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SatcoDX 06/2009

Мир Спутников

Всемирная База данных спутникового телевидения - Информационная Программа

Software V3.12 rus sdx Creator

Всемирная спутниковая база данных все каналы со всех спутников

Спутниковый Волшебник: Какие каналы можно принимать в том месте, где Вы находитесь?

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Channel Locator: Найдите канал, который Вы хотите

Обновление Online: Корректировка таблиц через Internet в любое время по вашему желанию

Программирование приёмника: Сортировка и отбор, с последующей загрузкой в приёмник совместимый со стандартом SatcoDX

Зоны покрытия: проконтролируйте где на самом деле доступны спутниковые сигналы

Экспорт и Печать таблиц: Сохранение откорректированных Вами списков

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

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Полная информация о каналах, вещаемых спутниками, со всеми необходимыми техническими параметрами

Автоматический поиск всех доступных к приему спутниковых каналов

Автоматическое программирование SatcoDX-совместимых ресиверов

Обновление базы данных через Интернет в любое время дня и ночи с основного или запасного серверов

Распечатывайте таблицы каналов с картами покрытия, в формате HTML

The screenshots show the SatcoDX software interface. The top part displays a list of channels with columns for Position Code and Satellite, Type, Ch, Freq, Pol, Channel Name, Coverage, and a checkbox. Below this is a map showing satellite coverage areas. On the right, there are controls for 'Your coordinates' and 'Display Satellites'. The bottom part shows a 'Program Receiver' dialog box with fields for 'SatcoDX Industry Standard Protocol', 'Serial Port', 'BaudRate', and 'Flow Control'. There are also buttons for 'About Programming' and 'Cancel'.



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& الإنترنت فائق السرعة

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مفرد عن شركة
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تصنيع فلتر C-Band لتعطي صورة نقية

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

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

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super

with Common Interface

High-Definition

Satellite & Terrestrial Receiver

TM-6900 HD COMBO Super



- ✓ Based on the Award Winning TM-6900 HD COMBO
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- ✓ RF Modulator
- ✓ eSATA
- ✓ Ethernet Communication Port

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- Timeshift
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- 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

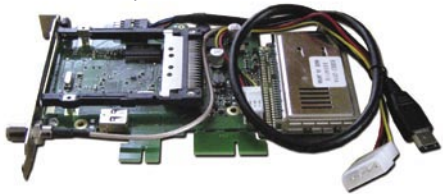


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Уважаемые читатели!



Выбор превосходных HDTV приемников все время становится лучше и лучше. В этом выпуске мы еще раз представляем два потрясающих новых устройства: PVR приемник и карту для ПК. К сожалению, число каналов HDTV не увеличивается по той же причине. Напротив текущий экономический кризис вынудил некоторых поставщиков отказываться от скорости передачи данных в битах; это экономит деньги спутниковым поставщикам. В результате - качество изображения телевизионной картинки больше не приносит удовлетворения при просмотре. Это можно назвать "размытием пикселя" (pixel sludge), когда качество изображения достигает самого низкого уровня.

По моему мнению, всё должно происходить совершенно наоборот. Вместо того чтобы передавать так много каналов насколько это возможно с низким качеством изображения, поставщики должны сузить число их каналов таким образом, чтобы было передано как можно больше каналов с наилучшим качеством изображения! Это невероятно: статистика SatcoDX показывает, что в настоящее время во всем мире существуют больше чем 18 000 телевизионных каналов. Но на самом деле, обычно при просмотре абонент не проглядывает даже и 100 каналов - это факт, это количество - вероятно более близко к 50-ти и даже возможно меньше. Теперь встает вопрос, какие

критерии абонент использует, для выбора пультом дистанционного управления его любимых каналов и программ? Сомнительно, что кто-либо когда-либо изучал, по каким критериям абоненты при просмотре располагают просматриваемые каналы, основываясь на содержании. Я подозреваю, что каналы с максимально возможным качеством изображения автоматически приобретут предпочтение у зрителей - невзирая на содержание программ, не играющем особой роли в этом случае. Я полагаю, что, если поставщики программ сократили бы число каналов и вкладывали бы деньги в улучшение качества изображения, то в результате количество абонентов было бы больше. Это даст приятный побочный эффект: производители приемников и изготовители мониторов были бы также счастливы, так как наилучшее качество изображения сделает абонентов, удовлетворенными их оборудованием приема.

Иногда меньше - иногда больше!

**Искренне Ваш,
Александр Виес
(Alexander Wiese)**

P.S.: Моя любимая радиостанция месяца: «Радио Фреш» ("Radio Fresh") на THOR 359° В.Д. (1° З.Д.) 12.169 GHz, H, 28000: станция популярной музыки из Болгарии с минимумом разговоров и большим количеством музыки.

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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

YPbPr, CVBS, HDMI, SCART Video Output Support

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

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

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

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



PVR
Playing recorded programmes up to 64 times speed at maximum



GAME
Featuring a double-player game „Battle Tank“



UCC
Playing media contents of YouTube



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

Experience the future of digital receiver

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

Features will be available by firmware updates

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



TOPFIELD TF 5050CI HDMI



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



Measuring Instruments

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



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

ALSO AVAILABLE:

- Combolook
- Digital Satlook NIT
- Satlook Micro +
- Satlook Mark IV

DIGISAT PRO ACCU

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



ALSO AVAILABLE:

- Digisat
- Digisat+
- Digisat Pro
- Digisat Multi

DIGIAIR dB

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

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



Satlook Micro G2



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

ALSO AVAILABLE:
Upgrade-KIT for Satlook Micro
You need a PC with internet-access in order to be able to upgrade Your old Micro with the new G2 version.

Satlook Micro G2 upgrade contains:

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

Satlook NIT Color



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

TOPFIELD TF 6500T HDMI



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

TF 6000 FE Digital satellite Receiver

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

PCMCIA-Modules

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



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

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



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

DSL 350 1CI



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

DSL 500 PVRready



- Digital satellite Receiver PVR-ready**
- 1 x common interface
 - USB 2.0
 - S/PDIF, HDMI connection
 - Multi-picture function

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Fachmesse für Kabel, Breitband und Satellit

from 26. until 28.05.2009
in hall 10.2 / booth A 29



HDTV Receiver Selection

TOPFIELD

TF-7700 HD PVR



HDTV digital satellite Receiver with personal video recorder

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

TOPFIELD

TF-7700 HSCI / TF-7700 HCCI



HDTV for satellite and cable reception

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

Boca

NEW

HD 200 CI PVR



HDTV digital satellite Receiver PVR-ready

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

Motors

Aktuatoren/ Actuators

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



H-H Mounts

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

LNBS

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



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

Inverto

NEW



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

All available as:

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



Full LNB range INVERTO available from stock

Multiswitches / DiSEqC - Switches

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



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

sa SPAUN Full Range

Parts

Multifeederholder for 2, 3, or 4 LNB



Wallmounts

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



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

Remotesystems

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



Koaxialcable

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



invacom QDH 031

AVAILABLE AS:

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



Full LNB range INVACOM available from stock

MICROELECTRONICS TECHNOLOGY INC.

High-Line-Series



AVAILABLE AS:

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

Full LNB range MTI available from stock

Inverto

digital-labs

IDLP UST110-CUO10-8PP

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



Multifocus Dish

MAXIMUM

E-85 Multifocus 48° Dish



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

Dishes

CIBERTINI TRIAX emme esse

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

Big Dishes directly from our warehouse!

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



Flat-Dishes

NEW

SELF SAT H10D / H10D2

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

MAXIMUM Flat-1

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



Balcony mounting parts

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



120 cm length – Ø 6 cm

ALSO AVAILABLE:

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

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

by Thomas Haring

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

Creating a DVD

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

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

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

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

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

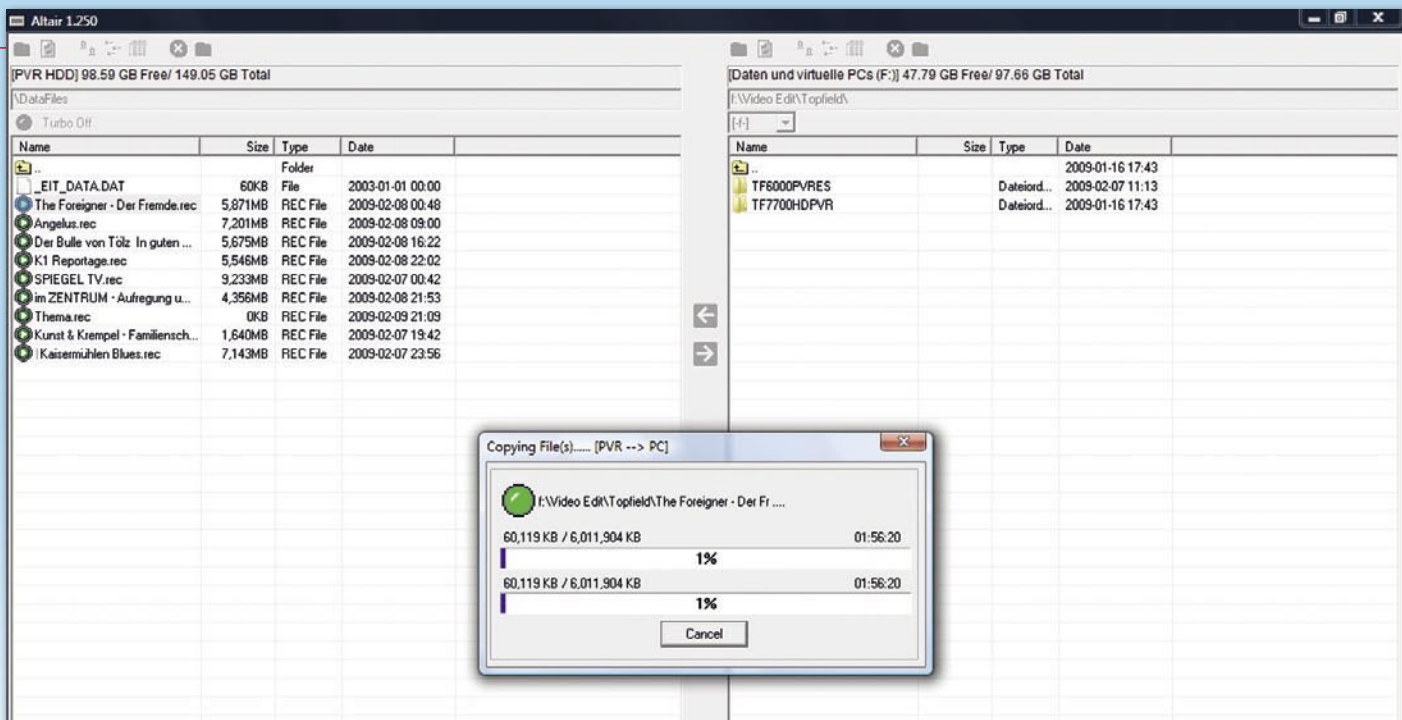
it as a removable disk drive after a few moments and then you're all set for copying files to the local disk.

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

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

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





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

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

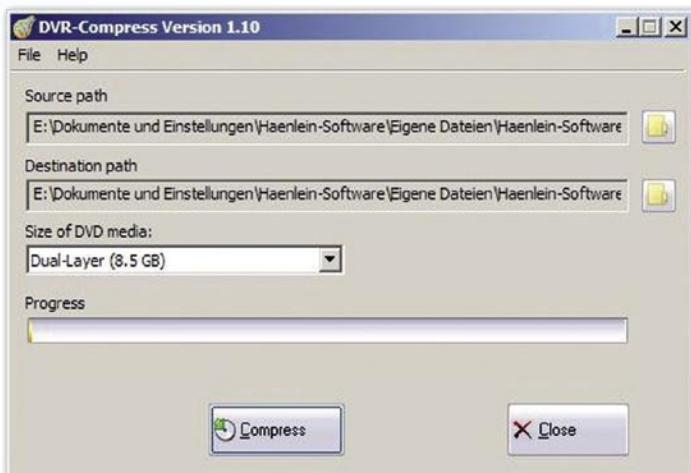
All this is not only available in the local network, but also via the Internet, if required. This means you are able to check right from your hotel room whether your Topfield receiver at home has recorded all events you had set in the timer. Or if you find out a blockbuster movie is on TV that night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

Transferring a recording from the receiver to the PC

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

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

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



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



TOPFIELD®



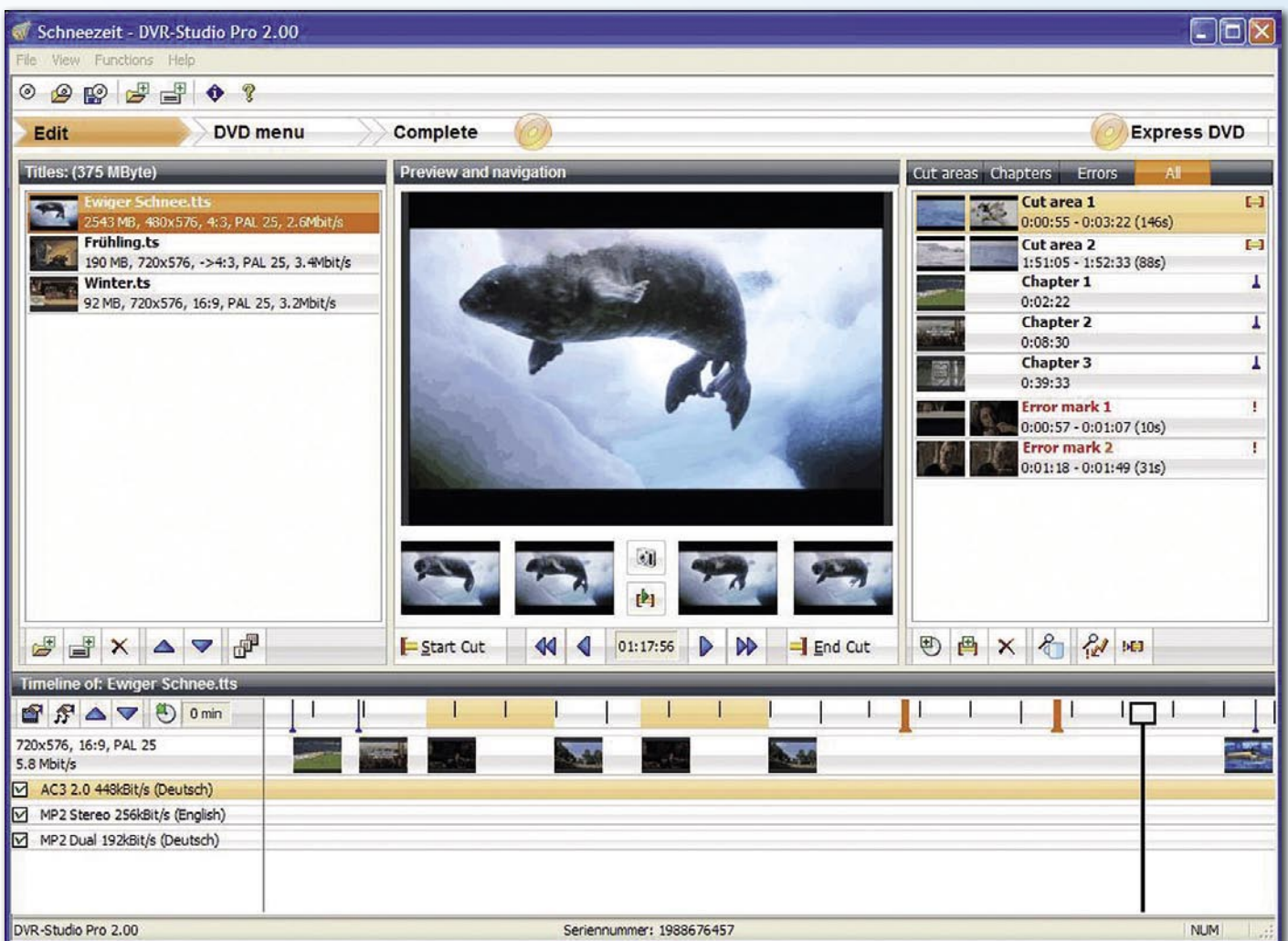
DVR Studio HD creates DVDs or Blu-ray discs from HD material

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

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

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

Once all required drivers are installed



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

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What we make, It's standard!

FORTIS ► *the new HD era.*

FORTIS will make its utmost efforts to bring easy-to-use and specialized products to the customers as a **Digital Creator** with our technological expertise.



FS-9000HD

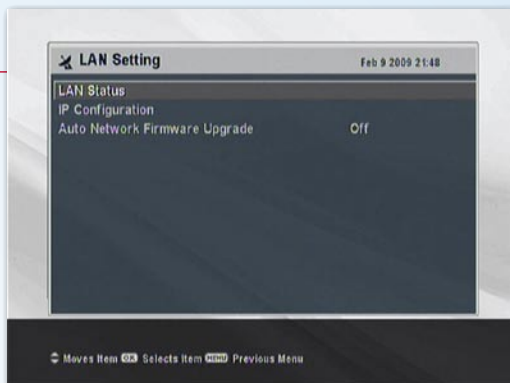
MPEG4 - HD,SD / H.264 / DVB-S2 Twin Tuner
Micro SD slot for external memory
Supporting DivX file play back



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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

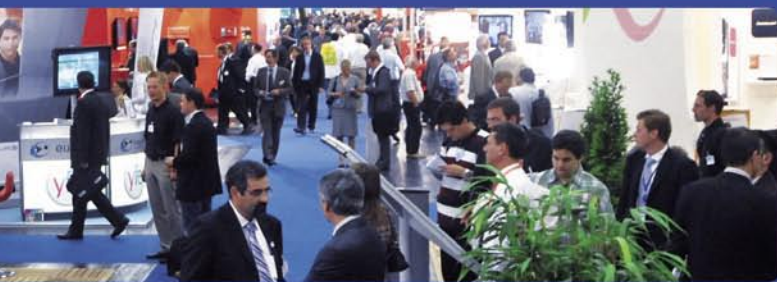
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Software update via PC using a USB or serial connection

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.

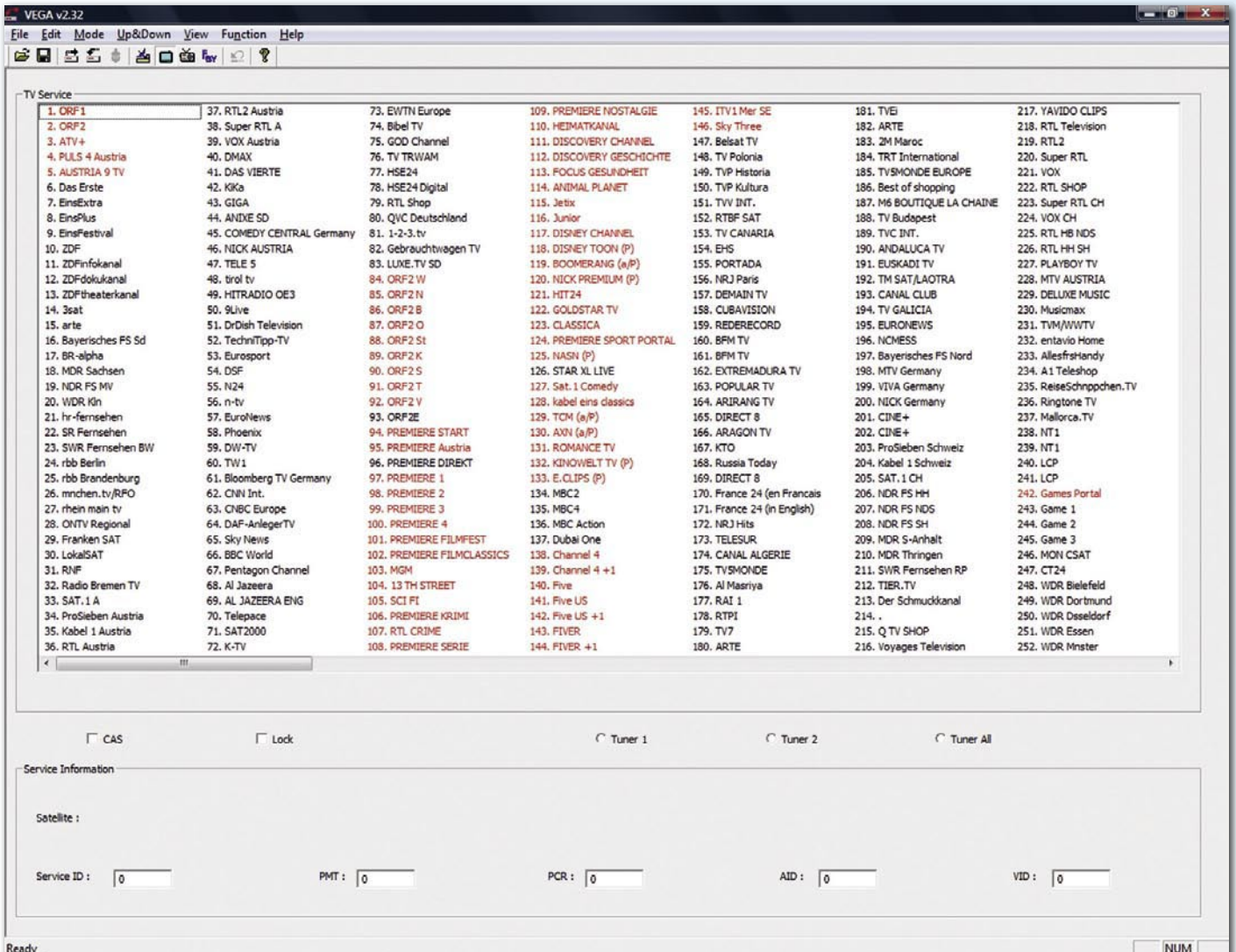
In a first step you need to make sure

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.

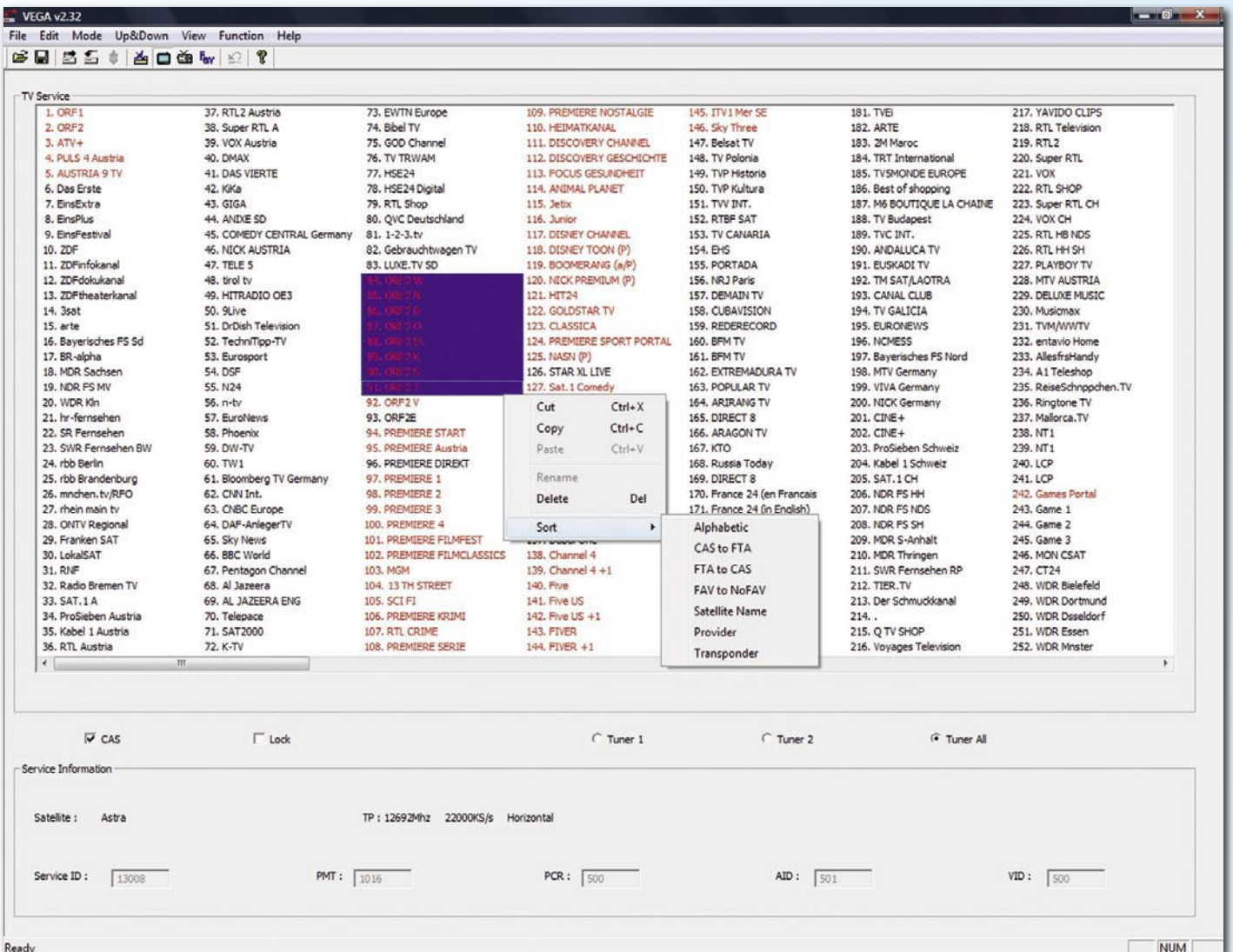
In such a configuration the Topfield TF7700HDPVT, for example, can automatically obtain all information (like standard gateway or DNS server) thanks to DHCP. Alternatively, all settings can also be entered manually. As soon as a connection to the Internet can be established the receiver connects to the 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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(HD) с функцией персонального видео рекордера (PVR) на ОС Linux™?



Прогресс в производстве приёмников, просто поражает! Могли ли мы несколько лет тому назад предполагать, бесконечно борясь с аналоговыми приёмниками, что приёмник при просмотре, должен сам подавать нам не только фантастическое цветное и невероятно чёткое изображение, но

и обеспечивал бы воспроизведение музыки и видео файлов, отправку электронной почты, игру в игры? Граница между компьютерами и ресиверами исчезает, рождая дружественные для семьи устройства с огромным потенциалом для более подготовленных пользователей.

ABCom, знамениты, это - мощные приемники, созданные на ОС Linux™, что, несомненно, помогает этому воплотиться в жизнь. Они добротны делают свою работу, постоянно обновляя технические средства и программное обеспечение. Особенно приятно видеть, что несколько недостатков

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их предыдущей модели уже исправлены. Сегодня мы имеем возможность, испытать AV IPBox 910HD, почти близнец AV IPBox 900HD, который мы исследовали пару выпусков назад (Tele-satellite 08-09/2008). Более новая модель сберегла все преимущества предыдущей.

Одновременный приём каналов стандартной и высокой чёткости, одновременный приём в DVB-S и в DVB-S2, также как и одновременный приём в MPEG-2 и MPEG-4. Вы предпочли бы помочь Вашей бабушке продолжить просмотр мыльных опер посредством наземного телевидения, когда аналоговые передачи будут отключены? 910HD также поможет Вам в этом. Замена настроечного устройства DVB-S на DVB-T – дело нескольких минут. Это тоже справедливо и для кабельного настроечного устройства DVB-C. Со стороны Вы едва заметили бы любое видимое отличие между 900HD и 910HD. Кое, какие незначительные изменения, вот на что вы можете рассчитывать. Передняя панель сохранила элегантность 900HD, и будет соответствовать даже исключительным интерьерам. Кроме того, 2 шахты для модулей условного доступа (CI), которые расположены позади удерживаемой магнитом откидной створки, яркий и легко читаемый значок – синтезирующий дисплей (VFX), будет обнаружен тут, вместе с 8-ю кнопками, которые позволяют

Вам, оперировать почти всеми основными функциями приемника. Задняя панель также же хороша как прежде, но кое, какие изменения добрались и сюда. Если установлено, настроечное устройство DVB-S, как в нашей экспериментальной модели, то в левом углу Вы найдете разъём малошумящего настроечного блока (LNB) с соответствующим ему выходом “через петлю”. Все компьютеры и периферийные сетевые устройства коммутируются через USB-порт, RS-232 и разъём Локальной сети (Ethernet). Выходы HDMI, S/PDIF и Y/Pb/Pr отвечают за кристально-чёткое изображение и звук. Один Scart и три RCA соединителя имеются для действенной совместимости в обратном направлении, так как они едва позволили бы Вам, оценить все преимущества HDTV. Порт E-SATA и выход питания для жесткого внешнего диска – тоже там, хотя 910HD также позволяет Вам, установку жесткого диска SATA внутри корпуса! Это будет сразу работоспособно, как только приемник будет включён, совсем не будет

препятствия с бесконечными кабелями и соединителями. Но теперь Вы имеете выбор, если Вам необходимо производить запись, жесткий внешний диск все еще может использоваться. За сетевым выключателем питания имеется вентилятор, который защищает силовые электронные компоненты приемника

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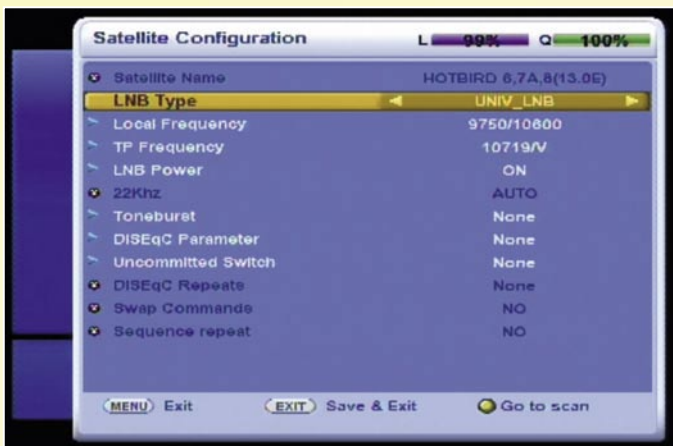
от перегрева. Действительно разумное добавление! Тем не менее наиболее изощренные пользователи могли бы расценить его немного шумным. Однако, это совсем не проблема, в любом компьютерном магазине можно подобрать более бесшумный. Дистанционное управление – точная копия того, что поставлялось с предыдущей моделью. Фактически, эта схожесть вызвала некоторое замешательство в трёх соснах в нашей испытательной лаборатории, так как мы все еще продолжали использовать пульт от 900HD. Набор команд, тот же, однако, пульт от 900HD/910HD может также программироваться для управления предыдущим ресиверами от IPBOX, что имеются у вас. Он также прост для программирования, чтобы также управлять вашим ТВ, имеются сотни моделей, на выбор на последних страницах руководства пользователя. Что касается его – конструкции, мы не сожалеем о словах,

высказанных в прошлом акте заводского испытания 900HD, пульт перегружен кнопками, но они так логично организованы, что Вы привыкнете к этому очень быстро. Благодаря специальной кнопке для многих функций приемника, ничего не будет упущено.

Начальная установка

Могло бы казаться, что официальное программное обеспечение от ABCOM не претерпело много изменений, по крайней мере, на первых порах. Тот же самый мастер сначала проведёт вас через экран выбора языка (Экранная графика (OSD) может быть отображена на Английском, Русском, Французском, Итальянском, Голландском, Немецком, Датском, Чешском, Словацком, Венгерском, Норвежском, Польском, Португальском, Испанском, Шведском, Греческом, Турецком, Корейском, Хорватском, Боснийском, Сербском,





Настройка спутников



Настройка позиционера USALS

Болгарском, Румынском и Финском языке, привилегированные языки могут быть также выбраны для звукового сопровождения, подзаголовков и телетекста), затем к экрану настройки местного времени. Опять-таки, пределы предпочтений широки - или отрегулировать время вручную или позволить приемнику получать настройки автоматически из потока; способ отображения времени и выбор летнего времени - также там. На следующей вкладке Вам необходима ваша присоединенная антенна. В случае настроенного устройства для приема со спутника, сначала нажмите красную кнопку, чтобы шаг за шагом прибавить все спутники, планируемые для просмотра. Каждый спутник может быть запрограммирован собственным произвольно выбираемым локальным осциллятором (LOFS) на этом же экране. Все версии DiSEqC поддержаны (1.0, 1.1, 1.2 и 1.3), что может сделать AV IPBOX 910HD сердцем вашей много - спутниковой системы. Как только все необходимые спутники найдены, нажимают "Выход", чтобы возвратиться к экрану мастера настройки. Нажмите желтую кнопку для следующей вкладки, которая приведёт

Вас к поиску каналов. Экран, который появляется, имеет две таблицы, Автоматическая и Ручная. Названия практически объясняют их функцию. Первым просто идет поиск для предварительно запрограммированных или найденных в сетевых информационных таблицах (NIT) частот каналов, последний позволяет вам вводить все параметры вручную. Конечно, не забыты модуляция и специальная коррекция ошибок (FEC) для DVB-S2. Обычный автоматический или ручной поиск каналов - это не то чем насладился бы Шумахер (Schumacher), но все же достаточно проворен для нашего обычного зрителя. Нам потребовалось 9 минут, чтобы просмотреть спутниковое положение с 105 приёмопередатчиками. Для нетерпеливых, тех, кто просто не может ждать, чтобы иметь первую картинку на экране есть - функция "Быстрой загрузки", которая просто загружает предварительно сохраненный список каналов. Так, если Вы предпочли бы получать наиболее достоверный список каналов, то это плата, за то чтобы быть терпеливым. Все дальнейшие предпочтения могут быть интуитивно найдены в основном меню, которое сна-

чала также оставляет чувство уже виденного ранее, но мы знаем, что программисты трудились, по этому должно быть что-нибудь новое! Ну ладно, здесь мы можем выбирать все параметры экрана, формат изображения, ТВ систему, Dolby, Scart, HDMI и S/PDIF выходные форматы. Имеется подменю, где мы можем соединить наш приёмник 910HD с местной сетью и/или Интернетом, проверить параметры жестких дисков, или сделать повторную фабричную установку. Ага! Теперь также имеется видеопроигрыватель DivX, но вся мультимедийная часть заслуживает нескольких особых слов, так как она заранее настроена! Так на чём же мы остановились? Ах да, это же - спутниковый приемник, в конце концов, прежде чем мы начнём безрассудное экспериментирование с ОС Linux™, Telnet и протоколом передачи данных (FTP), давайте возьмем пульт дистанционного управления и взглянем на его основные функции, то есть на приём цифровых каналов.

Ежедневное использование

Список каналов выглядит также как в 900HD, там присутствуют все полезные дополнительные выгоды. Различные способы сортировки, Вы можете иметь каналы, организованные в алфавитном порядке, незашифрованные/зашифрованные, по спутникам или по поставщикам. Нажатие желтой кнопки включает функцию "прокрутки", которая является полезной в случае, если Вы имеете тысячи каналов для сортировки в вашей много спутниковой системе, например, переходя к следующему списку, если вы выбрали сортировку по алфавиту. Однако чтобы организовать это ещё лучше, не забудьте о кнопке «FAV», которая обеспечивает Вам мгновенный доступ к любимым каналам. Имеется 5 предварительно запрограммированных фаворитных групп - Спортивные состязания, Драма, Новости, Кино и Музыка. Нажатие кнопки "i" разрешает создание многих новых групп по Вашему желанию, удаление, переименование, перемещение, редактирование или блокирование, уже существующих. Нажатие кнопки "i" в основном Списке каналов предоставляет доступ к подробному выбору редактирования, в том числе, включая наш любимый выбор

в 900HD - редактирование громкости звука для каждого канала. Изящное решение старой проблемы - сколько раз, во время сознательного беспорядочного переключения каналов во время рекламных пауз (zapping) неожиданно громкий звук сотрясал вашу комнату? Теперь достаточно просто отрегулировать громкость в списке каналов и всё! Больше никто не будет жаловаться, что ваш набор ТВ каналов - слишком громкий! Говоря о сознательном переключении вверх и вниз по списку или на другой канал во время рекламной паузы в просматриваемой телепрограмме (zapping), 910HD не делает маньяков беспорядочного переключения каналов, счастливыми, но 1 секунда между каналами - совершенно неплохо для обычного телевизора. Это может быть быстрее внутри того же самого приёмопередатчика, или немного больше между DVB-S и DVB-S2, между SDTV и HDTV. Но, по крайней мере, Вы можете убедиться, что, ни один канал практически не выйдет из вашего поля зрения! Даже такой твёрдый орешек как трансляция одиночных каналов (SCPC), таких как Канал «Calabria» на HELLAS SAT 2, со скоростью потока только 1425! Специальное дополнительное встраиваемое приложение контроля скорости передачи битов помогает Вам проверить, является ли изображение и звук канала действительно столь же хорошим, как обещал вещатель. Программа работы с файлами также столь же хороша, как это должно быть при использовании. Два канала с одного и того же приёмопередатчика могут быть отображены в окнах одинакового размера (PIP), второй можно показывать в меньшем окне позади первого, затем можно переключаться между каналами. Так как дистанционное управление идентично 900HD, имеется тот же самый второй верхний ряд кнопок. Хороший и удобный для пользователя электронный программный гид с двумя режимами - здесь также во всей красе. Одно нажатие кнопки электронного программного гида заносит в список наступающие события для избранного канала, повторное нажатие, и Вы имеете подлинный гид программы, со смежным показом информации всех каналов их электронных программных гидов, пока это доступно от вещателя. Только единственное нажатие кнопки



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Тут, проявляется удивительный персональный видеорекордер (PVR). 910HD не только разрешает Вам, присоединить жесткий внешний диск с USB или E-SATA портом, но и уже имеет один внутри. Наша экспериментальная модель была направлена нам с 500 Гб жестким диском, который является совершенно большим, не только для записи посредством PVR, но также и для хранения DivX фильмов и музыки MP3. Но в, то время как мы сосредотачиваемся на PVR, стоит отметить кнопку "Конверт", которая парой щелчков разрешает Вам доступ ко всем записям, и замечательную функцию «сдвиг во времени». Включите это в "Расширенной Установке" - меню "Установка жесткого диска", и Вы сможете почувствовать, что энергия волшебства - приостанавливает действующую передачу в любой момент, проявляя заботу о любых срочных проблемах, которые внезапно отвлекают Вас от вашего любимого кинофильма, и затем возобновляет точно из того же самого места, где Вы оставили это! Также просто "перемотать" передачу к особому моменту, который Вы хотите увидеть снова. Вы не должны быть конструктором космических ракет, чтобы

привыкнуть ко всему этому, всего - 1-2 щелчка!

Настройки мультимедиа

Так как, программное обеспечение 900HD/910HD постоянно разрабатывается, теперь оба приёмника предлагают возможность воспроизведения звуковых и видео файлов, также как отображение фотографий, запись или на жесткий внешний диск или на USB брелок памяти или на жесткий внутренний диск в ресивере 910HD, при этом подобные файлы могут быть загружены программой передачи файлов (FTP) в «мультимедийный» каталог. (Назначив адрес Интернет протокола (IP) приемника из вкладки "Продвинутая Установка" - меню "Установка IP", используя "root" как идентификатор пользователя (UserID), и "ipbox" как пароль). "Мультимедийное" подменю также содержит некоторые добавленные функции PVR, это - "Записанные файлы" для сохраненных записей PVR, и "Расписание записей" для устаревших событий программирования таймера. Далее на выбор имеется три предпочтения - исключительно для вышеупомянутых "внешних" файлов. Любые фотографии могут рассматриваться по одной, двойным нажатием

на их имена кнопкой "OK", или как воспроизведением слайдов, которое может быть запрограммировано, нажатием желтой кнопки. MP3 - плеер приветствует пользователя немного измененным экраном приветствия, показывая операционные кнопки обычного аудио проигрывателя, так же как время воспроизводимого в настоящий момент трека и скорость передачи битов. В то время как никаких плохих

слов не должно быть сказано о нём, проигрывателю Video/DivX все еще нужна некоторая доработка, которую необходимо претворить в жизнь. В испытательном фрагменте кинофильма, который воспроизводился на нашем ПК безукоризненно, 910HD имел видеосигнал, не синхронизированный со звуком. Видеосигнал запаздывал на 1-2 секунды. Однако это работает, и синхронизация будет реко-



мендована для исправления в последующих обновлениях.

Обновление программного обеспечения

Для такого мощного и вероятно универсального приемника важно поддерживать внутреннее программное обеспечение современным, потому

что, его огромный потенциал полностью все еще не раскрыт. ABCOM попытался упростить это, предоставляя возможность загрузить и установить микропрограммную версию прямо из ресивера, без любых необходимых внешних устройств. Но, к сожалению, что-то пошло совершенно неправильно. Мы обнаружили, что 910HD имел микропрограммную версию 8340, в то время как, согласно

вебсайту производителя, наиболее злободневная версия - 8360. Наиболее очевидный способ состоял в том, чтобы перейти к пункту "Расширенная Установка" - меню "Обновление по сети". Что же мы здесь имеем? Две версии полностью устарелых микропрограмм! Изготовителю определенно нужно позаботиться об этом. Мы должны были, выбрать иной способ модерни-

зации программного обеспечения приемника, используя USB брелок памяти. С точки зрения оснастки, АВ IPBOX 910HD едва оставляет желать чего-либо лучшего. Все необходимые разъемы для соединения, возможность замены настроечных устройств по стандарту «подключил и работай», способность принимать DVB-S и DVB-S2, MPEG-2 и MPEG-4, HDTV и SDTV. Вы можете даже копировать все ваши любимые фильмы, музыкальные файлы и фотографии на жесткий диск. Играть в игры или проверять прогноз погоды. Легко устанавливать сотни доступных расширений программного обеспечения. Или превращать приемник во что - то совершенно новое, устанавливая одну из альтернативных микропрограмм. ABCOM продолжает свое дело, в то время как большинство основных функций совершенно характеризуют 910HD, как хороший выбор на будущее!



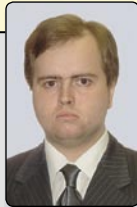
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Мнение эксперта

+

Приемник, который удовлетворил бы почти каждого, так как он может полностью изменяться под различные типы программного обеспечения. В случае если программное обеспечение установлено официально, действительно просто, управлять им, даже дети не имели бы проблем с обнаружением любимого мультипликационного канала. Альтернативное программное обеспечение может сделать заядлых любителей дальнего приёма (DXER) счастливыми. Общая гибкость и универсальность - DVB-S, DVB-S2, MPEG-2, MPEG-4, HDTV и SDTV достигнута абсолютно. Простая замена настроенного устройства, превращает его в кабельный приёмник или для приема наземного ТВ. Возможность установки жесткого внутреннего диска избавляет от беспорядка с внешними проводами позади, но жесткий внешний диск может все еще быть дополнительно присоединен. Поистине мультимедийный ресивер, объединяет спутниковое/кабельное/наземное цифровое ТВ с прослушиванием музыки, просмотром музыкального видео DivX и просмотром фотографий.



Nickolas Ovsyadovskiy
TELE-satellite
Test Center
Hungary

-

Поиск каналов и переключение могло бы быть немного быстрее. Воспроизведение DivX должно быть проверено, на безупречную синхронизацию сигнала видео и звука. Вентилятор охлаждения на задней панели мог бы быть заменен на более бесшумную модель.



Список каналов |

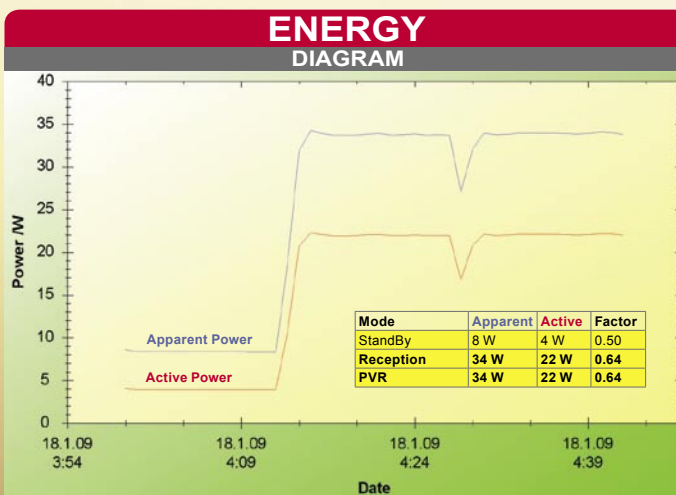


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Tel	+421-38-5362611
Fax	+421-38-5322027
Internet	www.abipbox.com
Email	info@abcom.sk
Model	IPBox 910HD
Function	Digital Linux-based HDTV PVR receiver for DVB-S, DVB-S2, DVB-C and DVB-T reception
Channel Memory	10000
Symbol Rate	1-45 Ms/sec.
SCPC	yes
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



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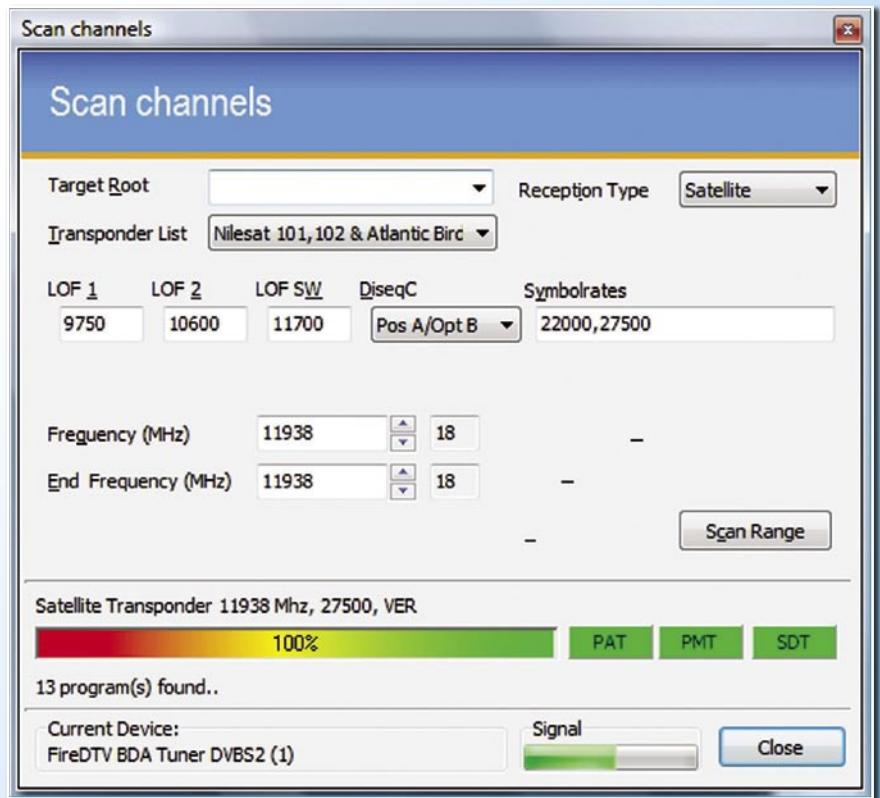


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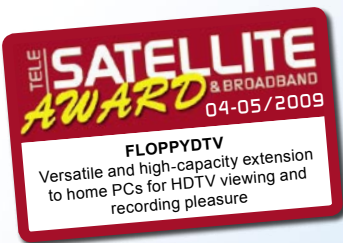
FloppyDTV Perfect DVB-S/2 Solution for the PC

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 DVBSshop decided to add the FloppyDTV card/

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



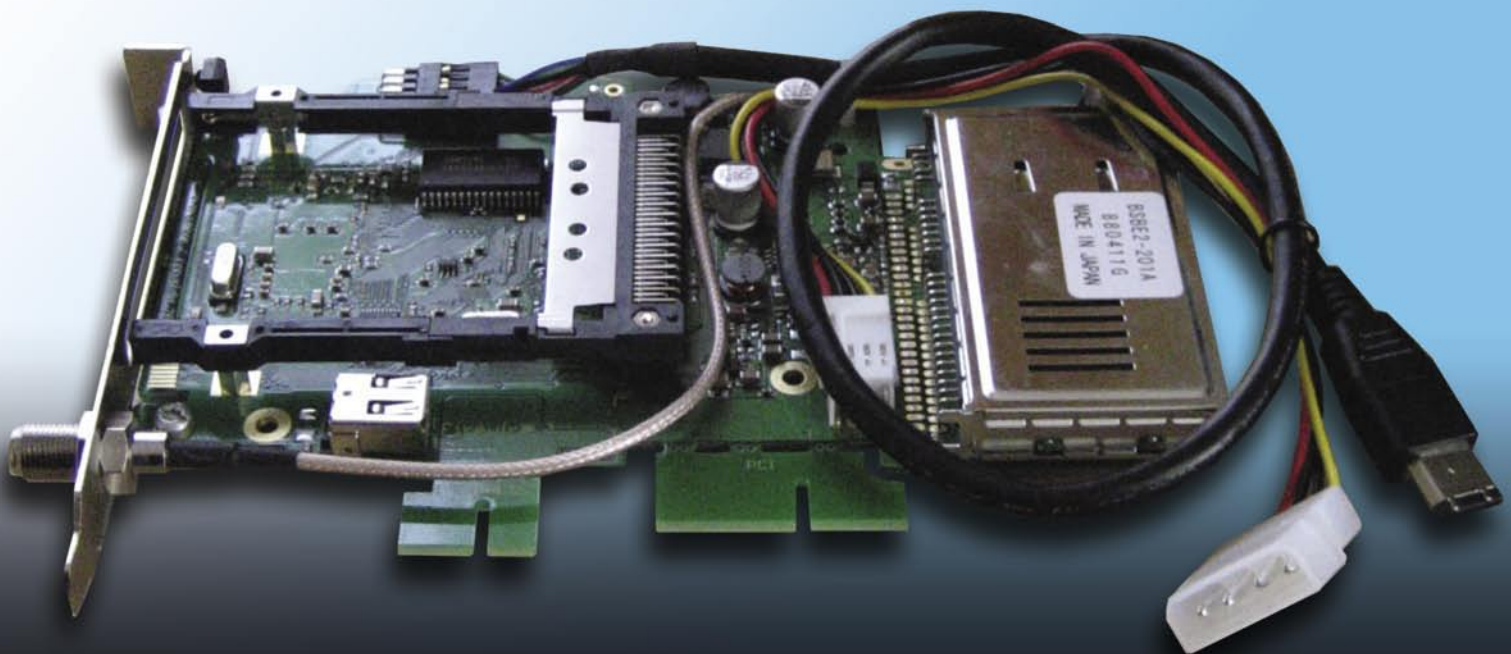
Transponder scan on NILESAT 7° West |



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

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

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



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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.

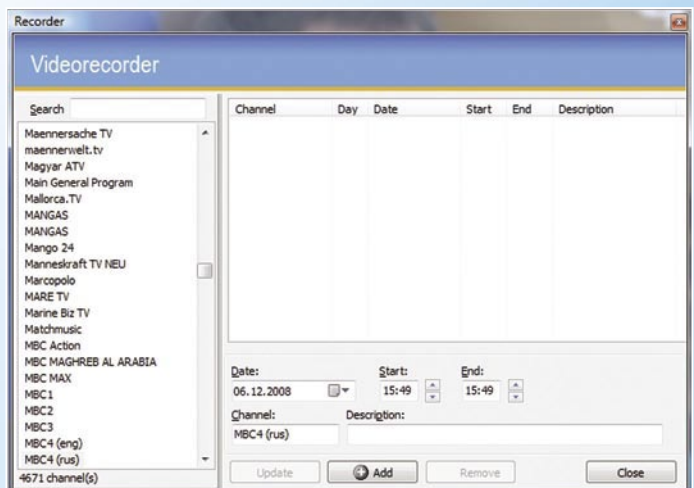
Once the installation process is finished the software is ready to perform its first channel scan. The FireDTV Viewer comes with a pre-stored list of 153 European, Asian and American satellite positions which is quite up-to-date and well sorted. Any required LOF can be used which means that the good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

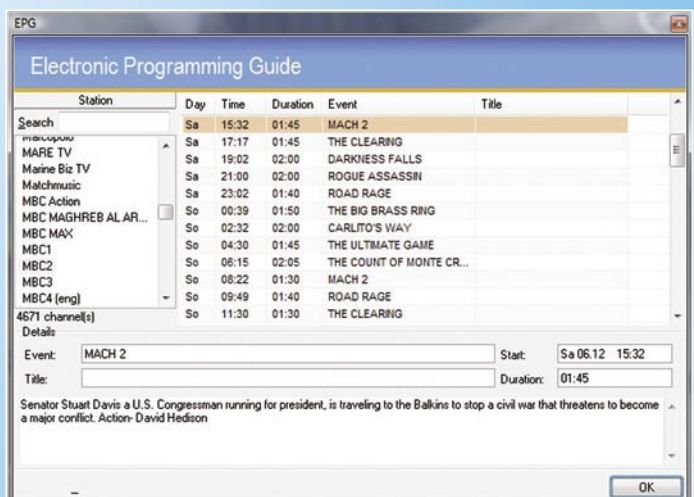
The pre-stored transponder list allows performing a channel scan either across the full frequency range of a satellite or for a restricted range. Alternatively, a single transponder can be chosen for a scan as well. Each scan result is saved separately with an individual time stamp by the software and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

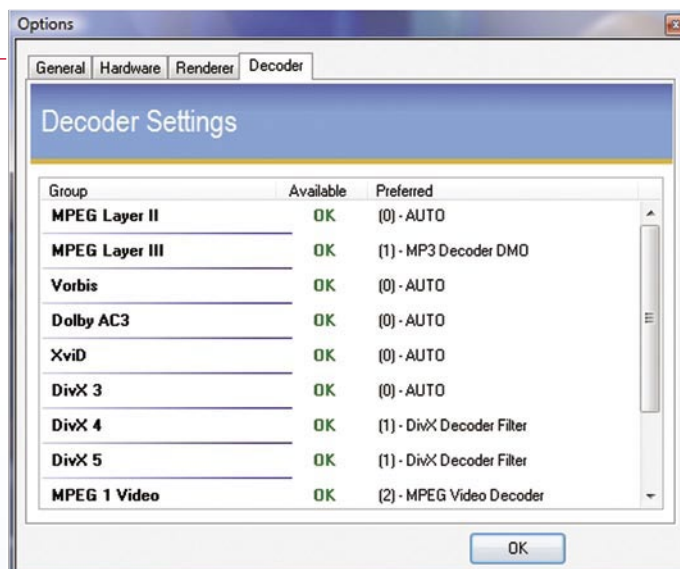
for up to a week in advance, if provided for the selected channel. Naturally you can mark EPG entries for recording with a simple touch of a button – we would not have expected anything less for a premium product anyway.

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

Маленький приемник с большими возможностями



OPENSAT 3000 CRCI PVR - маленький приемник с шахтой модуля условного доступа (CI) и с функцией персонального видео рекордера (PVR). Он имеет необычно маленькие габариты и следовательно вписывается в любую обстановку гостиной комнаты. Особенность передней панели - четырехрядный дисплей и в верхнем левом углу - сетевая кнопка. Все другие кнопки и пазы скрыты позади откидной створки.



DIGITAL SATELLITE RECEIVER • 3000 CRCI PVR

DIGITAL SATELLITE RECEIVER • 3000 CRCI PVR

Если Вы откроете откидную створку этого проема, то обнаружите семь кнопок, для управления приемником без пульта дистанционного управления, шахту для всех стандартных модулей условного доступа (CI) таких как IrdeTo, Seca, Viaccess, Cryptoworks или Nagravisision, Conax, устройство считывания смарт-карт, также как интерфейс USB. Задняя панель, в

равной степени хорошо разработана и проста - обычный спутниковый PC вход и «петлевой» выход, 2 scart евро-соединителя, 4 RCA разъемы для стерео звука и видеосигнала, гнездо в цепи управления 0/12В., оптический выход цифрового звука, выход модулятора УВЧ диапазона, порт RS-232 и механический сетевой выключатель.

Дистанционное управление, которое прибывает с приемником, хорошо размещается в вашей руке, примечательно удобным дизайном

и присущей маркировкой. Несмотря на то, что экранное меню приемника OPENSAT более или менее очевидно, изготовитель обеспечивает всесторонним руководством пользователя, которое решает любые вопросы, которые все еще могут возникнуть. Это касается всех функций и настроек приемника и обеспечено снимками с экрана и где

необходимо рисунками. В целом качество конструкции 3000 CRCI очень хорошее, и мы не имели никаких жалоб на образец, который мы получили для испытания.

Ежедневное использование

Этот приемник не оборудован мастером установки, это означает, что Вы должны начать с выбора вашего привилегированного языка для экранного меню. Как только Вы вошли в этот пункт меню, доступны следующие языки: Английский, Французский, Немецкий, Итальянский, Испанский, Турецкий, Польский, Словацкий, Словенский, Чешский, Венгерский и язык Фарси.

Главное меню примечательно ясной структурой и разделением на шесть



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Croatian	Hrvatski	www.TELE-satellite.com/TELE-satellite-0905/hrv/opensat.pdf
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Dutch	Nederlands	www.TELE-satellite.com/TELE-satellite-0905/ned/opensat.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-0905/pol/opensat.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-0905/por/opensat.pdf
Romanian	Românesc	www.TELE-satellite.com/TELE-satellite-0905/rom/opensat.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-0905/rus/opensat.pdf
Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0905/sve/opensat.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0905/tur/opensat.pdf

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OPENSAT

DVB
Digital Video
Broadcasting

OPENSAT

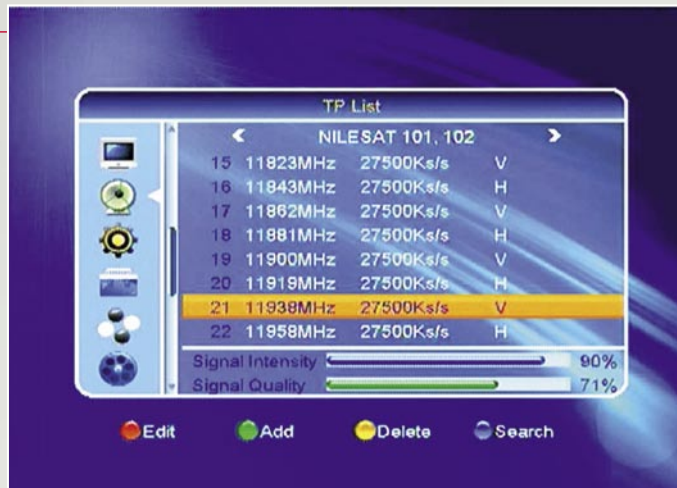
категорий (Список каналов, Настройка антенны и поиск, Настройки, Инструментальные средства, Игры и PVR). Первый шаг требует настройки приемника к имеющемуся у вас телевизионному оборудованию. PAL, PAL-M, PAL-N, SECAM и NTSC системы цветности поддерживаются и могут быть настроены вручную - или Вы можете выбрать функцию «авто» и разрешить приемнику, позаботится обо всем самому. Видеосигналы могут быть выработаны как RGB или CVBS, S-видео и YUV, не предусмотрены изготовителем. Модулятор УВЧ диапазона может быть активизирован в специализированном пункте меню с доступными для этой цели каналами с 21 по 69. Все DVB приборы, точно также как и OPENSAT 3000 CRCI способны к синхронизации местного времени с кодом времени, передаваемым через спутник. Однако чтобы удостовериться правильное ли время, Вы должны определить разность местного времени по Гринвичу. В то время как большинство других приемников требует, чтобы пользователи урегулировали время по Гринвичу + /- X часов, этот ресивер каждый раз показывает ряд известных городов, зона которых облегчает опознавать соответствующую область, даже, когда вы - не уверены на 100 %, какое смещение по времени Вы имеете.

Отдельный пункт меню заботится о наладке летнего времени таким образом, что вам никогда не придется волноваться о замене времени дважды год. Некоторые полезные дополнительные установки подобно экранной графике (OSD) или выбору коммутации каналов завершают этот пункт меню. Затем, приемник должен быть ознакомлен с существующей системой приема. Ресивер поставляется с предварительно сохранённым списком 44 Европейских спутниковых положений, который является

очень современным и хорошо отсортирован.

Кнопки, кодированные цветом, на пульте дистанционного управления могут использоваться, для добавления новых спутников одним касанием, редактирования существующих записей или удаления устаревших и неиспользованных значений. Приемник также должен знать, подсоединён ли он к механизированной или фиксированной антенне, поскольку он поддерживает протоколы DiSEqC 1.0, 1.1, 1.2 и 1.3 (USALS). Благодаря DiSEqC 1.1 много - фокусные антенны могут быть присоединены к приёмнику OPENSAT точно также как антенны с практическими USALS двигателями, которые требуют только точной локализации антенны при поиске всех доступных спутников. Различные значения локального гетеродина (LOFS) предварительно установлены так, чтобы прием С - диапазона также мог быть выбран, помимо приема Ku-диапазона.

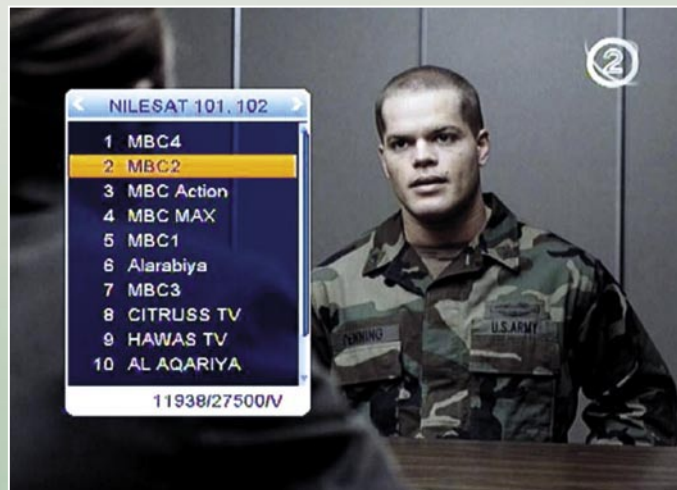
Все сигналы круговой поляризации от маломощных фиксированных приёмных блоков (LNBFs) могут быть приняты и обрабатываются. В целом диапазон доступных значений локального осциллятора (LOFS) довольно внушителен, даже если невозможно указать определенное значение локального гетеродина (LOF) вручную. 3000 CRCI проворен, можно заполнить память на 4000 каналов теми предложениями с неба, которыми, быть может Вы, захотите или сделать автоматический поиск каналов одного или отдельных



Список транспондеров NILESAT 7° З.Д. |



EPG - электронный программный гид |



Список каналов |



OPENSAT



Winners of The Queen's Award For International Trade 2007, Horizon Global Electronics is a UK Company established in 2001 specialising in the design and manufacture of hand held test equipment for the digital satellite and TV sector. Our strength lies in being able to find innovative solutions to leading technology issues .

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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
- Automatic fast and trickle charge modes
- 12 volt in car charger supplied
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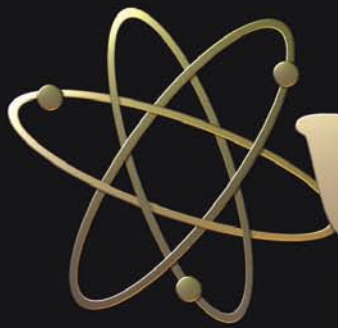
Редактирование списка каналов



Панель Информации



OPENSAT



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<http://subursmt.com>
INDONESIA



Мозаичный просмотр 9 каналов

спутников или ручной перебор приёмопередатчиков.

Для обоих способов Вы можете ограничивать поиск, только как "свободными к просмотру" (FTA), только ТВ, только радио или ТВ и радио. Сетевой поиск может быть активизирован, если потребуется. Объединенный слепой режим сканирования хорошее маленькое удовольствие, поскольку это позволяет обнаружение и поиск приёмопередатчиков, которых, однако же, нет в предустановленном списке. Мы испробовали стандартный поиск на

HOTBIRD 13° В.Д., и ресиверу OPENSAT требовалось 3:20 минут для прописывания 1235 каналов ТВ и 456 радиостанций. При активизации слепого поиска на том же самом спутнике, приемник завершил поиск менее чем за пять минут обнаружением 1132 ТВ каналов и 431 радиостанции. Оба результата – на наш взгляд очень удовлетворительны, так как здесь Мы находимся в автоматическом режиме. Для ручного индивидуального поиска приёмопередатчики могут быть отмечены, отредактированы, отсортированы, добавлены или удалены касанием

кнопки. Здесь снова, кодированные цветом кнопки на дистанционном управлении превращают весь процесс в забаву для ребенка. Единственный предмет, который мы пропустили, это ручной ввод идентификаторов потока (PID), который этот приемник не поддерживает. Если мы имеем в виду, что память каналов ограничена 4000 записей, то имеет смысл подумать относительно исправления списка каналов согласно персональным предпочтениям и, прежде всего, для серьезного рассмотрения удаления всех каналов которые Вы

никогда не будете просматривать. Все это может быть сделано в первой категории меню, того раздела, который отображает весь список каналов и редактирование записей. Само собой разумеется, что не только список ТВ, но также и список радио может быть реорганизован таким, же способом.

Всем любителям дальнего приёма (Dxers): Вы, возможно, были бы рады узнать, что весь список каналов вообще может быть удален прикосновением к кнопке без настройки любых других установок ресивера. Когда вы находитесь в режиме редактирования, или все доступные каналы внесены в список, или – для выгоды применимости – выделены только каналы индивидуальных спутников. Снова, кодированные цветом кнопки на пульте дистанционного управления используются, чтобы прибавлять каналы к одному отдельному списку фаворитов (который может быть назван индивидуально), удалять, перемещать или блокировать каналы PIN-кодом так, чтобы несовершеннолетние члены семьи не имели доступа к неподходящему материалу на экране ТВ. Внесенные в список каналы могут также регистрироваться для игнорирования, когда происходит сознательное переключение вверх и



вниз по списку или на другой канал во время рекламной паузы в просматриваемой телепрограмме (zapping). Всякий раз, когда вы находитесь в режиме редактирования текущий сигнал видео вставлен в маленькое окно в правом углу экрана.

Красная кнопка на дистанционном управлении открывает окно поиска, где Вы можете просто ввести ключ (заглавную букву) желаемого названия канала, в то время как слева от вставленной клавиатуры расположены все найденные соответствия, внесенные в список.

В то время как этот элемент - удачен сам по себе OPENSAT, прошел дополнительную милю реализацией этого элемента чрезвычайно удобным для пользователя способом. В целом от этого приёмника самое хорошее впечатление - от функции объектива с переменным фокусным расстоянием, встроенным декодером телетекста и мозаичным отображением девяти каналов.

OPENSAT использует настроечное устройство с довольно низким порогом и, следовательно, был способен находить и обработать даже слабые сигналы, такие как с NILESAT 7°З.Д. или ASTRA2D 28°В.Д. Испытание приема

одиночных каналов (SCPC) было также произведено тестовой заставкой и нашим испытательным передатчиком на TURKSAT с нормой символа только 2400 Кс/сек. и не составил проблем для 3000 CRCI. Встроенный интерфейс условного доступа (CI) работал точно также гладко, как в нашем испытании и принимал все модули, которые мы устанавливали в него. Встроенное устройство считывания карт Conex также работало блестяще с нашей испытательной картой. Интерфейс RS-232 может использоваться, для модернизации текущего программного обеспечения или установки нового списка каналов.

И, наконец, OPENSAT оснащается специализированным Редактором для ПК (PC), который совместим даже с SatcoDX и, следовательно, может использоваться, чтобы обеспечить обновление данных передатчиков для приемника буквально «на последнюю минуту».

Персональный видео рекордер (PVR)

В случае если вы задались вопросом, почему OPENSAT 3000 CRCI PVR является притягивающим приемником в образцовом обозначении PVR. Имеется

ответ: Всё дело в интерфейсе USB 2.0 на передней панели, который превращает этот приемник от OPENSAT в полностью функциональный персональный видео рекордер - PVR. Любой жесткий портативный диск, карта памяти или брелок памяти может быть присоединен к этому порту и будет распознан приемником за несколько секунд. После чего в один момент все функции персонального видео рекордера (PVR) станут доступными, для записи текущего события, воспроизведения записанного файла и просмотра смещения во времени. Так в следующий раз, когда прямо посреди большого длинного кинофильма, вы получите телефонный звонок, Вы просто нажимаете паузу, снимаете телефон, а затем продолжаете с того же самого места, когда Вы завершите телефонный вызов. Конечно мы испытывали все функции PVR и не нашли на что бы могли пожаловаться. Восемь событий таймера могут быть назначены, они также позволяют записывать ежедневно или еженедельно без дальнейшей суматохи. В дополнение к записи и воспроизведению ТВ и радио удовлетворяет проигрыватель MP3 и приспособление для просмотра фотографий так, чтобы Вы могли в следующий раз отображать ваши драго-

ценные праздничные фотографии на экране ТВ. Или Вы можете использовать приемник как музыкальный автомат для будущей вечеринки. Обновление Программного обеспечения - также потенциальное использование USB интерфейса - всё, что Вы должны сделать - загрузить соответствующий файл с веб-страницы изготовителя, скопировать его на брелок памяти и затем начать процесс обновления на приемнике. Реальный единственный недостаток OPENSAT 3000 CRCI PVR - тот факт, что устройство хранения может быть присоединено только к передней панели приемника. Это в свою очередь означает, что изящная створка все время остается открытой и показывает, несколько менее изящна внутренняя панель со всеми кнопками и пазами. Однако, что мы особенно оценили, ту свободу, с которой записи могут быть отредактированы на ПК или записаны на DVD. Благодаря портативному внешнему носителю данных, это - как дважды два - четыре, чтобы соединить его с ПК и, следовательно, никогда больше не волноваться о перемещении огромных файлов из одного устройства на другое.



OPENSAT

Мнение эксперта.

+

OPENSAT 3000 CRCI PVR – полностью – функциональный PVR приемник, который является очень подходящим для любой гостиной комнаты и для всех членов семьи благодаря легкости в использовании.

Операционная система имеет удобный для пользователя дизайн, и работала безупречно в течение нашего испытания. Аппаратные компоненты, использованные OPENSAT также, не оставили желать ничего лучшего.

Благодаря PVR, проигрывателю MP3 и приспособлению для просмотра изображений, 3000 CRCI - чрезвычайно универсальный приемник, который будет достойно выглядеть в любой комнате благодаря небольшому размеру.



Thomas Haring
TELE-satellite
Test Center
Austria

-

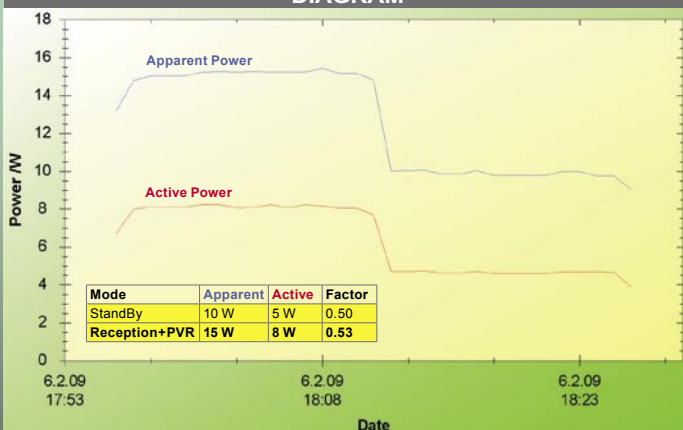
Интерфейс USB на передней панели - немного неудобен. Перемещение его в заднюю часть или - даже лучше - добавление второго интерфейса USB на задней панели было бы хорошей идеей.

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)

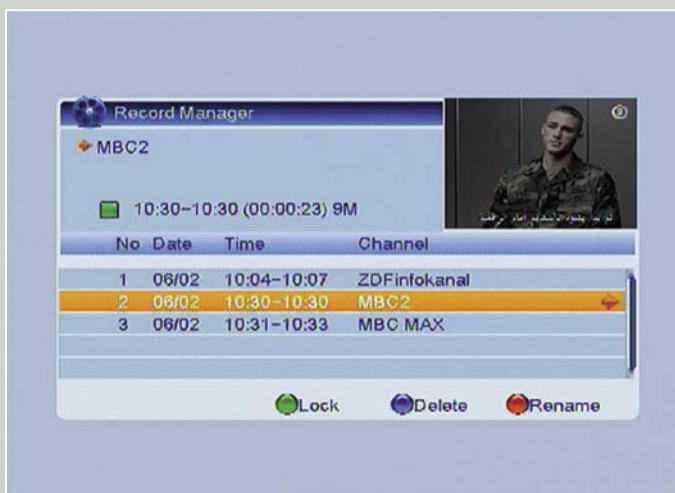
ENERGY DIAGRAM



Первые 15 минут: активная работа с поиском, переключением каналов, приемом, и т.д., вторые 15 минут: дежурный режим.



Главное меню – Персонального видео рекордера (PVR) |



Управление персональным видео рекордером (PVR) |



MP3 Jukebox |



Приём одиночных каналов SCPC с TURKSAT 42° В.Д.



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21ST CENTURY**





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

TELE SATELLITE AWARD & BROADBAND
02-03/2009

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

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TOPFIELD
MADE IN KOREA



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

TELE SATELLITE AWARD & BROADBAND
02-03/2009

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

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DIZIPIA
MADE IN KOREA



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



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



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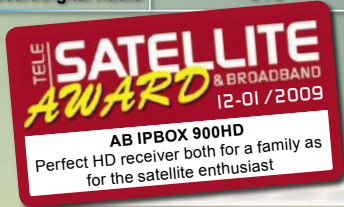
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Manufacturer	AB-COM
Website	www.abipbox.com
Function	Digital Linux-based HDTV PVR Receiver for DVB-S, DVB-S2, DVB-C and DVB-T
DVB-S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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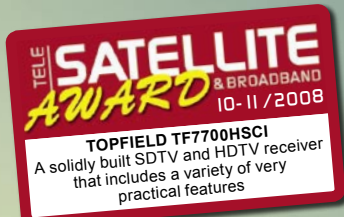
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AB-COM



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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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0811/tur/topfield.pdf



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	— / ●

TELE SATELLITE AWARD & BROADBAND
 10-11/2008
SONICVIEW SV-360 ELITE PVR
 A family-friendly receiver and easiest to use with a multitude of features

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Read Indepth Review of This Product Directly on the Internet:

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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0811/tur/sonicview.pdf



SONICVIEW



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

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 Easy to use receiver for big motorized dishes at an economic price

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Czech	Česky	www.TELE-satellite.com/TELE-satellite-0811/ces/venus.pdf
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0811/tur/venus.pdf



VENUS



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

TELE SATELLITE AWARD & BROADBAND
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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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0809/tur/abcom.pdf



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





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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- Greek Ελληνικά
- Croatian Hrvatski
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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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- Polish Polski
- Portuguese Português
- 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	• / •

TELE SATELLITE AWARD & BROADBAND
02-03/2008

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

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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0803/tur/topfield.pdf



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

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AB IPBOX 350PRIME PVR
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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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A receiver that will make any newbie happy as well as please any pro with its endless possibilities

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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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12-01 / 2008

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Fast and easy to use receiver for FTA reception with a very sensitive tuner

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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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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	• / •

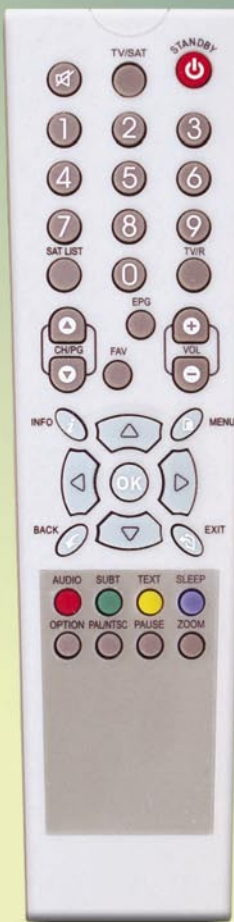
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Manufacturer	ABC Biznis
Website	www.opensat.info
Function	Fast satellite receiver with two CI slots
DVB-S2/LAN	- / -
Channel Memory	6000
DiSEqC	1.0 / 1.2
S-Video/HDMI	- / -
Scart/Digital Audio	• / -

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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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Качество изготовленное AB-COM

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Высокое качество по приемлемой цене - это само утвержденное задание Словацкого изготовителя приемников AB-COM, который вышел на рынок в 2005 году с ресиверами, базирующимися на ОС Linux. SD приемник 2005 тогда имел мгновенный успех, и все еще продается в больших количествах сегодня, так как он оценен как один из лучших и в то же самое время оптимальных приемников на ОС Linux, доступных на рынке. Управляющий компании Джурай Масарик (Juraj Masaryk) предоставил нам краткую историю о прошлом AB-COM и возможных перспективах на будущее.

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■ Производственные помещения AB-COM в Словакии. Один из автомобилей по доставке товаров может быть замечен на переднем плане.

Строго говоря, АВ-COM уже празднует 20-ую годовщину в этом году, но компания претерпела совершенно реальные изменения в прошлом и на самом деле 1992 год рассматривается для АВ-COM как исходная точка превращения в спутниковую компанию. До того времени, компания АВ-COM была продавцом комплектующих для ПК, она была основана двумя партнерами. В 1992 году Джурай Масарик (Juraj Masaryk) присоединился к команде. Он был применён как менеджер по продажам и закупкам спутникового оборудования в представительстве прежде, чем им было решено, в один момент воплотить его собственные идеи. Джурай Масарик (Juraj Masaryk) первоначально получил 25 процентов пакета акций от существующих партнеров АВ-COM и начал свою карьеру в компании с расширения деятельности компаниитажже



■ Джурай Масарик (Juraj Masaryk) - квалифицированный инженер и управляющий АВ-COM. Со всей скромностью он называет себя продавцом и менеджером закупок, он постоянно постигает способы оптимизировать деловые процессы. Здесь он показывает структурную карту 29 сотрудников штата в АВ-COM. "Некоторые служащие охватывают несколько областей ответственности, и эта схема организации детализирует, сколько времени они вкладывают в различные задачи", объясняет Джурай (Juraj). "Каждую неделю все доклады о деятельности собираются и оцениваются". Благодаря этой интеллектуальной организационной структуре АВ-COM имеет хорошее развитие.





■ Перспектива магазина АВ-COM. Розничный клиент может покупать качественные спутниковые компоненты в производственных помещениях АВ-COM. Коммерческий директор Питер Хрнко (Peter Hrnko) - один из пяти членов коллектива представляет в магазине приемник от АВ-COM. В то время как производство спутниковых приемников составляет 70 процентов от общего товарооборота, АВ-COM также снабжает 3000 представительств в Словакии и Чешской Республике всеми дополнительными спутниковыми компонентами.

внедрением спутниковых компонентов. Для начала, АВ-COM предложила компоненты MMDS для наземного телевидения, являющегося тем сегментом, который все еще существует сегодня, но с маленьким или ничтожным значением для всего рынка. Сегодня Джурай Масарик (Juraj Masaryk) владеет 60 процентами АВ-COM, вместе с двумя первоначальными партнерами, став партнерами, они активно не участвуют в деле, поручив ежедневный бизнес Джураю (Juraj). "АВ-COM - теперь сфокусирована только на спутниковых приемниках", сообщает нам Джурай Масарик (Juraj Masaryk). Это - то, где он видит будущий потенциал, и это - то, где он может воплощать все его идеи. Вначале АВ-COM поставляла приемники от различных изготовителей, "...но осуществление не соответствовало моим стандартам...", вспоминает Джурай Масарик (Juraj Masaryk). "Я хотел видеть, как мои собственные концепции становятся действительностью". Но все еще, это было только одним из отдельных побуждений, чтобы стать изготовителем приемников. "Я всегда полагал, что ОС Linux будет



■ Даже с наиболее строгим контролем качества прямо на месте Вы никогда полностью не сможете устранить потребность в ремонте. Рене Хубинский (René Hubinský) одним из четырех инженеров службы поддержки программного обеспечения.

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соответствовать спутниковым приемникам», говорит Джурай Масарик (Juraj Masaryk) и поэтому он занялся использованием преимуществ, предлагаемых ОС Linux, чтобы осуществлять его идеи. Один из инструментов, в конце концов, - программное обеспечение приемников, разрабатывается инженерами программного обеспечения в АВ-COM. "Программное обеспечение для SD приемников уже полностью сформировано, для HD моделей, в настоящее время идет «чистовая полировка». В будущем, HD приемники от АВ-COM будут снабжены специализированной версией «Enigma HD АВ». Третий и - в конечном итоге - решающий аргумент для производства приемников АВ-COM - знаменитое слово Q (Качество). "Качество - в центре нашего внимания", настаивает Джурай (Juraj), но как можно гарантировать, что качество останется таким, же высоким? Естественно, Джурай (Juraj) также нашел решение для этого: компоненты - поставляемые из-за границы от Корейского изготовителя, так называемые изделия в полностью разобранном виде (SKD), собираются и проверяются в АВ-COM индивидуально. Джурай (Juraj) показывает нам обозначение сзади приемника АВ-COM: "Вы можете здесь прочитать правду: Испытано в Европейском союзе (Tested in EU)". Таким образом, АВ-COM, гарантирует - каждое отдельное изделие соответствует взыскательным стандартам компании. Но не будем, останавливаться на производстве.

Где фактически продаются приемники от АВ-COM? Томаш Копецкий (Tomáš Kopecký) коммерческий директор для Европы сообщает нам, что "...почти во всех Европейских странах мы сотрудничаем с национальными распределительными сетями...". Бегло взглянув на карту мира Томаш (Tomáš) гордо добавляет, "... мы представлены даже в Северной Америке...". Конечно, все еще имеются несколько белых пятен на карте, типа Франции, Португалии, Турции, Великобритании и Северной Африки. "Мы все еще ищем распределительные сети на тех рынках", добавляет на превосходном английском языке Томаш (Tomáš) и говорит "...я ожидаю получения ответов от распределительных сетей в тех странах...". Джурай (Juraj) объясняет, что "конечно, мы можем также адаптировать наши приемники к требованиям индивидуальных рынков. Прямо сейчас мы работаем над таким проектом для Украинского рынка". "В настоящее время приблизительно 30 процентов от продажи приходится на SD приемники, больше 70 процентов продажи HDTV". Глядя на успех модели АВ-COM 200S Томаш (Tomáš) объясняет, что "со строго экономической точки зрения это - наше лучшее изделие: оно предлагает наивысшее качество со всеми требуемыми возможностями по приемлемой цене".

■ Перспектива помещения в сборочном цехе: именно здесь детали и компоненты, поставляемые из-за границы, превращаются 16-ю служащими в приемники АВ-COM, пока каждый приёмник АВ-COM не будет проверен индивидуально на соответствие характеристикам.



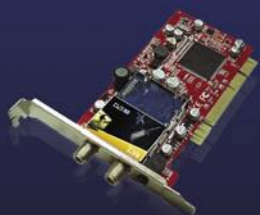
■ Заведующий складом Мичал Валент (Michal Valent) - занимаясь хранением, недавно закончил на складе подготовку приемников АВ-COM для их отправки, по мере поступления заказов.



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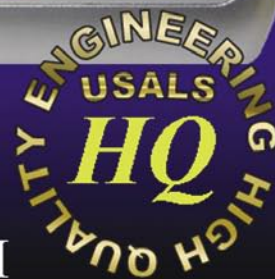
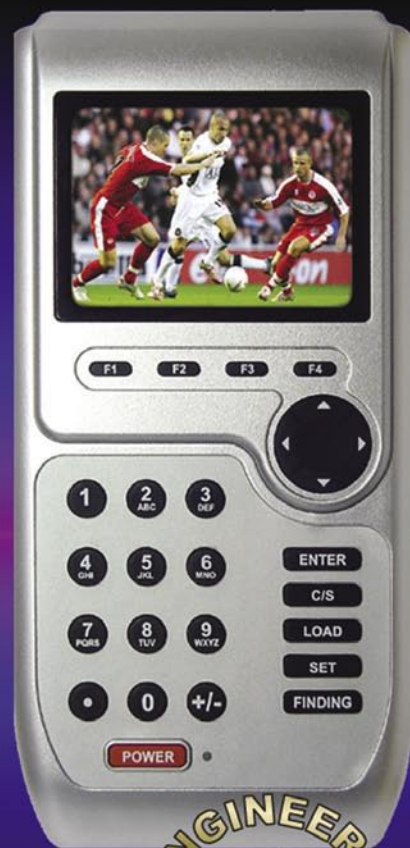
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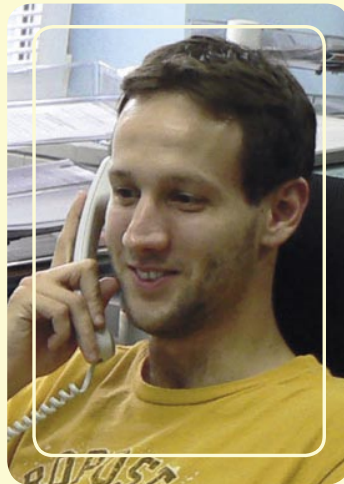
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■ Коммерческий директор Радован Сифра (Radovan Cifra) заботится об оптовых клиентах в Словакии.



■ Хало Джурай (Halo Juraj) - коммерческий директор для оптовых клиентов в Чешской Республике.



■ Коммерческий директор для Европы Томаш Копецкий (Tomáš Kopecký) является точкой соприкосновения компании для внешней части распределительных сетей вне Словакии и Чешской Республики. "Мы были бы больше чем счастливы, пригласить новые национальные распределительные элементы в нашу сеть!"



■ Джурай Бобула (Juraj Bobula) заботится о оптовых клиентах в Словакии.

Поэтому Джурай (Juraj) повторяет, " вот почему мы работаем над запуском HD, придерживаясь той же самой концепции".

В то время когда Вы будете держать этот выпуск в ваших руках, ожидается, что на рынок будет запущен, очень маленький законченный продукт, устройство считывания интеллектуальных карт точно также как внутренняя операционная система «Enigma HD AB».

"2009 финансовый год мы встречаем лицом к лицу повышением продаж наших HD приемников, чтобы достигнуть доли 80 процентов, а в 2010 году прогнозируем долю 90 процентов", истолковывает Томаш (Tomáš) коммерческие проекты на последующие годы.

"AB-COM 350 – основной приемник, например, поставляется с взаимозаменяемым настроечным устройством для любого поставщика ТВ, в т.ч. кабельного", выделяет другое направление Джурай (Juraj). Однако, DVB-C - только один из нескольких центров в AB-COM. Джурай (Juraj) смотрит даже дальше в будущее, когда он представляет, что, " как только проект «Enigma HD AB» – будет закончен наши инженеры программного обеспечения, подвергнут рассмотрению развитие проекта «Enigma IPTV AB»". Джурай Масарик (Juraj Masaryk) может быть больше чем счастлив тем, как развился бизнес. "С 2007 года по 2008 год мы были свидетелями почти 30 процентного увеличения товарооборота, и в 2009 году рост, как ожидается, достигнет 20 процентов", гордо заявляет Джурай (Juraj) после нескольких щелчков в коммерческом приложении программного обеспечения компании. "Общий товарооборот почти достиг десяти миллионов Евро в 2008 году, и конечно этот уровень будет превзойден в 2009 году", продолжает с оптимизмом Джурай (Juraj) и



■ Джурай Масарик (Juraj Masaryk) - подлинный спутниковый энтузиаст - даже, когда он не на работе. Здесь он на балконе его дома возле много конверторной антенны.

также сообщает нам, о том, что новые помещения компании уже строятся, так как мы говорили об этом. "Таким образом - достаточно места для будущего расширения!". Точно - наверняка: AB-COM находит приятным планировать

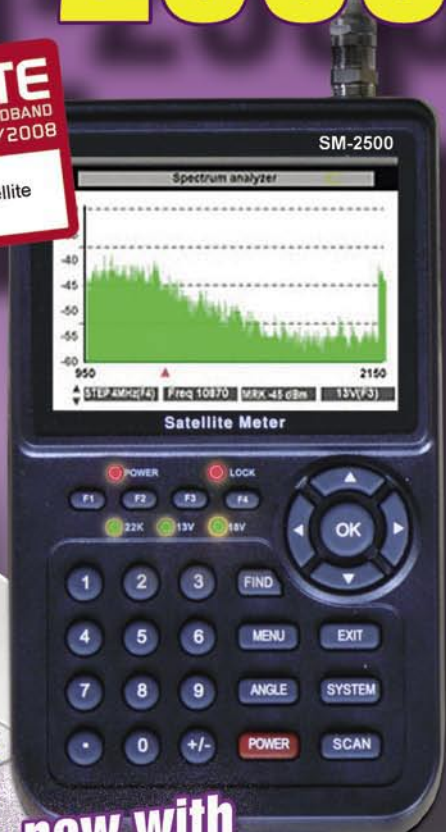
будущее. И это означает, что будущее формируется энергично. Новшества встречает качество - всё из одного единственного источника.

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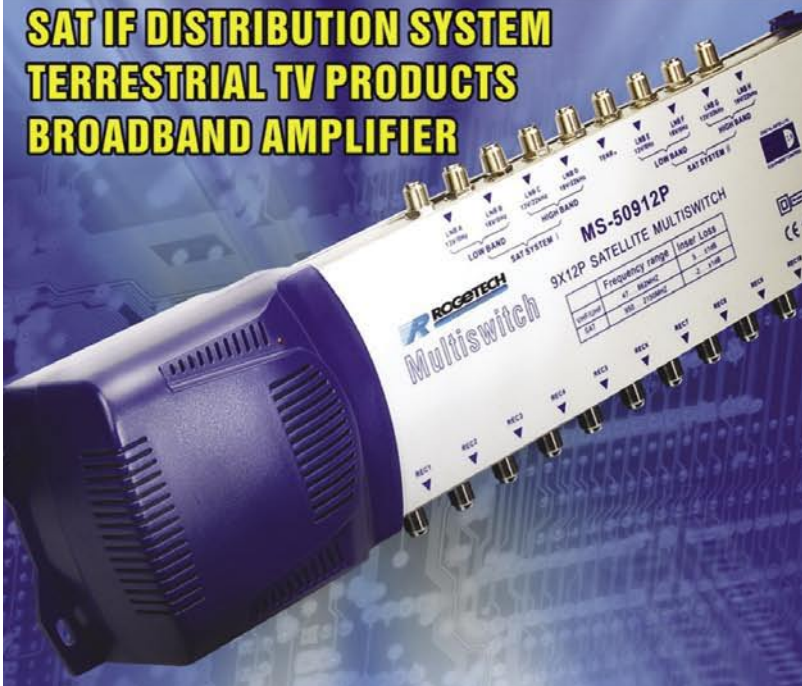
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■ АВ-COM придает большое значение последующему обучению: Один раз в год торговые агенты информируются о самых последних разработках на семинаре. Это однодневное событие субсидировано АВ-COM и предоставляет должданный шанс приглашенным торговым агентам и АВ-COM, лучше узнать друг друга.

Инженер - эксплуатационник ■ Мартин Дуринский (Martin Ďurinský) использует симпозиум как платформу для демонстрации новых возможностей приемников АВ-COM.

АВ-COM переместится в эту новостройку 1 октября 2009 года – картинка показывает рисунок архитектора. “Мы переросли имеющееся здание” объясняет Джурай (Juraј). Строительная бригада работает над вместимостью так, чтобы производственный цех с верхним потолком в 6 метров и приложенным крылом офиса был закончен, как только возможно.



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The image shows a stack of TELE-satellite magazine covers. The top cover features a large satellite dish and a man standing next to it. The headline reads "DIZIP A VENUS 4-Segment Mesh Satellite Dish Innovation from Indonesia". Other headlines include "TOPFIELD Ideal Receiver for Plasma TVs", "MFC USA High Quality C-Band Filters Give Clean Picture", "Reception Report US TV in Europe Receiving Satellite Signals in Tenerife from America", "Company Report Smart From the Land of Cuckoo Clocks A German Startup Grows Big", "Test Report TOPFIELD Ideal Receiver for Plasma TVs", "Company Report MFC USA High Quality C-Band Filters Give Clean Picture", "Test Report VENUS 4-Segment Mesh Satellite Dish Innovation from Indonesia", "Test Report DIZIP A HDTV PVR with Twin Tuner", "Test Report TOPFIELD DS4H-9160 HDTV PVR", "Test Report h-cool TF7700HSC", "Test Report Robbinway.com Brackridge-Stacker Use one cable instead of two", "Test Report SmartCatcher Amazing New Satellite Meter", "Test Report Diamond Line GSAT Lites Get More Bang For Your Buck".

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Topfield – марка высочайшего класса

Alexander Wiese

Topfield был общепризнанным игроком на рынке высококачественных спутниковых приемников на протяжении многих лет. Новый приёмник TMS высшего качества от Topfield ещё более укрепит завоёванные позиции на вершине рынка ресиверов высочайшего качества. Журналу TELE-satellite хотелось узнать больше относительно будущей стратегии компании и поговорить с Донг Хун Суком (Dong Hoon Suk) директором по сбыту в команде Topfield.

Директор по сбыту Донг Хун Сук (Dong Hoon Suk) стоящий перед демонстрационной выставочной стеной, характеризующей приемники Topfield

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170 членов коллектива задействованы Topfield в этом семиэтажном административном здании в южном Сеуле. 100 служащих составляют отдел программного обеспечения и оборудования, в то время как 70 человек заняты в администрации, заботятся о сбыте и маркетинге. На самом деле производственная база расположена за пределами Сеула. Множество спутниковых антенн установлены на крыше здания, которое принадлежит Topfield ■



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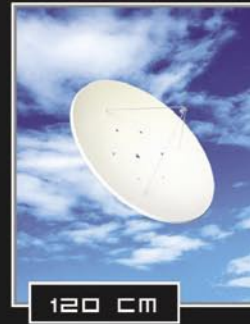
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В целом Topfield имеет линейку больше чем 200 различных спутниковых приемников, адаптированных к требованиям индивидуальных рынков. Однако же руководители компании слишком хорошо знают, что существующее количество различных типов приемников не является индикатором для успеха. «Мы должны доказать, что мы способны к достижению наивысшей производительности», объясняет Донг Хун Сук (Dong Hoon Suk) стратегию Topfield. «Новым приёмником TMS мы не только сможем продемонстрировать техническое качество, которое мы можем достигнуть, но также и новый уровень применимости».



■ Менеджер изделия TMS Джимми Ли (Jimmy Lee), поясняет возможности коммутации новаторского изделия TMS.



■ Мэтт Йеон (Matt Jeon) не только «секретный руководитель» TMS, но также и лидер команды, состоящей из восьми инженеров программистов разрабатывающих и постоянно совершенствующих программное обеспечение для TMS.

Это будет чрезвычайно высокий уровень с возможностями, которые пока только существовали в нашем воображении.

«TMS может также использоваться для коммерческих услуг», подчёркивает Донг Хун Сук (Dong Hoon Suk), «...и подключение его к Интернет позволяет полностью использовать новые приложения, таким образом, расширяя сферы использования для спутникового приемника совершенно радикальным способом». Поскольку TMS - первоклассное изделие Topfield первоначально запустит его только на избранных рынках. «Германия - один из таких первоначальных рынков, вместе с Нидерландами, Бельгией и Швейцарией», продолжает Донг Хун Сук (Dong Hoon Suk). «Клиенты на этих рынках особенно требовательны». Мы с удивлением отметили то, что Topfield также предложит TMS в России: «Мы предполагаем, что спрос на TMS будет там очень сильным» утверждает Донг Хун Сук (Dong Hoon Suk). Джимми Ли (Jimmy Lee) - менеджер изделия, ответственный за TMS. Его работа должна координировать разработку программного обеспечения с производственными инженерами проектируемого оборудования и обсуждать требуемые элементы нового приемника высшего качества с отделом маркетинга. Он раскрывает некоторые запланированные детали производства: «Мы войдем в рынок с первоначальной версией приемника TMS 3000...», объясняет Джимми Ли (Jimmy Lee), «...так, чтобы мы могли оценить реакции рынка». Различные рынки



■ Главный редактор «TELE-satellite» Александер Виес (Alexander Wiese), ожидающий от Topfield представления TMS.

увидят различные версии многообразия TMS. «Само собой разумеется, например предустановленные игры будут различны» продолжает Джимми Ли (Jimmy Lee). «Окно просмотра сети (браузер), предварительно установленное в TMS первоначально может быть использовано для доступа к определенным услугам в полностью функциональном окне просмотра только во втором квартале 2009 года», открывает несколько больше подробностей Джимми Ли (Jimmy Lee), принимая во внимание последующие этапы развития программного обеспечения для TMS.

Наконец, мы пожелали выяснить, как вообще родилась идея TMS. Это все началось с инженера программиста Мэтта Йеона (Matt Jeon), который и придумал концепцию этого нового мультимедийного приемника в феврале 2008 года. Он собрал коллектив из восьми инженеров разработчиков программного обеспечения, которые создали первый прототип к августу 2008 года. «Команда TMS»

была полностью изолирована от остальной части компании, и всё что касалось её работы, было «совершенно секретным». Как только первые прототипы были собраны, они были представлены посвященным лицам и крупномасштабным торгово-распределительным сетям.

Широкая публика впервые будет способна приобрести TMS на ежегодной выставке ANGA.

TMS производится в Корее и это показывает, что Topfield демонстрирует то, на что способны современные спутниковые приемники. Topfield еще раз предлагает, реальное доказательство того, что их лозунг «Лидер Домашнего Мультимедиа» тяжело заработан, по праву заслужен и доказывает то, что Topfield изо дня в день работает над совершенствованием технологии.



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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.



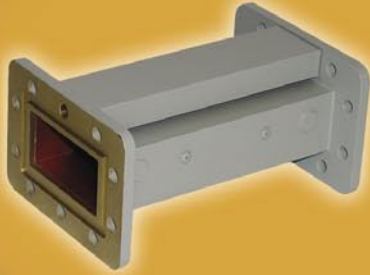
■ GTA Electronics can be found here in this office complex as a satellite dealer for end users and Worldwide Satellites as a satellite wholesaler. Pearson International Airport is located roughly 1 km behind the office.



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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 знает каждого!

Кто-либо из проявляющих активность в спутниковой отрасли в Китае, так или иначе, соприкоснется с Луо Ши Ганг (Luo Shi Gang). Не только, потому, что он распространял TELE-satellite в Китае много лет, но также и потому что он - высококлассный специалист во многих других спутниковых отраслях.

Так как Китай вступает в эру непосредственного спутникового телевидения (DTH) в 2009 году, сейчас – подходящее время для посещения Луо Ши Ганг (Luo Shi Gang) в его офисе в Шеньжень.

Луо (Luo) назвал его компанию, Aluo-Sat по простой причине: в кантонском диалекте, на котором разговаривают в южном Китае «А» имеет десять приписанных значений к первому имени лица. Так Луо (Luo) становится Алуо (Aluo). По происхождению, Луо родом из провинции Сычуань (Sichuan) на юго-западе Китая. Он изучал электротехнику и получил свою первую работу в компании, производящей электронные компоненты для китайского оборонного комплекса в городе Ланьжоу (Lanzhou) на северо-западе. Между

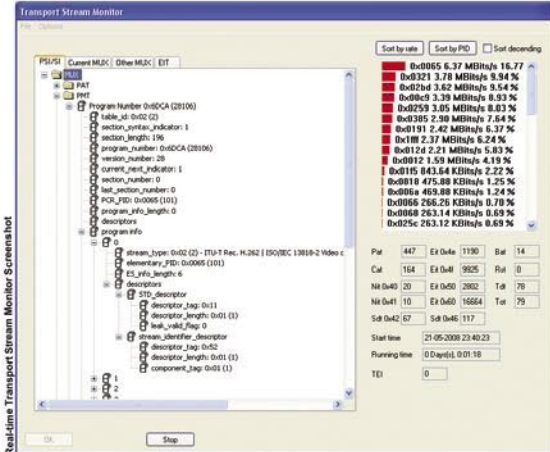
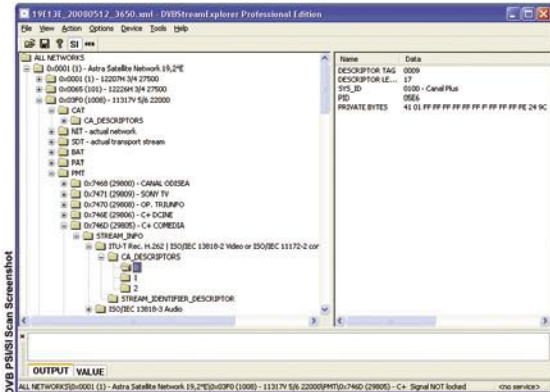
Члены коллектива Aluo-sat - Лоу Юн (Lou Jun) (слева) и Луо Ши Ганг (Luo Shi Gang) (справа) на крыше. Почему Луо Ши Ганг (Luo Shi Gang) выбирает верхний этаж для его офиса? Возможно, Вы предположили что: он рассчитывает быть уверенным, что кабели между антеннами и приемниками будут короткими. И почему - он счастлив, если имеется довольно преобладающая балюстрада? Так как, частный спутниковый прием все еще запрещен в Китае и таким способом, антенны Луо (Luo) не могут быть замечены снаружи. На этом изображении мы можем видеть две антенны С - диапазона – антенна в задней части - моторизована, та, которая спереди - неподвижная.

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MPEG2/DVB Transport Stream Analyzer

Feature Summary

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



DVB PSI/SI Scanning

- Scanning of PSI/SI information as defined in ISO13818-1 and EN 300 468.
- Parsing of PAT, CAT, BAT, NIT, SDT, EIT, TDT, TOT, RST, AIT (MHP), PMT and INT tables, including most descriptors.
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- View DVB service information of collected PSI/SI data.
- Organize service view by satellite position, network ID, provider and alphabetic.
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ATSC PSI/PSIP Scanning

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

DVB DSMCC scanning

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

DVB MPE scanning

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

Real-time Transport Stream Monitor

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- Summary of services on other MUXes.
- Logging of MPEG2 A/V, H.264 and AC3 elementary stream key parameters.
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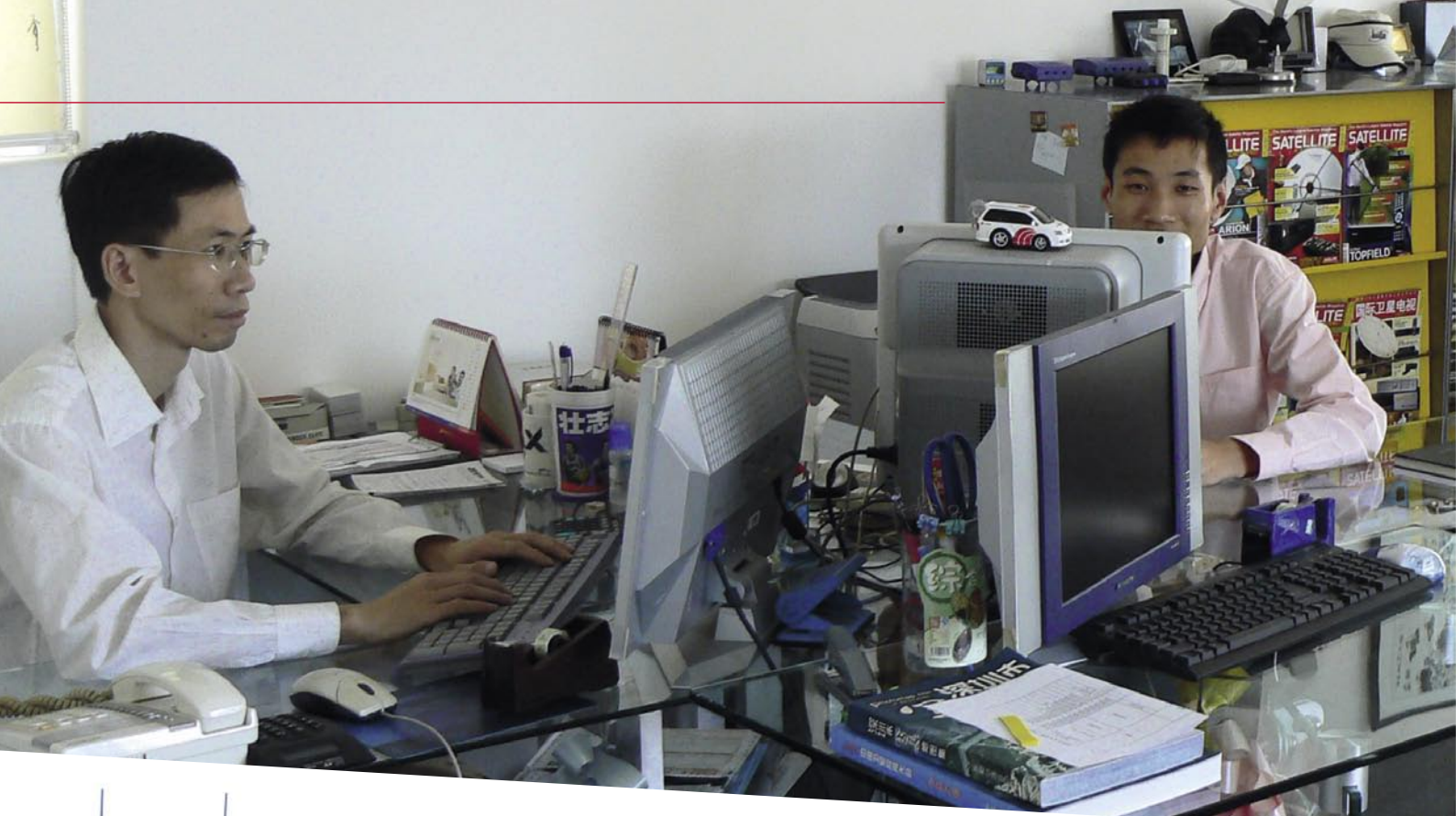
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прочим, его первый работодатель также производил спутниковое оборудование. Луо (Luo) впервые испытал подлинный спутниковый прием, когда он принял сигналы из России от EKRAN 99° В.Д., который в то время использовал диапазон УКВ на частоте 714 МГц. С того момента он был завербован на спутниковый прием. Вскоре он начал писать статьи для еженедельной «Газеты Электроники» ("Electronics Newspaper"), которая в то время была единственно доступна публикаци-

ями на тему спутниковой технологии. Количество статей все время продолжало возрастать, и его работа также требовала всё больше и больше встреч с посвященными лицами спутниковой индустрии.

В конце концов, в 1995 году он организовал его собственный бизнес: "Вместе с моей женой я основал, Aluo-sat в Шеньжень в 1995 году". Кроме его работы как технического журналиста он также начал работать как консультант. Сегодня он использует штат из семи сотрудников: "Моя жена - на опеке бухгалтерского учета, три инженера заботятся о технических запросах, один служащий ведёт спутниковый магазин в Гонконге, и ещё один сотрудник заботится о продаже и дистрибуции". Aluo-sat также начала предоставлять высококачественные изделия от избранных изготовителей, таких как «Changhong», для цифрового наземного телевидения (DMB -TH), каналы которого транслируются из Гонконга, но могут быть совершенно легко приняты также в Шеньжень.

"Мы обслуживаем конечных пользователей также как оптовых торговцев",

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Available online starting from 27 March 2009

Луо Ши Ганг (Luo Shi Gang) в его офисе на верхнем этаже жилого дома в сердце Шеньжень. Невозможно отрицать тот факт, что он - официальный распространитель журнала TELE-satellite в регионе ■



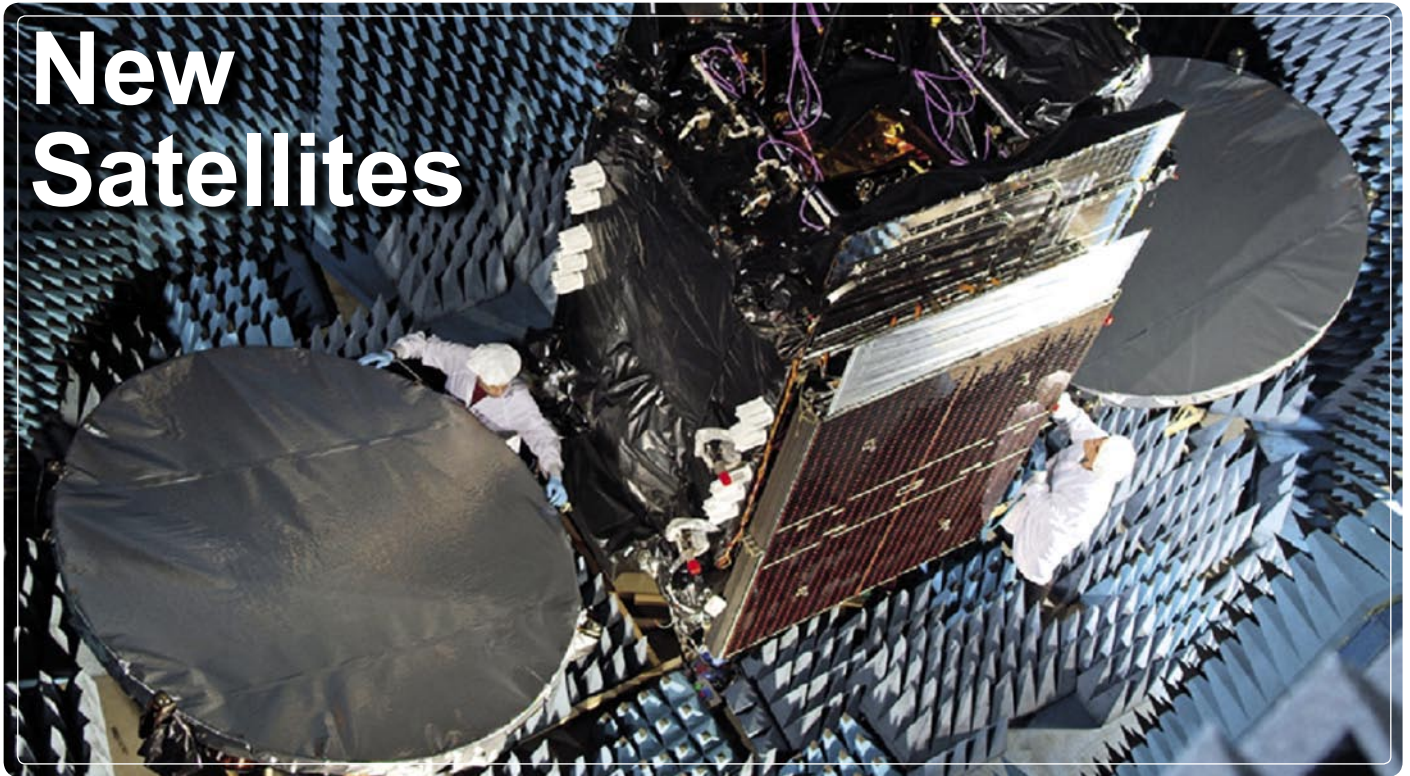
объясняет Луо (Luo) его деловую стратегию. "Но, я наслаждаюсь больше всего тем, что работаю как консультант". Луо (Luo) много путешествует, и его визиты связаны со спутниковыми ярмарками и выставками. "Таким образом, я могу встречать важных людей и расширять мою персональную сеть", говорит Луо (Luo).

Луо (Luo) - значимая persona во многих областях и сегментах. "Мне нравится приходить на помощь, когда это помогает в установлении связей с Китайскими спутниковыми предпринимателями".

Высокая балюстрада гарантирует, что антенны скрыты. Горизонт города Шеньжень может быть замечен на заднем плане ■



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.

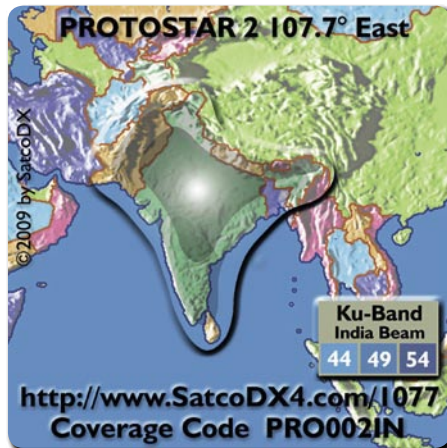
This satellite is also a special joint venture with ASTRA, The S-band (2.0 and 2.2 GHz), which represents a new frequency band for both SES and Eutelsat, provides a set of frequencies optimized for supporting a wireless distribution network for delivering video and other services to mobile devices, including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



PROTOSTAR 2

May 2009

This satellite is base on a Boeing Satellite system platform called 601HP, located at 107.7 EAST, this satellite will replace CAKRAWARTA. The satellite is build with 24 KU transponders to cover Philip-pines, 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.

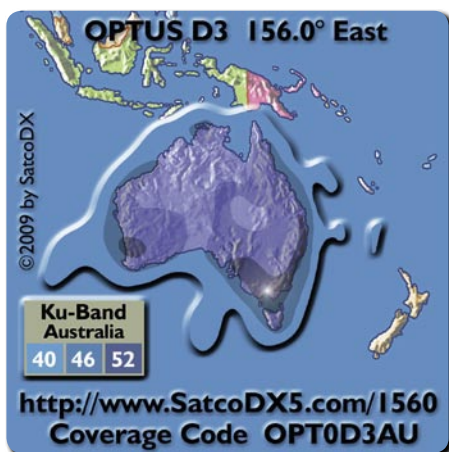




OPTUS D3

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

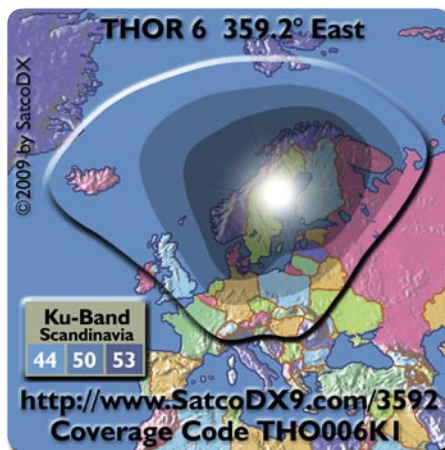
This satellite will replace INTELSAT 709 at 85.2 EAST; launched by a Zenith 3 vehicle, this satellite will embed 22 Ku-BAND Transponders (and 8 for backup). The INTELSAT 15 high power Ku-band payload will provide video and data services for the Middle East, Indian Ocean Regions and Russia. INTELSAT 15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

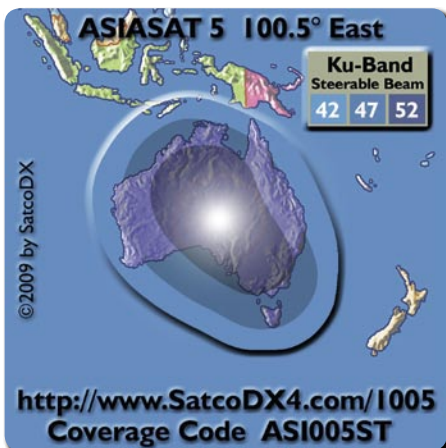
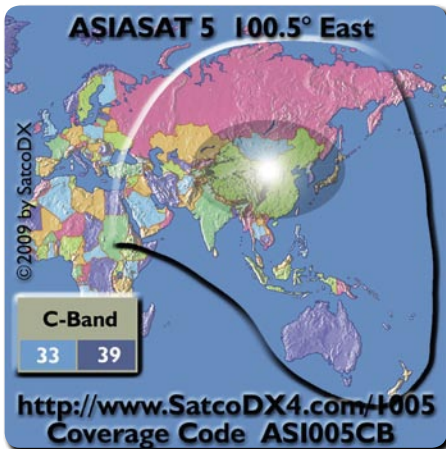


ASIASAT 5

June 2009

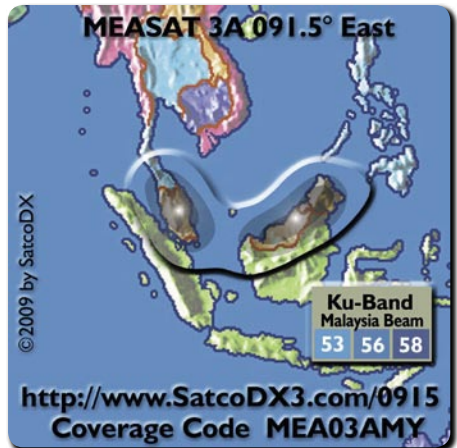
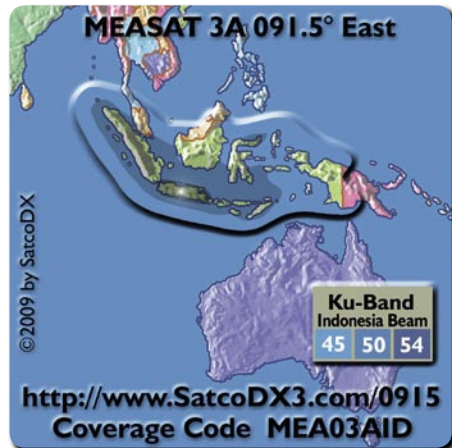
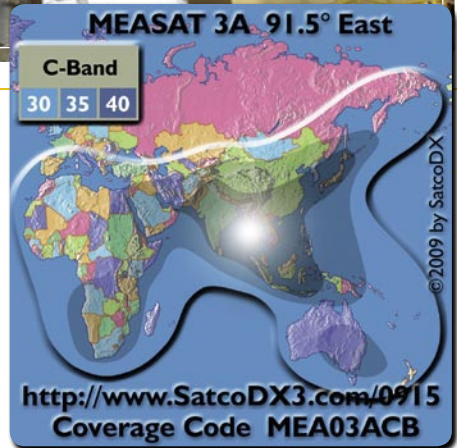
ASIASAT 5 C-band footprint will offer an extensive pan-Asian coverage and its high power Ku-band beams will focus on both East and South Asia, with a steerable beam that will cover anywhere within ASIASAT 5 geographic coverage. ASIASAT 5 has a sophisticated Ku-band inter-beam switching which provides 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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Fax: +91-11-22300799
e-mail: nr@spacelinkindia.com



Edited by
Branislav Pekic

EUROPE

EUROPE

NSS-9 SATELLITE SUCCESSFULLY LAUNCHED

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

ASTRA 1M READY FOR OPERATION

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

170 MILLION HDTV EUROPEAN HOUSEHOLDS BY 2013

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

AUSTRIA

TELEKOM AUSTRIA TOPS 63.800 IPTV SUBSCRIBERS

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

BOSNIA-HERZEGOVINA

BH TELECOM SIGNS IPTV/VOIP DEAL

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

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

FRANCE

SES ASTRA AND GLOBECAST DISTRIBUTE ORANGE TV

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

FRENCH IPTV HOUSEHOLDS TOP 5.64 MILLION

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

GERMANY

GERMANY CLOSES 2008 WITH 536.000 IPTV SUBSCRIBERS

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

ITALY

TISCALI CANCELS IPTV SERVICE

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

RUSSIA

PLATFORMAHD BOOSTS CAPACITY ON EUROBIIRD 9

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

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

ARIANE TO LAUNCH YAMAL SATELLITES

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

EXPRESS SATELLITES SUCCESSFULLY LAUNCHED

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

SPAIN

TV3 and IB3 STUDY JOINT IPTV CHANNEL

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

TURKEY

MEDIA REGULATOR PREPARES GROUND FOR IPTV

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

UNITED KINGDOM

BBC, ITV AND BT TO DEVELOP IPTV STANDARD

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

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

VIRGIN MEDIA TO LAUNCH FOUR HDTV CHANNELS

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

AVANTI TO LAUNCH SATELLITE

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

UK LEADS HDTV TAKE-UP

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

HD TERRESTRIAL TESTS LAUNCH IN LONDON

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

NORTH AMERICA

CANADA

SASKTEL TO DEPLOY MARINER'S IPTV PLATFORM

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

BELL TV OFFERS NEW BOXES FOR HD SUBSCRIBERS

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

UNITED STATES

RAINBOW DROPS VOOM HD SERVICE

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

ZCOM NETWORKS TO INTEGRATE IPTV WITH SATELLITE

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

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DISH NETWORK INTRODUCES SLINGBOX TECHNOLOGY

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

NEULION LAUNCHES NEW IPTV HD BOX

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

VERIZON FIOS WITH 1.9 MILLION IPTV SUBSCRIBERS

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

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

TIME WARNER WITH 100 HD CHANNEL IN NY

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

17 MILLION HDTV HOUSEHOLDS DO NOT WATCH HD

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

SPACE SYSTEMS/LORAL TO BUILD INTELSAT 17 SATELLITE

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

LATIN AMERICA

ARGENTINA

TELEFONICA LAUNCHES VOD TESTS

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

TELPIN LAUNCHES IPTV SERVICE

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

COLOMBIA

UNE ENDS 2008 WITH 30.000 IPTV SUBSCRIBERS

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



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NETHERLAND ANTILLES

UTS CURACAO DELIVERS MORE HD WITH RGB NETWORKS

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

URUGUAY

ANTEL TO LAUNCH IPTV

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

ASIA

MIDDLE EAST SATELLITE REVENUES TOP US\$ 752 MILLION

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

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

JAPAN HDTV LEADER IN ASIA

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

SMARTSAT FIRST PRIVATE SATELLITE COMPANY

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

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

ASTRIUM AND THALES TO DELIVER NEW ARABSAT SATELLITES

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

CHINA

ZHUJIANG DIGITAL OPTS FOR MICROSOFT MEDIAROOM

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

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

IPTV SUBSCRIBERS UP 100 PERCENT IN 2008

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

INDIA

BHARTI AIRTEL LAUNCHES IPTV SERVICES

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

BSNL ANNOUNCES INTERACTIVE TV ON IPTV

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

INDONESIA

RUSSIAN COMPANY TO BUILD TELKOM 3 SATELLITE

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

MOROCCO

MAROC TELECOM WITH 10,000 IPTV SUBSCRIBERS

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

THE PHILIPPINES

PLDT TO LAUNCH DTH SERVICE

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

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

SOUTH KOREA

LG DACOM LAUNCHES IPTV SERVICE

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

SK BROADBAND SEEKS IPTV LEADERSHIP SPOT

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

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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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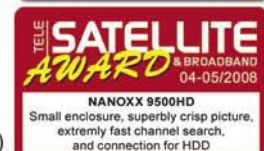
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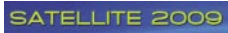
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www.ccbn.tv



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

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www.satellite2009.com



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

Middle East Communications Exhibition, Forum, TV
Abu Dhabi National Exhibition Centre, Abu Dhabi, UAE
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- **26 - 28 May 2009: ANGACABLE 2009**

Tradefair for Cable, Broadband and Satellite
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#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
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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
12.226 V IBB VOA RFERL Rad	27500	12.226 V IBB VOA RFERL Rad	27500	12.226 V IBB VOA RFERL Rad	27500	12.226 V IBB VOA RFERL Rad	27500	12.226 V IBB VOA RFERL Rad	27500	12.226 V IBB VOA RFERL Rad	27500	12.226 V IBB VOA RFERL Rad	27500	12.226 V IBB VOA RFERL Rad

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● 11.449 H News 24 27500	11.596 H DORCELT 30000	11.534 H TCM 30000	11.797 H PREMIERE 1 27500	12.012 V MOTORS TV 27500	12.574 H KINK FM 22000	12.090 H TELETOON+1 27500
● 11.449 H Ora News 27500	11.596 H Equidia 30000	11.534 H TELE REUNION 30000	11.797 H PREMIERE 2 27500	12.012 V TELE MELODY 27500	12.574 H NL-Radio 1 22000	12.090 H TPS STAR 27500
● 11.449 H RTV Z1 27500	11.596 H Eurosport 30000	11.534 H TEMPO/FRANCE O 30000	11.797 H PREMIERE 3 27500	12.012 V TRACE TV 27500	12.574 H NL-Radio 5 22000	12.090 V W9 27500
● 11.449 H SuperSport 1 27500	11.596 H Eurosport 2 30000	11.534 H TMC 27500	11.797 H PREMIERE 4 27500	12.012 V A LA CARTE 10 27500	12.574 H NL-Radio 6 22000	12.110 H MOR S-Anhalt 27500
● 11.449 H SuperSport 2 27500	● 11.596 H EVENTS 30000	11.534 H TRACE 30000	11.797 H PREMIERE KRIMI 27500	12.012 V A LA CARTE 11 27500	12.574 H Radio Veronica 22000	12.110 H MDR Sachsen 27500
● 11.449 H SuperSport 3 27500	11.596 H EXTREME SPORTS 30000	11.534 H TV S 30000	11.817 V C CINEMA EMOTION 27500	12.012 V CINE+ 27500	12.574 H RadioGold 22000	12.110 H MDR Thüringen 27500
● 11.449 H SuperSport 4 27500	11.596 H Highbrow 30000	11.534 H VOYAGE 30000	11.817 V C CINEMA PRISON 27500	12.012 V A LA CARTE 12 27500	12.574 H Radio538 22000	12.110 H MDR'S HH 27500
● 11.449 H SuperSport 5 27500	11.596 H Hifosport 30000	11.575 H ANTENNE REUNION 30000	11.817 V HISTOIRE 27500	12.031 H 13 TH STREET 27500	12.574 H RNW1 22000	12.110 H NDR FS MV 27500
● 11.449 H TVSH 27500	11.596 H KANAL AUSTRAL 30000	11.575 H BBC WORLD 30000	11.817 V I TELE 27500	● 12.031 H BIG BROTHER 27500	12.574 H RNW2 22000	12.110 H NDR FS NDS 27500
East Africa	11.596 H LCI 30000	11.575 H CANAL+ FAMILY 30000	11.817 V JIMMY 27500	12.031 H BLUE MOVIE 27500	12.574 H RNW3 22000	12.110 H NDR FS NDS 27500
EUTELSAT W2	11.596 H M6 Music Black 30000	11.575 H CUISINE TV 30000	11.817 V LA CHAINE METEO 27500	12.031 H MGM 27500	12.574 H Sky Radio 22000	12.110 H rbb Berlin 27500
EU2E1	11.596 H M6 Music Hits 30000	11.575 H DISNEY CINEMAGIC 30000	11.817 V PARIS PREMIERE 27500	12.031 H SCI FI 27500	12.694 H WDR Aachen 22000	12.110 H rbb Brandenburg 27500
EUTELSAT W2, 01.6° East	11.596 H NATIONAL GEO 30000	11.575 H EURONEWS 30000	11.817 V SEASONS 27500	12.031 H PREMIERE DIREKT 27500	12.694 H WDR Bonn 22000	12.110 H SWR Fernsehen RP 27500
	11.596 H TV Breizh 30000	11.575 H GAME ONE 30000	11.817 V SPORT+ 27500	12.305 H Animal Planet 27500	12.694 H WDR Duisburg 22000	● 12.110 H ARD-Data-2 27500
	11.596 H USHUAIA TV 30000	11.575 H LCP 30000	11.817 V EURONEWS 27500	12.305 H Discovery Channel 27500	12.694 H WDR Huppertal 22000	12.129 V A LA CARTE 1 27500
	● 11.596 H Wdr 50M 30000	11.575 H MCM POP 30000	11.817 V MEZZO 27500	● 12.305 H Extreme Sports 27500	● 12.694 H ARD HD 22000	12.129 V A LA CARTE 15 27500
	11.596 H PRIVATE SPICE 30000	11.575 H MCM TV 30000	11.817 V MEZZO 27500	12.305 H HBO Comedy 27500	12.694 H EUROSPORT HD 22000	12.129 V A LA CARTE 14 27500
	11.596 H TFS 30000	11.575 H MTV 30000	● 11.876 H AXN Action 27500	12.305 H HBO Comedy 27500	12.694 H USHUAIA TV HD 22000	12.129 V A LA CARTE 2 27500
	11.596 H TFS FOOT 30000	11.575 H PLANETE NO LIMIT 30000	11.876 H BOOMERANG (a/P) 27500	11.778 H MTVNHD 27500	11.778 H Sky Radio 27500	12.129 V A LA CARTE 3 27500
	11.596 H TFS Star 30000	11.575 H SEASONS 30000	11.876 H DISNEY PLAYHOUSE 27500	11.778 V Boomerang 27500	11.778 V Boomerang 27500	12.129 V A LA CARTE 4 27500
	11.596 H TRAC TROPICAL 30000	● 11.575 H SPORT+ 30000	11.876 H DISNEY TOON (P) 27500	12.305 H HBO Comedy 27500	11.778 H Cartoon Network 27500	12.129 V A LA CARTE 5 27500
	11.596 H TV Breizh 30000	11.575 H TEST 30000	11.876 H ECLIPS (a/P) 27500	12.305 H National Geographic 27500	11.778 H TCM 27500	12.129 V A LA CARTE 6 27500
	11.596 H USHUAIA TV 30000	11.575 H TEVA 30000	11.876 H KINGWELL TV (P) 27500	12.305 H NOVA SPORT 27500	11.778 H TVBS 27500	12.129 V A LA CARTE 7 27500
	11.596 H Wdr 50M 30000	11.575 H XXL 30000	11.876 H ROMANCE TV 27500	12.305 H Zone Reality 27500	11.778 V CNR HD 27500	12.129 V A LA CARTE 8 27500
	11.596 H ZEE CINEMA 30000	11.575 H (Empty) 30000	11.876 H sportdigital.tv 27500	12.383 H CT1 27500	11.778 H CNR Radio 27500	12.129 V A LA CARTE 9 27500
	11.596 H ZEE TV 30000	● 11.575 H CANAL EVENMENT 30000	11.876 H TCM (a/P) 27500	12.383 H CT2 27500	11.876 H Bayerisches FS Nord 27500	12.149 H BO 4 27500
40 AS 10	11.596 H Europe 1 30000		11.895 V STAR XL LIVE 27500	12.383 H CT4 27500	11.876 H Bayerisches FS Süd 27500	12.149 H PPH 27500
40 AS 10	11.596 H Wdr 50M 30000		● 11.895 V CNR CINEMA CLUB 27500	12.383 H Eurosport 2 27500	11.876 H Bayerisches FS Süd 27500	12.149 H PREMIERE AUSTRIA 27500
40 AS 10	11.596 H Nostalgie 30000		11.895 V M6 27500	12.383 H Filmuzum 27500	11.876 H Das Erste 27500	12.149 H Alpenregion TVX 27500
40 AS 10	11.596 H Radio Classique 30000	11.720 H PREMIERE FILMCLAS 27500	11.895 V MCM 27500	12.383 H NOVA Cinema 27500	11.876 H h-fernsehen 27500	12.149 H Der Schmuckkanal 27500
40 AS 10	11.596 H Radio Plus 30000	11.720 H PREMIERE FILMFEST 27500	11.895 V MCM POP 27500	12.383 H Prima TV 27500	11.876 H SWR Fernsehen BW 27500	12.149 H GDD Channel 27500
40 AS 10	11.596 H Radio Reunion 30000	11.720 H PREMIERE NOSTALGI 27500	11.895 V MCM TOP 27500	12.383 H TV Baranov 27500	11.778 H SWR Fernsehen HD 27500	12.149 H HOPE Channel deutsch 27500
40 AS 10	11.596 H Radio Tana 30000	11.720 H PREMIERE SPORT PO 27500	● 11.895 V TELE MAISON 27500	12.383 H TV JOJ 27500	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.596 H RTA Gasy Radio 30000	11.739 V GAME ONE 27500	11.895 V TFI 27500	12.383 H TV Markiza 27500	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.596 H RTL 30000	11.739 V MTV Dance 27500	11.895 V VIRGIN 17 27500	12.383 H TV Nova 27500	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.596 H RTL 30000	11.739 V MTV Base 27500	11.934 V CANAL J 27500	12.383 H XXX Xtreme 27500	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.596 H Sport O FM 30000	11.739 V MTV Dance 27500	11.934 V CUISINE TV 27500	12.383 H CT4 27500	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.596 H Top FM 30000	11.739 V MTV Base 27500	11.934 V EUROSPORT 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.596 H MIM Mayotte 30000	11.739 V MTV Hits 27500	11.934 V FILLES TV 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	● 11.658 H CANAL+ 30000	11.739 V MTV Hits 27500	11.934 V LCI 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA 30000	11.739 V MTV Hits 27500	11.934 V PLANETE 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ SPORT 30000	11.739 V MTV Hits 27500	11.934 V PLANETE JUNIORS 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ EMOTION 30000	11.739 V MTV Hits 27500	11.934 V SCI FI 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PRISON 30000	11.739 V MTV Hits 27500	11.934 V TUI 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.934 V VOYAGE 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV EURO 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.658 H CANAL+ CINEMA PREMIER 30000	11.739 V MTV Hits 27500	11.973 V MTV Music 27500	12.515 H Film1.2 22000	11.876 H SWR Fernsehen HD 27500	12.149 H H TV SHOP 27500
40 AS 10	11.					

Satellite Global Satellite Chart 04/2009

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	12.963 H Spass im TV	22000
12.207 V BEUR FM	27500	12.265 H WDR 2 Klassik	27500	12.963 H WDR 2	22000
12.207 V BFM	27500	12.265 H WDR 3	27500	12.963 H WDR 3	22000
12.207 V CANALSAT RADIOS	27500	12.265 H WDR 4	27500	12.963 H WDR 4	22000
12.207 V CHERIE FM	27500	12.265 H WDR 5	27500	12.963 H Uchi's TV	22000
12.207 V CONTACT FM	27500	12.265 H WDR Event	27500	12.963 H Uchi's Schwerm	22000
12.207 V COULEUR 3	27500	12.265 H WDR Funhaus Europa	27500	12.963 H WDR 1	22000
12.207 V EUROPE 1	27500	12.265 H YDF FM	27500	12.963 H Weiber TV	22000
12.207 V FP	27500	12.265 H XXL	27500	12.963 H OE1	22000
12.207 V FRANCE BLEU HD	27500	12.265 H ABOTEURS	27500	12.963 H OE2	22000
12.207 V FRANCE CULTURE	27500	12.265 H AB1	27500	12.963 H OE1	22000
12.207 V FRANCE INFO	27500	12.265 H ACTION	27500	12.963 H OE2	22000
12.207 V FRANCE INTER	27500	12.265 H ANIMAX	27500	12.963 H OE2	22000
12.207 V FRANCE MUSIQUE	27500	12.265 H ANIMAX	27500	12.963 H OE2	22000
12.207 V JAZZ RADIO	27500	12.265 H CINE POLAR	27500	12.963 H OE2	22000
12.207 V LE MOUV'	27500	12.265 H DORCEL TV	27500	12.963 H OE2	22000
12.207 V MC DUALITY	27500	12.265 H EGYCLOPEDIA	27500	12.963 H OE2	22000
12.207 V MCR	27500	12.265 H ESCAPADE	27500	12.963 H OE2	22000
12.207 V NOSTALGIE	27500	12.265 H MANGAS	27500	12.963 H OE2	22000
12.207 V NRJ	27500	12.265 H RTL9	27500	12.963 H OE3	22000
12.207 V OUI FM	27500	12.265 H toute L'HISTOIRE	27500	12.963 H RADIO MARIA	22000
12.207 V PARENTHÈSE RADIO	27500	12.265 H NRTI	27500	12.963 H O1 International	22000
12.207 V RADIO 1	27500	12.265 H MOSAÏQUE C+	27500	12.963 H ATK	22000
12.207 V RADIO 2	27500	12.265 H ONZEO	27500	12.963 H BUNDLESIG 6	22000
12.207 V RADIO 3	27500	12.265 H PRIVATE SPICE	27500	12.962 H ORF1	22000
12.207 V RADIO ALPHA	27500	12.265 H YACHT AND SAIL	27500	12.962 H ORF2	22000
12.207 V RADIO COURTOIS	27500	12.265 H CASH TV	27500	12.962 H ORF3	22000
12.207 V RADIO FG	27500	12.265 H MOSA 2	27500	12.962 H ORF4	22000
12.207 V RADIO FRANCE	27500	12.265 H MOSA 3	27500	12.962 H ORF5	22000
12.207 V RADIO INTI	27500	12.265 H MOSA 4	27500	12.962 H ORF6	22000
12.207 V RADIO NET 2	27500	12.265 H MOSA 5	27500	12.962 H ORF7	22000
12.207 V RADIO LATINA	27500	12.265 H MOSAÏQUE	27500	12.962 H ORF8	22000
12.207 V RADIO NOTRE-DAME	27500	12.265 H CDM12	27500	12.962 H ORF9	22000
12.207 V RADIO NOVA	27500	12.265 H (Empy)	27500	12.962 H ORF10	22000
12.207 V RADIO 2	27500	12.265 H Antenne1	27500	12.962 H ORF11	22000
12.207 V RADIO 3	27500	12.265 H CartoonTCM	27500	12.962 H ORF12	22000
12.207 V RADIO 3/SHALOM	27500	12.265 H DISCOVERY	27500	12.962 H HITRADIO OE3	22000
12.207 V RF	27500	12.265 H EUROSPORT	27500	12.962 H HITRADIO OE3	22000
12.207 V RHINT	27500	12.265 H HitRank	27500	12.962 H JAZZ	22000
12.207 V RIF MULTILINGUE	27500	12.265 H RTL	27500	12.962 H JAZZ INTERNATI	22000
12.207 V RIRE & CHANSONS	27500	12.265 H RTL5	27500	12.962 H AIRING TV	22000
12.207 V RMC	27500	12.265 H RTL6	27500	12.962 H BFM TV	22000
12.207 V SKYROCK	27500	12.265 H RTL7	27500	12.962 H Cubavisión Interacti	22000
12.207 V SUD RADIO	27500	12.265 H RTL8	27500	12.962 H D18	22000
12.207 V TSF	27500	12.265 H RTL9	27500	12.962 H Extremadura TV	22000
12.207 V VIBRATION	27500	12.265 H RTL10	27500	12.962 H NHK WORLD TV	22000
12.207 V VIRGIN RADIO	27500	12.265 H RTL11	27500	12.962 H NRJ Paris	22000
12.207 V VOLTAJE	27500	12.265 H RTL12	27500	12.962 H NRJ Records	22000
12.207 V WRN	27500	12.265 H RTL13	27500	12.962 H NRJ 2	22000
12.227 H EuroNews	27500	12.265 H RTL14	27500	12.962 H NRJ 3	22000
12.227 H Eurosport	27500	12.265 H RTL15	27500	12.962 H NRJ 4	22000
12.227 H HESE2 Digital	27500	12.265 H RTL16	27500	12.962 H NRJ 5	22000
12.227 H MTV AUSTRIA	27500	12.265 H RTL17	27500	12.962 H NRJ 6	22000
12.227 H NICK AUSTRIA	27500	12.265 H RTL18	27500	12.962 H NRJ 7	22000
12.227 H RTL Austria	27500	12.265 H RTL19	27500	12.962 H NRJ 8	22000
12.227 H RTL2 Austria	27500	12.265 H RTL20	27500	12.962 H NRJ 9	22000
12.227 H Super RTL	27500	12.265 H RTL21	27500	12.962 H NRJ 10	22000
12.227 H VOX Austria	27500	12.265 H RTL22	27500	12.962 H NRJ 11	22000
12.246 V Bive	27500	12.265 H RTL23	27500	12.962 H NRJ 12	22000
12.246 V 666 Girls TV	27500	12.265 H RTL24	27500	12.962 H NRJ 13	22000
12.246 V At1eshop	27500	12.265 H RTL25	27500	12.962 H NRJ 14	22000
12.246 V ACHTING Erotik-TV	27500	12.265 H RTL26	27500	12.962 H NRJ 15	22000
12.246 V ACHTING Singles TV	27500	12.265 H RTL27	27500	12.962 H NRJ 16	22000
12.246 V Amateur SMS Chat	27500	12.265 H RTL28	27500	12.962 H NRJ 17	22000
12.246 V Amore TV	27500	12.265 H RTL29	27500	12.962 H NRJ 18	22000
12.246 V AstroredTV	27500	12.265 H RTL30	27500	12.962 H NRJ 19	22000
12.246 V Beate User Sexy Sat	27500	12.265 H RTL31	27500	12.962 H NRJ 20	22000
12.246 V Bi-Sex TV	27500	12.265 H RTL32	27500	12.962 H NRJ 21	22000
12.246 V Blitzkontakt TV	27500	12.265 H RTL33	27500	12.962 H NRJ 22	22000
12.246 V DA-AnlageTV	27500	12.265 H EUROSPORT HD	27500	12.962 H NRJ 23	22000
12.246 V Deltine	27500	12.265 H (Empy)	27500	12.962 H NRJ 24	22000
12.246 V DELUXE MUSIC	27500	12.265 H 13EME RUE	27500	12.962 H NRJ 25	22000
12.246 V DIE NEUE ZEIT TV	27500	12.265 H CINEMA CLASSIC	27500	12.962 H NRJ 26	22000
12.246 V DMAX	27500	12.265 H CINEMA FAMILI	27500	12.962 H NRJ 27	22000
12.246 V Drib Television	27500	12.265 H CINEMA	27500	12.962 H NRJ 28	22000
12.246 V Eros TV	27500	12.265 H EUROAUDIO INFO	27500	12.962 H NRJ 29	22000
12.246 V EroticDome	27500	12.265 H JETIX	27500	12.962 H NRJ 30	22000
12.246 V flirtasms TV	27500	12.265 H LEQUIPE TV	27500	12.962 H NRJ 31	22000
12.246 V Frank SatNet	27500	12.265 H FRANKSAT LEO	27500	12.962 H NRJ 32	22000
12.246 V Friends TV	27500	12.265 H NRJ 12	27500	12.962 H NRJ 33	22000
12.246 V Gebrauchswagen TV	27500	12.265 H PLANETE NO LIMIT	27500	12.962 H NRJ 34	22000
12.246 V Herzschlag9	27500	12.265 H REAL TIME	27500	12.962 H NRJ 35	22000
12.246 V Hot Girls TV	27500	12.265 H A&E Festival HD	27500	12.962 H NRJ 36	22000
12.246 V Kanal XXIV	27500	12.265 H Kanal XXIV	27500	12.962 H NRJ 37	22000
12.246 V Liebesglück TV	27500	12.265 H Kanal XXIV	27500	12.962 H NRJ 38	22000
12.246 V Liebestraum TV	27500	12.265 H WDR Bielefeld	27500	12.962 H NRJ 39	22000
12.246 V LokaSat	27500	12.265 H REAL TIME	27500	12.962 H NRJ 40	22000
12.246 V mainstreet tv	27500	12.265 H A&E Festival HD	27500	12.962 H NRJ 41	22000
12.246 V Malcorra TV	27500	12.265 H Kanal XXIV	27500	12.962 H NRJ 42	22000
12.246 V MehrGold TV	27500	12.265 H WDR Bielefeld	27500	12.962 H NRJ 43	22000
12.246 V münchen tv/RF	27500	12.265 H WDR Dortmund	27500	12.962 H NRJ 44	22000
12.246 V ONY Regional	27500	12.265 H WDR Düsseldorf	27500	12.962 H NRJ 45	22000
12.246 V Partnersuche TV	27500	12.265 H WDR Essen	27500	12.962 H NRJ 46	22000
12.246 V Po8	27500	12.265 H WDR Münster	27500	12.962 H NRJ 47	22000
12.246 V Pro Erotik TV	27500	12.265 H WDR Siegen	27500	12.962 H NRJ 48	22000
12.246 V SAT ErotikTV	27500	12.265 H WDR Trier	27500	12.962 H NRJ 49	22000
12.246 V SexyGirls TV	27500	12.265 H WDR Trier	27500	12.962 H NRJ 50	22000
12.246 V tiral tv	27500	12.265 H WDR Trier	27500	12.962 H NRJ 51	22000
12.246 V Traumkontakt tv	27500	12.265 H WDR Trier	27500	12.962 H NRJ 52	22000
12.246 V TVM/WTW	27500	12.265 H WDR Trier	27500	12.962 H NRJ 53	22000
12.246 V Venusclub TV	27500	12.265 H WDR Trier	27500	12.962 H NRJ 54	22000
12.246 V Voyeur TV	27500	12.265 H WDR Trier	27500	12.962 H NRJ 55	22000
12.246 V Zack Erotik TV	27500	12.265 H WDR Trier	27500	12.962 H NRJ 56	22000
12.246 V DELUXE LOUNGE	27500	12.265 H WDR Trier	27500	12.962 H NRJ 57	22000
12.246 V DELUXE RADIO	27500	12.265 H WDR Trier	27500	12.962 H NRJ 58	22000
12.246 V TEDDY	27500	12.265 H WDR Trier	27500	12.962 H NRJ 59	22000
12.246 V BR-alpha	27500	12.265 H WDR Trier	27500	12.962 H NRJ 60	22000
12.246 V SR Fernsehen	27500	12.265 H WDR Trier	27500	12.962 H NRJ 61	22000
12.246 V 11LIVE	27500	12.265 H WDR Trier	27500	12.962 H NRJ 62	22000
12.246 V 11LIVE diggi	27500	12.265 H WDR Trier	27500	12.962 H NRJ 63	22000
12.246 V Antenne Brandenburg	27500	12.265 H WDR Trier	27500	12.962 H NRJ 64	22000
12.246 V BS aktuell	27500	12.265 H WDR Trier	27500	12.962 H NRJ 65	22000
12.246 V BS plus	27500	12.265 H WDR Trier	27500	12.962 H NRJ 66	22000
12.246 V Bayern 1	27500	12.265 H WDR Trier	27500	12.962 H NRJ 67	22000
12.246 V Bayern 2	27500	12.265 H WDR Trier	27500	12.962 H NRJ 68	22000
12.246 V BAYERN 3	27500	12.265 H WDR Trier	27500	12.962 H NRJ 69	22000
12.246 V BAYERN KLASSIK	27500	12.265 H WDR Trier	27500	12.962 H NRJ 70	22000
12.246 V BAYERN plus	27500	12.265 H WDR Trier	27500	12.962 H NRJ 71	22000
12.246 V BR Verkehr	27500	12.265 H WDR Trier	27500	12.962 H NRJ 72	22000
12.246 V Bremen Eins	27500	12.265 H WDR Trier	27500	12.962 H NRJ 73	22000
12.246 V Bremen Vier	27500	12.265 H WDR Trier	27500	12.962 H NRJ 74	22000
12.246 V DASSDING	27500	12.265 H WDR Trier	27500	12.962 H NRJ 75	22000
12.246 V DW 1	27500	12.265 H WDR Trier	27500	12.962 H NRJ 76	22000
12.246 V DW 4	27500	12.265 H WDR Trier	27500	12.962 H NRJ 77	22000
12.246 V Fritz	27500	12.265 H WDR Trier	27500	12.962 H NRJ 78	22000
12.246 V hr INFO	27500	12.265 H WDR Trier	27500	12.962 H NRJ 79	22000
12.246 V hr Info+	27500	12.265 H WDR Trier	27500	12.962 H NRJ 80	22000
12.246 V hr1	27500	12.265 H WDR Trier	27500	12.962 H NRJ 81	22000
12.246 V hr2	27500	12.265 H WDR Trier	27500	12.962 H NRJ 82	22000
12.246 V hr3	27500	12.265 H WDR Trier	27500	12.962 H NRJ 83	22000
12.246 V hr4	27500	12.265 H WDR Trier	27500	12.962 H NRJ 84	22000
12.246 V Inforado	27500	12.265 H WDR Trier	27500	12.962 H NRJ 85	22000
12.246 V JUMP	27500	12.265 H WDR Trier	27500	12.962 H NRJ 86	22000
12.246 V Kulturadio	27500	12.265 H WDR Trier	27500	12.962 H NRJ 87	22000
12.246 V MDR FIGARO	27500	12.265 H WDR Trier	27500	12.962 H NRJ 88	22000
12.246 V MDR Info	27500	12.265 H WDR Trier	27500	12.962 H NRJ 89	22000
12.246 V MDR KLASSIK	27500	12.265 H WDR Trier	27500	12.962 H NRJ 90	22000
12.246 V MDR SPUNNIK	27500	12.265 H WDR Trier	27500	12.962 H NRJ 91	22000
12.246 V MDR SACHS-ANHALT	27500	12.265 H WDR Trier	27500	12.962 H NRJ 92	22000
12.246 V MDR1 THURGEN	27500	12.265 H WDR Trier	27500	12.962 H NRJ 93	22000
12.246 V MDR N-joy	27500	12.265 H WDR Trier	27500	12.962 H NRJ 94	22000
12.246 V NDR 1 Niedersachsen	27500	12.265 H WDR Trier	27500	12.962 H NRJ 95	22000
12.246 V NDR 1 Radio Mio	27500	12.265 H WDR Trier	27500	12.962 H NRJ 96	22000
12.246 V NDR 2	27500	12.265 H WDR Trier	27500	12.962 H NRJ 97	22000
12.246 V NDR 3	27500	12.265 H WDR Trier	27500	12.962 H NRJ 98	22000
12.246 V NDR 90.3	27500	12.265 H WDR Trier	27500	12.962 H NRJ 99	22000
12.246 V NDR Info Spez.	27500	12.265 H WDR Trier	27500	12.962 H NRJ 100	22000
12.246 V NDR Kultur	27500	12.265 H WDR Trier	27500	12.962 H NRJ 101	22000
12.246 V NDR KulturNord	27500	12.265 H WDR Trier	27500	12.962 H NRJ 102	22000
12.246 V NDRwestradio	27500	12.265 H WDR Trier	27500	12.962 H NRJ 103	22000
12.246 V ndr3	27500				

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● 11.720 H EWTN Europe	27500
● 11.720 H RTL Shop	27500
● 11.720 H TIMM TV	27500
● 11.720 H Voyages Television	27500
● 11.720 H XHOME	27500
● 11.720 H YAVIDO CLIPS	27500
● 11.797 H EUROSPORT HD	27500
● 11.797 H Nova HD	27500
● 11.797 H JOJ PLUS	27500
● 11.797 H TV Barrandov	27500
● 11.797 H TV JOJ	27500
● 11.797 H Z1	27500
● 11.856 V eon HD	27500
● 11.856 V NGC HD	27500
● 11.856 V BravaHD TV	27500
● 11.856 V Discovery HD	27500
● 11.856 V MelodyZen TV	27500

North Africa, Middle East	
EUROBIRD 2	
25.5 East	
EURO2F3	
EUROBIRD 2 025.5° East	
Ku-Band	
40 46 51	
http://www.SatcoDX2.com/0255	
Coverage Code EUB002F3	
● 11.012 H BLOOMBERG	27500
● 11.012 H CINEMA CITY	27500
● 11.012 H FASHION TV	27500
● 11.012 H MGM	27500
● 11.012 H SERIES	27500
● 11.012 H SPACE TOON	27500
● 11.012 H SUPER MOVIES	27500
● 11.012 H TVMAX	27500
● 11.012 H TVMAX PROMO	27500
● 11.055 H AL RIYADYAH	27500
● 11.055 H AMERICA PLUS	27500
● 11.055 H C-SPAN	27500
● 11.055 H CNBC-US	27500
● 11.055 H FOX NEWS	27500
● 11.055 H SUPER COMEDY	27500
● 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
● 11.055 H MONAWAT	27500
● 11.055 H MONTE CARLO	27500
● 11.055 H MOTOWN	27500
● 11.055 H POP	27500
● 11.055 H R&B	27500
● 11.055 H ROCK	27500
● 11.055 H SUPER GOLD	27500
● 11.055 H TARABYAT TV	27500
● 11.055 H VIRGIN RADIO	27500

● 11.075 H AL RIYADYAH	27500
● 11.075 H AMERICA PLUS	27500
● 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 V Al Hayat Series	27500
● 11.075 V Al Lubnania 128	27500
● 11.075 V Atlas 128	27500
● 11.075 V Awa! TV	27500
● 11.075 V DM TV 128	27500
● 11.075 V Family One	27500
● 11.075 V Harmony TV	27500
● 11.075 V MARHABA	27500
● 11.075 V MONJOM 4	27500
● 11.075 V Saja	27500
● 11.075 V Talemah	27500
● 11.075 V WATAN	27500
● 11.075 V WTV 128	27500
● 11.075 H BBC ARABIC	27500
● 11.075 H BBC ENGLISH	27500
● 11.075 H CLASSICAL	27500
● 11.075 H COUNTRY OF BLUES	27500
● 11.075 H DANCE	27500
● 11.075 H GMA DZBB	27500
● 11.075 H HITS	27500
● 11.075 H JAZZ	27500
● 11.075 H KHALIYATV	27500
● 11.075 H LITE FM	27500
● 11.075 H LOVE SONGS	27500
● 11.075 H MONAWAT	27500
● 11.075 H MONTE CARLO	27500
● 11.075 H MOTOWN	27500
● 11.075 H POP	27500
● 11.075 H R&B	27500
● 11.075 H ROCK	27500
● 11.075 H SUPER GOLD	27500
● 11.075 H TARABYAT TV	27500
● 11.075 H VIRGIN RADIO	27500

● 11.604 H CNN	27500
● 11.604 H DISCOVERY CHANNEL	27500
● 11.604 H DISCOVERY T&L	27500
● 11.604 H FOX SPORTS	27500
● 11.604 H SUPER COMEDY *2	27500
● 11.604 H TOON DISNEY	27500
● 11.604 H e-GMA DZBB	27500
● 11.604 H e-KHALIYATV	27500
● 11.604 H e-MONAWAT	27500
● 11.604 H e-TARABYAT	27500
● 11.623 V test	27500
● 11.623 V Al Athar 156	27500
● 11.623 V Al-Aqsa	27500
● 11.623 V ALKHAL TV	27500
● 11.623 V Auto one TV	27500
● 11.623 V Bin-Othaimen	27500
● 11.623 V Jasco	27500
● 11.623 V MART	27500
● 11.623 V NOOR AL HODA	27500
● 11.623 V Oscar Drama	27500
● 11.623 V Sada Al Islam	27500
● 11.623 V Salwa	27500
● 11.623 V SANA	27500
● 11.623 V Tour Al-Jannah	27500
● 11.623 V WESAL	27500
● 11.635 H Fann	14468
● 11.635 H Mik's Feed	14468
● 11.635 H Music Now	14468
● 11.635 H Salwa	14468
● 11.662 V AlSamar	27500
● 11.662 V Arrai	27500
● 11.662 V Auto One	27500
● 11.662 V Bahrain TV	27500
● 11.662 V HADI TV	27500
● 11.662 V IRAQ Economic	27500
● 11.662 V Karbla	27500
● 11.662 V Mihn-Art vision	27500
● 11.662 V Nour TV	27500
● 11.662 V Shabbabek	27500
● 11.662 V Stock TV	27500
● 11.662 V Supreme master	27500
● 11.662 V El Nour Radio	27500
● 11.681 H AL SAFFA	27500
● 11.681 H AL YAWM	27500
● 11.681 H CINEMA 1	27500
● 11.681 H CINEMA 2	27500
● 11.681 H CINEMA 3	27500
● 11.681 H CINEMA 4	27500
● 11.681 H GMA LIFE TV	27500
● 11.681 H GMA Pinoy TV	27500
● 11.681 H HISTORY CHANNEL	27500
● 11.681 H HOLLYWOOD	27500
● 11.681 H HBA TV	27500
● 11.681 H PINOY EXTREME	27500
● 11.681 H SERIES+4	27500
● 11.681 H SUPER MOVIES+1	27500
● 11.681 H TCM	27500
● 11.681 H GMA DZBS FM	27500

North Africa, Middle East

BADR3X
26.0 East

BADR3K
BADR-3 026.0° East

Ku-Band

44 46 50

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Coverage Code BADR03KB

11.727 H Algeria	27500
11.727 H Booyut Motmaena	27500
11.727 H Eritria	27500
11.727 H Mauritania	27500
11.727 H Hannibal	27500
11.727 H Libya Sport (Radia)	27500
11.727 H Libya TV	27500
11.727 H Morocco TV	27500
11.727 H Tunisia	27500
11.727 H Tunisia 21	27500
11.727 H Algeria R1	27500
11.727 H Algeria R2	27500
11.727 H Eritria R1	27500
11.727 H Mauritania R1	27500
11.727 H R- Tunisia- Culture	27500
11.727 H R- Tunisia- Internet	27500
11.727 H R- Tunisia- National	27500
11.727 H Zitouna Tunisia	27500
11.747 V A Thuraya	27500
11.747 V AAKAR	27500
11.747 V Al Jawhara TV	27500
11.747 V Alkawthar	27500
11.747 V ASNshop	27500
11.747 V Oman	27500
11.747 V Dyyun Jeddah	27500
11.747 V Saudi 1	27500
11.747 V Saudi 2	27500
11.747 V Tayba TV	27500
11.747 V RFI Radio	27500
11.747 V OMAN ENGLISH PROG	27500
11.747 V OMAN GENERAL PROG	27500
11.747 V OMAN YOUTH PROGRA	27500
11.747 V Radio RMC	27500
11.747 V Saudi 2 R1	27500
11.747 V Saudi R2	27500
11.785 V Al Shop	27500
11.785 V El Emrah	27500
11.785 V Future USA	27500
11.785 V Ghinwa	27500
11.785 V Sahn TV	27500
11.785 V Strike	27500
11.785 V Test 10	27500
11.785 V Test 11	27500
11.785 V Test 12	27500
11.785 V Test 13	27500
11.785 V Test 15	27500
11.785 V Test 16	27500
11.785 V Test 6	27500
11.785 V Test 8	27500
11.804 H Al Shop	27500
11.804 H ABU DHABI	27500

● 11.804 H ABU DHABI-E	27500
● 11.804 H AD Sports	27500
● 11.804 H AL Emrah	27500
● 11.804 H AlQuds TV	27500
● 11.804 H Sahn TV	27500
● 11.804 H Future USA	27500
● 11.804 H SHARAJAH TV	27500
● 11.804 H Strike	27500
● 11.804 H Poet	27500
● 11.804 H El Emrah	27500
● 11.804 H SHARAJAH TV	27500
● 11.804 H Star Academy	27500
● 11.804 H Test 1	27500
● 11.804 H Test 10	27500
● 11.804 H Test 11	27500
● 11.804 H Test 12	27500
● 11.804 H Test 13	27500
● 11.804 H Test 15	27500
● 11.804 H Test 2	27500
● 11.804 H Test 3	27500
● 11.804 H Test 4	27500
● 11.804 H Test 6	27500
● 11.804 H Test 8	27500
● 11.804 H Training	27500
● 11.804 H ABU DHABI RADIO	27500
● 11.804 H AD RADIO 1	27500
● 11.804 H ALAIN Athaan	27500
● 11.804 H ALATHAN Radio	27500
● 11.804 H EMARAT FM	27500
● 11.804 H Fujairah Athaan	27500
● 11.804 H LWA Athaan	27500
● 11.804 H QURAN QARIM	27500
● 11.804 H SHARAJAH RADIO	27500
● 11.804 H SOWT ALMUSICA	27500
● 11.823 V Thana Express	27500
● 11.843 H Al-Ressala	27500
● 11.843 H Arabaat Promotion Ch	27500
● 11.843 H Fox Movies	27500
● 11.843 H Info.Mohammad	27500
● 11.843 H Rotana Cinema	27500
● 11.843 H Rotana Clip	27500
● 11.843 H Rotana Music	27500
● 11.843 H Rotana Tarab	27500
● 11.843 H Rotana Zaman	27500
● 11.843 H Testa	27500
● 11.862 V A Ipha Shop	27500
● 11.862 V AL JAZEERA CHILD	27500
● 11.862 V Montada	27500
● 11.862 V Najah	27500
● 11.862 V Oman TV2	27500
● 11.862 V Ravee	27500
● 11.862 V Scope TV	27500
● 11.862 V Sharya TV	27500
● 11.862 V Test 4	27500
● 11.862 V Test 4-2	27500
● 11.862 V Test 4	27500
● 11.862 V Saudi Radio-1	27500
● 11.862 V Saudi Radio-2	27500
● 11.862 V Yara TV	27500
● 11.862 V ALKAWTHAR Radio	27500
● 12.015 V Oman Karim	27500
● 12.015 V Saudi Sport	27500
● 12.015 V Saudi TV	27500
● 12.015 V Saudi-2	27500
● 12.015 V European	27500
● 12.015 V Holy Quran	27500
● 12.015 V Radio-5	27500
● 12.015 V Saudi Radio-1	27500
● 12.015 V Saudi Radio-2	27500

BADR04KB

BADR-4 026.0° East

Ku-Band

44 47 53

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Coverage Code BADR04KB

11.823 V Future News	27500
11.823 V Future TV	27500
11.823 V Future USA	27500
11.823 V LBCI	27500
11.823 V OTV	27500
11.823 V Star Academy	27500
11.823 V TeleLiban	27500
11.823 V Test 5	27500
11.823 V Thana Express	27500
11.823 V Radio El Nour	27500
11.823 V Radio Orient	27500
11.919 H MBC int	27500
11.919 H Al-Arabiya	27500
11.919 H MBC Action	27500
11.919 H MBC MAX	27500
11.919 H MBC Persia	27500
11.919 H MBC1	27500
11.919 H MBC2	27500
11.919 H MBC3	27500
11.919 H MBC4	27500
11.919 H TXI TV	27500
11.919 H Jordan FM	27500
11.919 H MBC FM	27500
11.919 H MBC FM ER	27500
11.919 H Panjorjordan	27500
11.919 H Panorama	27500
11.919 H Testa	27500
11.938 V Al Hurra	27500
11.938 V Al Hurra Iraq	27500
11.938 V Hamaa TV	27500
11.938 V Ameen	27500
11.938 V AutoOne	27500
11.938 V Bab El Mawada	27500
11.938 V Hamaa TV	27500
11.938 V DiEl Promo 3	27500
11.938 V Done Deal TV	27500
11.938 V Fanoos	27500
11.938 V Radio Sawa Sudan	27500
11.938 V Mubasherat al Quran a	27500
11.938 V OTV	27500
11.938 V Rayhanaa TV	27500
11.938 V Romaneeya TV	27500
11.938 V Sharya TV	27500
11.938 V TEST	27500
11.938 V U-Mark	27500
11.938 V El Nour Radio	27500
11.938 V Radio Iraq north and	27500
11.938 V Radio Sawa Iraq	27500
11.938 V Radio Sawa Levant	27500
11.938 V Radio Sawa Sudan	27500
11.938 V HD VISION TV2	27500
11.938 V LUXE TV HD	27500
11.938 V Melody Zen HD	27500
11.938 V HD VISION TV2	27500
11.938 V HUB TV	27500
11.938 V LUXE TV	27500
11.938 V HD VISION TV	27500
11.938 V LUXE TV HD	27500
11.938 V Melody Zen HD	27500

11.958 H HD VISION TV2	27500
11.958 H TEST	27500
11.976 V Al Watan TV	27500
11.976 V Al Jazeera	27500
11.986 H AlAlam	27500
11.986 H AlMustakillah	27500
11.986 H Arabaat Promotional	27500
11.986 H ABC Arabic	27500
11.986 H CNBC Arabia	27

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			
12.029	H	AL HRMAIN	27500	3.882	H	AAKAR	27500	11.739	V	Bravo	27500	12.461	H	Vegas Pyramid	27500	10.738	V	BBC 1 E Mids	20000	11.261	H	Zone Sportx	27500	11.508	H	Games Slot 16	27500
12.029	H	AL MOUATA	27500	3.882	H	Al Jawhara	27500	11.739	V	Bravo+1	27500	12.461	H	WAP Brower+2	27500	10.788	V	BBC 1 East	20000	11.261	H	Zone Direct	27500	11.508	H	Games Slot 17	27500
12.029	V	ALDARAF Music	27500	3.882	H	Booyai Moolteena	27500	11.739	V	Bravo+1	27500	12.461	H	WAP Brower+2	27500	10.788	V	BBC 1 W West	20000	11.261	H	Zone Reality+1	27500	11.508	H	Games Slot 18	27500
12.029	V	Dunia TV	27500	3.882	H	Family TV	27500	11.739	V	Bravo	27500	12.461	H	WML HighPicos	27500	10.788	V	BBC 1 Yk Mids	20000	11.261	H	Zone News	27500	11.508	H	Games Slot 19	27500
12.029	V	EBONY TV	27500	3.882	H	Ouyou Jeddah	27500	11.739	V	Challenge	27500	12.461	H	WonderPercs	27500	10.788	V	BBC 1 Wk	20000	11.261	H	Zone Newstalk	27500	11.508	H	Games Slot 20	27500
12.029	V	El Sharq Al Rasool	27500	3.882	H	Al Mawakeel	27500	11.739	V	Living	27500	12.461	H	WAP Brower+2	27500	10.788	V	BBC 1 Wk	20000	11.261	H	Zone Newstalk	27500	11.508	H	Games Slot 21	27500
12.029	V	orient	27500	3.882	H	Sehriya	27500	11.739	V	LIVING	27500	11.973	V	Sony TV Asia	27500	10.788	V	ETVS	20000	11.307	H	Bravo 2	27500	11.527	V	Eden+1	27500
12.029	V	QRANNI TV	27500	3.882	H	Test	27500	11.739	V	LIVING+1	27500	12.031	H	bid tv	27500	10.788	V	ETVS	20000	11.307	H	Challenge+1	27500	11.527	V	Eden+1	27500
12.029	V	SAHAR TV	27500	3.882	H	Test1	27500	11.739	V	Living+1	27500	12.031	H	Ideal World	27500	10.803	H	BBC 1 Wales	20000	11.307	H	LIVING	27500	11.527	V	Eden+1	27500
12.029	V	Shahar Al Rasool	27500	3.882	H	Yana TV	27500	11.739	V	LIVING+1	27500	12.031	H	Free-drop TV	27500	10.803	H	BBC 1 Wales	20000	11.307	H	LIVING+1	27500	11.527	V	Eden+1	27500
12.029	V	TEAM TV	27500	3.882	H	Thuraya TV	27500	11.739	V	Test+1	27500	12.031	H	QVC QVC	27500	10.803	H	BBC 2 Wales	20000	11.307	H	Motors TV	27500	11.527	V	Eden+1	27500
12.029	V	Zoal TV	27500	3.882	H	Yara TV	27500	11.739	V	Trouble	27500	12.031	H	QVC Mosaic Test	27500	10.803	H	BBC 2 Wales	20000	11.307	H	MUTV	27500	11.527	V	Eden+1	27500
12.029	V	Coast FM	27500	4.040	H	AD Sports	27500	11.739	V	Trouble+1	27500	12.031	H	QVC Islamic Test	27500	10.803	H	ETV2	20000	11.307	H	UKTV Hory+1	27500	11.527	V	Eden+1	27500
12.029	V	Fajrah Radio	27500	4.040	H	Al Eshbaria	27500	11.817	V	Albtl	27500	12.031	H	QVC Test	27500	10.803	H	BBC 1	20000	11.307	H	Virgin+1	27500	11.527	V	Eden+1	27500
12.111	H	Al Eqtisada TV	27500	4.040	H	Dubai TV	27500	11.817	V	Dave	27500	12.031	H	QVC TSNOW	27500	10.803	H	BBC RSS	20000	11.307	H	Virgin+1	27500	11.527	V	Eden+1	27500
12.111	H	ALAAAN TV	27500	4.040	H	Ethiopia	27500	11.817	V	Eden	27500	12.031	H	speedupationTV	27500	10.818	V	BBC 1 NE A C	20000	11.307	H	XPLICIT XXX	27500	11.546	H	ARCI Digital	27500
12.111	H	ARIRANG	27500	4.040	H	IRA	27500	11.817	V	UKTV Sports 3	27500	12.031	H	UKTV Sports 3	27500	10.818	V	BBC 1 Oxford	20000	11.307	H	9X	27500	11.546	H	ARCI Digital	27500
12.111	H	ASHOROQTV	27500	4.040	H	Press TV	27500	11.817	V	UKTV Football	27500	12.031	H	Cartoonito	27500	10.818	V	BBC 1 S West	20000	11.307	H	9X	27500	11.546	H	ARCI Digital	27500
12.111	H	Decision Makers Tv	27500	4.040	H	IPRESS TV	27500	11.817	V	UKTV Sports 3	27500	12.031	H	UKTV Sports 3	27500	10.818	V	BBC 1 S West	20000	11.307	H	BET	27500	11.546	H	ARCI Digital	27500
12.111	H	Dubai Sports 2	27500	4.040	H	Riyadiah	27500	11.817	V	UKTV Football	27500	12.031	H	UKTV Sports 3	27500	10.818	V	BBC 1 S West	20000	11.307	H	BET	27500	11.546	H	ARCI Digital	27500
12.111	H	INFINITY 2	27500	4.040	H	Saudi-1	27500	11.817	V	UKTV Football	27500	12.031	H	UKTV Sports 3	27500	10.818	V	BBC 1 S West	20000	11.307	H	BET	27500	11.546	H	ARCI Digital	27500
12.111	H	INFINITY 2	27500	4.040	H	Saudi-2	27500	11.817	V	UKTV Football	27500	12.031	H	UKTV Sports 3	27500	10.818	V	BBC 1 S West	20000	11.307	H	BET	27500	11.546	H	ARCI Digital	27500
12.111	H	Jawna	27500	4.040	H	Saudi-2	27500	11.817	V	UKTV Football	27500	12.031	H	UKTV Sports 3	27500	10.818	V	BBC 1 S West	20000	11.307	H	BET	27500	11.546	H	ARCI Digital	27500
12.111	H	SHARQAIVA	27500	4.040	H	Shiopia RI	27500	11.817	V	UKTV Football	27500	12.031	H	UKTV Sports 3	27500	10.818	V	BBC 1 S West	20000	11.307	H	BET	27500	11.546	H	ARCI Digital	27500
12.130	V	4FUN	27500	4.024	H	BT15	4340	11.876	H	Animal Planet	27500	10.832	H	ITV1 Border	20000	10.832	H	ITV1 Border	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	Ahlubayt	27500	11.876	H	dis+	27500	11.876	H	dis+	27500	10.832	H	ITV1 Border	20000	10.832	H	ITV1 Border	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	disc:Knowledge	27500	11.876	H	disc:Knowledge	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	ALAAAN TV	27500	11.876	H	disc:Turbo	27500	11.876	H	disc:Turbo	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	ARRANG	27500	11.876	H	Discovery	27500	11.876	H	Discovery	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	ASHOROQTV	27500	11.876	H	disc:Y+1	27500	11.876	H	disc:Y+1	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	Decision Makers Tv	27500	11.876	H	HL1	27500	11.876	H	HL1	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	Dubai One	27500	11.876	H	Home & Health	27500	11.876	H	Home & Health	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	Dubai Racing	27500	11.876	H	Home & Health	27500	11.876	H	Home & Health	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	Dubai Sport	27500	11.876	H	Home & Living	27500	11.876	H	Home & Living	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	Dubai Sports 2	27500	11.876	H	7042	27500	11.876	H	7042	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	Dubai TV	27500	11.876	H	Mi	27500	11.876	H	Mi	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	INFINITY 2	27500	11.876	H	MTV BASE	27500	11.876	H	MTV BASE	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	INFINITY 2	27500	11.876	H	MTV DANCE	27500	11.876	H	MTV DANCE	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	Jawna	27500	11.876	H	MTV HITS	27500	11.876	H	MTV HITS	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	Marasil	27500	11.876	H	MTV ONE	27500	11.876	H	MTV ONE	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	Niat	27500	11.876	H	MTV ONE+1	27500	11.876	H	MTV ONE+1	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	Al Bahadradia	27500	11.876	H	MTV ONE+1	27500	11.876	H	MTV ONE+1	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	Al Bahadradia	27500	11.876	H	MTV ONE+1	27500	11.876	H	MTV ONE+1	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	SHARQAIVA	27500	11.876	H	MTV TWO	27500	11.876	H	MTV TWO	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	Al Mirad Radio	27500	11.876	H	MTV	27500	11.876	H	MTV	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	Al Adalah	27500	11.876	H	TMF	27500	11.876	H	TMF	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	ALBAHADRADIA	27500	11.876	H	TMF	27500	11.876	H	TMF	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	Al Bahadradia	27500	11.876	H	TMF	27500	11.876	H	TMF	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	Al Bahadradia	27500	11.876	H	TMF	27500	11.876	H	TMF	27500	10.832	H	ITV1 Central S	20000	10.832	H	ITV1 Central S	20000	11.307	H	NigeriaMovies	27500	11.546	H	ARCI Digital	27500
12.130	V	Al Bahadradia	27500	11.876	H	TMF	27500	11.876	H	TMF	27500	10.832															

Table with 3 columns: Freq Pol Channel Name, Symbol rate, GHz. Lists various satellite channels and their frequencies.

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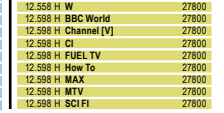
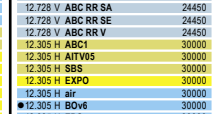
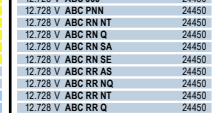
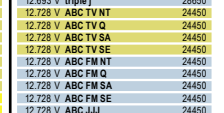
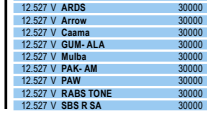
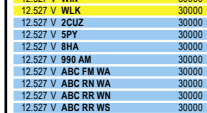
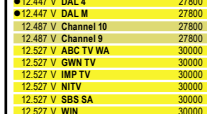
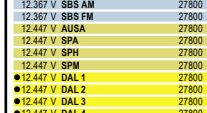
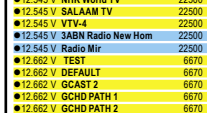
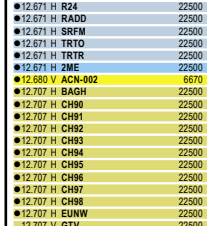
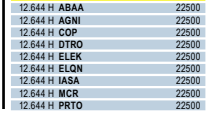
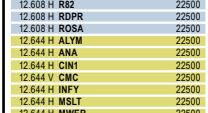
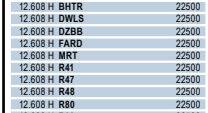
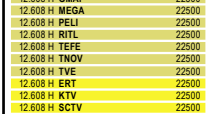
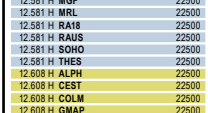
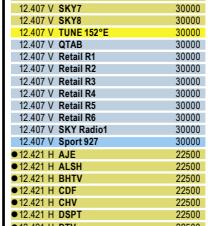
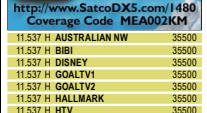
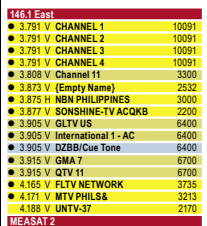
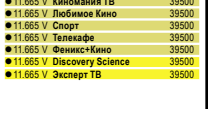
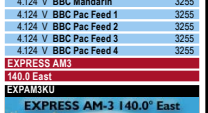
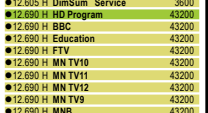
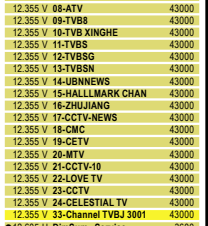
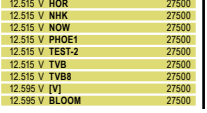
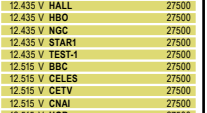
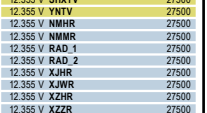
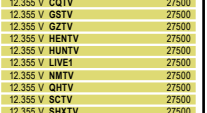
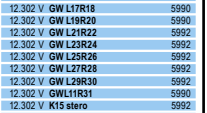
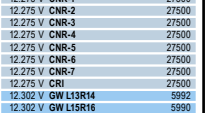
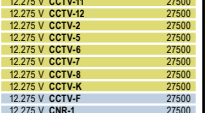
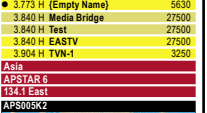
Table with 3 columns: Freq Pol Channel Name, Symbol rate, GHz. Lists various satellite channels and their frequencies.

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Main table listing satellite channels with columns for Freq, Pol, Channel Name, Symbol rate, GHz, and Symbol rate. Includes multiple columns of data and various callouts for specific satellite coverage areas.

Callout box for 'AMC 16 275.0 East' with a satellite map and technical details.

Callout box for 'ECHOSTAR 7 241.0 East' with a satellite map and technical details.

Callout box for 'AMC 16 275.0 East' with a satellite map and technical details.

Callout box for 'ECHOSTAR 7 241.0 East' with a satellite map and technical details.

Callout box for 'AMC 16 275.0 East' with a satellite map and technical details.

Callout box for 'ECHOSTAR 7 241.0 East' with a satellite map and technical details.

Callout box for 'AMC 16 275.0 East' with a satellite map and technical details.

Callout box for 'ECHOSTAR 7 241.0 East' with a satellite map and technical details.

Callout box for 'AMC 16 275.0 East' with a satellite map and technical details.

Callout box for 'ECHOSTAR 7 241.0 East' with a satellite map and technical details.

Callout box for 'AMC 16 275.0 East' with a satellite map and technical details.

Callout box for 'ECHOSTAR 7 241.0 East' with a satellite map and technical details.

Callout box for 'AMC 16 275.0 East' with a satellite map and technical details.

Callout box for 'ECHOSTAR 7 241.0 East' with a satellite map and technical details.

Callout box for 'AMC 16 275.0 East' with a satellite map and technical details.

Callout box for 'ECHOSTAR 7 241.0 East' with a satellite map and technical details.

Callout box for 'AMC 16 275.0 East' with a satellite map and technical details.

Callout box for 'SOLIDARIDAD 2 245.1 East' with a satellite map and technical details.

Callout box for 'SOLIDARIDAD 2 245.1 East' with a satellite map and technical details.

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Callout box for 'SOLIDARIDAD 2 245.1 East' with a satellite map and technical details.

Callout box for 'SOLIDARIDAD 2 245.1 East' with a satellite map and technical details.

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
11.589 V Channel 3	7234	11.589	12.120 V HRT 1	30000	12.120	11.836 V Time TV	20765	11.836	12.153 H Omid-E Iran	20000	12.153	12.153 H Omid-E Iran	20000	12.153
11.589 V Channel 4	7234	11.589	12.120 V Planeta	30000	12.120	11.836 V TV TENIS	20765	11.836	12.153 H Russia Today	20000	12.153	12.153 H Russia Today	20000	12.153
12.060 H WBNS	26000	12.060	12.120 V CGN TV	30000	12.120	11.836 V NetJat	20765	11.836	12.153 H Tapesh TV	20000	12.153	12.153 H Tapesh TV	20000	12.153
12.060 H WCHS	26000	12.060	12.120 V HRT TV	30000	12.120	11.836 V Inlay TV	20765	11.836	12.153 H Tasvir Iran	20000	12.153	12.153 H Tasvir Iran	20000	12.153
12.060 H WOHM	26000	12.060	12.120 V TRMAM	30000	12.120	11.836 V Miro	20765	11.836	12.153 H Quran Radio	20000	12.153	12.153 H Quran Radio	20000	12.153
12.060 H WOSU	26000	12.060	12.120 V CMC Radio	30000	12.120	11.836 V Int4	20765	11.836	12.153 H EthiopianRadio	20000	12.153	12.153 H EthiopianRadio	20000	12.153
12.060 H WOKW	26000	12.060	12.120 V HRT Radio	30000	12.120	11.836 V NetRadio	20765	11.836	12.153 H GlobalCast12	20000	12.153	12.153 H GlobalCast12	20000	12.153
12.060 H WPBO	26000	12.060	12.120 V BWN RNV 1 Radio	30000	12.120	11.836 V OvercomerStar4	20765	11.836	12.153 H Radio Seou	20000	12.153	12.153 H Radio Seou	20000	12.153
12.060 H WPBY	26000	12.060	12.120 V BWN RNV 2 Radio	30000	12.120	11.836 V RM Radio	20765	11.836	12.177 H Horse of Yaweh	20000	12.177	12.177 H Horse of Yaweh	20000	12.177
12.060 H WPCW	26000	12.060	12.120 V BWN RNV 3 Radio	30000	12.120	11.836 V Miro	20765	11.836	12.177 H CCN	20000	12.177	12.177 H CCN	20000	12.177
12.060 H WSZA	26000	12.060	12.120 V BWN RNV 5 Radio	30000	12.120	11.836 V NetRadio	20765	11.836	12.177 H CHURCH CHANNEL	20000	12.177	12.177 H CHURCH CHANNEL	20000	12.177
12.060 H WSFJ	26000	12.060	12.120 V BWN RNV 6 Radio	30000	12.120	11.836 V Radio Sedyay-Ashna	20765	11.836	12.177 H GODS LEARNING CH	20000	12.177	12.177 H GODS LEARNING CH	20000	12.177
12.060 H WSYX	26000	12.060	12.120 V BWN RNV 1 Radio	30000	12.120	11.836 V TV TUNIS	20765	11.836	12.177 H TVOC 2	20000	12.177	12.177 H TVOC 2	20000	12.177
12.060 H WTTX	26000	12.060	12.120 V BWN RNV 2 Radio	30000	12.120	11.836 V Star5	20765	11.836	12.177 H SOAC	20000	12.177	12.177 H SOAC	20000	12.177
12.060 H WVAH	26000	12.060	12.120 V Radio Marja	30000	12.120	11.836 V Star5 and AVR	20765	11.836	12.177 H TBN	20000	12.177	12.177 H TBN	20000	12.177
12.060 H WWHO	26000	12.060	12.169 H RTP Internacional	3003	12.169	11.836 V Tunis Radio2	20765	11.836	12.177 H TBN ENLACE	20000	12.177	12.177 H TBN ENLACE	20000	12.177
12.160 V KCAU	26000	12.160	12.169 H RTP Internacional	3003	12.169	11.836 V TV Kian	20000	11.874	12.177 H TBN Russia	20000	12.177	12.177 H TBN Russia	20000	12.177
12.160 V KMEG	26000	12.160	12.169 H RTP Internacional	3003	12.169	11.874 H TV Afgh	20000	11.874	12.177 H TBN CCN	20000	12.177	12.177 H TBN CCN	20000	12.177
12.160 V KPTH	26000	12.160	12.169 H RTP Internacional	3003	12.169	11.874 H DMC	20000	11.874	12.177 H TBN AsiaFM	20000	12.177	12.177 H TBN AsiaFM	20000	12.177
12.160 V KSN	26000	12.160	12.169 H RTP Internacional	3003	12.169	11.874 H GlobeCast 218	20000	11.874	12.177 H WRM Radio	20000	12.177	12.177 H WRM Radio	20000	12.177
12.160 V KTV	26000	12.160	12.169 H RTP Internacional	3003	12.169	11.874 H KJC TV	20000	11.874	12.177 H WRM Fra Eur	20000	12.177	12.177 H WRM Fra Eur	20000	12.177
12.160 V KXNE	26000	12.160	12.169 H RTP Internacional	3003	12.169	11.874 H WJ World	20000	11.874	12.177 H WRM Wuhan TV	20000	12.177	12.177 H WRM Wuhan TV	20000	12.177
12.160 V WBOY	26000	12.160	12.169 H RTP Internacional	3003	12.169	11.874 H TV Lin Radio	20000	11.874	12.177 H Emmanuel TV	20000	12.177	12.177 H Emmanuel TV	20000	12.177
12.160 V WDTV	26000	12.160	12.169 H RTP Internacional	3003	12.169	11.874 H Discovery Channel	20000	11.874	12.177 H Feed	20000	12.177	12.177 H Feed	20000	12.177
12.160 V WNPB	26000	12.160	12.169 H RTP Internacional	3003	12.169	11.874 H Discovery Home & Lei	20000	11.874	12.177 H ZDAR Radio	20000	12.177	12.177 H ZDAR Radio	20000	12.177
12.160 V WVFX	26000	12.160	12.169 H RTP Internacional	3003	12.169	11.874 H Discovery Movies	20000	11.874	12.177 H TVOC 2	20000	12.177	12.177 H TVOC 2	20000	12.177
25.70 East (10.3 West)			12.169 H RTP Internacional	3003	12.169	11.874 H Discovery Music	20000	11.874	12.177 H TVOC 2	20000	12.177	12.177 H TVOC 2	20000	12.177
AMC016C			12.169 H RTP Internacional	3003	12.169	11.874 H Discovery Music	20000	11.874	12.177 H TVOC 2	20000	12.177	12.177 H TVOC 2	20000	12.177
AMC 1 257.0 East			12.169 H RTP Internacional	3003	12.169	11.874 H Discovery Music	20000	11.874	12.177 H TVOC 2	20000	12.177	12.177 H TVOC 2	20000	12.177
3.270 V GMA Pinoy TV	29270	3.270	3.709 V CTVN PGM 1	4578	3.709	3.709 V CTVN PGM 2	4578	3.709	3.716 V Golden Eye Broadca	4578	3.716	3.716 V Golden Eye Broadca	4578	3.716
3.740 V Cadena del Milagro	29270	3.740	3.709 V CTVN PGM 2	4578	3.709	3.716 V Golden Eye Broadca	4578	3.716	3.722 V SURINAMAL CARIBBE	36817	3.722	3.722 V SURINAMAL CARIBBE	36817	3.722
3.740 V DR-TV USA	29270	3.740	3.716 V Golden Eye Broadca	4578	3.716	3.722 V SURINAMAL CARIBBE	36817	3.722	3.737 V Channel 1	4442	3.737	3.737 V Channel 1	4442	3.737
3.740 V DW 1 Radio	29270	3.740	3.737 V Channel 1	4442	3.737	3.737 V Channel 1	4442	3.737	3.850 H TLMD East	26670	3.850	3.850 H TLMD East	26670	3.850
3.740 V DW 2 Radio	29270	3.740	3.850 H TLMD East	26670	3.850	3.850 H TLMD Occasional	26670	3.850	3.860 H TLMD West	26670	3.860	3.860 H TLMD West	26670	3.860
3.740 V DW 7 Radio	29270	3.740	3.860 H TLMD West	26670	3.860	3.860 H NBC Ch 15	26670	3.860	3.860 H NBC Ch 17	26670	3.860	3.860 H NBC Ch 17	26670	3.860
3.740 V DW Broadcast 422	26681	3.740	3.860 H NBC Ch 15	26670	3.860	3.860 H NBC Ch 17	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.1 Radio	29270	3.740	3.860 H NBC Ch 17	26670	3.860	3.860 H NBC Ch 17	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Mountain	26670	3.860
3.740 V DW 7.2 Radio	29270	3.740	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.3 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.4 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.5 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.6 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.7 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.8 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.9 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.10 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.11 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.12 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.13 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.14 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.15 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.16 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.17 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.18 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.19 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.20 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.21 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.22 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.23 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.24 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.25 Radio	29270	3.740	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Mountain	26670	3.860	3.860 H NBC Pacific	26670	3.860	3.860 H NBC Pacific	26670	3.860
3.740 V DW 7.26 Radio	29270	3.740												

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

North America GALAXY 11.17 269.0 East (9.0 West) GXY11C

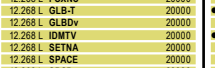


C-Band 30 36 40 http://www.SatcoDX7.com/2690 Coverage Code GXY11C1B

Main table of satellite data for North America, listing channel names, symbol rates, and frequencies. Includes entries like 3.720 H The CW Central/Mount 26700, 3.720 H The CW East 26700, 3.740 W Fox Sports Feeds (Ba) 27800.

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

North America GALAXY 11.17 269.0 East (9.0 West) GXY11C

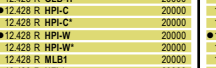


C-Band 30 36 40 http://www.SatcoDX7.com/2690 Coverage Code GXY11C1B

Main table of satellite data for North America, listing channel names, symbol rates, and frequencies. Includes entries like 12.239 L CW11 20000, 12.239 L GAME 20000, 12.239 L HLTH 20000.

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.399 R OMNI1 20000, 12.399 R SPRD 20000, 12.399 R SUPR1 20000.

North America GALAXY 11.17 269.0 East (9.0 West) GXY11C

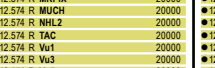


C-Band 30 36 40 http://www.SatcoDX7.com/2690 Coverage Code GXY11C1B

Main table of satellite data for North America, listing channel names, symbol rates, and frequencies. Includes entries like 12.399 R OMNI1 20000, 12.399 R SPRD 20000, 12.399 R SUPR1 20000.

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.545 R Vu10 20000, 12.545 R Vu11 20000, 12.545 R Vu10 20000.

North America GALAXY 11.17 269.0 East (9.0 West) GXY11C

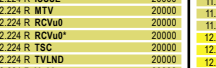


C-Band 30 36 40 http://www.SatcoDX7.com/2690 Coverage Code GXY11C1B

Main table of satellite data for North America, listing channel names, symbol rates, and frequencies. Includes entries like 12.545 R Vu10 20000, 12.545 R Vu11 20000, 12.545 R Vu10 20000.

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.661 R VuP1 20000, 12.661 R VuP2 20000, 12.661 R VuP3 20000.

North America GALAXY 11.17 269.0 East (9.0 West) GXY11C

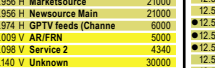


C-Band 30 36 40 http://www.SatcoDX7.com/2690 Coverage Code GXY11C1B

Main table of satellite data for North America, listing channel names, symbol rates, and frequencies. Includes entries like 12.661 R VuP1 20000, 12.661 R VuP2 20000, 12.661 R VuP3 20000.

Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 4.174 H 5G Test Card 3024, AMC3 273.0° East.

North America GALAXY 11.17 269.0 East (9.0 West) GXY11C

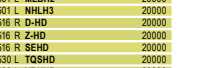


C-Band 30 36 40 http://www.SatcoDX7.com/2730 Coverage Code AMC003KB

Main table of satellite data for North America, listing channel names, symbol rates, and frequencies. Includes entries like 4.174 H 5G Test Card 3024, AMC3 273.0° East.

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

North America GALAXY 11.17 269.0 East (9.0 West) GXY11C



C-Band 30 36 40 http://www.SatcoDX7.com/2780 Coverage Code NAH001K

Main table of satellite data for North America, listing channel names, symbol rates, and frequencies. Includes entries like 12.384 L DISHD 20000, 12.384 L HDH1 20000, 12.384 L HDV2 20000.

Intelsat 907 332.5° East coverage map showing Europe, Africa, and parts of Asia. Includes frequency and channel name tables.

Intelsat 907 332.5° East coverage map showing South America, Africa, and parts of Asia. Includes frequency and channel name tables.

Intelsat 907 332.5° East coverage map showing Europe, Africa, and parts of Asia. Includes frequency and channel name tables.

Intelsat 101 353.0° East coverage map showing Europe, Africa, and parts of Asia. Includes frequency and channel name tables.

Intelsat 101 353.0° East coverage map showing Europe, Africa, and parts of Asia. Includes frequency and channel name tables.

Intelsat 102 353.0° East coverage map showing Europe, Africa, and parts of Asia. Includes frequency and channel name tables.

Intelsat 102 353.0° East coverage map showing Europe, Africa, and parts of Asia. Includes frequency and channel name tables.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including Europa, ATLANTIC BIRD 3, and EUTAB35B.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including ATLANTIC BIRD 3, EUTAB35B, and AMOS 2.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including AMOS 2, EUTAB35B, and AMOS 2.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including Middle East, AMOS 2, and AMOS 2.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including Middle East, AMOS 2, and AMOS 2.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including Middle East, AMOS 2, and AMOS 2.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz, and a list of satellite channels including Middle East, AMOS 2, and AMOS 2.

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	Freq Pol Channel Name	Symbol rate
GHz		GHz		GHz		GHz		GHz		GHz	
12.169 H McBox	28000	11.785 H Nat Geo Wild RO	28000	4.025 R BBC English (W.A)	7324	THO002KU		THO003KU		12.456 V Discov Science	28000
12.169 H Planets TV	28000	11.785 H BBC English Mid-Ea	7324	4.025 R BBC English News	7324	<p>THOR 3 359.2° East</p> <p>THOR 3 359.2° East</p>		12.456 V World Carnival	28000		
12.169 H SKAT	28000	11.785 H TV 6	28000	4.025 R BBC French	7324			11.823 H Test CA	28000	12.456 V VH1 Classic	28000
12.169 H Telesat TV	28000	11.785 H Music Channel	28000	4.025 R BBC Pashto	7324			11.823 H BGTV	28000	12.456 V Jazz Classics	28000
12.169 H TV LUX	28000	11.785 H Radio Gaga	28000	4.025 R BBC Portuguese	7324			11.823 H CH25 TV	28000	12.456 V Just Chill Out	28000
12.169 H Alpha 3	28000	12.015 R Eurosport HD	30000	4.025 R BBC Somali	7324			11.823 H M8M	28000	12.456 V MTV Hits	28000
12.169 H Alpha Radio	28000	12.015 R BBC World HD	30000	4.025 R BBC Swahili	7324			11.823 H N24	28000	12.456 V Nick-VH1 TS	28000
12.169 H BG Radio	28000	12.128 H History Chnl HD	30000	4.025 R BBC Tamil	7324			11.823 H On Satellite	28000	12.456 V Rock Anthems	28000
12.169 H ENERGY	28000	12.128 H TV Norge HD	30000	4.025 R BBC Thai	7324			11.823 H Swedenbanc	28000	12.456 V Sky News	28000
12.169 H Focus Prima	28000	12.188 H TV Norge HD	30000	4.025 R BBC Urdu	7324			11.823 H TV Sport	28000	12.456 V Soul Classics	28000
12.169 H Focus Sofia	28000	12.188 H Silver HD	28000	4.025 R BBC Vietnamese	7324			11.823 H TV2 Zebra	28000	12.456 V Strictly 60s	28000
12.169 H Focus Varnovo	28000	12.188 H Voom HD	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000	12.456 V The Alternative	28000		
12.169 H Focus Varma	28000	12.418 H DR1 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000	12.456 V Total Hits Italy	28000		
12.169 H HIT FM	28000	12.418 H DR2 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000	12.456 V Total Hits Nordi	28000		
12.169 H HORNET Radio	28000	12.418 H DTV2 (Cable)	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000	12.456 V Urban	28000		
12.169 H Njoy	28000	12.418 H NRK1 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000	12.456 V VH1 Classic	28000		
12.169 H OMV ROMANIA	28000	12.418 H TV Finland	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000	12.456 V World Carnival	28000		
12.169 H Radio 1	28000	12.418 H Nautilus	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000	12.456 V Xmas & Kids	28000		
12.169 H Radio City 2	28000	12.418 H The Poker Channel	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000	12.476 H Eurosport	27800		
12.169 H Radio FM+	28000	12.418 H TV Patriot	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000	12.476 H Eurosport 2	27800		
12.169 H Radio Fresh	28000	12.418 H DR Klassisk Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000	12.476 H TV-biljet1	27800		
12.169 H Radio Misa	28000	12.418 H DR P1 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000	12.476 H TV-biljet2	27800		
12.169 H Radio1 Rock	28000	12.418 H DR P3 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000	12.476 H TV4 Guid	27800		
12.169 H STAR FM	28000	12.418 H DR P4 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000	12.476 H TV4 Komedi	27800		
12.169 H Test Radio	28000	12.418 H DR P5 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.169 H Veronica	28000	12.418 H EKPRFS mp2	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.169 H Z-ROCK	28000	12.418 H KISS	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.226 V ESPN America	28000	12.418 H NRK AN Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.226 V ESPN Classic	28000	12.418 H NRK P1 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.226 V TV 2 Sport 2	28000	12.418 H NRK P2 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.226 V TV (N)	28000	12.418 H NRK P3 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.226 V TV8	28000	12.418 H NRK P4 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.226 V Scandinavian Satelli	28000	12.418 H NRK P5 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H Antena 1	28000	12.428 H DR1 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H Favorit TV	28000	12.428 H DR2 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H Hallmark	28000	12.428 H DTV2 (Cable)	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H Hustler TV	28000	12.428 H NRK1 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H Minimax	28000	12.428 H TV Finland	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H MTV Romania	28000	12.428 H Nautilus	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H National TV	28000	12.428 H The Poker Channel	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H Prima TV	28000	12.428 H TV Patriot	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H Realitatea TV	28000	12.428 H DR Klassisk Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H Romantica	28000	12.428 H DR P1 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H Telesport	28000	12.428 H DR P3 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 1	28000	12.428 H DR P4 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 2	28000	12.428 H EKPRFS mp2	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR Cultural	28000	12.428 H KISS	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 3	28000	12.428 H NRK AN Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 4	28000	12.428 H NRK P1 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 5	28000	12.428 H NRK P2 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 6	28000	12.428 H NRK P3 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 7	28000	12.428 H NRK P4 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 8	28000	12.428 H NRK P5 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 9	28000	12.428 H DR1 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 10	28000	12.428 H DR2 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 11	28000	12.428 H DTV2 (Cable)	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 12	28000	12.428 H NRK1 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 13	28000	12.428 H TV Finland	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 14	28000	12.428 H Nautilus	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 15	28000	12.428 H The Poker Channel	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 16	28000	12.428 H TV Patriot	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 17	28000	12.428 H DR Klassisk Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 18	28000	12.428 H DR P1 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 19	28000	12.428 H DR P3 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 20	28000	12.428 H DR P4 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 21	28000	12.428 H EKPRFS mp2	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 22	28000	12.428 H KISS	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 23	28000	12.428 H NRK AN Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 24	28000	12.428 H NRK P1 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 25	28000	12.428 H NRK P2 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 26	28000	12.428 H NRK P3 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 27	28000	12.428 H NRK P4 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 28	28000	12.428 H NRK P5 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 29	28000	12.428 H DR1 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 30	28000	12.428 H DR2 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 31	28000	12.428 H DTV2 (Cable)	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 32	28000	12.428 H NRK1 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 33	28000	12.428 H TV Finland	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 34	28000	12.428 H Nautilus	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 35	28000	12.428 H The Poker Channel	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 36	28000	12.428 H TV Patriot	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 37	28000	12.428 H DR Klassisk Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 38	28000	12.428 H DR P1 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 39	28000	12.428 H DR P3 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 40	28000	12.428 H DR P4 Syd	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 41	28000	12.428 H EKPRFS mp2	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 42	28000	12.428 H KISS	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 43	28000	12.428 H NRK AN Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 44	28000	12.428 H NRK P1 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 45	28000	12.428 H NRK P2 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 46	28000	12.428 H NRK P3 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 47	28000	12.428 H NRK P4 Reserve	28000	4.025 R BBC Zulu	7324	11.823 H TV2 Zebra	28000				
12.245 H TVR 48	28000	12.428 H NRK P5 Reserve	28000								



Alexandru Porosanu
TELE-satellite
Statistics Center
Romania

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	-5.80%
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
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 - 10 bis 20 dBm
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 - 10 bis 20 dBm
 - 10 bis 20 dBm

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Satelliten-Empfang

Nur in TELE-satellit: die aktuellsten, nachgeprüften Satelliten-Tabellen für Europa

Europas Satelliten

Programme Verteilsatelliten für Europa im Sendebereich 10.95 bis 11.70 GHz

Stand: April 1988

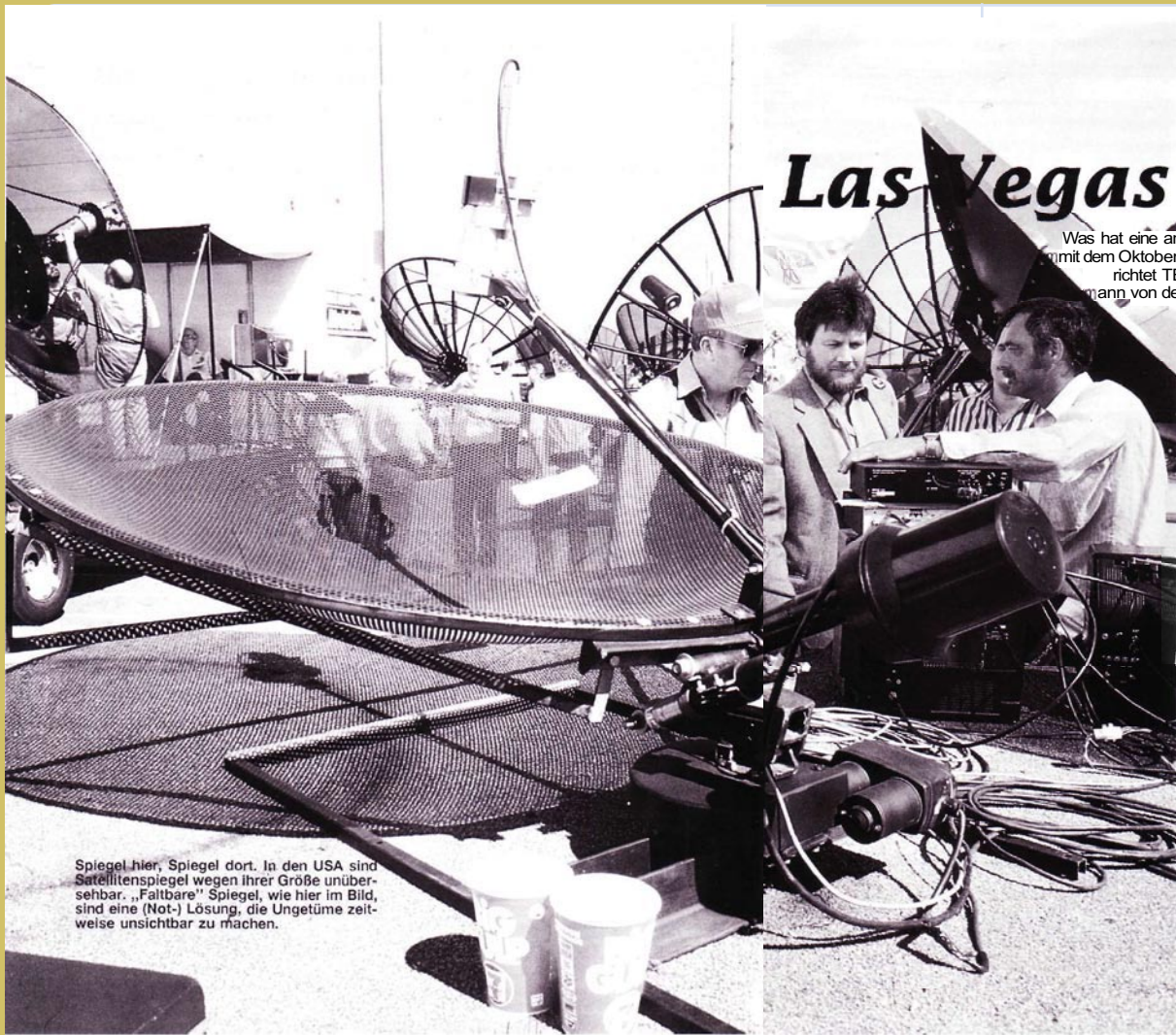
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Fernsehen über Satellit

Satellit	Position	Programme	Sendeland	Sprache	Frequenz	Polarisation	Beim	Bildformat	Videotext	Tarif	System	Empfang	Leistungs	Zeiten	Bemerkungen
INTELSAT VA-F11	27.5 W	MTV Europe	USA	englisch	10.98	Horz	West	PAL-NEG	-	-	-	46	24	Widokids	Begleitton Stereo
		Canal 10	Spanien	spanisch	10.98	Vertikal	Ost	SAT-TEL	-	-	-	46	24	Begleitton Französisch	Nachrichten - Information
		Children's Channel	Spanien	spanisch	11.02	Horz	West	PAL-NEG	ja	6.60	-	46	24	Kinder / Seefilme	Begleitton Stereo
		Griffith	USA	englisch	11.02	Horz	West	PAL-NEG	-	7.02 & 7.20	WEGENER-System	-	46	24	Begleitton Stereo
		Lifestyle - Sonenexpan (Time Sharing)	USA	englisch	11.14	Horz	West	PAL-NEG	-	6.60	-	46	24	Kultur / Hausfrauen / Sport	Begleitton Stereo
		Griffith	USA	englisch	11.14	Horz	West	PAL-NEG	-	7.02 & 7.20	WEGENER-System	-	46	24	Begleitton Stereo
		CB Schw.	Schweden	schwedisch	11.59	Horz	West	B-MAC	-	-	ja	46	24	Unterhaltung - Kultur	Nachrichten - in Vorbereitung
		CB Schw.	Schweden	schwedisch	11.59	Horz	West	B-MAC	-	-	ja	46	24	Unterhaltung / Pflanzenszenen	
		CB Schw.	Schweden	schwedisch	11.59	Horz	West	B-MAC	-	-	ja	46	24	Unterhaltung / Pflanzenszenen	
		CB Schw.	Schweden	schwedisch	11.59	Horz	West	B-MAC	-	-	ja	46	24	Unterhaltung / Pflanzenszenen	
INTELSAT VA-F10	24.5 W	Telepassio	Italien	italienisch	10.98	Vertikal	West	PAL-NEG	-	6.65	-	46	-	-	Unterhaltung
		Telepassio	Italien	italienisch	11.13	Vertikal	West	PAL-NEG	-	6.65	-	46	-	-	Unterhaltung
		Telepassio	Italien	italienisch	11.17	Vertikal	West	PAL-NEG	-	6.65	-	46	-	-	Unterhaltung
		Telepassio	Italien	italienisch	11.51	Vertikal	Ost	SECAM-N	-	7.20	-	46	-	-	Unterhaltung
		Telepassio	Italien	italienisch	11.51	Vertikal	Ost	SECAM-N	-	7.20	-	46	-	-	Unterhaltung
		Telepassio	Italien	italienisch	11.51	Vertikal	Ost	SECAM-N	-	7.20	-	46	-	-	Unterhaltung
		Telepassio	Italien	italienisch	11.51	Vertikal	Ost	SECAM-N	-	7.20	-	46	-	-	Unterhaltung
		Telepassio	Italien	italienisch	11.51	Vertikal	Ost	SECAM-N	-	7.20	-	46	-	-	Unterhaltung
		Telepassio	Italien	italienisch	11.51	Vertikal	Ost	SECAM-N	-	7.20	-	46	-	-	Unterhaltung
		Telepassio	Italien	italienisch	11.51	Vertikal	Ost	SECAM-N	-	7.20	-	46	-	-	Unterhaltung
INTELSAT VA-F12	80 Ost	3SAT	BRD	deutsch	10.97	Horz	West	PAL-NEG	-	6.65	-	46	24	Unterhaltung	Micro-Begleitton Stereo
		Wiel 3	BRD	deutsch	11.01	Horz	West	PAL-NEG	-	6.65	-	46	24	Unterhaltung	Micro-Begleitton Stereo
		Wiel 3	BRD	deutsch	11.13	Horz	West	PAL-NEG	-	6.65	-	46	24	Unterhaltung	Micro-Begleitton Stereo
		Wiel 3	BRD	deutsch	11.17	Horz	West	PAL-NEG	-	6.65	-	46	24	Unterhaltung	Micro-Begleitton Stereo
		Wiel 3	BRD	deutsch	11.17	Horz	West	PAL-NEG	-	6.65	-	46	24	Unterhaltung	Micro-Begleitton Stereo
		Wiel 3	BRD	deutsch	11.17	Horz	West	PAL-NEG	-	6.65	-	46	24	Unterhaltung	Micro-Begleitton Stereo
		Wiel 3	BRD	deutsch	11.17	Horz	West	PAL-NEG	-	6.65	-	46	24	Unterhaltung	Micro-Begleitton Stereo
		Wiel 3	BRD	deutsch	11.17	Horz	West	PAL-NEG	-	6.65	-	46	24	Unterhaltung	Micro-Begleitton Stereo
		Wiel 3	BRD	deutsch	11.17	Horz	West	PAL-NEG	-	6.65	-	46	24	Unterhaltung	Micro-Begleitton Stereo
		Wiel 3	BRD	deutsch	11.17	Horz	West	PAL-NEG	-	6.65	-	46	24	Unterhaltung	Micro-Begleitton Stereo

Radio über Satellit

Satellit	Position	Programme	Sendeland	Sprache	Frequenz	Polarisation	Beim	Tarif	System	Empfang	Leistungs	Zeiten	Bemerkungen
INTELSAT VA-F11	27.5 W	BBC Westdeut	Griffith	deutsch	11.18	Horz	West	WEGENER	7.20	-	46	24	Mono / Kurzwelle
		BBC Westdeut	Griffith	deutsch	11.18	Horz	West	WEGENER	7.20	-	46	24	Mono - Auslandsprogramme
INTELSAT V-F2	1 West	SRP 1	Schweden	schwedisch	11.13	Horz	West	Digital MAC	-	-	46	24	2. Inlandsprogramm Stereo
		SRP 2	Schweden	schwedisch	11.17	Horz	West	Digital MAC	-	-	46	24	2. Inlandsprogramm Stereo
		SRP 3	Schweden	schwedisch	11.13	Horz	West	Digital MAC	-	-	46	24	2. Inlandsprogramm Stereo
		SRP 4	Schweden	schwedisch	11.13	Horz	West	Digital MAC	-	-	46	24	2. Inlandsprogramm Stereo
		SRP 5	Schweden	schwedisch	11.13	Horz	West	Digital MAC	-	-	46	24	2. Inlandsprogramm Stereo
		SRP 6	Schweden	schwedisch	11.13	Horz	West	Digital MAC	-	-	46	24	2. Inlandsprogramm Stereo
		SRP 7	Schweden	schwedisch	11.13	Horz	West	Digital MAC	-	-	46	24	2. Inlandsprogramm Stereo
		SRP 8	Schweden	schwedisch	11.13	Horz	West	Digital MAC	-	-	46	24	2. Inlandsprogramm Stereo
		SRP 9	Schweden	schwedisch	11.13	Horz	West	Digital MAC	-	-	46	24	2. Inlandsprogramm Stereo
		SRP 10	Schweden	schwedisch	11.13	Horz	West	Digital MAC	-	-	46	24	2. Inlandsprogramm Stereo



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

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

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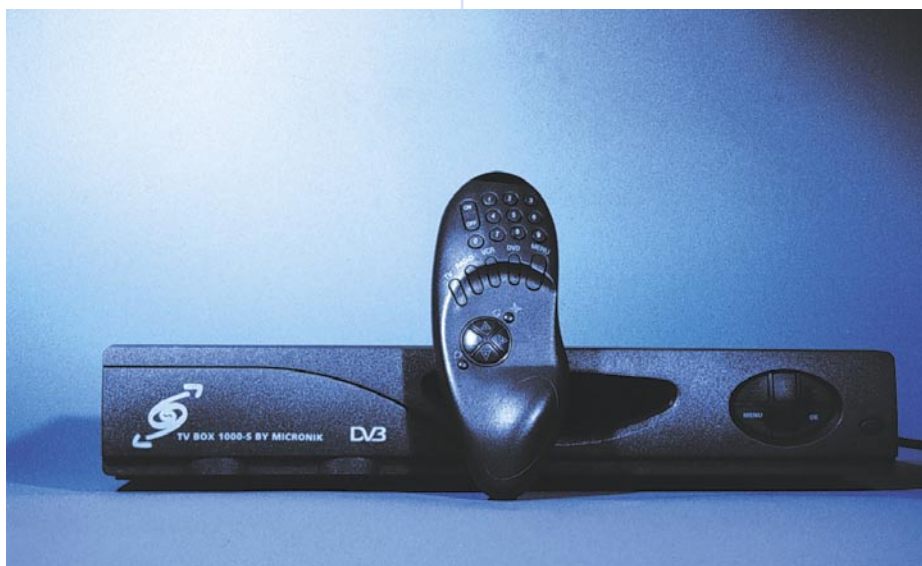
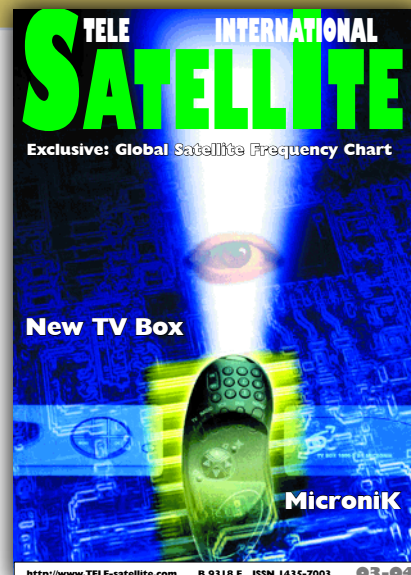
Edited by
Alexander Wiese

Mikronik TV-Box 1000-S

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

10 Years Ago

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



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

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

Telecontrol's i-Box

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





FSM 204 SAT-TV Spektrum-Analyser

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

Antennas in Poltava

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



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

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

Echostar & S.C.I.

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



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

SCI

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

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

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



Sagem ISD 3100

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

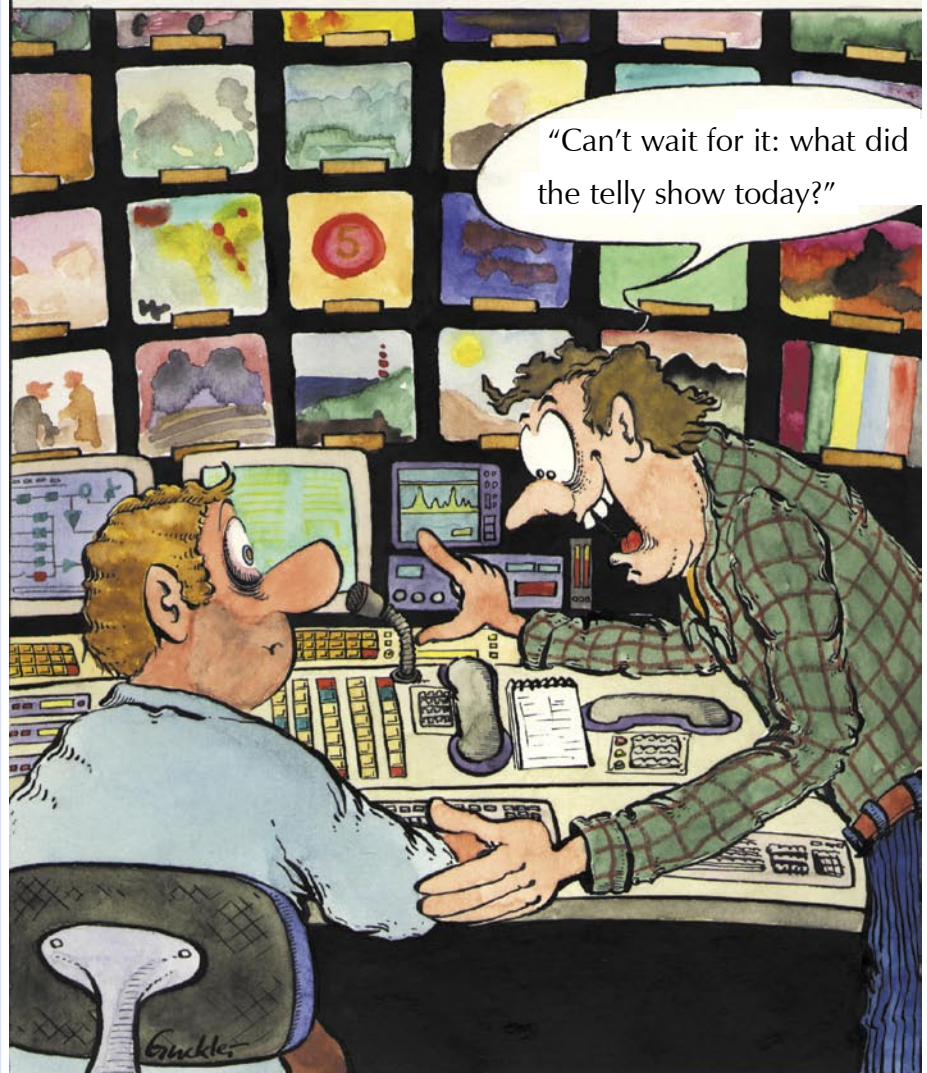
Measuring analog and digital, now and in the future

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



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

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



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JIUZHOU ELECTRIC GROUP

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

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