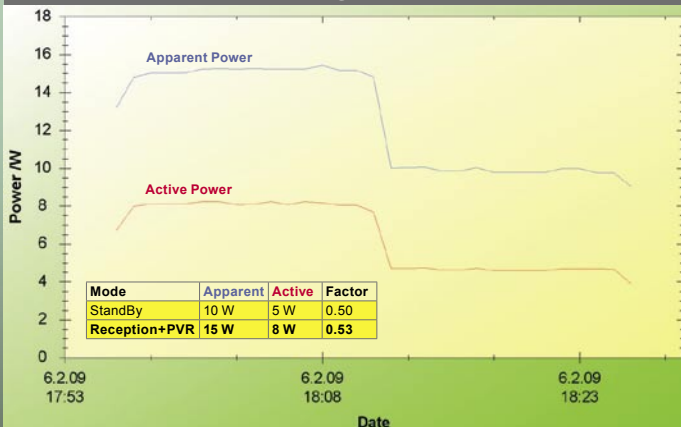
Interfejs USB na panelu przednim jest trochę niewygodny. Przesunięcie go na tył, albo jeszcze lepiej dodanie drugiego interfejsu USB z tyłu byłoby dobrym pomysłem.

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)

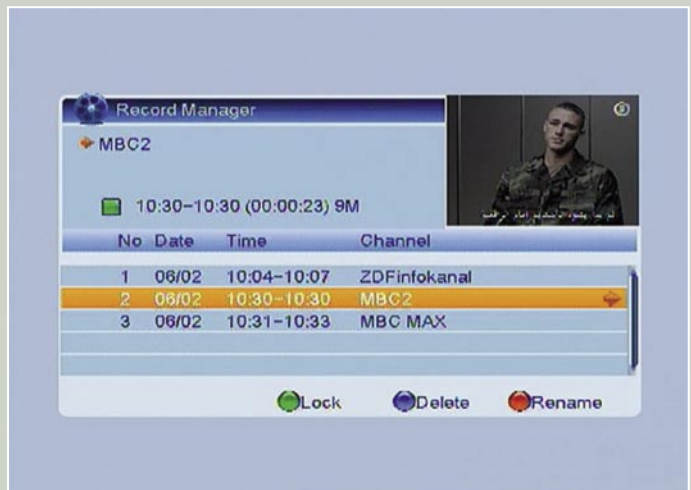
ENERGY DIAGRAM



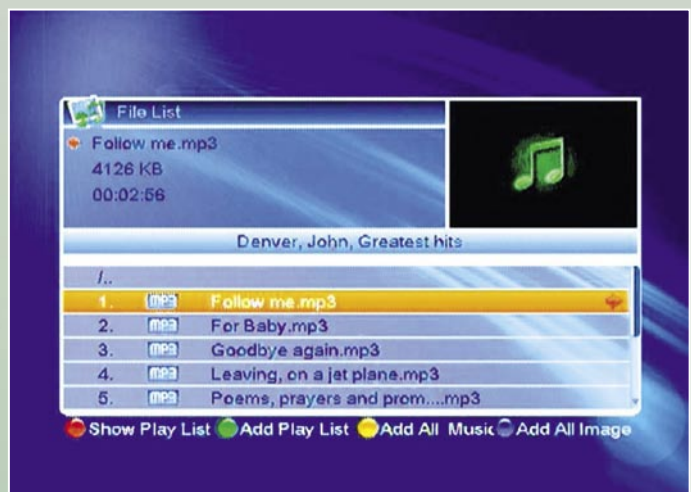
Pierwsze 15 min.: odbiór ze zmianą kanałów, nagrywanie PVR i odtwarzanie. Kolejne 15 min.: tryb oczekiwania



Główne menu – PVR



Menadżer PVR



MP3 Jukebox



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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	• / •

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Italian	Italiano	www.TELE-satellite.com/TELE-satellite-0903/ita/dizipia.pdf
Hungarian	Magyar	www.TELE-satellite.com/TELE-satellite-0903/mag/dizipia.pdf
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Polish	Polski	www.TELE-satellite.com/TELE-satellite-0903/pol/dizipia.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-0903/por/dizipia.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-0903/rus/dizipia.pdf
Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0903/sve/dizipia.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0903/tur/dizipia.pdf



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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Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0901/bul/jiuzhou.pdf
Czech	Česky	www.TELE-satellite.com/TELE-satellite-0901/ces/jiuzhou.pdf
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French	Français	www.TELE-satellite.com/TELE-satellite-0901/fra/jiuzhou.pdf
Greek	Ελληνικά	www.TELE-satellite.com/TELE-satellite-0901/hel/jiuzhou.pdf
Croatian	Hrvatski	www.TELE-satellite.com/TELE-satellite-0901/hrv/jiuzhou.pdf
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Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0901/sve/jiuzhou.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0901/tur/jiuzhou.pdf



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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Czech	Česky	www.TELE-satellite.com/TELE-satellite-0901/ces/opensat.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-0901/deu/opensat.pdf
English	English	www.TELE-satellite.com/TELE-satellite-0901/eng/opensat.pdf
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Portuguese	Português	www.TELE-satellite.com/TELE-satellite-0901/por/opensat.pdf
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Russian	Русский	www.TELE-satellite.com/TELE-satellite-0901/rus/opensat.pdf
Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0901/sve/opensat.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0901/tur/opensat.pdf





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

TELE SATELLITE AWARD & BROADBAND
12-01 / 2009

AB IPBOX 900HD
Perfect HD receiver both for a family as for the satellite enthusiast

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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0901/tur/abcom.pdf



AB-COM



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

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10-11 / 2008

TOPFIELD TF7700HSCI
A solidly built SDTV and HDTV receiver that includes a variety of very practical features

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TOPFIELD



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

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SONICVIEW



Manufacturer	PT. Subur Semesta
Website	www.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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 Easy to use receiver for big motorized dishes at an economic price

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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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08-09/2008

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

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06-07/2008

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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ARION



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

TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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- Dutch Nederlands
- 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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04-05/2008

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

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- Romanian Românesc
- 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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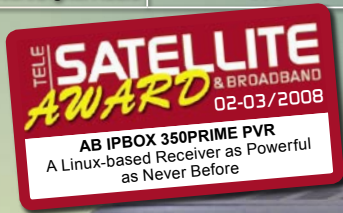
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Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0803/sve/topfield.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0803/tur/topfield.pdf



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



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[www.TELE-satellite.com/...](http://www.TELE-satellite.com/)

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Manufacturer	Arion
Website	www.arion.co.kr
Function	HDTV Satellite Receiver with CI Slot
DVB-S2/LAN	• / —
Channel Memory	4000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

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



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	- / -

Main Menu
 >>Channel Search
Digital Video Broadcasting

P:84% Q:58% playing
 >>1.Pgm1
Digital Video Broadcasting

P:93% Q:25% playing
 >>12.The Voice
Digital Video Broadcasting

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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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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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OPENSAT



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	- / -
Scart/Digital Audio	• / •

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Wysoka jakość za rozsądną cenę – tak brzmi misja słowackiego producenta odbiorników AB-COM obecnego na rynku ze swoimi opartymi na Linuksie dekodernami od 2005 roku. Już pierwszy odbiornik SD typu 200S okazał się rynkowym szlagerem i do dziś sprzedawany jest w dużych ilościach. Ocenia się go, jako jeden z najlepszych, a jednocześnie najbardziej opłacalny odbiornik z Linuksem dostępny na rynku. Dyrektor zarządzający firmy, Juraj Masaryk przedstawił nam w skrócie historię i widoki na przyszłość AB-COM.

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■ Pomieszczenia AB-COM na Słowacji. Na pierwszym planie widać jedną z ciężarówek firmowych.

Ściśle rzecz biorąc, AB-COM obchodzi w tym roku swoje dwudziestolecie. Jednak przedsiębiorstwo przeszło znaczące transformacje w przeszłości i dlatego jako punkt startowy AB-COM jako firmy satelitarnej uważa się rok 1992.

Do tego momentu AB-COM była założonym przez dwie osoby dystrybutorem sprzętu PC. W 1992 roku Juraj Masaryk dołączył do zespołu. Wcześniej pracował jako menadżer sprzedaży i zakupów u diler satelitarnego, ale w którymś momencie zdecydował, że chce zacząć wprowadzać w życie własne pomysły.

Juraj Masaryk początkowo otrzymał od partnerów AB-COM 25% udziałów w firmie i rozpoczął swoją karierę rozszerzając biznes



■ Juraj Masaryk jest dyplomowanym inżynierem i prowadzi firmę AB-COM jako dyrektor zarządzający. Skromnie nazywa siebie menadżerem sprzedaży i zakupów i ciągle poszukuje sposobów optymalizacji procesów biznesowych. Tu widzimy go jak pokazuje schemat organizacyjny 29 pracowników AB-COM. „Niektórzy pracownicy zajmują się kilkoma obszarami odpowiedzialności, zaś graf organizacji pokazuje jaki procent czasu poświęcają na co,” wyjaśnia Juraj. „Co tydzień zbieramy i analizujemy raporty aktywności.” Dzięki pomysłowej strukturze organizacyjnej AB-COM jest dobrze przygotowany na przyszły wzrost.





■ Widok sklepu AB-COM. Klienci detaliczni mogą kupić komponenty satelitarne bezpośrednio w pomieszczeniach AB-COM. Menadżer sprzedaży Peter Hrnko jest jednym z pięciu członków obsługi sklepu i pozuje do zdjęcia z odbiornikiem AB-COM. Choć produkcja odbiorników satelitarnych generuje 70 procent obrotu, AB-COM jest także dostawcą komponentów satelitarnych dla 3000 dilerów na Słowacji i w Czechach.

firmy o komponenty satelitarne. Na początku AB-COM zaoferował komponenty MMDS do telewizji naziemnej – ten segment istnieje do dzisiaj, ale ma on już niewielkie znaczenie dla całego biznesu.

Dziś Juraj Masaryk ma 60 procent udziałów w AB-COM, zaś dwaj oryginalni założyciele stali się uśpionymi partnerami i pozostawili codzienne zarządzanie w rękach Juraja. „AB-COM skupia się teraz wyłącznie na odbiornikach satelitarnych,” mówi nam Juraj Masaryk. To właśnie tutaj widzi on potencjał na przyszłość i tu wprowadza w życie swoje pomysły.

Na początku AB-COM importował odbiorniki od różnych producentów, „ale ich parametry nie odpowiadały moim standardom,” wspomina Juraj Masaryk. „Chciałem zobaczyć zrealizowane w rzeczywistości swoje własne pomysły.”

Była to jednak tylko jedna z kilku motywacji, aby stać się producentem



■ Nawet przy najbardziej skrupulatnej kontroli jakości, nigdy nie da się w pełni wyeliminować konieczności napraw. René Hubinský jest jednym z czterech techników oprogramowania.

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odbiorników. „Zawsze wierzyłem, że Linux doskonale sprawdzi się w odbiornikach satelitarnych,” tłumaczy Juraj Masaryk. Postanowił zatem spróbować to zrobić. Wkrótce potem programiści AB-COM stworzyli oprogramowanie pokładowe odbiornika. „Oprogramowanie do odbiorników SD jest w pełni rozwinięte, a dla modeli HD znajduje się w ostatniej fazie dopracowywania.” W przyszłości odbiorniki HD z AB-COM będą miały dedykowaną wersję Enigmy HD AB.

Trzecim, i w zasadzie decydującym, powodem dla wytwarzania odbiorników w AB-COM jest jakość. „Jakość jest zawsze w centrum naszej uwagi,” oświadcza Juraj. Ale jak zagwarantować jej utrzymanie na najwyższym poziomie? Naturalnie, Juraj znalazł radę i na to: komponenty kupowane są u dostawcy koreańskiego jako tzw. części SKD (semi knock down), montowane w AB-COM i indywidualnie sprawdzane.

Juraj wskazuje nam nalepkę na tylnej ścianie odbiornika AB-COM: „Tu możecie przeczytać: sprawdzone w EU.” Taki jest sposób AB-COM na zagwarantowanie, że każdy pojedynczy produkt spełnia wszelkie wymagania firmy. Ale sprawa nie kończy się na produkcji. Gdzie są sprzedawane odbiorniki AB-COM? Tomáš Kopecký jest menadżerem sprzedaży na Europę i śpieszy z wyjaśnieniem: „w niemal każdym kraju europejskim współpracujemy z krajowymi dystrybutorami.” Wskazując na mapę świata, Tomáš dodaje z dumą „reprezentowani jesteśmy nawet w Ameryce Północnej.”

Oczywiście jest jeszcze kilka białych plam na mapie, takich jak Francja, Portugalia, Turcja, Wielka Brytania czy Północna Afryka. „Na tych rynkach również szukamy dystrybutorów,” uzupełnia Tomáš w bezbłędnej angielszczyźnie, „z niecierpliwością czekam na dystrybutorów w tych krajach.” Juraj dodaje, „oczywiście możemy dostosowywać nasze odbiorniki do potrzeb indywidualnych rynków. Przykładowo, obecnie pracujemy nad wersją na rynek ukraiński.”

„Aktualnie, jakieś 30 procent sprzedaży generują odbiorniki SD, zaś 70 procentową większość stanowią urządzenia HDTV.” Patrząc na popularny model AB-COM 200S Tomáš wyjaśnia, że „z czysto ekonomicznego punktu widzenia, to nasz najlepszy produkt: oferuje najwyższą jakość z wszystkimi funkcjami za rozsądną cenę.” Juraj wtóruje „to właśnie

■ Widok pomieszczenia montażu: tutaj 16 pracowników składa sprowadzane komponenty, po czym skończony odbiornik AB-COM jest indywidualnie testowany.



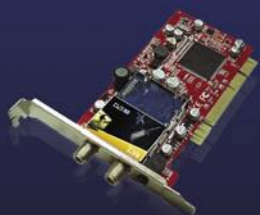
■ Menadżer magazynu Michal Valent zajęty jest układaniem w magazynie dopiero co ukończonych odbiorników AB-COM i przygotowywaniem ich do wysyłki zgodnie z nadchodzącymi zamówieniami.



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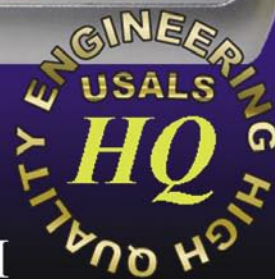
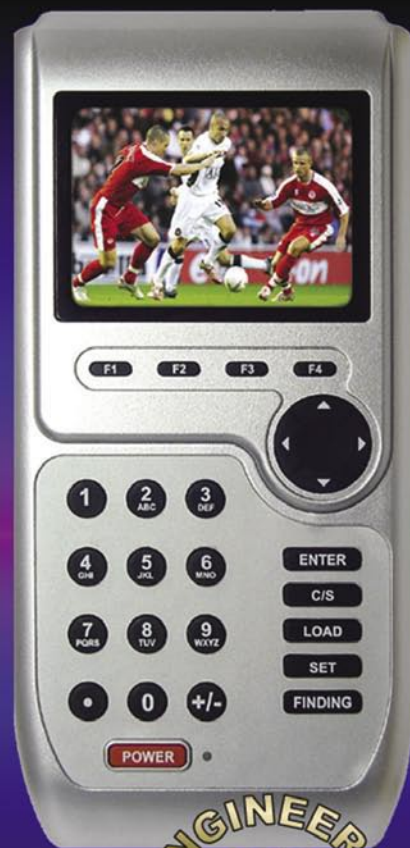
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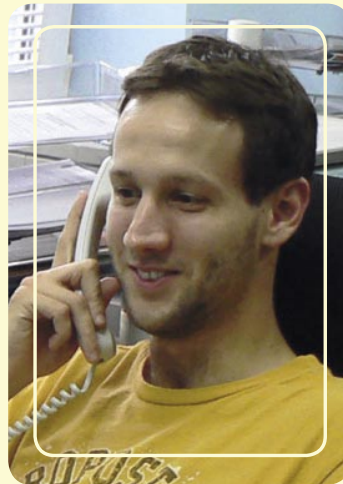
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■ **Menadżer sprzedaży Radovan** Cifra zajmuje się hurtowniami na Słowacji.



■ **Halo Juraj jest menadżerem** sprzedaży dla hurtowni w Czechach.



■ **Menadżer sprzedaży na Europę** Tomáš Kopecký jest oknem kontaktowym firmy dla dystrybutorów spoza Słowacji i Czech. „Bylibyśmy więcej niż szczęśliwi mogąc dołączyć kolejnych dystrybutorów krajowych do naszej sieci!”



■ **Juraj Bobula obsługuje** hurtowników ze Słowacji.

dlatego pracujemy nad modelem HD opartym o ten sam koncept.”

W chwili gdy trzymacie w rękach to wydanie, wprowadzenie na rynek jest tuż-tuż, a finalny produkt będzie bardzo mały, wyposażony w czytnik kart kodowych oraz w firmowy system operacyjny Enigma HD AB.

„W roku finansowym 2009 przewidujemy wzrost sprzedaży naszych odbiorców HD do poziomu 80 procent, zaś w 2010 do 90 procent udziału w sprzedaży,” Tomáš przedstawia nam projekcje sprzedaży na następne lata. „Przykładowo, odbornik AB-COM 350 Prime ma wymienne tunery i jest ulubieńcem operatorów kablowej TV,” Juraj zwraca naszą uwagę na kolejne osiągnięcie firmy. DVB-C jest tylko jednym z kilku obszarów zainteresowania AB-COM. Juraj wybiega myślą jeszcze dalej w przyszłość, kiedy odkrywa przed nami, że „jak tylko zakończymy projekt Enigma HD AB, nasi inżynierowie zabiorą się za rozwój Enigma IPTV AB.”

Juraj Masaryk musi być bardziej niż szczęśliwy obserwując jak rozwija się jego biznes. „Z roku 2007 na 2008 zaobserwowaliśmy 30 procentowy wzrost obrotów, zaś wzrost na 2009 jest spodziewany na poziomie 20 procent,” dumnie oświadcza Juraj po kilku kliknięciach w biznesowym programie firmowym.

„Całkowity obrót sięgnął niemal dziesięć milionów euro w 2008, a w 2009 ten poziom przekroczymy,” kontynuuje Juraj z optymizmem i informuje nas, że budowane są właśnie nowe pomieszczenia



■ **Juraj Masaryk jest prawdziwym entuzjastą satelitarnym – nawet poza pracą.** Widzimy go na balkonie jego domu obok wieloogniskowej anteny.

firmy. „Dzięki temu będziemy mieli dość miejsca na ekspansję!”

Jedna rzecz jest pewna: AB-COM lubi planować z wyprzedzeniem. To znaczy, że

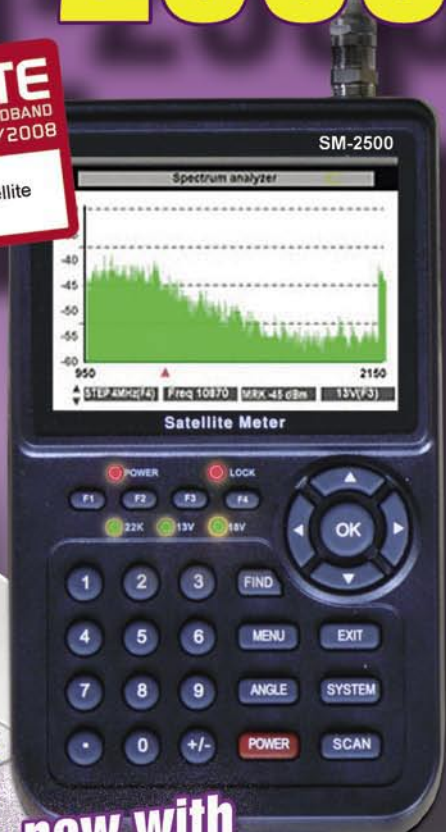
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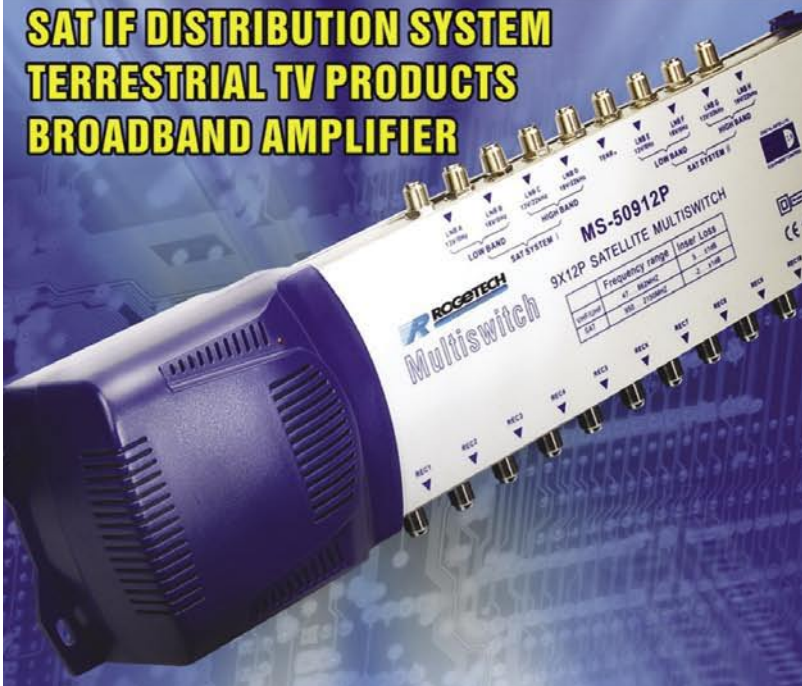
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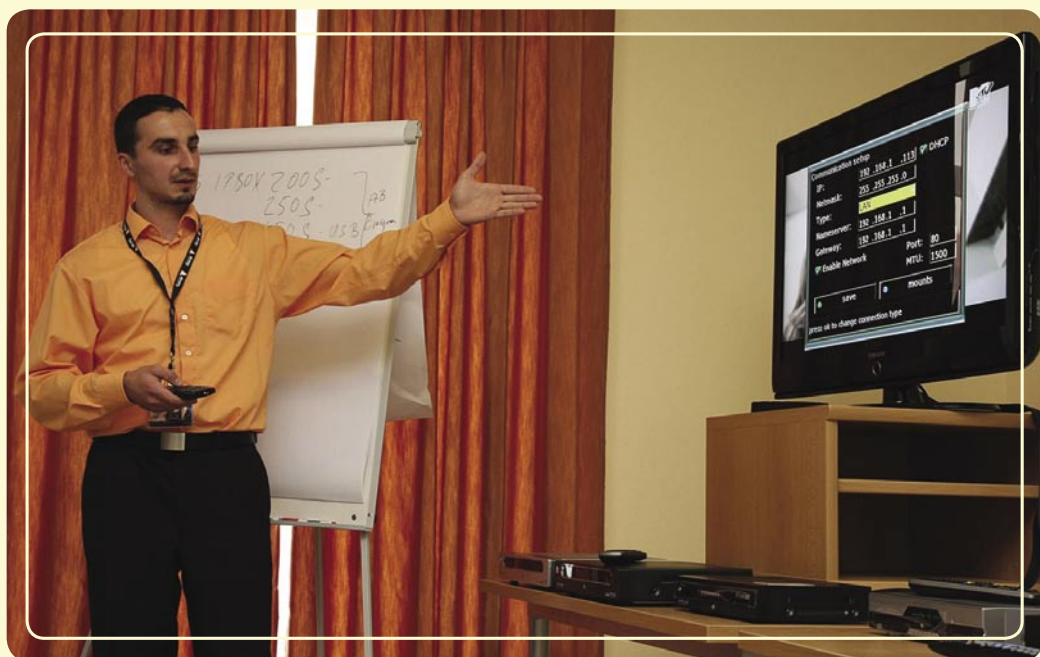
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■ AB-COM przywiązuje wielką wagę do ciągłego szkolenia. Podczas corocznych warsztatów dilerzy informowani są o najnowszych opracowaniach firmy. To całodniowe spotkanie sponsorowane jest przez AB-COM i tworzy znakomitą okazję na dla bliższego poznania się dilerów i pracowników AB-COM.

Inżynier serwisu Martin Ďurinský ■ podczas warsztatów przedstawia nowe cechy odbiorników AB-COM.



AB-COM przeprowadzi się do nowych budynków 1 października 2009 roku – ilustracja przedstawia wizję architekta. „Przeżyliśmy obecny budynek,” wyjaśnia Juraj. Pracownicy budowlani pracują pełną parą, aby jak najszybciej oddać do użytku wysokie na 6 metrów pomieszczenia fabryczne ■ oraz biura.



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Topfield - marka luksusowa

Alexander Wiese

Topfield ma od wielu lat ugruntowaną pozycję na rynku odbiorników satelitarnych wysokiej klasy. Nowa super skrzynka TMS jeszcze bardziej wzmocni pozycję Topfielda w najwyższym segmencie rynku. TELE-satelita w rozmowie z Hoon Sukiem z zespołu marketingu Topfielda dowiedział się jaką strategię na przyszłość obrała firma.

W sumie Topfield ma w ofercie ponad 200 różnych modeli odbiorników satelitarnych dostosowanych do poszczególnych rynków. Rzecz jasna, kierownictwo firmy doskonale zdaje sobie sprawę, że

Menadżer marketingu Dong Hoon Suk ■
stoi przed wystawą demonstrującą
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170 pracowników Topfielda pracuje w tym siedmiopiętrowym budynku biurowym ulokowanym w południowym Seulu. 100 z nich pracuje w wydziałach oprogramowania i projektowania sprzętu, zaś 70 zajmuje się administracją, sprzedażą i marketingiem. Właściwe zakłady produkcyjne mieszczą się poza Seulem. Na dachu budynku Topfielda widać wiele anten satelitarnych. ■



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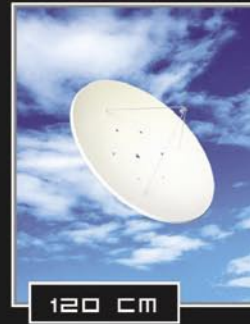
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sama liczba różnych modeli nie jest jeszcze wyznacznikiem sukcesu. „Musimy dowieść, że jesteśmy w stanie osiągnąć najwyższą jakość,” Dong Hoon Suk wyjaśnia strategię Topfielda. „Dzięki nowemu TMS nie tylko możemy zademonstrować najwyższą jakość techniczną, ale także niespotykany dotąd stopień użyteczności.” To niezwykle wysoki poziom możliwości, które do tej pory istniały, co najwyżej, w naszej wyobraźni. „TMS można także wykorzystać do celów komercyjnych,” podkreśla Dong Hoon



■ Menadżer produktu TMS, Jimmy Lee demonstruje możliwości połączeniowe innowacyjnego TMS.



■ Matt Jeon jest nie tylko mastermindem TMS, ale także liderem zespołu ośmiu programistów, pracujących nad rozwojem i ciągłym ulepszaniem oprogramowania TMS.

Suk, „a jego podłączenie do Internetu stwarza zupełnie nową sferę możliwości zastosowań odbiornika satelitarnego.” Ponieważ TMS jest szczytowej klasy produktem, Topfield wprowadzi go początkowo tylko na wybranych rynkach. „Jednym z nich będą Niemcy, ale także Holandia, Belgia i Szwajcaria,” kontynuuje Dong Hoon Suk. „Klienci tych rynków są szczególnie wymagający.” Zaskakujące, że Topfield będzie oferować TMS także w Rosji: „Wierzmy, że popyt na TMS będzie tam bardzo silny,” wyjaśnia Dong Hoon Suk.

Jimmy Lee jest menadżerem produktu odpowiedzialnym za TMS. Jego zadaniem jest koordynacja prac inżynierów programistów, inżynierów projektujących sprzęt i inżynierów produkcji, a także uzgadnianie wymagań na super odbiornik z działem marketingu. Menadżer odkrywa przed nami trochę szczegółów na temat harmonogramu produkcji: „Najpierw rzucimy na rynek 3000 odbiorników TMS.” Jimmy Lee wyjaśnia dalej, „w ten sposób sprawdzimy reakcję rynku.”

Różne rynki otrzymają różne warianty



■ Redaktor Naczelny TELE-satellite Alexander Wiese był oczekiwany w Topfieldzie, celem spotkania była demonstracja TMS.

TMS. „Przykładowo, fabrycznie zainstalowane gry będą innej natury” kontynuuje Jimmy Lee. „Wbudowana przeglądarka internetowa TMS początkowo będzie miała dostęp do wybranych usług, ale w drugim kwartale 2009 stanie się pełnosprawnym narzędziem,” Jimmy Lee odkrywa przed nami detale kolejnych etapów rozwoju oprogramowania TMS.

A jak w ogóle pojawił się sam pomysł na TMS? Wszystko zaczęło się od inżyniera oprogramowania Matta Jeona, który wpadł na pomysł nowego multimedialnego urządzenia w lutym 2008 roku. Założył zespół ośmiu programistów, którym udało się stworzyć pierwszy prototyp w sierpniu 2008. Zespół TMS był poddany całkowitej kwarantannie, nie

kontaktował się z resztą firmy i pracował w całkowitej tajemnicy. Po zbudowaniu pierwszych prototypów, pokazano je wewnątrz firmy oraz głównym dystrybutorom. Publiczność będzie mogła po raz pierwszy poznać bliżej TMS na tegorocznych targach ANGA.

TMS produkowany jest w Korei i stanowi wzorzec Topfielda do czego może być zdolny najnowocześniejszy odbiornik satelitarny. Po raz kolejny Topfield udowadnia, że miano „lidera domowych multimediów” nie jest tylko pustym sloganem, ale firma ciężko na nie pracuje. Topfield codziennie zdąża do technologicznej doskonałości.



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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", 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.



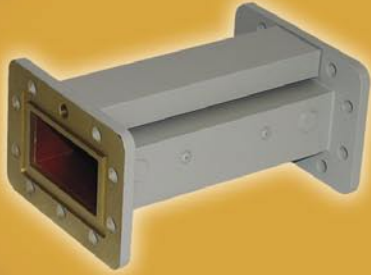
■ GTA Electronics can be found here in this office complex as a satellite dealer for end users and Worldwide Satellites as a satellite wholesaler. Pearson International Airport is located roughly 1 km behind the office.



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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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Aluo-sat zna wszystkich!

Każdy, kto bierze aktywny udział w biznesie satelitarnym w Chinach, prędzej czy później poznać musi Luo Shi Ganga. Nie tylko dlatego, że od wielu lat jest on dystrybutorem TELE-satellite na Chiny, ale także dlatego, że jest on znaczącą osobą w wielu innych obszarach odbioru satelitarnego. Ponieważ Chiny wkraczają w 2009 roku w erę transmisji DTH, pojawia się znakomity powód, aby odwiedzić Luo Shi Ganga w jego biurze w Shenzhen.

Luo nazwał swoją firmę Aluo-sat z prostego powodu: w dialekcie kantońskim, jakim mówi się w południowych Chinach, imię osoby często poprzedza się literą „a”. W ten sposób Luo staje się Aluo.

Luo pochodzi z Sichuan na południowym zachodzie Chin. Po ukończeniu studiów na wydziale elektrycznym, pierwszą pracę dostał w firmie produkującej komponenty elektryczne dla chińskiej armii w mieście Lanzhou na północnym zachodzie. Oprócz innych rzeczy, jego pierwszy pracodawca produkował też sprzęt satelitarny.

Luo po raz pierwszy zetknął się z odbiorem satelitarnym, kiedy udało mu się odebrać sygnał z rosyjskiego satelity

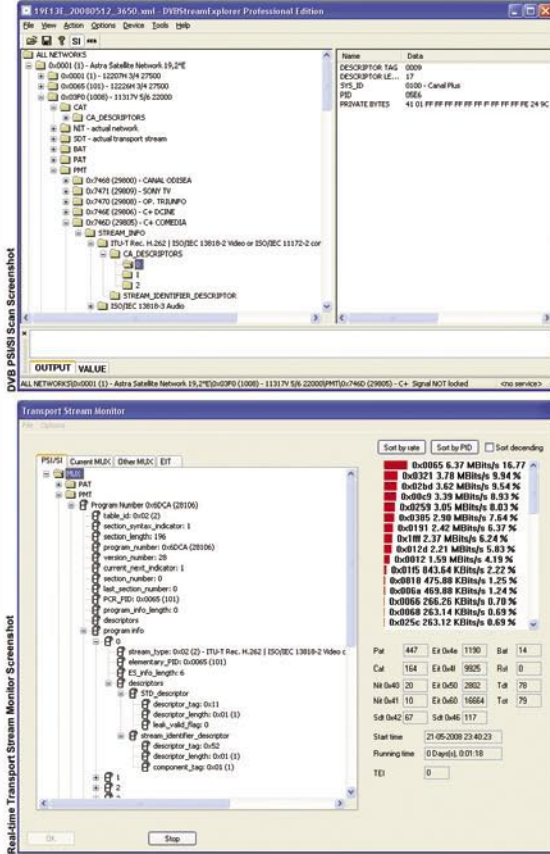
Członkowie zespołu Aluo-sat : Lou Jun (po lewej) i Luo Shi Gang (po prawej) na dachu. Dlaczego Luo Shi Gang wybrał na swoje biuro najwyższe piętro? Prawdopodobnie odgadliście – chciał, aby kable łączące anteny z odbiornikami były krótkie. A dlaczego zadowolony jest, że wokół dachu biegnie wysoka balustrada? No cóż, prywatny odbiór satelitarny jest ciągle zabroniony w Chinach, a w ten sposób anteny Luo nie są z zewnątrz widoczne. Na zdjęciu widzimy dwie czasy na pasmo C, ta z tyłu jest zmotoryzowana, przednia jest nieruchoma.

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- 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.
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Real-time Transport Stream Monitor

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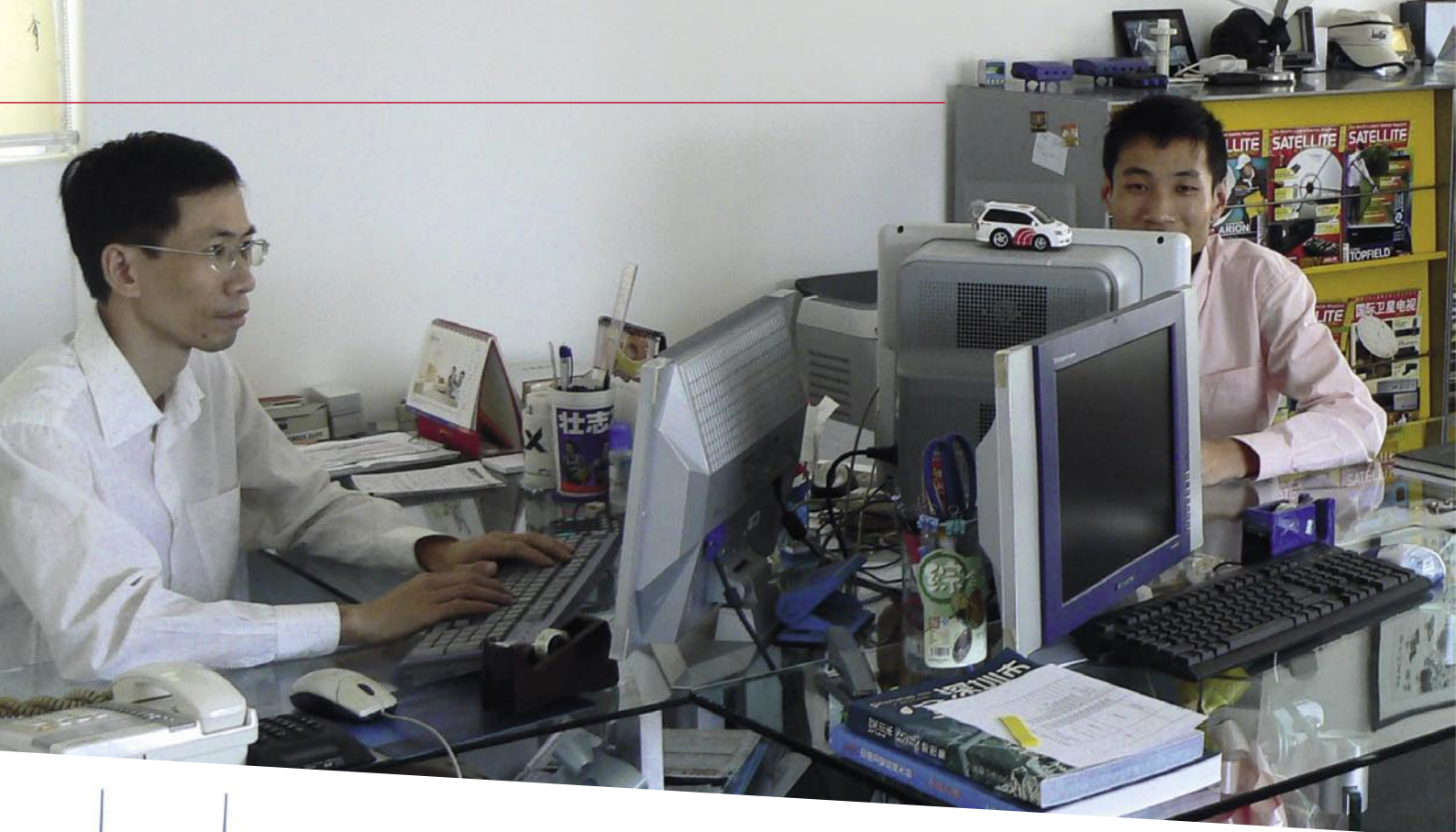


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EKRAN na 99° E, w zakresie UHF na częstotliwości 714 MHz. Od tej chwili zaraził się odbiorem satelitarnym. Wkrótce zaczął pisywać artykuły do tygodnika „Electronics Newspaper”, który był w owym czasie jedynym wydawnictwem zajmującym się techniką satelitarną. Liczba współpracowników ciągle rosła, a

jego praca także wymagała coraz większej liczby spotkań z osobami parającymi się sprawami satelitarnymi. Wreszcie w 1995 roku założył własny biznes: „Wraz z żoną założyłem Aluo-sat w Shenzhen w 1995.” Oprócz pisywania jako żurnalista techniczny, coraz częściej pełnił też rolę konsultanta.

Dzisiaj zatrudnia zespół siedmioosobowy: „Moja żona zajmuje się księgowością, trzech inżynierów obsługuje zapytania techniczne, jeden pracownik prowadzi sklep w Hong Kongu, a inny zajmuje się sprzedażą i dystrybucją.”

Aluo-sat rozpoczął ponadto dystrybucję produktów wybranych producentów wysokiej klasy jak np. Chnghong do naziemnej telewizji cyfrowej (DMB-TH), nadawanej z terytorium Hong Kongu, ale doskonale odbieranej również w Shenzhen. „Obsługujemy użytkowników końcowych jak i hurtowników,” Luo wyjaśnia

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Available online starting from 27 March 2009

Luo Shi Gang w swoim biurze na najwyższym piętrze bloku w sercu Shenzhen. Nie będziemy zaprzeczać, że jest on oficjalnym dystrybutorem TELE-satellite w regionie. ■



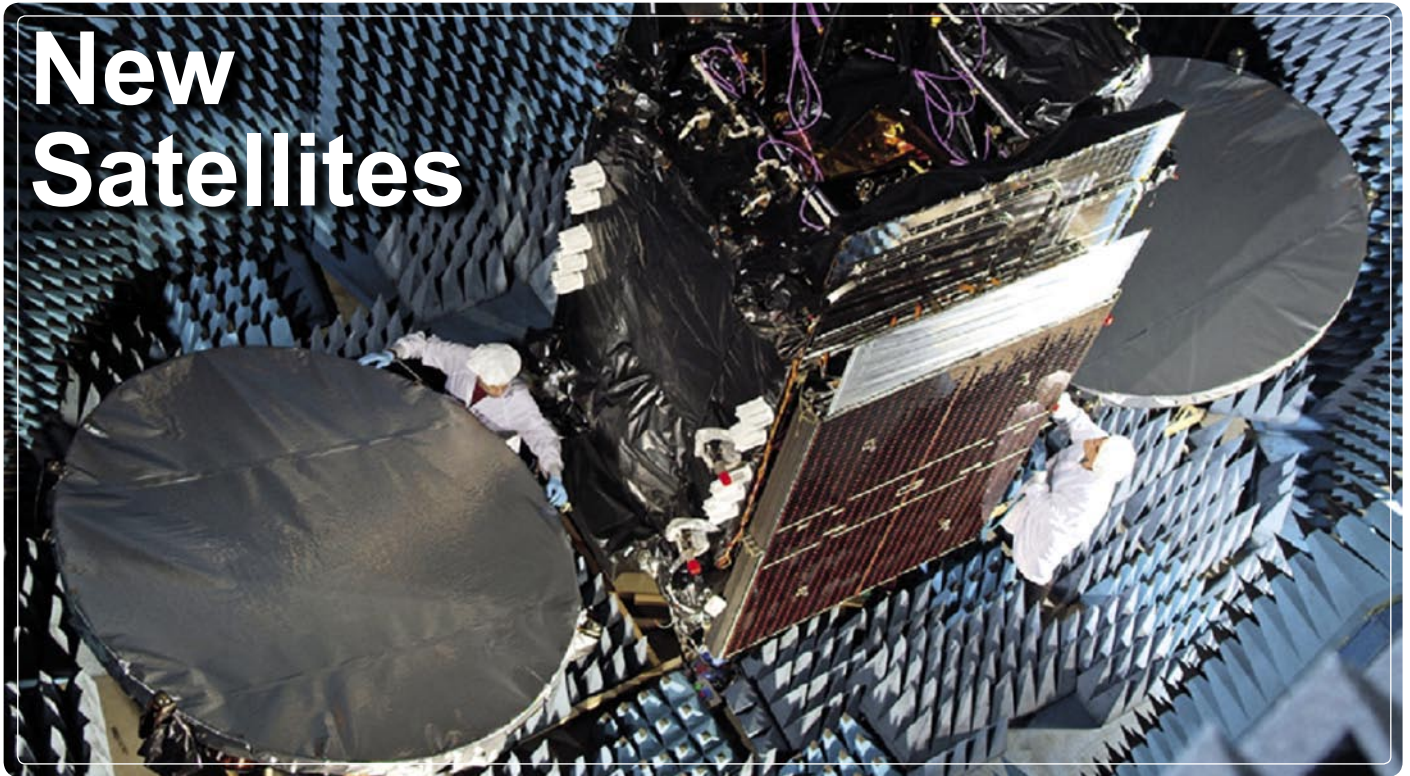
swoją strategię biznesową. „Ale najbardziej lubię pracować jako konsultant.” Luo dużo podróżuje i odwiedza wiele targów i wystaw mających coś wspólnego z techniką satelitarną. „W ten sposób mogę spotkać ważnych ludzi i powiększyć moją sieć osobistych znajomych,” oświadcza Luo.

Luo jest prominentną osobą w wielu regionach i segmentach. „Uwielbiam pomagać w tworzeniu nowych związków w chińskim biznesie satelitarnym.”

Wysoka balustrada gwarantuje, że anteny są schowane. W tle widać panoramę Shenzhen. ■



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.

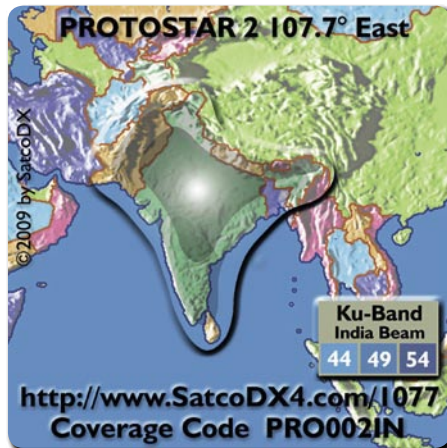
This satellite is also a special joint venture with ASTRA, The S-band (2.0 and 2.2 GHz), which represents a new frequency band for both SES and Eutelsat, provides a set of frequencies optimized for supporting a wireless distribution network for delivering video and other services to mobile devices, including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

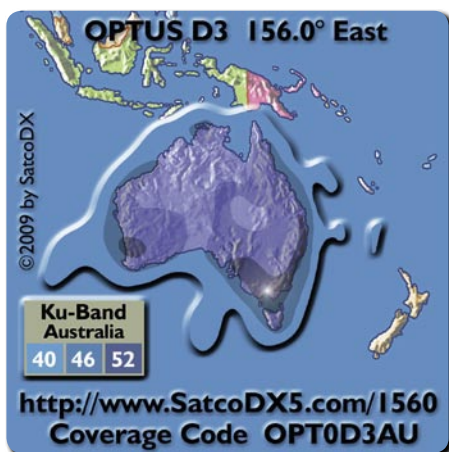




OPTUS D3

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

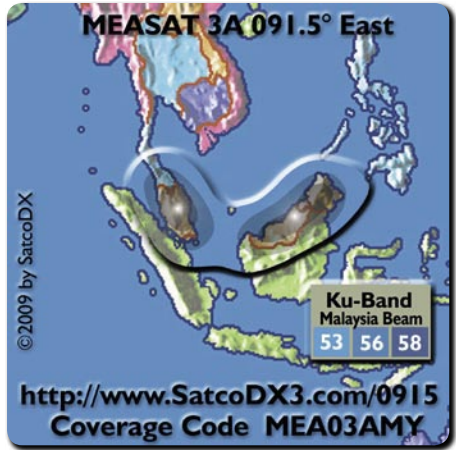
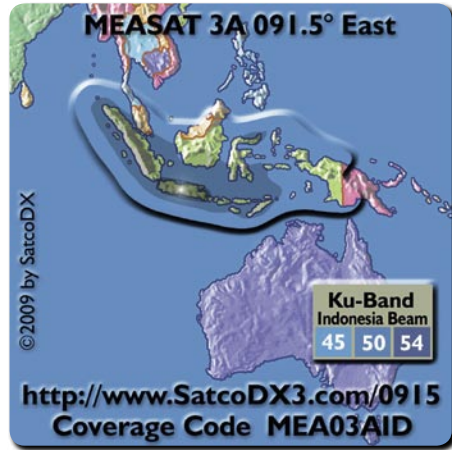
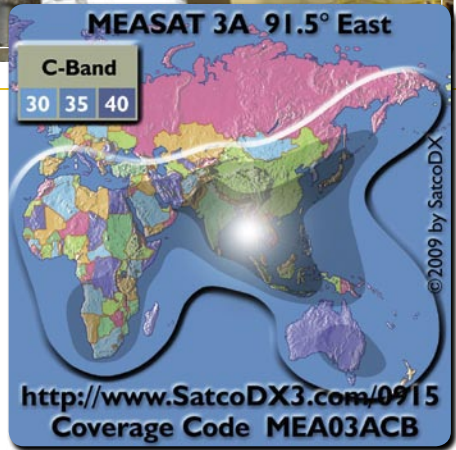
ASIASAT 5 C-band footprint will offer an extensive pan-Asian coverage and its high power Ku-band beams will focus on both East and South Asia, with a steerable beam that will cover anywhere within ASIASAT 5 geographic coverage. ASIASAT 5 has a sophisticated Ku-band inter-beam switching which provides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

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



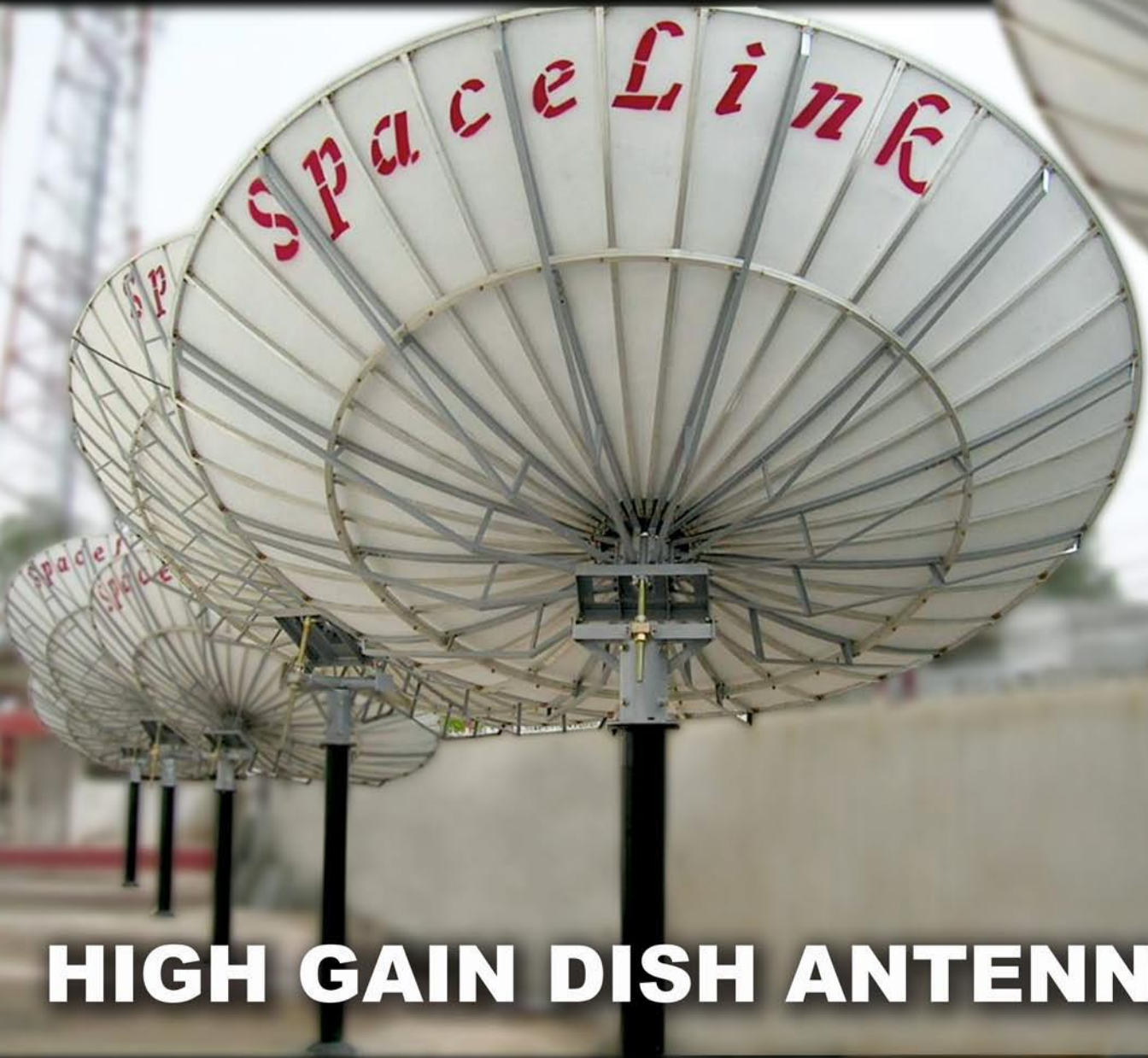
MEASAT 3A
June 2009

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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Colombia, including Bucaramanga and Cartagena, as well as focusing on the capital of Bogota.

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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CHINA MARKET IS OPENING!

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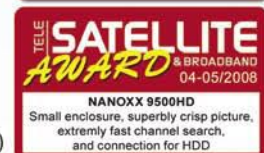
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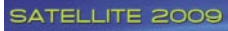
- **21 - 23 March: CCBN 2009**

The 17th China Content Broadcasting Network Exhibition
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www.ccbn.tv



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

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Walter E. Washington Convention Center, Washington, USA
www.satellite2009.com



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

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Abu Dhabi National Exhibition Centre, Abu Dhabi, UAE
www.mecomexpo.com



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

Tradefair for Cable, Broadband and Satellite
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<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
#212	08/2009	5 June 2009	17 July 2009	31 July 2009
#213	10/2009	7 August 2009	18 September 2009	2 October 2009
#214	12/2009	2 October 2009	13 November 2009	18 December 2009
#215	02/2010	4 December 2009	15 January 2010	29 January 2010

SatcoDX Global Satellite Chart

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

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

EUROBIRD 4	12.300 H NTU 27500	11.823 V TV1000 Ru Kino 27500	12.399 V ViSAT Sport HD 27500	Europe	11.452 V testint 30000	11.554 H SAUDI 1TV 27500
4.0 East	12.380 H Thoroughbred Racing 27500	11.823 V TV8 27500	12.437 V TV1000 HD 27500	EUTELSAT W3A	11.513 H BABY TV 27500	South Africa
EURO4WX	12.380 H DR Klassisk 27500	11.823 V DR1 27500	12.437 V TV1000 HD c 27500	7.0 East	11.513 H BABYFIRST 27500	EUTELSAT W3A
	12.380 H Beisat TV 27500	11.823 V DR P1 27500	12.476 V TV2/Bornholm 27500	EUW3ABA	11.513 H CRIME/INVESTIGATI 27500	7.1 East
	12.380 H LTV More 27500	11.823 V DR P2 27500	12.476 V TV2/Århus 27500		11.513 H POWERTURK TV 27500	EUW3AAB
	12.380 H European Radio for B 27500	11.843 H 1st Baltic Ch. Eston 27500	12.476 V TV2/Lor 27500		11.513 H S HONER 27500	
	12.418 H Alphameric Games 27500	11.843 H 1st Baltic Ch. Latv 27500	12.476 V TV2/Mid-West 27500		11.513 H TV5 MODER 27500	
	12.418 H Alphameric Games plu 27500	11.843 H 1st Baltic Ch. Lithu 27500	12.476 V TV2/Orkney 27500		11.513 H YUMURCAK TV 27500	
	12.418 H Alphameric Studio 27500	11.843 H LNK 27500	12.476 V TV2/Syd 27500		11.513 H IZ 27500	
	12.418 H Alphameric Studio pl 27500	11.843 H LNK 27500	12.476 V TV2/Åst 27500		11.513 H MASAL TV 27500	
	12.418 H ATRI - English 27500	11.843 H LTV 27500	12.476 V TV2/Åstjylland 27500			
	12.418 H ATRI - German 27500	11.843 H Ren-TV B 27500	11.214 V TERACOM 6666			
	12.418 H EURO RACING-SR 27500	11.843 H TV Libanania 27500	11.228 H SincoChannelT2 27500			
	12.418 H BOYLES SPORTS 27500	11.843 H 1st Baltic Music Cha 27500	11.228 H Kulturbulletin 16 020 23148			
	12.418 H BRAND TV DEMO 27500	11.843 H TV 27500	11.247 V Kanal Lokal Göteborg 23148			
	12.418 H BTC Alpha Irish Da 27500	11.862 V FEM 27500	11.247 V Kanal Lokal Skane 23148			
	12.418 H EURO RACING-G 27500	11.862 V Nickelodeon nordic 27500	11.247 V Kanal Lokal Stockholm 23148			
	12.418 H CCC TEST CHANNEL 27500	11.862 V TV1000 Action East 27500	11.247 V Kanal Lokal Östergöt 23148			
	12.418 H CORAL - SRIEL 27500	11.862 V ViSAT Motor 27500	11.422 H TV3 Denmark 23148			
	12.418 H CORAL EUROPE 27500	11.862 V ViSAT Sport Norge 27500	11.422 H TV3 Norge 23148			
	12.418 H EURO RACING-GS 27500	11.862 V zivse 27500	11.977 V TV3 Stockholm 23148			
	12.418 H EMP TEST CHANNEL 27500	11.862 V ViSAT Classic 2 27500	11.977 V BBC World 27500			
	12.418 H ESP CHANNEL-SIRI 27500	11.881 H 24 27500	11.977 V Hallmark 27500			
	12.418 H EURO RACING-G NO 27500	11.881 H MTV Nordic 27500	11.977 V Nature/Prime/Playboy 27500			
	12.418 H EURO RACING-SR 27500	11.881 H SVT1 27500	11.977 V TV1000 East 27500			
	12.418 H Intertrack-Data To 27500	11.881 H SVT2 27500	11.977 V TV3+ 27500			
	12.418 H ISIS Channel 27500	11.881 H TV1000 Plus One 27500	11.977 V TV4 Fakta 27500			
	12.418 H LADROKES IP DATA 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H LTVS 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H LITKA SILVER 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H SBS-CT - Vision a 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H SBS Racing - Data 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H SBS Racing - Germ 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H SBS Racing - Ind 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H SBS Racing - Jap 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H SBS Racing - Nede 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H SBS Racing - USA 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H SBS Racing - West 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H SBS Racing - Wld 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H SBS-CT 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H SPECIAL LADROKES 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H SPECIAL WILLIAM H 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H STAN JAMES 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H TEMP LADROKES EI 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H TEST1 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H TOTE-SIRIUS 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H TOTE-SIRIUS AUDIO 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H TOTE-SIRIUS AUDIO AND 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WFO 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLIAM HILL-S 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 11 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 10 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 19 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 20 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 21 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 22 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 23 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 24 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 25 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 26 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 27 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 28 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 29 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 30 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 31 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 32 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 33 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 34 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 35 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 36 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 37 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 38 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 39 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 40 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 41 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 42 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 43 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 44 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 45 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 46 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 47 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 48 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 49 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 50 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 51 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 52 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 53 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 54 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 55 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 56 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 57 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 58 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 59 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 60 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 61 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 62 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 63 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 64 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 65 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 66 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 67 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 68 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 69 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 70 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 71 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 72 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 73 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 74 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 75 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 76 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 77 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 78 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 79 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 80 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 81 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 82 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 83 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 84 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 85 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 86 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 87 27500	11.881 H TV1000 Premium 27500	11.977 V TV4 Fakta 27500			
	12.418 H WILLVC 88 27500	11.881				

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
11843 V Ashtari	27500	12511 H MGM ME	9259	11096 H Power-Naples	28000	11623 V ITALY ITALY	27500	12597 V Sedagheer	27500
11843 V AL BASHARA	27500	12511 H MGM ME	9259	11096 H Power-Signella	28000	11623 V ITALY ITALY	27500	12597 V The Volcano	27500
11843 V Amrita TV	27500	12511 H MGM ME	9259	11096 H Power+17 Vicenza	28000	11623 V Nostradamus	27500	12597 V WRN Deutsch	27500
11843 V DAN (Tamil)	27500	12511 H MGM ME	9259	11096 H Power-Vicenza	28000	11623 V PIANETA	27500	12597 V WRN English	27500
11843 V ETN TV	27500	12511 H MGM ME	9259	11096 H The Eagle - Vicenza	28000	11623 V RTL 102.3 TV	27500	12597 V WRN Events	27500
11843 V Kalini	27500	12511 H MGM ME	9259	11096 H The Eagle - Livorno	28000	11623 V RTL DOMANI	27500	12597 V WRN France	27500
11843 V Nepal	27500	12511 H MGM ME	9259	11096 H The Eagle - Naples	28000	11623 V ARTE, Radio Alam	27500	12597 V WRN Russia	27500
11843 V NLM TV	27500	12511 H MGM ME	9259	11096 H The Eagle - Signella	28000	11623 V Guardia Costiera	27500	12597 V WRN Suwak Al Alam	27500
11843 V Shalom	27500	12511 H MGM ME	9259	11096 H The Eagle - Souda Bay	28000	11623 V RomaClassica Intern	27500	12597 V WRN Special	27500
11843 V ZEE Russia	27500	12511 H MGM ME	9259	11096 H The Eagle - Livorno	28000	11623 V RomaClassica	27500	12597 V YLESA2 1	27500
11843 V Radio Hay	27500	12511 H MGM ME	9259	11137 H GEM TV	27500	11623 V Romania_Inf_direct	27500	12597 V YLESA2 2	27500
11843 V Radio Sweden 1	27500	12511 H MGM ME	9259	11137 H ANN	27500	11623 V RTL 102.5	27500	12597 V YLESA2 3	27500
11843 V Radio Sweden 2	27500	12511 H MGM ME	9259	11137 H GEM TV	27500	11642 H Bloomberg Feeds (B)	27500	12597 V YLESA2 4	27500
11843 V FTV HD	27500	12511 H MGM ME	9259	11137 H Kurdistan TV	27500	11642 H Bloomberg Feeds (E)	27500	12597 V YLESA2 5	27500
11916 V SVT WORLD	27500	12511 H MGM ME	9259	11137 H Lady Channel	27500	11642 H Bloomberg Feeds (M)	27500	12597 V YLESA2 6	27500
11916 V TM +972-7398873	27500	12511 H MGM ME	9259	11137 H RTB	27500	11642 H Bloomberg Feeds (S)	27500	12597 V YLESA2 7	27500
11916 V AL BASHARA	27500	12511 H MGM ME	9259	11137 H H. Belegni	27500	11642 H Bloomberg Feeds (T)	27500	12597 V YLESA2 8	27500
11916 V DIVINE TV	27500	12511 H MGM ME	9259	11137 H StarTV	27500	11642 H Bloomberg Feeds (U)	27500	12597 V YLESA2 9	27500
11916 V ETN TV	27500	12511 H MGM ME	9259	11137 H TelefonateSat	27500	11642 H Bloomberg Feeds (V)	27500	12597 V YLESA2 10	27500
11916 V FEED	27500	12511 H MGM ME	9259	11137 H TV5MONDO EUROPE	27500	11642 H Bloomberg Feeds (W)	27500	12597 V YLESA2 11	27500
11916 V Marine Biz TV	27500	12511 H MGM ME	9259	11137 H TV5MONDO FBS	27500	11642 H Bloomberg Feeds (X)	27500	12597 V YLESA2 12	27500
11916 V NLM TV	27500	12511 H MGM ME	9259	11137 H Vidéon	27500	11642 H Bloomberg Feeds (Y)	27500	12597 V YLESA2 13	27500
11916 V Rainbow	27500	12511 H MGM ME	9259	11158 V Polsat	27500	11642 H Bloomberg Feeds (Z)	27500	12597 V YLESA2 14	27500
11916 V Eden Radio	27500	12511 H MGM ME	9259	11158 V Polsat Cafe	27500	11642 H Bloomberg Feeds (AA)	27500	12597 V YLESA2 15	27500
11916 V Radio HAY	27500	12511 H MGM ME	9259	11158 V Polsat Play	27500	11642 H Bloomberg Feeds (AB)	27500	12597 V YLESA2 16	27500
11916 V Radio Sweden 1	27500	12511 H MGM ME	9259	11158 V Polsat Sport Extra	27500	11642 H Bloomberg Feeds (AC)	27500	12597 V YLESA2 17	27500
11916 V Radio Sweden 2	27500	12511 H MGM ME	9259	11158 V Polsat SuperStar	27500	11642 H Bloomberg Feeds (AD)	27500	12597 V YLESA2 18	27500
11916 V FTV HD	27500	12511 H MGM ME	9259	11179 H BTV INPS	27500	11642 H Bloomberg Feeds (AE)	27500	12597 V YLESA2 19	27500
11916 V SVT WORLD	27500	12511 H MGM ME	9259	11179 H BTV INPS	27500	11642 H Bloomberg Feeds (AF)	27500	12597 V YLESA2 20	27500
11916 V TM +972-7398873	27500	12511 H MGM ME	9259	11179 H JSC Sport+2	27500	11642 H Bloomberg Feeds (AG)	27500	12597 V YLESA2 21	27500
11916 V AL BASHARA	27500	12511 H MGM ME	9259	11179 H JSC Sport+3	27500	11642 H Bloomberg Feeds (AH)	27500	12597 V YLESA2 22	27500
11916 V DIVINE TV	27500	12511 H MGM ME	9259	11179 H JSC Sport+4	27500	11642 H Bloomberg Feeds (AI)	27500	12597 V YLESA2 23	27500
11916 V ETN TV	27500	12511 H MGM ME	9259	11179 H JSC Sport+5	27500	11642 H Bloomberg Feeds (AJ)	27500	12597 V YLESA2 24	27500
11916 V FEED	27500	12511 H MGM ME	9259	11179 H JSC Sport+6	27500	11642 H Bloomberg Feeds (AK)	27500	12597 V YLESA2 25	27500
11916 V Marine Biz TV	27500	12511 H MGM ME	9259	11179 H JSC Sport+7	27500	11642 H Bloomberg Feeds (AL)	27500	12597 V YLESA2 26	27500
11916 V NLM TV	27500	12511 H MGM ME	9259	11179 H JSC Sport+8	27500	11642 H Bloomberg Feeds (AM)	27500	12597 V YLESA2 27	27500
11916 V Rainbow	27500	12511 H MGM ME	9259	11179 H JSC Sport+9	27500	11642 H Bloomberg Feeds (AN)	27500	12597 V YLESA2 28	27500
11916 V Eden Radio	27500	12511 H MGM ME	9259	11179 H JSC Sport+10	27500	11642 H Bloomberg Feeds (AO)	27500	12597 V YLESA2 29	27500
11916 V Radio HAY	27500	12511 H MGM ME	9259	11179 H JSC Sport+11	27500	11642 H Bloomberg Feeds (AP)	27500	12597 V YLESA2 30	27500
11916 V Radio Sweden 1	27500	12511 H MGM ME	9259	11179 H JSC Sport+12	27500	11642 H Bloomberg Feeds (AQ)	27500	12597 V YLESA2 31	27500
11916 V Radio Sweden 2	27500	12511 H MGM ME	9259	11179 H JSC Sport+13	27500	11642 H Bloomberg Feeds (AR)	27500	12597 V YLESA2 32	27500
11916 V FTV HD	27500	12511 H MGM ME	9259	11179 H JSC Sport+14	27500	11642 H Bloomberg Feeds (AS)	27500	12597 V YLESA2 33	27500
11916 V SVT WORLD	27500	12511 H MGM ME	9259	11179 H JSC Sport+15	27500	11642 H Bloomberg Feeds (AT)	27500	12597 V YLESA2 34	27500
11916 V TM +972-7398873	27500	12511 H MGM ME	9259	11179 H JSC Sport+16	27500	11642 H Bloomberg Feeds (AU)	27500	12597 V YLESA2 35	27500
11916 V AL BASHARA	27500	12511 H MGM ME	9259	11179 H JSC Sport+17	27500	11642 H Bloomberg Feeds (AV)	27500	12597 V YLESA2 36	27500
11916 V DIVINE TV	27500	12511 H MGM ME	9259	11179 H JSC Sport+18	27500	11642 H Bloomberg Feeds (AW)	27500	12597 V YLESA2 37	27500
11916 V ETN TV	27500	12511 H MGM ME	9259	11179 H JSC Sport+19	27500	11642 H Bloomberg Feeds (AX)	27500	12597 V YLESA2 38	27500
11916 V FEED	27500	12511 H MGM ME	9259	11179 H JSC Sport+20	27500	11642 H Bloomberg Feeds (AY)	27500	12597 V YLESA2 39	27500
11916 V Marine Biz TV	27500	12511 H MGM ME	9259	11179 H JSC Sport+21	27500	11642 H Bloomberg Feeds (AZ)	27500	12597 V YLESA2 40	27500
11916 V NLM TV	27500	12511 H MGM ME	9259	11179 H JSC Sport+22	27500	11642 H Bloomberg Feeds (BA)	27500	12597 V YLESA2 41	27500
11916 V Rainbow	27500	12511 H MGM ME	9259	11179 H JSC Sport+23	27500	11642 H Bloomberg Feeds (BB)	27500	12597 V YLESA2 42	27500
11916 V Eden Radio	27500	12511 H MGM ME	9259	11179 H JSC Sport+24	27500	11642 H Bloomberg Feeds (BC)	27500	12597 V YLESA2 43	27500
11916 V Radio HAY	27500	12511 H MGM ME	9259	11179 H JSC Sport+25	27500	11642 H Bloomberg Feeds (BD)	27500	12597 V YLESA2 44	27500
11916 V Radio Sweden 1	27500	12511 H MGM ME	9259	11179 H JSC Sport+26	27500	11642 H Bloomberg Feeds (BE)	27500	12597 V YLESA2 45	27500
11916 V Radio Sweden 2	27500	12511 H MGM ME	9259	11179 H JSC Sport+27	27500	11642 H Bloomberg Feeds (BF)	27500	12597 V YLESA2 46	27500
11916 V FTV HD	27500	12511 H MGM ME	9259	11179 H JSC Sport+28	27500	11642 H Bloomberg Feeds (BG)	27500	12597 V YLESA2 47	27500
11916 V SVT WORLD	27500	12511 H MGM ME	9259	11179 H JSC Sport+29	27500	11642 H Bloomberg Feeds (BH)	27500	12597 V YLESA2 48	27500
11916 V TM +972-7398873	27500	12511 H MGM ME	9259	11179 H JSC Sport+30	27500	11642 H Bloomberg Feeds (BI)	27500	12597 V YLESA2 49	27500
11916 V AL BASHARA	27500	12511 H MGM ME	9259	11179 H JSC Sport+31	27500	11642 H Bloomberg Feeds (BJ)	27500	12597 V YLESA2 50	27500
11916 V DIVINE TV	27500	12511 H MGM ME	9259	11179 H JSC Sport+32	27500	11642 H Bloomberg Feeds (BK)	27500	12597 V YLESA2 51	27500
11916 V ETN TV	27500	12511 H MGM ME	9259	11179 H JSC Sport+33	27500	11642 H Bloomberg Feeds (BL)	27500	12597 V YLESA2 52	27500
11916 V FEED	27500	12511 H MGM ME	9259	11179 H JSC Sport+34	27500	11642 H Bloomberg Feeds (BM)	27500	12597 V YLESA2 53	27500
11916 V Marine Biz TV	27500	12511 H MGM ME	9259	11179 H JSC Sport+35	27500	11642 H Bloomberg Feeds (BN)	27500	12597 V YLESA2 54	27500
11916 V NLM TV	27500	12511 H MGM ME	9259	11179 H JSC Sport+36	27500	11642 H Bloomberg Feeds (BO)	27500	12597 V YLESA2 55	27500
11916 V Rainbow	27500	12511 H MGM ME	9259	11179 H JSC Sport+37	27500	11642 H Bloomberg Feeds (BP)	27500	12597 V YLESA2 56	27500
11916 V Eden Radio	27500	12511 H MGM ME	9259	11179 H JSC Sport+38	27500	11642 H Bloomberg Feeds (BQ)	27500	12597 V YLESA2 57	27500
11916 V Radio HAY	27500	12511 H MGM ME	9259	11179 H JSC Sport+39	27500	11642 H Bloomberg Feeds (BR)	27500	12597 V YLESA2 58	27500
11916 V Radio Sweden 1	27500	12511 H MGM ME	9259	11179 H JSC Sport+40	27500	11642 H Bloomberg Feeds (BS)	27500	12597 V YLESA2 59	27500
11916 V Radio Sweden 2	27500	12511 H MGM ME	9259	11179 H JSC Sport+41	27500	11642 H Bloomberg Feeds (BT)	27500	12597 V YLESA2 60	27500
11916 V FTV HD	27500	12511 H MGM ME	9259	11179 H JSC Sport+42	27500	11642 H Bloomberg Feeds (BU)	27500	12597 V YLESA2 61	27500
11916 V SVT WORLD	27500	12511 H MGM ME	9259	11179 H JSC Sport+43	27500	11642 H Bloomberg Feeds (BV)	27500	12597 V YLESA2 62	27500
11916 V TM +972-7398873	27500	12511 H MGM ME	9259	11179 H JSC Sport+44	27500	11642 H Bloomberg Feeds (BW)	27500	12597 V YLESA2 63	27500
11916 V AL BASHARA	27500	12511 H MGM ME	9259	11179 H JSC Sport+45	27500	11642 H Bloomberg Feeds (BX)	27500	12597 V YLESA2 64	27500
11916 V DIVINE TV	27500	12511 H MGM ME	9259	11179 H JSC Sport+46	27500	11642 H Bloomberg Feeds (BY)	27500	12597 V YLESA2 65	27500
11916 V ETN TV	27500	12511 H MGM ME	9259	11179 H JSC Sport+47	27500	11642 H Bloomberg Feeds (BZ)	27500	12597 V YLESA2 66	27500
11916 V FEED	27500	12511 H MGM ME	9259	11179 H JSC Sport+48	27500	11642 H Bloomberg Feeds (CA)	27500	12597 V YLESA2 67	27500
11916 V Marine Biz TV	27500	12511 H MGM ME	9259	11179 H JSC Sport+49	27500	11642 H Bloomberg Feeds (CB)	27500	12597 V YLESA2 68	27500
11916 V NLM TV	27500	12511 H MGM ME	9259	11179 H JSC Sport+50	27500	11642 H Bloomberg Feeds (CC)	27500	12597 V YLESA2 69	27500
11916 V Rainbow	27500	12511 H MGM ME	9259	11179 H JSC Sport+51	27500	11642 H Bloomberg Feeds (CD)	27500	12597 V YLESA2 70	27500
11916 V Eden Radio	27500	12511 H MGM ME	9259	11179 H JSC Sport+52	27500	11642 H Bloomberg Feeds (CE)	27500	12597 V YLESA2 71	27500
11916 V Radio HAY	27500	12511 H MGM ME	9259	11179 H JSC Sport+53	27500	11642 H Bloomberg Feeds (CF)	27500	12597 V YLESA2 72	27500
11916 V Radio Sweden 1	27500	12511 H MGM ME	9259	11179 H JSC Sport+54	27500	11642 H Bloomberg Feeds (CG)	27500	12597 V YLESA2 73	27500
11916 V Radio Sweden 2	27500	12511 H MGM ME	9259	11179 H JSC Sport+55	27500	11642 H Bloomberg Feeds (CH)	27500	12597 V YLESA2 74	27500
11916 V FTV HD	27500	12511 H MGM ME	9259	11179 H JSC Sport+56	27500	11642 H Bloomberg Feeds (CI)	27500	12597 V YLESA2 75	27500
11916 V SVT WORLD	27500	12511 H MGM ME	9259	11179 H JSC Sport+57	27500				

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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
12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad

Satellite 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
12.207 V BBCW SERVICE	27500	12.265 H WDR 2	27500	12.563 H Spass im TV	22000	13.118 V DISNEY CH. #1	22000	11635 H Euro Hits	28500
12.207 V BEUR FM	27500	12.265 H WDR 2 Klassik	27500	12.563 H WDR 2	27500	11.478 V PLAYN1TV	22000	11635 H Heavy Metal	28500
12.207 V BFM	27500	12.265 H WDR 3	27500	12.563 H WDR 3	27500	11.478 V JETIX	22000	11635 H Animemetal	28500
12.207 V CANALSAT RADIOS	27500	12.265 H WDR 4	27500	12.563 H Uchi TV	22000	11.478 V PLAYHOUSE	22000	11635 H Klassik Hits	28500
12.207 V CHERIE FM	27500	12.265 H WDR 5	27500	12.563 H Uchi's Schwermusik	22000	11.478 V SONY TV	22000	11635 H Klassischer Jazz	28500
12.207 V CONTACT FM	27500	12.265 H WDR Event	27500	12.563 H WDR 6	27500	11.478 V TELEFE INT	22000	11635 H Love Songs	28500
12.207 V COULEUR 3	27500	12.265 H WDR FunKhaus Europa	27500	12.563 H WDR 7	27500	11.478 V BABY FIRST	22000	11635 H New Age	28500
12.207 V EUROPE 1	27500	12.265 H YDF FM	27500	12.563 H WDR 8	27500	11.478 V CANAL EVENEMENT	22000	11635 H Perfect Dinner Party	28500
12.207 V FP	27500	12.265 H XXL	27500	12.563 H OE1	22000	11.478 V GIRONDIS TV	22000	11635 H Pop	28500
12.207 V FRANCE BLEU HD	27500	12.265 H ABN MOTEURS	27500	12.563 H OE1 HD	22000	11.478 V INULINE	22000	11635 H R & B Hip Hop	28500
12.207 V FRANCE CULTURE	27500	12.265 H AB1	27500	12.563 H OE2	22000	11.478 V TERREALTE	22000	11635 H Rock	28500
12.207 V FRANCE INFO	27500	12.265 H ACTION	27500	12.563 H OE2 K	22000	11.478 V LCP	22000	11635 H Reggae	28500
12.207 V FRANCE INTER	27500	12.265 H ANIMAX	27500	12.563 H OE2 N	22000	11.478 V PLAYN1TV	22000	11635 H Rock Anthems	28500
12.207 V FRANCE MUSIQUE	27500	12.265 H ANIMAX HD	27500	12.563 H OE2 O	22000	11.478 V PLAYN1TV	22000	11635 H Rock'n Roll Oldies	28500
12.207 V JAZZ RADIO	27500	12.265 H CINE POLAR	27500	12.563 H OE2 S	22000	11.478 V PLAYN1TV	22000	11635 H Spanish Rock	28500
12.207 V LE MOUV'	27500	12.265 H DORCEL TV	27500	12.563 H OE2 St	22000	11.478 V PLAYN1TV	22000	11635 H Symphonie	28500
12.207 V MO DUALIYA	27500	12.265 H EGYCLOPEDIA	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H UK Hits	28500
12.207 V MDR 1	27500	12.265 H ESCAPAD	27500	12.563 H OE2 U	22000	11.478 V PLAYN1TV	22000	11635 H Bayern 2	28500
12.207 V NOSTALGIE	27500	12.265 H MANGAS	27500	12.563 H OE2 V	22000	11.478 V PLAYN1TV	22000	11635 H Bayern 4 Klassik	28500
12.207 V NRJ	27500	12.265 H RTL9	27500	12.563 H OE3	22000	11.478 V PLAYN1TV	22000	11635 H Bremen Vier	28500
12.207 V OUI FM	27500	12.265 H toute L'HISTOIRE	27500	12.563 H OE3 MARI	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V PARENTHÈSE RADIO	27500	12.265 H N1	27500	12.563 H OE1 International	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RADIO 1	27500	12.265 H MOSAÏQUE C+	27500	12.563 H OE2 ATK	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RADIO 2	27500	12.324 H ONZEO	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RADIO 3	27500	12.324 H PRIVATE SPICE	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RADIO ALPHA	27500	12.324 H YACHT AND SAIL	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RADIO COURTOISE	27500	12.324 H CASH TV	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RADIO FG	27500	12.324 H MOSA 2	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RADIO FRANCE	27500	12.324 H MOSA 3	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RADIO INFO	27500	12.324 H MOSA 4	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RADIO INT 2	27500	12.324 H MOSA 5	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RADIO LATINA	27500	12.324 H MOSAÏQUE	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RADIO NOTRE-DAME	27500	12.324 H CDN12	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RADIO NOVA	27500	12.324 H (Empy)	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RADIO 2	27500	12.344 H Antenne1/Planet	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RADIO 3	27500	12.344 H Cartoon/TCM	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RADIO 3	27500	12.344 H SHALOM	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RF	27500	12.344 H EUROSPORT	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RL1 NT	27500	12.344 H Hitlink	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RL2 MULTILINGUE	27500	12.344 H RTL	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RFE	27500	12.344 H RTL5	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RIRE & CHANSONS	27500	12.344 H RTL7	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V RMC	27500	12.344 H RTL8	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V SKYROCK	27500	12.344 H TV Orange	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V SUD RADIO	27500	12.344 H DORCEL TV	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V TSF	27500	12.344 H Bel RTL	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V VIBRATION	27500	12.344 H Club RTL	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V VIRGIN RADIO	27500	12.344 H La Premiere	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V VOLTAJE	27500	12.344 H Mint	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.207 V WRN	27500	12.344 H Music 3	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.227 H EuroNews	27500	12.344 H Pure FM	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.227 H Eurosport	27500	12.344 H Eurosport	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.227 H HSE24 Digital	27500	12.344 H Video Contact	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.227 H MTV AUSTRIA	27500	12.344 H RTL 1440	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.227 H NICK AUSTRIA	27500	12.344 H RTL RADIO	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.227 H RTL Austria	27500	12.344 H RTL (VRT)	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.227 H RTL2 Austria	27500	12.344 H RV2 (VRT)	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
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12.227 H VOX Austria	27500	12.363 H DT15	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V Bive	27500	12.363 H DT16	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V 666 Girls TV	27500	12.363 H DT8	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V At1eshop	27500	12.363 H DT4	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V ACHTUNG Erotik-TV	27500	12.363 H DTS	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V ACHTUNG Singles-TV	27500	12.363 H DT5	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V Amateur SMS Chat	27500	12.363 H DT8	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V Amore TV	27500	12.363 H DT9	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V Astrored-TV	27500	12.363 H CEOR	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V Beate User Sexy Sat	27500	12.363 H DT10	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V Bi-XSat	27500	12.363 H DT2	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V Blitzkontakt-TV	27500	12.363 H DT20	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V DAF-Anieger-TV	27500	12.363 H EUROSPORT HD	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V Deltine	27500	12.363 H (Empy)	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V DELUXE MUSIC	27500	12.402 H 13EME RUE	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
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12.246 V DMAX	27500	12.402 H CINEMA FAMILI	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V Drib Television	27500	12.402 H CINEMA HD	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
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12.246 V Friends TV	27500	12.402 H NRJ 12	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V Gebrauchswaren TV	27500	12.402 H PLANETE NO LIMIT	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
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12.246 V Hot Girls TV	27500	12.402 H EMI Festival HD	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V Kanal XX-TV	27500	12.422 H Kanal XX TV	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V Liebesglück TV	27500	12.422 H WDR Bielefeld	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V Liebesraum-TV	27500	12.422 H WDR Dortmund	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V LokaSat	27500	12.422 H WDR Düsseldorf	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V mainstreet tv	27500	12.422 H WDR Essen	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V Malcorra TV	27500	12.422 H WDR Münster	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V MehrGeld TV	27500	12.422 H WDR Siegen	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V münchen tvRFD	27500	12.422 H WDR STV	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V ONY Regional	27500	12.422 H WDR Tübingen	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V Partnersuche-TV	27500	12.441 H ANIMAX (a/P)	27500	12.563 H OE2 T	22000	11.478 V PLAYN1TV	22000	11635 H Vrtz	28500
12.246 V Po8	27500								

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11.797 H TV JOJ	27500
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11.055 H LITE FM	27500
11.055 H LOVE SONGS	27500
11.055 H MONAWAT	27500
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11.055 H MARHABA	27500
11.055 H BBC ARABIC	27500
11.055 H BBC ENGLISH	27500
11.055 H CLASSICA	27500
11.055 H COUNTRY OF BLUES	27500
11.055 H DANCE	27500
11.055 H GMA DZBB	27500
11.055 H HITS	27500
11.055 H JAZZ	27500
11.055 H KHALIYATV	27500
11.055 H LITE FM	27500
11.055 H LOVE SONGS	27500
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11.055 H VIRGIN RADIO	27500

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11.075 H C-SPAN	27500
11.075 H CNBC-US	27500
11.075 H FOX NEWS	27500
11.075 H MUSIC NOW	27500
11.075 H ORBIT NEWS 2	27500
11.075 H PTest	27500
11.075 H SUPER COMEDY	27500
11.075 H Al Habeeb TV	27500
11.075 H Al Hayat Series	27500
11.075 H Al Lubnania 128	27500
11.075 H Atlas 128	27500
11.075 H Awa! TV	27500
11.075 H DM TV 128	27500
11.075 H Family One	27500
11.075 H Harmony TV	27500
11.075 H MARHABA	27500
11.075 H MONJOM 4	27500
11.075 H Sajaja	27500
11.075 H Talemah	27500
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11.075 H WTV 128	27500
11.075 H BBC ARABIC	27500
11.075 H BBC ENGLISH	27500
11.075 H CLASSICA	27500
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DishPointer.com

See where to point your dish, before you climb on the roof!

DishPointer, the state-of-the-art dish alignment and satellite information tool, is now available for commercial companies as a customised solution, programmed to fit individual needs.

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TV stations & program providers
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Receiver manufacturers
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Satellite Dish Pointer / Alignment Calculator with Google Maps

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

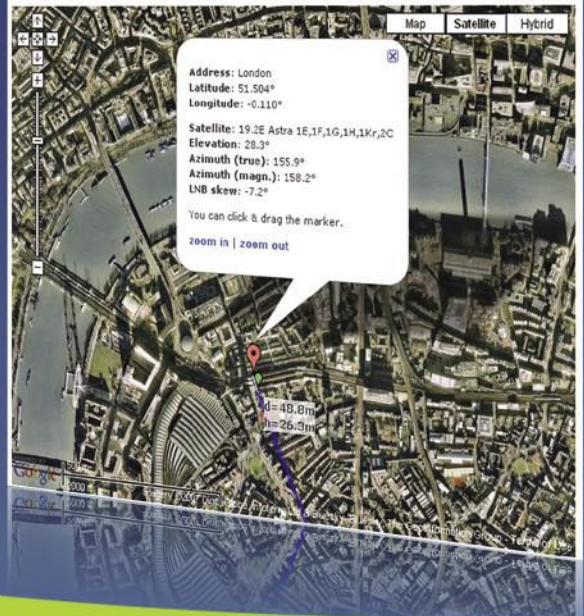
London

Popular Satellites:

- 28.2E Astra 2A-8-0
- 13.0E Hotbird 6,7A,8
- 19.2E Astra 1E,1F,1G,1H,1K,2C
- 42.0E TurkSat 1C, 2A
- 16.0E Eutelsat W2

- 26.0E Badr-2,3,4/Eurobird 2
- 5.0E Sirius 2,3
- 5.0W Atlantic Bird 3
- 7.0W Nilesat 101, 102, Atlantic Bird 4
- 1.0W Intelsat 10-02

All Satellites & Multi-LNB Setups: 19.2E Astra 1E,1F,1G,1H,1K,2C



References



www.dishpointer.com
info@dishpointer.com

12.560 H Satanta Golf	27500
12.560 H Satanta News	27500
12.560 H Satanta Sports1	27500
12.560 H Satanta Sports2	27500
12.560 V Best Direct	27500
12.560 V BestDirect+	27500
12.560 V Bubble Hits	27500
12.560 V EuroNews	27500
12.560 V O'zaproperty	27500
12.560 V Real Estate #1	27500
12.560 V Rocks & Co.	27500
12.560 V Thomson TV	27500
12.560 V Travel Channel	27500
12.560 V TravelChannel2	27500
12.560 V Tron Direct 2	27500
12.560 V Wedding TV1	27500
12.560 V Zone Thriller	27500
12.560 V Investigation	27500
11.428 H Brit Shorts	27500
11.428 H -	27500
11.428 H GROOVE	27500
11.428 H HNRG LOWNRG	27500
11.428 H RADIO SHEPHERD	27500
11.428 H WELL CLASS	27500
11.797 H Channel 4 HD	29500
11.797 H Sky Sports HD1	29500
11.797 H SkyRealLive2D	29500
12.324 V Sci-Fi HD	29500
12.324 V Discovery HD	29500
12.324 V Disney Cine HD	29500
12.607 V Rush HD	27500
12.607 H Gay TV	27500
12.607 H redhot 40+	27500
12.607 H redhot amateur	27500
12.607 H redhot dd	27500
12.607 H redhot fetish	27500
12.607 H redhot girl	27500
12.607 H redhot just X	27500
12.607 H Television X	27500
12.607 H TVX Amateur	27500
12.607 H TVX Brits	27500
12.607 H TVX FFWD	27500
12.607 V Zee Cinema	27500
12.607 V Zee Gujarati	27500
12.607 V Zee Punjabi	27500
12.607 V Zee Family	27500
12.607 V Live XXX	27500
12.607 H Pulse +4mins	27500
12.607 V Zee Music	27500
12.643 H Euronews TVHD	27500
12.643 V DMAX+1	27500
12.643 V DMAX+2	27500
12.643 V Military	27500
12.643 V Nick Jr	27500
12.643 V Nickelodeon	27500
12.643 V ParaComedy+1	27500
12.643 V The Style Ntwk	27500
12.643 V 1898	27500
12.643 V S450	27500
12.643 H Body in Balance	27500
12.643 H ITV	27500
12.643 H Live Bingo	27500
12.643 H Luxe TV	27500
12.643 H Music India	27500
12.643 H Ocean TV	27500
12.643 H NoorFinance	27500
12.643 V Teachers TV	27500
12.643 V World Movies	27500
12.643 V YoungHeart	27500
12.690 V BET +	27500
12.690 V channel U	27500
12.690 V Entrepreneur	27500
12.690 V Film24	27500
12.690 V Gems tv 3	27500
12.690 V MTV National	27500
12.690 V Pitch TV	27500
12.690 V Pitch World	27500
12.690 V Press TV	27500
12.690 V Sunrise TV	27500
12.690 V SupremeMstr	27500
12.690 V Travel Ch+1	27500
12.690 V Wonderful	27500

ARABSAT 2B

12.582 H ART-SNG2	4220
12.589 H BNSPAC CHANNEL	4220
12.661 V Almajd 05	27500
12.661 V Almajd 06	27500
12.661 V Almajd 07	27500
12.661 V Almajd 08	27500
12.661 V Almajd 09	27500
12.661 V Almajd 10	27500
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12.661 V Almajd 14	27500
12.661 V Almajd 01	27500
12.661 V Almajd 02	27500
12.661 V Almajd 03	27500
12.661 V Almajd 04	27500
12.740 V OMAN TV SPECIAL	5084
12.740 V OMAN TV CH	5084
12.740 V OMAN RADIO FEEDS	5084

ASTRA SATD

11.095 V TEMPO-TURK	2222
11.099 V HAMSI-TV	2222
11.226 H BUSINESS	3955
11.226 H CITY FM	27500
11.226 H HUMOR FM	27500
11.226 H KINO FM	27500
11.226 H POMESTNOE	27500
11.226 H Toinfo-TV	27500
11.226 H 107.8	27500
11.226 H AvtoRadio	27500
11.226 H Business FM	27500
11.226 H DMX+1	27500
11.226 H DOPOHOE	27500
11.226 H Energia	27500
11.226 H G.2	27500
11.226 H Gardarika	27500
11.226 H Radio Alfa	27500
11.226 H Kino FM	27500
11.226 H Piter RS	27500
11.226 H Pomestnoe	27500
11.226 H Radio Record	27500
11.226 H Radio Vanya	27500
11.226 H Record-2	27500
11.226 H Relax	27500
11.226 H Shanson	27500

EUROBIRD 033.0° East

11.172 L TV3	27500
12.072 L Discovery HD	27500
12.072 L Eurosport HD	27500
12.072 L HD-Kino	27500
12.072 L HD-Sport	27500
12.175 L TVN	4340
12.190 L 365 days	20000
12.190 L Teen TV	20000
12.190 L Autopilot	20000
12.190 L Discovery	20000
12.190 L Dom Kino	20000
12.190 L Komedia TV	20000
12.190 L Muz & deti	20000
12.190 L Muzo TB	20000
12.190 L Nochny Klub	20000
12.190 L Nostalgia	20000
12.190 L Telenyushchaya	20000
12.226 L Bibigon	27500
12.226 L Vesti	27500
12.226 L JTB	27500
12.226 L Kultura	27500
12.226 L MuzTV	27500

ARABSAT 2B 030.5° East

11.175 H Animal Planet	23600
11.175 H ART Channel	23600
11.175 H Jetix	23600
11.175 H Planeta	23600
11.175 H Premium Digital	23600
11.175 H ART Channel	23600
11.175 H H Estate	23600
11.175 H FolklorTV	23600
11.175 H Kanal 3	23600
11.175 H HECTV	23600
11.175 H H SC Fok	23600
11.175 H Zdrave	23600
11.650 V Turf TV	10098
11.685 H AKILLI TV	17360
11.685 H DIGITURK INFO	17360
11.685 H KANAL A	17360
11.685 H SAUDI 1 TV	17360
11.685 H ZDF	17360

EUROBIRD 033.0° East

10.978 V Test	5787
11.098 H TV8 Mont Blanc	2441
11.110 H FOX TURK	3124
11.140 V MTV MUSIC WALLONNE	4881
11.165 V BITE OR	1666
11.596 V BTV	27500
11.596 V MAP TV	27500
11.596 V Radio BNL	27500
11.596 V Radio Careturo	27500
11.596 V Radio GS	27500
11.596 V Radio IperStanda	27500
11.027 V Sci-Fi	8681
11.027 V Universal	8681
11.555 H SATNEWS02 02	6400

EUROBIRD 033.0° East

11.121 L Football test	27500
11.121 L Sport 1	27500
11.121 L Sport 2	27500
11.121 L TBI	27500
11.121 L Transmit	27500
11.121 L BIZ TV	27500
11.121 L CHANSON	27500
11.121 L Che-Pe INFO	27500
11.121 L Fiat Automotive	27500
11.121 L Q2TV	27500
11.121 L RUTV	27500
11.121 L TV3	27500
12.072 L Discovery HD	27500
12.072 L Eurosport HD	27500
12.072 L HD-Kino	27500
12.072 L HD-Sport	27500
12.175 L TVN	4340
12.190 L 365 days	20000
12.190 L Teen TV	20000
12.190 L Autopilot	20000
12.190 L Discovery	20000
12.190 L Dom Kino	20000
12.190 L Komedia TV	20000
12.190 L Muz & deti	20000
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12.226 L Kultura	27500
12.226 L MuzTV	27500

ARABSAT 2B 030.5° East

12.226 L HTB	27500
12.226 L L Perelyb	27500
12.226 L Petruburg 5 kanal	27500
12.226 L Ren TV	27500
12.226 L Rossiya	27500
12.226 L Sport	27500
12.226 L TBU	27500
12.226 L THT	27500
12.226 L TrikolourTV	27500
12.245 R BBC World News	27500
12.245 R Bloomberg	27500
12.245 R Eurosport 2	27500
12.245 R Nickelodeon	27500
12.245 R Russia Today	27500
12.245 R TV	27500
12.245 R World Fashion	27500
12.245 R Детский мир/Телеклуб 6	27500
12.245 R RTD	27500
12.245 R HTB Мир	27500
12.245 R Наше новое кино	27500
12.283 R 5 канал (Украина)	27500
12.283 R CCTV	27500
12.283 R ICTV	27500
12.283 R Парк развлечений	27500
12.283 R Первый канал. Всемир	27500
12.283 R РТР-Планета	27500
12.283 R Совершенно секретно	27500
12.303 L Боа ТВ	27500
12.303 L Домашний	27500
12.303 L Zoo TV	27500
12.303 L Кинолюкс	27500
12.303 L CTC	27500
12.303 L Тонус ТВ	27500
12.303 L А-ONE	27500
12.303 L BRIDGE TV	27500
12.303 L Союз	27500
12.303 L AvtoRadio	27500
12.303 L Energia TV	27500
12.303 L Humo-FM	27500
12.303 L Radio Alfa	27500
12.303 L Воскресенье	27500
12.303 L Новый день	27500
12.322 R Blue Hustler	27500
12.322 R REN-TV	27500
12.322 R Кинорус	27500
12.322 R Кто есть кто	27500
12.322 R Наше кино	27500
12.322 R Первый	27500
12.322 R Прямая	27500
12.322 R Спорт	27500
12.322 R Футбол	27500
12.322 L Мирфакан	27500
12.341 L AXN Sci-Fi	27500
12.341 L CanalSat-TV	27500
12.341 L RU-TV	27500
12.341 L Sci-Fi	27500
12.341 L Universal	27500
12.341 L Discovery	27500
12.341 L Кинорус 1	27500
12.341 L Кинорус 2	27500
12.341 L Комедия ТВ	27500
12.341 L Discovery Channel	27500
12.360 R Animal Planet	27500
12.360 R CNN	27500
12.360 R Detektyv Mir/Teletelub	27500
12.360 R Discovery Channel	27500
12.360 R EuroKino	27500
12.360 R Fox-Crime	27500
12.360 R HBO/Wild test	27500
12.360 R Planeta - SPORT	27500
12.360 R Sci-Fi	27500
12.360 R Sport 3	27500
12.360 R Sport 4	27500
12.360 R TEST10	27500
12.360 R TEST11	27500
12.360 R TEST	27500
12.360 R Universal	27500
12.360 R LIT	27500
12.360 R World Fashion Chanme	27500
12.360 R Che-Pe.INFO	27500

ARABSAT 2B 030.5° East

12.380 L 265 Live TV	27500
12.380 L Авто Плюс	27500
12.380 L Boaz TV	27500
12.380 L Zakon-TV	27500
12.380 L Ижара ТВ	27500
12.380 L Интернео ТВ	27500
12.380 L Комедия ТВ	27500
12.380 L Кухня ТВ	27500
12.380 L Легионер ТВ	27500
12.380 L МНОГООбзорное ТВ	27500
12.380 L Eurosport 2	27500
12.380 L TV Бульвар	27500
12.399 R 24/7OK	27500
12.399 R Fashion TV Network	27500
12.399 R MTV Russia	27500
12.399 R Vesti	27500
12.399 R Zvezda	27500
12.399 R Kinoskopa	27500
12.399 R Культура	27500
12.399 R HTB	27500
12.399 R Россия	27500
12.399 R CTC-Москва	27500
12.399 R Спас	27500
12.399 R Спорт on-line	27500
12.399 R TNT	27500
12.418 L NTV	27500
12.399 R Эхо Москвы	27500
12.418 L 3 канал	27500
12.418 L Russia Al-Yaum	27500
12.418 L TV SALT	27500
12.418 L VH1 Russia	27500
12.418 L Бибигон	27500
12.418 L Дом кино	27500
12.418 L Мир	27500
12.418 L Музыла Первого	27500
12.418 L Петербург - 5 канал	27500
12.418 L ТВЦ	27500
12.418 L ТВЦ	27500
12.418 L Теленяня	27500
12.418 L Радио Дети FM TEST	27500
12.437 R NBA-TV	27500
12.437 R MTV	27500
12.437 R HCT	27500
12.437	

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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	Freq Pol Channel Name	Symbol rate	GHz		
12.479 H GET	30000		THA05CR			11.044 H Telerade	44948		11.630 H HELPEDESK	28500		3.921 H TV 100	13000		C-Band: YAMAL 201			10.982 V VAAN	30000
12.479 H GWV	30000		THAICOM 5 078.5° East			11.044 H HONE TV	44948		11.630 H HONE TV	28500		3.921 H (Empty)	13000		ST 108.0° East			10.982 V VLT	30000
12.479 H HOTT	30000					11.044 H Music Love	44948		11.630 H Showcase	28500		3.923 V MMINIT	13000		YAMAL 201 090.0° East			10.982 V PPV PORTAL (home t	30000
12.479 H J100	30000					11.044 H Miltsejajka Volna	44948		11.630 H Showcase Promo Cha...	28500		3.934 V STAR JALSHA	13000					10.982 V AER	30000
12.479 H LKGT	30000					11.044 H Miltsejajka Volna	44948		11.630 H STAR Pravda	28500		3.934 V STAR JALSHA	13000					10.982 V CEC	30000
12.479 H MCTR	30000					11.044 H Miltsejajka Volna	44948		11.630 H Udaya 2	28500		3.934 V STAR VIJAY	13000					10.982 V VLINE	30000
12.479 H MJNG	30000					11.044 H Miltsejajka Volna	44948		11.630 H Active Cooking	28500		3.934 V MEGA TV	13000					10.982 V CNN	30000
12.479 H RIVR	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V DISC	30000
12.479 H SPT	30000					11.044 H Miltsejajka Volna	44948		11.630 H Active Cooking	28500		3.934 V SUBHARVATHA	13000					10.982 V PHNK	30000
12.479 H TMSC	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V GOLD	30000
12.521 H AMAX	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V SUN	30000
12.521 H AXN	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V TEST	30000
12.521 H BBCE	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V TVB8	30000
12.521 H CH4	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V VLINE	30000
12.521 H CHIC	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V XHE	30000
12.521 H EI	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V ERA	30000
12.521 H LTNG	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V GEGAR	30000
12.521 H M2	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V GOLD	30000
12.521 H MGM	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V HITZ	30000
12.521 H MTV	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V JAZZ	30000
12.521 H SWLD	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V LITE	30000
12.521 H TCM	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V MLD	30000
12.521 H TMUS	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V MSGO	30000
12.521 H TVB	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V OSI	30000
12.562 H ANPL	25776					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V PSLAY	30000
12.562 H CNN	25776					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V RAAGA	30000
12.562 H DSCV	25776					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V ROCK	30000
12.562 H EXP1	25776					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V SINAR	30000
12.562 H EXP2	25776					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					10.982 V XM FM	30000
12.562 H EXP3	25776					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V ANM	30000
12.562 H NGV	25776					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V GEL	30000
12.562 H NGC	25776					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V ESPN	30000
12.562 H SPRK	25776					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V KIRA	30000
12.562 H TBC	25776					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V RIA	30000
12.562 H TCN	25776					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V SHX	30000
12.562 H BBC	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V PRST	30000
12.604 H BMBG	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V @IS	30000
12.604 H CCTV	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V ASP	30000
12.604 H CNBC	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V BTV	30000
12.604 H ESPN	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V CTVA	30000
12.604 H NHK	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V DHdH	30000
12.604 H SPRT	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V HMK	30000
12.604 H TSP1	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V JTV	30000
12.604 H TSP2	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V KIN	30000
12.604 H TSP3	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V LSTV	30000
12.604 H TSP4	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V NTV	30000
12.604 H TSP5	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V RTR	30000
12.604 H TV5	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V TVR	30000
12.657 H D HH	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V TURBO	30000
12.657 H DTB	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000					11.020 V UAB	30000
12.657 H DTL	30000					11.044 H Miltsejajka Volna	44948		11.630 H HIVE TV	28500		3.934 V STAR VIJAY	13000						

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 Crystal 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.

APSTAR 6 134.0° East. Coverage map showing satellite footprint over Asia and Australia. Includes text: 'http://www.SatcoDX.com/1340 Coverage Code: AP5006CB'.

APSTAR 5 - TELSTAR 18 124.0° East. Coverage map showing satellite footprint over Asia and Australia. Includes text: 'http://www.SatcoDX.com/1390 Coverage Code: AP5005K2'.

EXPAM3K 140.0° East. Coverage map showing satellite footprint over the Pacific region. Includes text: 'http://www.SatcoDX.com/1400 Coverage Code: EXPAM3KJ'.

MEASAT 2 148.0° East. Coverage map showing satellite footprint over the Indian Ocean and Southeast Asia. Includes text: 'http://www.SatcoDX.com/1480 Coverage Code: MEA002BK'.

MEASAT 2 148.0° East. Coverage map showing satellite footprint over the Indian Ocean and Southeast Asia. Includes text: 'http://www.SatcoDX.com/1480 Coverage Code: MEA002BK'.

MEASAT 2 148.0° East. Coverage map showing satellite footprint over the Indian Ocean and Southeast Asia. Includes text: 'http://www.SatcoDX.com/1480 Coverage Code: MEA002BK'.

MEASAT 2 148.0° East. Coverage map showing satellite footprint over the Indian Ocean and Southeast Asia. Includes text: 'http://www.SatcoDX.com/1480 Coverage Code: MEA002BK'.

MEASAT 2 148.0° East. Coverage map showing satellite footprint over the Indian Ocean and Southeast Asia. Includes text: 'http://www.SatcoDX.com/1480 Coverage Code: MEA002BK'.

MEASAT 2 148.0° East. Coverage map showing satellite footprint over the Indian Ocean and Southeast Asia. Includes text: 'http://www.SatcoDX.com/1480 Coverage Code: MEA002BK'.

MEASAT 2 148.0° East. Coverage map showing satellite footprint over the Indian Ocean and Southeast Asia. Includes text: 'http://www.SatcoDX.com/1480 Coverage Code: MEA002BK'.

MEASAT 2 148.0° East. Coverage map showing satellite footprint over the Indian Ocean and Southeast Asia. Includes text: 'http://www.SatcoDX.com/1480 Coverage Code: MEA002BK'.

MEASAT 2 148.0° East. Coverage map showing satellite footprint over the Indian Ocean and Southeast Asia. Includes text: 'http://www.SatcoDX.com/1480 Coverage Code: MEA002BK'.

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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	12.598 H SKY News	27800	12.598 H SKY News	27800	12.598 H SKY News	27800	12.598 H SKY News	27800	12.598 H SKY News	27800	12.598 H SKY News	27800	12.598 H SKY News

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
3.880 U Urban Beat	29270	3.778 H ImaginAsian TV	1980	12.253 R KING-TV	20000	12.341 R KFVE-TV	20000	12.501 L 80's Hits	20000
3.920 OS Download	25470	3.782 H Hot Deal	25500	12.253 R KMEX-TV	20000	12.341 R KGNB-TV	20000	12.501 L 90's Top Jazz	20000
3.920 U Soap East	26470	3.800 H Hot Net Plus	19510	12.253 R KMEX-TV	20000	12.341 R KHEI-TV	20000	12.501 L Beach Party	20000
3.920 U Soap West	26470	3.800 H Playboy TV Classic	19510	12.253 R KNSD-TV	20000	12.341 R KHNL-TV	20000	12.501 L Classical Ambiance	20000
3.920 U Toot East	26470	3.800 H Playboy TV en Espanol	19510	12.253 R KOCE-TV	20000	12.341 R KHON-TV	20000	12.501 L Hit Line	20000
3.920 U Toot West	26470	3.800 H Playboy TV Espanol	19510	12.253 R KOCE-TV	20000	12.341 R KHON-TV	20000	12.501 L Live Music	20000
3.920 U ABC Fam Backhaul	26470	3.800 H Spice Live	19510	12.253 R KOED-TV	20000	12.341 R KJZZ-TV	20000	12.501 L Metro	20000
3.940 U Playboy TV	19510	3.800 H Spice Platinum	19510	12.253 R KOKH-TV	20000	12.341 R KJZZ-TV	20000	12.501 L Miami Hit	20000
3.940 U TVND Theatre 16	19510	3.815 U TBN Encore USA	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.501 L Moodscape	20000
3.940 U TVND Theatre 17	19510	3.815 U TBN Encore USA	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.501 L New Orleans	20000
3.940 U TVND Theatre 18	19510	3.832 U OlympusSat Package	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.501 L Night & Guitars	20000
3.940 U TVND Theatre 19	19510	3.900 U 24HTV	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.501 L R&B Revue	20000
3.940 U TVND Theatre 20	19510	3.900 U DOGTV	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.501 L Tejeño	20000
3.940 U TVND Theatre 21	19510	3.900 U IMB	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Unknown	20000
3.940 U TVND Theatre 22	19510	3.900 U TVEA2	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R DISH-on-Demand PPV	20000
3.940 U TVND Theatre 23	19510	3.900 U AJE	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports Arizona	20000
3.940 U TVND Theatre 24	19510	3.900 U EURONWS	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports Florida	20000
3.940 U 70's Super Hits	19510	3.900 U RCL	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports North	20000
3.940 U American Originals	19510	3.900 U EURLA	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports Ohio	20000
3.940 U Atmosphere	19510	3.900 U REE	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000
3.940 U Big Band	19510	3.900 U RNE1	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports Sun	20000
3.940 U Boleros	19510	3.900 U RNE2	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.940 U Brazilian Pop	19510	3.900 U RNE3	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.940 U Classic Country	19510	3.940 U APTN Test Card	29270	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.940 U Classic R&B	19510	3.940 U Video Logo	29270	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.940 U Contemporary Christi	19510	3.940 U Cine Latino	29270	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.940 U Dance	19510	3.940 U H TV	29270	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.940 U Folklorica	19510	3.940 U Infinito	29270	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.940 U International Love S	19510	3.940 U Telefe Internacional	29270	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.940 U Jazz	19510	3.940 U Ullima Satellite	29270	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.940 U Jazz Classical	19510	3.940 U ZEE TV	29270	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.940 U Metal	19510	3.970 U The Sportsmans Chann	14027	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.940 U Showcase 2	19510	3.980 U AC BigBoy MPEG	27680	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.940 U Soft Rock	19510	3.980 U CNBC3 MPEG Audio	27680	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.940 U Telemundo	19510	3.980 U CNBC3 MPEG Audio	27680	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.940 U Tropical	19510	3.980 U History Channel In	27680	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.940 U Wordbeat	19510	3.980 U IFC MPEG Audio	27680	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U TVN 33	19510	3.980 U Lifetime MPEG Audio	27680	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U TVN Action	19510	3.980 U Lifetime MPEG Audio	27680	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U TVN Events Electric	19510	3.980 U Much Music MPEG Au	27680	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U TVN HotBoy	19510	4.000 H Playboy Director's C	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U TVN Passion Soft	19510	4.000 H SIV TV	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U TVN TeleVestros	19510	4.000 H Spice Ultimate	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U GRTV 2	19510	4.000 H Spice 2	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U GRTV 3	19510	4.000 H The Hot Network	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U GRTV 4	19510	4.000 H The Hot Network	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U GRTV 5	19510	4.000 H The Hot Network	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U 70's Oldies	19510	4.000 H The Hot Network	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U 80's Hits	19510	4.000 H CRN 1	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U 90's Hits	19510	4.000 H CRN 2 - Sports Talk	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Acid Jazz	19510	4.000 H CRN 4 - Lifestyles	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Adult Alternative	19510	4.000 H CRN 5 - Law & Order	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Adult Contemporary	19510	4.000 H CRN 6 - News	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Album Rock	19510	4.000 H TRN - Talk Radio N	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Alternative Rock	19510	4.000 H AMERICA ONE	20000	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Beautiful Instrument	19510	4.000 H FIRESTONE COMMUN	20000	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Blues	19510	4.000 H REDRESSA	20000	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Cable Radio 1	19510	4.000 H STC	20000	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Cable Radio 2 Sport	19510	4.100 H Gospel Music	29270	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Cable Radio 3 Talk R	19510	4.100 H JCV TV	29270	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Cable Radio 4 Life&E	19510	4.100 H TBN US	29270	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Cable Radio 5 Law&O	19510	4.100 H The Church Channel	29270	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Cable Radio 6 Issues	19510	4.140 U Azteca America Este	25325	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Children's	19510	4.140 U Azteca America Oeste	25325	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Classic R&B	19510	4.140 U Azteca Siga Audio	25325	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Classic Rock	19510	4.140 U Azteca Tree	25325	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Contemporary Christi	19510	4.160 H A Taste of Spice	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Dance	19510	4.160 H Spice Live	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Flashback New Wave	19510	4.160 H Spice Ultimate	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Folk Rock	19510	4.172 U Plesure	14600	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Golden Oldies	19510	4.172 U TEN	14600	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Gospel	19510	4.172 U TENBox	14600	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Great Standards	19510	4.172 U TENBox	14600	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Hard Rock	19510	4.172 U TENClips	14600	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Holiday Happenings	19510	4.172 U TENXSY	14600	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Hot Country	19510	4.186 H HTN	5184	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Hitlist Hits	19510	4.190 U TBN US	5184	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Jazz	19510	4.190 U TBN US	5184	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Latin Contemporary	19510	4.190 U TBN US	5184	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Listening Room	19510	4.190 U TBN US	5184	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Live Classics	19510	4.190 U TBN US	5184	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Modern Country	19510	4.190 U TBN US	5184	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U New Age	19510	4.190 U TBN US	5184	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Rap	19510	4.190 U TBN US	5184	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Reggae	19510	4.190 U TBN US	5184	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Rock n' Roll	19510	4.190 U TBN US	5184	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Rock n' Roll Oldies	19510	4.190 U TBN US	5184	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Salsa	19510	4.190 U TBN US	5184	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Smooth Jazz	19510	4.190 U TBN US	5184	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Smooth Jazz	19510	4.190 U TBN US	5184	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Soft Hits	19510	4.190 U TBN US	5184	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Swing	19510	4.190 U TBN US	5184	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Symphonic	19510	4.190 U TBN US	5184	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports World	20000
3.960 U Traditional Country	19510	4.190 U TBN US	5184	12.253 R KOW					

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	Freq Pol Channel Name	Symbol rate	GHz								
11589 V Channel 3	7234	22.24	DIRECTV 4818			12120 V HRT 1	30000	30.000	GX404RV			11836 V Time TV	20765	20.765	12153 H Orbit-E	20000	20.000	GALAXY 3C							
11589 V Channel 4	7234	22.24	ATC 2			12120 V Planeta	30000	30.000	11836 V TV TENIS	20765	20.765	12153 H Orbit-E	20000	20.000	12177 H PTV OC 2	22000	22.000	GALAXY 3C							
12060 H WBNS	26000	26.000	AMC0404A			12120 V BVN	30000	30.000	11836 V TV Net20	20765	20.765	12153 H Russia Today	20000	20.000	12177 H SOAC	20000	20.000	GALAXY 3C							
12060 H WCHS	26000	26.000	AMC 4 259.0° East			12120 V CGN TV	30000	30.000	11836 V Inlay TV	20765	20.765	12153 H Tapesh TV	20000	20.000	12177 H TBN	20000	20.000	GALAXY 3C							
12060 H WCHM	26000	26.000				12120 V HRT TV	30000	30.000	11836 V TV Net1	20765	20.765	12153 H Tasvir Iran	20000	20.000	12177 H TBN ENLACE	20000	20.000	GALAXY 3C							
12060 H WOSU	26000	26.000				12120 V TRM	30000	30.000	11836 V TV Net2	20765	20.765	12153 H The Learning Channel	20000	20.000	12177 H TBN Russia	20000	20.000	GALAXY 3C							
12060 H WQWK	26000	26.000				12120 V CMC Radio	30000	30.000	11836 V TV Net4	20765	20.765	12153 H The Weather Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12060 H WPBO	26000	26.000				12120 V HRT Radio	30000	30.000	11836 V TV Net5	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12060 H WPBY	26000	26.000				12120 V BVN RN1 Radio	30000	30.000	11836 V TV Net6	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12060 H WPCW	26000	26.000				12120 V BVN RN2 Radio	30000	30.000	11836 V TV Net7	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12060 H WSAZ	26000	26.000				12120 V BVN RN3 Radio	30000	30.000	11836 V TV Net8	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12060 H WSFJ	26000	26.000				12120 V BVN RN5 Radio	30000	30.000	11836 V TV Net9	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12060 H WSYX	26000	26.000				12120 V BVN RN6 Radio	30000	30.000	11836 V TV Net10	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12060 H WTTX	26000	26.000				12120 V BVN RN7 Radio	30000	30.000	11836 V TV Net11	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12060 H WVAH	26000	26.000				12120 V Radio Marja	30000	30.000	11836 V TV Net12	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12060 H WHHO	26000	26.000				12169 H RTP Internacional	3003	30.003	11836 V TV Net13	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12160 V KCAU	26000	26.000				GALAXY 46			11836 V TV Net14	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12160 V KMGF	26000	26.000				263.0 East (93.0 West)			11836 V TV Net15	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12160 V KPTH	26000	26.000				GX304RV			11836 V TV Net16	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12160 V KSN	26000	26.000				GALAXY IV R 261.0° East			11836 V TV Net17	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12160 V KTVI	26000	26.000							11836 V TV Net18	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12160 V KXNE	26000	26.000							11836 V TV Net19	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12160 V WDOY	26000	26.000							11836 V TV Net20	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12160 V WDTV	26000	26.000							11836 V TV Net21	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12160 V WNPB	26000	26.000							11836 V TV Net22	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
12160 V WVEF	26000	26.000							11836 V TV Net23	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
257.0 East (103.0 West)									11836 V TV Net24	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
AMC0161C									11836 V TV Net25	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
AMC 1 257.0° East									11836 V TV Net26	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net27	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net28	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net29	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net30	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net31	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net32	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net33	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net34	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net35	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net36	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net37	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net38	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net39	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net40	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net41	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net42	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net43	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net44	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net45	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net46	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net47	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net48	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net49	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net50	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net51	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net52	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net53	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net54	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net55	20765	20.765	12153 H The History Channel	20000	20.000	12177 H TBN USA	20000	20.000	GALAXY 3C							
									11836 V TV Net56	20765	20.765	12153 H The History Channel	20000	20.000											

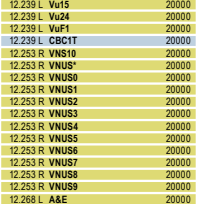
Main table containing satellite data with columns for Freq Pol Channel Name, Symbol rate, and GHz. Includes various satellite names like JRYM MUSIC, FOX Sports Feeds, and AMC 3 273.0° East.



C-Band 30 36 40

http://www.SatcoDX7.com/2730 Coverage Code GXY101CB

Vertical list of satellite data on the left side of the chart, including channels like JRYM MUSIC, FOX Sports Feeds, and GALAXY 11.



C-Band 30 36 40

http://www.SatcoDX7.com/2730 Coverage Code GXY101CB

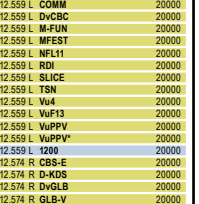
Vertical list of satellite data in the second column, including channels like FOX Sports Feeds, GALAXY 11, and various regional feeds.



C-Band 30 36 40

http://www.SatcoDX7.com/2730 Coverage Code GXY101CB

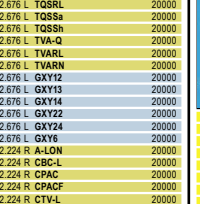
Vertical list of satellite data in the third column, including channels like FOX Sports Feeds, GALAXY 11, and various regional feeds.



C-Band 30 36 40

http://www.SatcoDX7.com/2730 Coverage Code GXY101CB

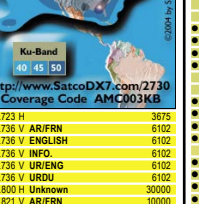
Vertical list of satellite data in the fourth column, including channels like FOX Sports Feeds, GALAXY 11, and various regional feeds.



C-Band 30 36 40

http://www.SatcoDX7.com/2730 Coverage Code GXY101CB

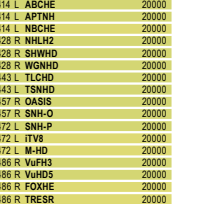
Vertical list of satellite data in the fifth column, including channels like FOX Sports Feeds, GALAXY 11, and various regional feeds.



C-Band 30 36 40

http://www.SatcoDX7.com/2730 Coverage Code GXY101CB

Vertical list of satellite data in the sixth column, including channels like FOX Sports Feeds, GALAXY 11, and various regional feeds.



C-Band 30 36 40

http://www.SatcoDX7.com/2730 Coverage Code GXY101CB

Vertical list of satellite data in the seventh column, including channels like FOX Sports Feeds, GALAXY 11, and various regional feeds.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including TCM Latin America, TNT Brazil, TNT Chile, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including NT PORT, RNT ESP, RNT POR, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including ContactVAPURE, ContactVCRISTIAN, 4300 R default program, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including HISPASAT 1C 330.0° East, HISPASAT 1C 330.0° East, HISPASAT 1C 330.0° East, etc.

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

Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including Futelco MC 3, Futelco MC 4, A3 AVERIA CANARIA, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including TVCms 4 HD, TVCms Cinemagic HD, Eurosport HD, etc.

Complex block containing a map of the Americas and text: NSS 806 319.5° East, Coverage Code NSS806CH, 319.5° East (40.5 West), NSS806CH.

Complex block containing a map of Europe and text: INTELSAT 801 328.5° East, Coverage Code INT801EH, 328.5° East (31.5 West), INT801EH.

Complex block containing a map of Europe and text: INTELSAT 801 328.5° East, Coverage Code INT801EU, 328.5° East (31.5 West), INT801EU.

Complex block containing a map of Europe and text: HISPASAT 1D 330.0° East, Coverage Code HIS10DCK, 330.0° East (0° West), HIS10DCK.

Complex block containing a map of Europe and text: HISPASAT 1D 330.0° East, Coverage Code HIS10DKA, 330.0° East (0° West), HIS10DKA.

Complex block containing a map of Europe and text: HISPASAT 1D 330.0° East, Coverage Code HIS10DCK, 330.0° East (0° West), HIS10DCK.

Complex block containing a map of Europe and text: HISPASAT 1D 330.0° East, Coverage Code HIS10DKA, 330.0° East (0° West), HIS10DKA.

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

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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
12.169 H McBox	28000	11.785 H Nat Geo Wild RO	28000	4.025 R BBC English (W Af)	7324	TH0002KU	
12.169 H Planet TV	28000	11.785 H BBC English Mid-Ea	7324	4.025 R BBC English West	7324	THOR 2 359.2° East	
12.169 H SKAT	28000	11.785 H TV 6	28000	4.025 R BBC English News	7324		
12.169 H Telesat TV	28000	11.785 H Music Channel	28000	4.025 R BBC French	7324		
12.169 H TV LUX	28000	11.785 H Radio Gaga	28000	4.025 R BBC Pashto	7324		
12.169 H Alpha 3	28000	11.785 H Radio Gaga HD	28000	4.025 R BBC Portuguese	7324		
12.169 H Alpha Radio	28000	● 11.538 H CANAL+ SPORT HD	25000	4.025 R BBC Somali	7324		
12.169 H BG Radio	28000	● 11.538 R SVT HD	25000	4.025 R BBC Swahili	7324		
12.169 H ENERGY	28000	● 12.015 H Eurosport HD	30000	INTELSAT 10-02			
12.169 H Focus Prima	28000	● 12.015 R BBC HD	25000	359.0 East (1.0 West)			
12.169 H Focus Sofia	28000	12.128 H History Chnl HD	30000	INS10023			
12.169 H Focus Varnovo	28000	12.128 H TV Norge HD	30000	INS10023			
12.169 H Focus Varna	28000	12.188 H Nat Geo HD	25000	INS10023			
12.169 H HTI FM	28000	● 12.188 R Silver HD	25000	INS10023			
12.169 H HORNET Radio	28000	12.188 H Voom HD	25000	INS10023			
12.169 H Njoy	28000	● 12.418 H DR1 Syd	28000	INS10023			
12.169 H OMV ROMANIA	28000	● 12.418 H DR2 Syd	28000	INS10023			
12.169 H Radio 1	28000	● 12.418 H DTV2 (Cable)	28000	INS10023			
12.169 H Radio City 2	28000	● 12.418 H NRK1 Reserve	28000	INS10023			
12.169 H Radio FM+	28000	12.418 H TV Finland	28000	INS10023			
12.169 H Radio Fresh	28000	● 12.418 H Nautil	28000	INS10023			
12.169 H Radio Mig	28000	● 12.418 H The Poker Channel	28000	INS10023			
12.169 H Radio1 Rock	28000	12.418 H TV Patriot	28000	INS10023			
12.169 H STAR FM	28000	12.418 H DR Klassisk Syd	28000	INS10023			
12.169 H Test Radio	28000	12.418 H DR P1 Syd	28000	INS10023			
12.169 H Veronica	28000	● 12.418 H DR P2 Syd	28000	INS10023			
12.169 H Z-ROCK	28000	12.418 H DR P3 Syd	28000	INS10023			
● 12.226 V ESPN America	28000	12.418 H DR P4 K&H Syd	28000	INS10023			
● 12.226 V ESPN Classic	28000	12.418 H EKPRFS mp2	28000	INS10023			
● 12.226 V ESPN Sport 2	28000	12.418 H KISS	28000	INS10023			
● 12.226 V TV (N)	28000	12.418 H NRK AN Reserve	28000	INS10023			
● 12.226 V TV8	28000	12.418 H NRK P1 Reserve	28000	INS10023			
● 12.226 V Scandinavian Satelli	28000	● 12.418 H Radio One	28000	INS10023			
12.245 H Antena 1	28000	● 12.418 H Scandinavian Satelli	28000	INS10023			
12.245 H Favorit TV	28000	12.418 H Ylesat 1	28000	INS10023			
12.245 H Hallmark	28000	12.428 H DR1 Syd	28000	INS10023			
12.245 H Hustler TV	28000	12.428 H DR2 Syd	28000	INS10023			
12.245 H Minimax	28000	● 12.428 H DTV2 (Cable)	28000	INS10023			
12.245 H MTV Romania	28000	12.428 H NRK1 Reserve	28000	INS10023			
12.245 H National TV	28000	12.428 H TV Finland	28000	INS10023			
12.245 H Prima TV	28000	12.428 H Nautil	28000	INS10023			
12.245 H Realitatea TV	28000	12.428 H The Poker Channel	28000	INS10023			
12.245 H Romantica	28000	12.428 H TV Patriot	28000	INS10023			
12.245 H Telesport	28000	12.428 H DR Klassisk Syd	28000	INS10023			
12.245 H TVR 1	28000	12.428 H DR P1 Syd	28000	INS10023			
12.245 H TVR 2	28000	12.428 H DR P2 Syd	28000	INS10023			
12.245 H TVR Cultural	28000	12.428 H DR P3 Syd	28000	INS10023			
● 12.245 H FocusSat	28000	12.428 H DR P4 K&H Syd	28000	INS10023			
12.303 V SVT1	27800	12.527 H Hallmark CE	27500	INS10023			
12.303 V SVT1 Gävle	27800	12.527 H Romantica RO	27500	INS10023			
12.303 V SVT1 Gävlelida	27800	12.527 H EKPRFS mp2	28000	INS10023			
12.303 V SVT1 Jämtland	27800	12.527 H KISS	28000	INS10023			
12.303 V SVT1 Jönköping	27800	12.527 H NRK AN Reserve	28000	INS10023			
12.303 V SVT1 Mithytt	27800	12.527 H NRK P1 Reserve	28000	INS10023			
12.303 V SVT1 Nordlytt	27800	● 12.428 H Radio One	28000	INS10023			
12.303 V SVT1 SmålandsNytt	27800	● 12.428 H Scandinavian Satelli	28000	INS10023			
12.303 V SVT1 Sydlytt	27800	12.428 H Ylesat 1	28000	INS10023			
12.303 V SVT1 Talande Textrem	27800	12.428 H Ylesat 2	28000	INS10023			
12.303 V SVT1 Träsnytt	27800	● 4.025 R BBC Afr Feed 1	7323	INS10023			
12.303 V SVT1 Västernytt	27800	● 4.025 R BBC Afr Feed 2	7323	INS10023			
12.303 V SVT1 Västnytt	27800	● 4.025 R BBC Afr Feed 3	7323	INS10023			
12.303 V SVT1 Östlytt	27800	● 4.025 R BBC Afr Feed 4	7323	INS10023			
12.303 V SVT2	27800	● 4.025 R BBC Afr Feed 5	7323	INS10023			
12.303 V SVT2 Gävle	27800	● 4.025 R BBC Afr Feed 6	7323	INS10023			
12.303 V SVT2 Gävlelida	27800	● 4.025 R BBC Afr Feed 7	7323	INS10023			
12.303 V SVT2 Jämtland	27800	● 4.025 R BBC Afr Feed 8	7323	INS10023			
12.303 V SVT2 Jönköping	27800	● 4.025 R BBC Arabic	7323	INS10023			
12.303 V SVT2 Mithytt	27800	● 4.025 R BBC Dari	7323	INS10023			
12.303 V SVT2 Nordlytt	27800	● 4.025 R BBC English (E Af)	7323	INS10023			
12.303 V SVT2 SmålandsNytt	27800	● 4.025 R BBC English (Europe)	7323	INS10023			
12.303 V SVT2 Sydlytt	27800	● 4.025 R BBC English (W Af)	7323	INS10023			
12.303 V SVT2 Talande Textrem	27800	● 4.025 R BBC English Mid-Ea	7323	INS10023			
12.303 V SVT2 Träsnytt	27800	● 4.025 R BBC English News	7323	INS10023			
12.303 V SVT2 Västernytt	27800	● 4.025 R BBC Farsi	7323	INS10023			
12.303 V SVT2 Västnytt	27800	● 4.025 R BBC French	7323	INS10023			
12.303 V SVT2 Östlytt	27800	● 4.025 R BBC Hassia	7323	INS10023			
12.303 V SVT2 Östnytt	27800	● 4.025 R BBC Pashtu	7323	INS10023			
12.322 H TV 2 Norge	27800	● 4.025 R BBC Portuguese	7323	INS10023			
12.322 H Al Jazeera English	27800	● 4.025 R BBC Spanish	7323	INS10023			
12.322 H JIM	27800	● 4.025 R BBC Swahili	7323	INS10023			
12.322 H Playhouse Disney	27800	4.175 R AFN Family	28000	INS10023			
12.322 H Rikstoto Direkte	27800	4.175 R AFN Freedom	28000	INS10023			
12.322 H Subtv	27800	4.175 R AFN News	28000	INS10023			
12.322 H TV Norge	27800	4.175 R AFN News	28000	INS10023			
12.322 H P4	27800	4.175 R AFN Prime Atlantic	28000	INS10023			
12.322 H Radio Oslo	27800	4.175 R AFN Prime Pacific	28000	INS10023			
12.399 H Radio Paris Ode	28000	4.175 R AFN Prime Europe	28000	INS10023			
● 12.399 H Nelonen HD	28000	4.175 R AFN Sports	28000	INS10023			
● 12.399 H Nautil	28000	4.175 R AFN Xtra	28000	INS10023			
12.456 H Discov World	28000	4.175 R Atlantic 2	28000	INS10023			
12.456 H Discov TralLiv	28000	4.175 R Atlantic 3	28000	INS10023			
12.456 H Discov World	28000	4.175 R Atlantic 4	28000	INS10023			
12.456 H Motors TV	28000	4.175 R Atlantic 5	28000	INS10023			
12.456 H Nick-(S)-ICK-CTS	28000	4.175 R Atlantic 6	28000	INS10023			
12.456 H Nick-(S)-VHC TS	28000	4.175 R Atlantic 7	28000	INS10023			
12.456 H Nick-VHC TS	28000	4.175 R Engineering Channel	28000	INS10023			
12.456 H Nickelodeon	28000	4.175 R FOX 28000	28000	INS10023			
12.456 H Nickelodeon (S)	28000	4.175 R AFN Back-up to A	28000	INS10023			
12.476 H Eurosport	27800	4.175 R AFN Back-up to AFN	28000	INS10023			
12.476 H Eurosport 2	27800	4.175 R AFN Back-up to AF	28000	INS10023			
12.476 H TV-biljet 1	27800	4.175 R AFN Program Guide	28000	INS10023			
12.476 H TV-biljet 2	27800	4.175 R AFN Radio Variable	28000	INS10023			
12.476 H TV-biljet 3	27800	4.175 R Backhaul from Baghda	28000	INS10023			
12.476 H TV4 Guid	27800	4.175 R Bright AC	28000	INS10023			
12.476 H TV4 Komedi	27800	4.175 R Contingency (Closed)	28000	INS10023			
12.476 H TV4 Science Fiction	27800	4.175 R ESPN Plus	28000	INS10023			
12.476 H SVT1	24500	4.175 R Fox Sports Talk	28000	INS10023			
12.476 H SVT1 Gävle	24500	4.175 R H&A AC	28000	INS10023			
12.476 H SVT1 Gävlelida	24500	4.175 R Interruptible Voice	28000	INS10023			
12.476 H SVT1 Jämtland	24500	4.175 R Mainstream Country	28000	INS10023			
12.476 H SVT1 Jönköping	24500	4.175 R NPR International	28000	INS10023			
12.476 H SVT1 Mithytt	24500	4.175 R Oldies	28000	INS10023			
12.476 H SVT1 Nordlytt	24500	4.175 R SMPLE Time Code	28000	INS10023			
12.476 H SVT1 SmålandsNytt	24500	4.175 R The Pentagon Channel	28000	INS10023			
12.476 H SVT1 Sydlytt	24500	4.175 R The Touch	28000	INS10023			
12.476 H SVT1 Träsnytt	24500	4.175 R UPI Sports (U)Voice	28000	INS10023			
12.476 H SVT1 Västernytt	24500	4.175 R Interruptible Voice	28000	INS10023			
12.476 H SVT1 Västnytt	24500	4.175 R Z-Rock (ABC Altern)	28000	INS10023			
12.476 H SVT1 Östlytt	24500	4.180 L egv tv net feed-1	21050	INS10023			
12.476 H SVT2	24500	● 4.180 L egv tv net feed-2	21050	INS10023			
12.476 H SVT2 Gävle	24500	4.180 L El-Masry	21050	INS10023			
12.476 H SVT2 Gävlelida	24500	4.180 L El-Masry-USA	21050	INS10023			
12.476 H SVT2 Jämtland	24500	4.180 L Monwa't	21050	INS10023			
12.476 H SVT2 Jönköping	24500	4.180 L Nle Drama	21050	INS10023			
12.476 H SVT2 Mithytt	24500	4.180 L Nle News	21050	INS10023			
12.476 H SVT2 Nordlytt	24500	4.180 L Nle TV Int	21050	INS10023			
12.476 H SVT2 SmålandsNytt	24500	3.855 R RTG 1	10000	INS10023			
12.476 H SVT2 Sydlytt	24500	3.855 R RTG 2	10000	INS10023			
12.476 H SVT2 Träsnytt	24500	3.855 R TV+	10000	INS10023			
12.476 H SVT2 Västernytt	24500	3.917 R RTV	17777	INS10023			
12.476 H SVT2 Västnytt	24500	3.917 R NBCTV	17777	INS10023			
12.476 H SVT2 Östlytt	24500	3.917 R 1khZTV	17777	INS10023			
12.476 H SVT2 Östnytt	24500	3.917 R CH7/OMULUNGA	17777	INS10023			
12.476 H SVT1 Talande Textrem	24500	3.917 R CH7/DWA	17777	INS10023			
● 11.434 V KinoTV	24500	3.917 R ENERGY/WAVE	17777	INS10023			
● 11.434 V MTV	24500	3.917 R FREE 10	17777	INS10023			
11.434 V Nelonen	24500	3.917 R FREE 8	17777	INS10023			
11.434 V YLEFST	24500	3.917 R GER/DOVA	17777	INS10023			
11.434 V YLE Teema	24500	3.917 R HERIDIN	17777	INS10023			
11.434 V YLE TV1	24500	3.917 R KOSMOS/L	17777	INS10023			
11.434 V YLE TV2	24500	3.917 R OKUSTI/WANA	17777	INS10023			
11.434 V YLE MONDO	24500	3.917 R RAD99/KUDD	17777	INS10023			
11.434 V YLE PHU	24500	3.917 R REMW	17777	INS10023			
11.434 V YLEN KLASSISSEN	24500	3.917 R RUKLOZ	17777	INS10023			
11.747 H TVPaprika	28000	3.917 R SABA	17777	INS10023			
● 11.747 H Brava TV	28000	3.985 R Reuters WNS	4000	INS10023			
11.747 H Cosmos TV	28000	4.025 R BBC Afr Feed 1	7324	INS10023			
11.747 H Kanal D	28000	● 4.025 R BBC Afr Feed 2	7324	INS10023			
11.785 H Axn Sci-Fi	28000	● 4.025 R BBC Afr Feed 3	7324	INS10023			
11.785 H Crede	28000	● 4.025 R BBC Afr Feed 4	7324	INS10023			
11.785 H Fishing & Hunting	28000	● 4.025 R BBC Afr Feed 5	7324	INS10023			
11.785 H GSP 1	28000	● 4.025 R BBC Afr Feed 6	7324	INS10023			
11.785 H GSP 2	28000	● 4.025 R BBC Afr Feed 7	7324	INS10023			
11.785 H HBO Comedy	28000	4.025 R					



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SatcoDX World Statistics

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	2.82%
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			



Edited by
Alexander Wiese

20 Years Ago

Travel into the Past
TELE-satellite Magazine
Issue 02/1988



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Europas Satelliten

Programme Verteilsatelliten für Europa im Sendebereich 10.95 bis 11,70 GHz

Stand: April 1988

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Stand: April 1988

WEST: 45, 27.5, 24.5, 21.5, 14
EUT I-V-F11, EUT I-V-F6, EUT I-V-F2, EUT I-F4, EUT I-F5, EUT I-V-F12, EUT I-V-F7

PAS 1, INT VA-F10, GOR 12, EUT I-F2, EUT I-F1, ASTRA, INT V-F5

Fernsehen über Satellit

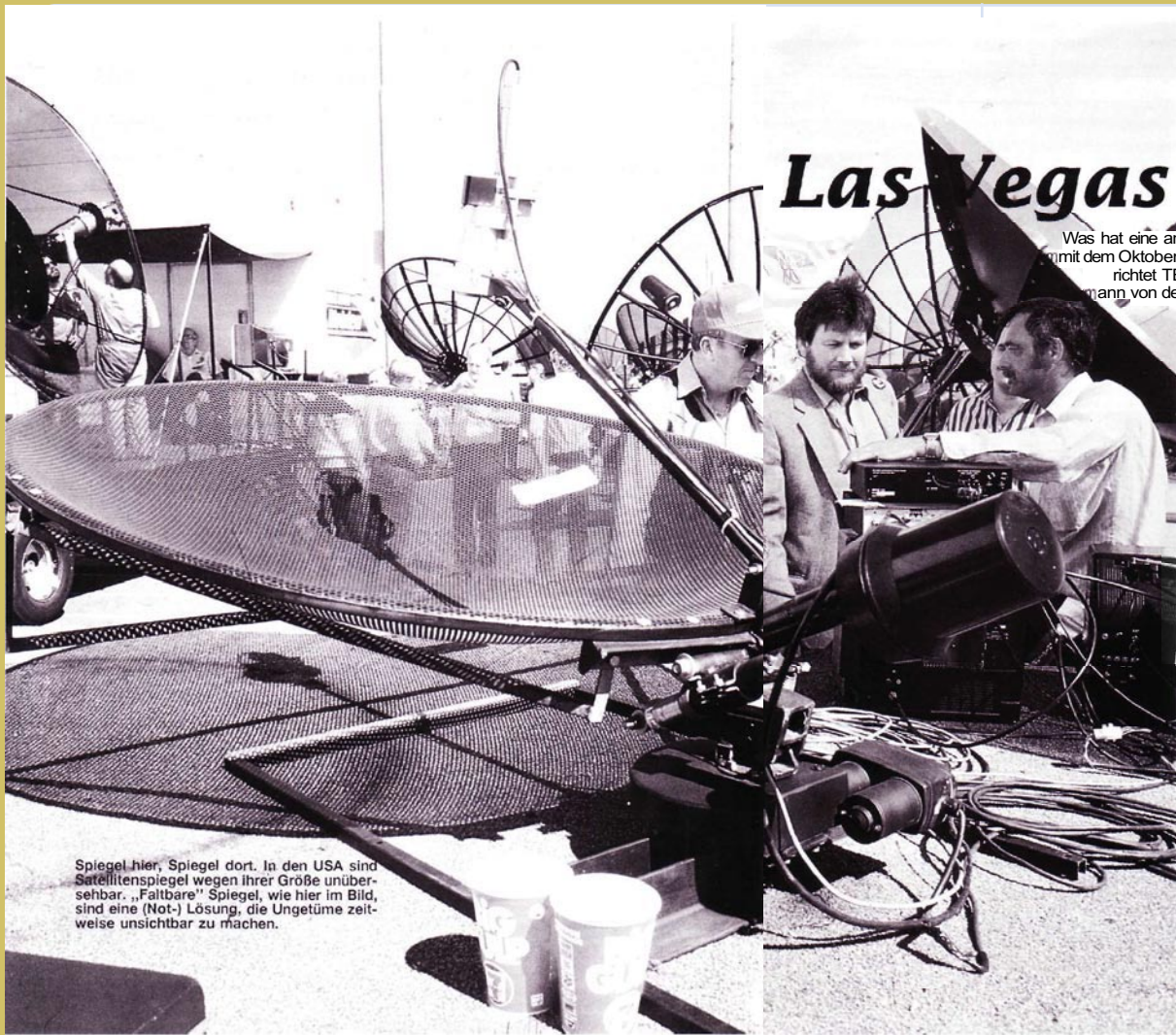
11 GHz (Ku-Band)

Satellit	Position	Programme	Sendeland	Sprache	Frequenz	Polarisation	Beim	Bildformat	Videofest	Tarif	System	Empfang	Leistungs	Zeiten	Bemerkungen
INTELSAT VA-F11	27.5 W	MTV Europe	USA	englisch	10.98	Horz	West	PAL-NEG	-	-	-	46	-	24	Videofest
		Canal 10	Spanien	spanisch	10.98	Horz	West	SAT-TEL	-	-	7.02 & 7.20 WEGENER-System	Pay-TV	46	24	Beigefilter
		Children's Channel	Spanien	englisch	11.02	Horz	West	PAL-NEG	ja	6.60	7.02 & 7.20 WEGENER-System	Pay-TV	46	24	Kinder / Seefilme
		Go! Sport	Spanien	spanisch	11.02	Horz	West	PAL-NEG	-	6.60	7.02 & 7.20 WEGENER-System	Pay-TV	46	24	Beigefilter
		Lifestyle / Sonnentanz	Spanien	englisch	11.14	Horz	West	PAL-NEG	-	6.60	7.02 & 7.20 WEGENER-System	Pay-TV	46	24	Kultur / Hausfrauen / Sport
INTELSAT VA-F10	24.5 W	Torresano	Italien	italien	10.98	Vertikal	West	PAL-NEG	-	6.65	-	46	-	24	nur Testsendungen
		Torresano	Italien	italien	11.13	Vertikal	West	PAL-NEG	-	6.65	-	46	-	24	nur Testsendungen
		Torresano	Italien	italien	11.17	Vertikal	West	PAL-NEG	-	6.65	-	46	-	24	nur Testsendungen
		SECCAM	Italien	italien	11.51	Horz	West	SECAM	-	6.65	-	46	-	24	nur Testsendungen
		SECCAM	Italien	italien	11.51	Horz	West	SECAM	-	6.65	-	46	-	24	nur Testsendungen
INTELSAT VA-F12	80 Ost	Star	BRD	deutsch	10.97	Horz	West	PAL-NEG	-	6.65	7.02 & 7.20 & 7.42 WEGENER-System	Pay-TV	46	24	Beigefilter
		Wiel 3	BRD	deutsch	11.01	Horz	West	PAL-NEG	ja	6.65	-	46	24	Unterhaltung	
		Televisao	BRD	deutsch	11.13	Horz	West	PAL-NEG	ja	6.65	-	46	24	Videofest	
		Bundespost	BRD	deutsch	11.17	Horz	West	PAL-NEG	ja	6.65	-	46	24	Unterhaltung	
		APN-TV	BRD	deutsch	11.51	Vertikal	West	B-MAC	-	6.65	7.02 & 7.20 & 7.42 WEGENER-System	Pay-TV	46	24	Unterhaltung

Radio über Satellit

11 GHz (Ku-Band)

Satellit	Position	Programme	Sendeland	Sprache	Frequenz	Polarisation	Beim	Tarif	System	Empfang	Leistungs	Zeiten	Bemerkungen		
INTELSAT VA-F11	27.5 W	BBC Worldserv	Griffith	englisch	11.18	Horz	West	WEGENER	7.20	-	46	24	Mono / Kurzwelle		
		BBC Worldserv	Griffith	spanisch	11.18	Horz	West	WEGENER	7.20	-	46	24	Mono / Auslandsprogramme		
INTELSAT V-F2	1 West	SBP 1	Spanien	spanisch	11.13	Horz	West	Digital MAC	-	6.65	-	44	24	1. Inlandsprogramm Stereo	
		SBP 2	Spanien	spanisch	11.17	Horz	West	Digital MAC	-	6.65	-	44	24	2. Inlandsprogramm Stereo	
		SBP 3	Spanien	spanisch	11.13	Horz	West	Digital MAC	-	6.65	-	44	24	3. Inlandsprogramm Stereo	
		NRK P1	Norwegen	norwegisch	11.16	Vertikal	West	Digital MAC	7.02 & 7.20	-	46	24	1. Inlandsprogramm Stereo		
		NRK P2	Norwegen	norwegisch	11.18	Vertikal	West	Digital MAC	7.02 & 7.20	-	46	24	2. Inlandsprogramm Stereo		
EUTELSAT I-F4	10 Ost	NRK P1	Norwegen	norwegisch	11.16	Vertikal	West	Digital MAC	7.02 & 7.20	-	46	24	1. Inlandsprogramm Stereo		
		NRK P2	Norwegen	norwegisch	11.18	Vertikal	West	Digital MAC	7.02 & 7.20	-	46	24	2. Inlandsprogramm Stereo		
		Radio 10	Norwegen	norwegisch	11.14	Vertikal	West	WEGENER	7.02 & 7.20	-	46	24	3. Inlandsprogramm Stereo		
		Radio 10	Norwegen	norwegisch	11.17	Vertikal	West	WEGENER	7.02 & 7.20	-	46	24	4. Inlandsprogramm Stereo		
		Radio 10	Norwegen	norwegisch	11.17	Vertikal	West	WEGENER	7.02 & 7.20	-	46	24	5. Inlandsprogramm Stereo		
EUTELSAT I-F1	13 Ost	Star	BRD	deutsch	10.97	Horz	West	PAL-NEG	-	6.65	7.02 & 7.20 & 7.42 WEGENER-System	Pay-TV	46	24	Beigefilter
		Wiel 3	BRD	deutsch	11.01	Horz	West	PAL-NEG	ja	6.65	-	46	24	Unterhaltung	
		Televisao	BRD	deutsch	11.13	Horz	West	PAL-NEG	ja	6.65	-	46	24	Videofest	
		Bundespost	BRD	deutsch	11.17	Horz	West	PAL-NEG	ja	6.65	-	46	24	Unterhaltung	
		APN-TV	BRD	deutsch	11.51	Vertikal	West	B-MAC	-	6.65	7.02 & 7.20 & 7.42 WEGENER-System	Pay-TV	46	24	Unterhaltung
INTELSAT V-F5	83 Ost	Star	BRD	deutsch	10.97	Horz	West	PAL-NEG	-	6.65	7.02 & 7.20 & 7.42 WEGENER-System	Pay-TV	46	24	Beigefilter
		Wiel 3	BRD	deutsch	11.01	Horz	West	PAL-NEG	ja	6.65	-	46	24	Unterhaltung	
		Televisao	BRD	deutsch	11.13	Horz	West	PAL-NEG	ja	6.65	-	46	24	Videofest	
		Bundespost	BRD	deutsch	11.17	Horz	West	PAL-NEG	ja	6.65	-	46	24	Unterhaltung	
		APN-TV	BRD	deutsch	11.51	Vertikal	West	B-MAC	-	6.65	7.02 & 7.20 & 7.42 WEGENER-System	Pay-TV	46	24	Unterhaltung
INTELSAT V-F7	86 Ost	IRB Radio 1	Iran	farsi	10.99	Vertikal	West	PAL-NEG	-	6.60	-	46	24	Kultur - DX	
		IRB Radio 2	Iran	farsi	11.15	Vertikal	West	PAL-NEG	-	6.60	-	46	24	Kultur - DX	
		ARTE 12	USA	englisch	11.67	Horz	West	NTSC	ja	6.60	-	46	24	Kultur - DX	
		TFT 1	Türkei	türkisch	11.65	Horz	West	PAL-NEG	-	6.60	-	46	24	Unterhaltung - DX	
		TFT 2	Türkei	türkisch	11.66	Horz	West	PAL-NEG	-	6.60	-	46	24	Unterhaltung - Testsendung - DX	



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 Satellitenshow

Im Anflug auf Las Vegas vermag sich der europäische Besucher nicht darüber klar werden, warum die Satellitenshow 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 Ungetümme zeitweise unsichtbar zu machen.

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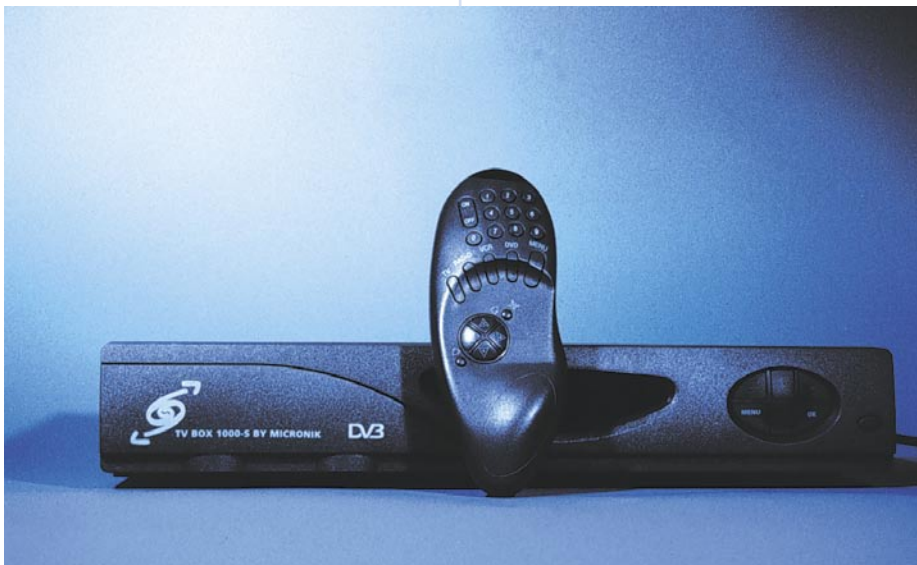
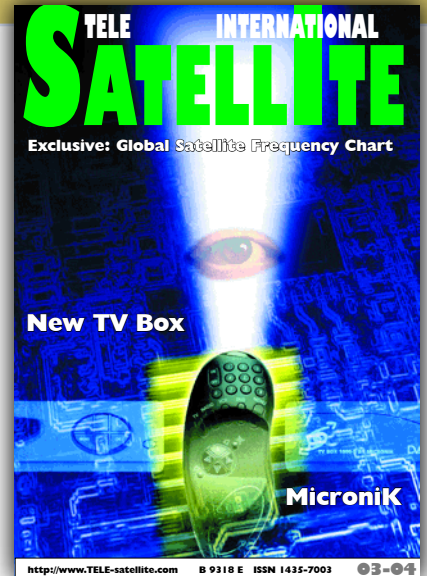
Edited by
Alexander Wiese

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.

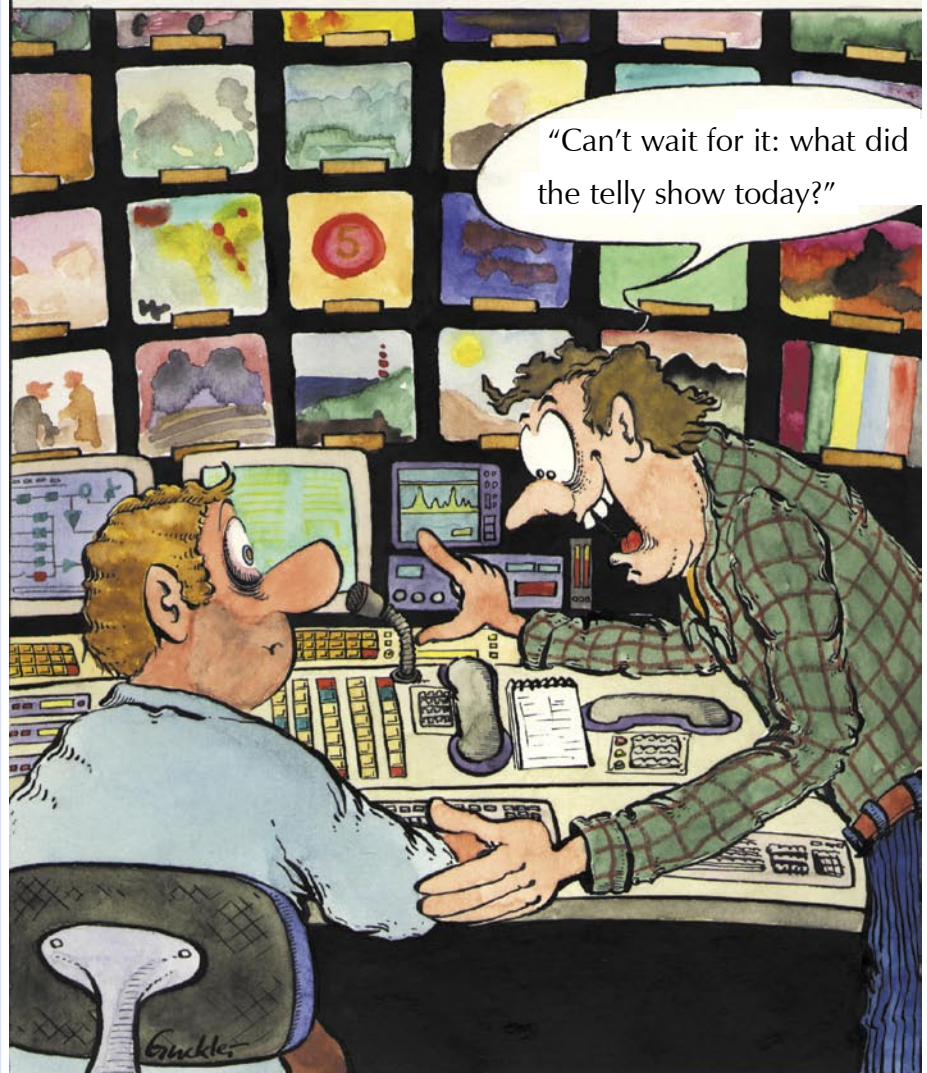
Measuring analog and digital, now and in the future

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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