

SATELLITE

& GENIŞBANT

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04-05
2009

Şirket Raporu

ALUO-SAT

Cin
Uydu Sektöründe
Önemli Bir isim

Şirket Raporu

TOPFIELD

Uydu ve İnterneti
Birazda

Test

AB-COM

Bir Linux HD PVR Uydu Alicisi
Ne Kadar Güçlü Olabilir?



TELE
SATELLITE
AWARD & BROADBAND
04-05/2009

AB IPBox 910HD



TMS

SRM-2100



Start the New year with Topfield Media Solution.

PVR



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

GAME



Featuring on-line game 'BATTLE TANK'.

UCC



Playing media contents of YouTube.

DivX



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

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

www.i-topfield.com

TELE-satellite okurlarına özel: SatcoDX "Uydu Dünyası"

SatcoDX "Uydu Dünyası" yazılımı dünya çapındaki her uydu yayının teknik verilerini içerir.



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Bir Distripress üyesidir

SatcoDX 06/2009 Uydu Dünyası

Dünyadaki Tüm Uyduların Program Veritabanı - Bilgi Programı

Software V3.12 tur sdx Creator

Dünya Uydu Tabloları
Bütün Uydular Bütün Kanallar

Uydu Sihirbazı: Bulduğunuz Yerden Hangi Kanalları
Hangi Sistemlerle İzleyebilirsiniz?

DishTrak: İzleyebileceğiniz Uydular
Hangileri?

Channel Locator: İsteddiğiniz Kanalı Bulun

Online Tablo Güncellemeleri:
İnternet Üzerinden İsteddiğiniz Anda Güncelleme

Uydu Alıcı Programlama: Kanal listelerini Sıralayın,
Ayıklayın ve SatcoDX Uyumlu Alıcılara Doğrudan
Yükleyin

Uydu Ayakizleri: Uydu Yayın Işınlarının Odak
Noktaları

Tablo Verilerini İhraç Etme ve Yazdırma:
Kişiselleştirdiğiniz Tabloları Kaydedin

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

TELE-satellite & Broadband Magazine Ürünü
Yalnızca Kişisel ve Özel Kullanım İçindir
ISSN 1861-5384
SatcoDX.com

Veri Tabanını sdx Formatında
İhraç Etme
SatcoDX Uyumlu Alıcınızı
Programlayın



ÜCRETSİZ
TELE-satellite
03/2009
Elektrik
Kopyası

SatcoDX yazılımını buradan indirebilirsiniz:
www.TELE-satellite.com/cd/0906/tur

Her uydunun tüm teknik verilerini içeren
eksiksiz kanal listesi

Alımı mümkün tüm uyduların otomatik
olarak gösterilmesi

SatcoDX uyumlu alıcıları otomatik olarak
programlama olanağı

İnternet üzerinden iki sunucu üzerinden her an
güncelleme olanağı

Kanal listelerini kapsama haritalarıyla
birlikte HTML formatında yazdırabilirsiniz

The screenshot displays the SatcoDX software interface. It features a main window with a table of satellite data, a map of the world for location selection, and various control panels. The table includes columns for Position Code and Satellite, Type, Ch, Freq, Pr, Channel Name, Coverage, and a list of satellites with their respective frequencies and parameters. The map shows the user's location and the location of the satellite. The control panels include options for file formats, baud rates, and flow control. The interface is designed for easy navigation and data management.



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209
02-03 2009

والساتلات
& الإنترنت فائق السرعة

قريباً اختيار
TOPFIELD
رئيسي نموذجي للاستخدام مع تليفزيونات البلازما

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

العربية

DiZiPiA

قريباً اختيار
طابع **VENUS** الكون من 4 مناطق
البتكار طبعي شبكي من اندونيسيا

DiZiPiA DS4H-9160

SATELLITE AWARD 02-03/2009

رئيسي لاستقبال التليفزيون فائق التفاصيل

اقرأ مجلة تيلي ساتلايت مياشر

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209
02-03 2009

SATELIT
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Laporan Uji TOPFIELD
Receiver Ideal untuk TV Plasma

Laporan Perusahaan MFC USA
Filter C-Band Kualitas Tinggi
Memberikan Gambar yang Jernih

Bahasa Indonesia

DiZiPiA

DiZiPiA DS4H-9160

SATELLITE AWARD 02-03/2009

HDTV PVR dengan Dua Tuner

Laporan Uji

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Най-голямото сателитно списание в света
209
02-03 2009

SATELIT
& BROADBAND

Нови продукти TOPFIELD
Идеалният приемник за плазмени телевизори

Новини от компаниите MFC USA
Висококачествени филтри C-обхвата, предоставящи четър карти

Български

DiZiPiA

DiZiPiA DS4H-9160

SATELLITE AWARD 02-03/2009

HDTV PVR приемник с двоен тунер

Нови продукти
4-сегментна мрежова сателитна антена на **VENUS**
Иновация от Индонезия

Прочетете сп. ТЕЛЕ-сателит онлайн:

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Největší časopis o satelitní technice na světě
209
02-03 2009

SATELIT
& BROADBAND

Recenze TOPFIELD
Ideální přijímač pro plazmové TV

Firemní reportáž MFC USA
Špičkové C-pásmové filtry pro čistý obraz

Česky

DiZiPiA

DiZiPiA DS4H-9160

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HDTV PVR se dvěma tunery

Recenze
VENUS 4-Segmentová síťová satelitní parabola
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6,90

Test Report
TOPFIELD
Idealer Receiver für Plasma TV

Firmenbericht
MFC USA
High Quality C-Band Filter
für einwandfreien Empfang

Deutsches
DiZiPiA

Test Report
VENUS 4-Segment
Mesh-Satellitenspiegel
Innovation aus Indonesien

Test Report
DiZiPiA
DS4H-9160
HDTV PVR mit Twin Tuner

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02-03 2009

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Test Report
TOPFIELD
Ideal Receiver for Plasma TVs

Company Report
MFC USA
High Quality C-Band Filters
Give Clean Picture

English
DiZiPiA

Test Report
VENUS 4-Segment
Mesh-Satellite Dish
Innovation from Indonesia

Test Report
DiZiPiA
DS4H-9160
HDTV PVR with Twin Tuner

SATELLITE AWARD 20-03/2009

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Informe de Prueba
TOPFIELD
El Receiver ideal para
las Televisiones de Plasma

Informe de Compañía
MFC USA
Filtros de Alta Calidad para Banda C,
enga una Imagen Limpia

Español
DiZiPiA

Informe de Prueba
VENUS 4-Segmentos
Innovadora Antena de Malla
para Satélite desde Indonesia

Informe de Prueba
DiZiPiA
DS4H-9160
HDTV PVR con Doble Sintonizador

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گزارش آزمایش
TOPFIELD
رسیور ایده آل برای تلویزیونهای
پلاسما

گزارش شرکت
MFC USA
فیلترهای کیفیت بالای باند C
تصویری شفاف دست می دهند

فارسی
DiZiPiA

گزارش آزمایش
VENUS 4-Segment
دیش 4 تکه مش، ابتکاری از اندونزی

گزارش آزمایش
DiZiPiA
DS4H-9160
ضبط و پخش HDTV با تیونر دوقلو

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& HAUT-DÉBIT

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Le récepteur idéal pour des TV plasma

Présentation d'entreprise MFC USA
Filtres de qualité pour bande C qui procurent des images claires

Français

DiZiP A

Rapport de Test VENUS Parabole ajoutée à 4 segments
Nouveauté d'Indonésie

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Enregistreur TVHD à double tuner

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Αναφορά Δοκιμής TOPFIELD
Ιδανικός Δέκτης για Τηλεοράσεις Πλάσμα

Αναφορά Εταιρείας MFC ΗΠΑ
Υψηλής Ποιότητας Φίλτρα C-Band Παρέχουν Καθαρή Εικόνα

Ελληνικά

DiZiP A

Αναφορά Δοκιμής VENUS 4-Τμήριστα
Καινοτόμο Δορυφορική Κεραία Πλέγματος από την Ινδονησία

Αναφορά Δοκιμής DiZiPiA DS4H-9160
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& BROADBAND

Test uređaja TOPFIELD
Idealni prijemnik za plazma televizore

Izješće o tvrtki MFC iz SAD
Visokokvalitetni C-pojasni filtri osiguravaju jasnu sliku

Hrvatski

DiZiP A

Test uređaja VENUS 4-segmentna mrežasta satelitska antena
Inovacija iz Indonezije

Test uređaja DiZiPiA DS4H-9160
HDTV PVR prijemnik s twin tunerom

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& BANDA LARGA

In Prova TOPFIELD
Ricevitore Ideale per TV al Plasma

Profilo aziendale MFC USA
Filtri di Qualità in Banda C per Immagini più Nitide

Italiano

DiZiP A

In Prova Parabola Microforata VENUS a 4 Segmenti
Innovazione dall'Indonesia

In Prova DiZiPiA DS4H-9160
PVR HDTV con Doppio Tuner

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Teszt beszámoló TOPFIELD
Eszményi beltéri vevőegység a plazma tévékhez

Vállalati beszámoló Az Egyesült-Államokban MFC
A magas minőségű C-sáv szűrők tisztább képet adnak

Magyar

DiZiPiA

Teszt beszámoló VENUS 4-szirmú fémhálóból készült tányerantenna
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高性能C波段微波过滤器提供洁净的画面

中文

DiZiPiA

测试报告 4瓣的VENUS (维纳斯) 网面卫星天线
印尼的新品

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双高频头高清录像接收机

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SATELLIET & BREEDBAND

02-03 2009

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Ideale ontvanger voor plasma TV's

Bedrijfsrapport MFC VS
Hoge kwaliteit C-band filters geven schoon beeld

Nederlands

DiZiPiA

Testrapport VENUS 4-Segment Gazen satellietantenna
Innovatie uit Indonesië

Testrapport DiZiPiA DS4H-9160
HDTV PVR met dubbele tuner

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SATELITA & BROADBAND

02-03 2009

Raport z testów TOPFIELD
Idealny odbiornik dla plazmowych TV

Przegląd firm MFC USA
Wysokiej jakości filtry pasma C gwarantują czysty obraz

Polski

DiZiPiA

Raport z testów VENUS 4-segmentowa satelitarna antena siatkowa
Innowacja z Indonezji

Raport z testów DiZiPiA DS4H-9160
PVR HDTV z podwójnym tunerem

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Receptor Ideal para um Televisor Plasma

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Português

DIZIP A

Relatório de Ensaio VENUS
Antena Parabólica em Malha de Apenas 4 Segmentos Uma Inovação da Indonésia

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DS4H-9160
PVR HDTV com Twin Tuner

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Идеальный приемник для плазменных телевизоров

Обзор компаний MFC США
Высококачественные фильтры C-диапазона обеспечивают чистое изображение

Русский

DIZIP A

Тестируем VENUS Четырех сегментная сеточная спутниковая антенна Инновация из Индонезии

Тестируем DIZIPiA
DS4H-9160
Персональный видеорекордер (PVR) с двойным настроочным устройством для телевидения высокой четкости (HDTV)

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Perfekt mottagare för platt-TV

Företagsrapport MFC USA
Högkvalitativa C-bandsfilter för bra bild

Svenska

DIZIP A

Testrapport Venus
Nätantenn i fyra segment Innovation från Indonesien

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DS4H-9160
HDTV-PVR med dubbeltuner

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Test TOPFIELD
Plazma TV'ler için ideal Uydu Alıcısı

Şirket Raporu MFC ABD
Yüksek Kaliteli C-Bant Filtreyle Net Görüntü

Türkçe

DIZIP A

Test 4 Parçalı VENUS
Endonezya'dan Yenilikçi Ağ Anteni

Test DIZIPiA
DS4H-9160
Çift Tunerli HDTV PVR

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The New!

TM-5000 Super Series

with USB PVR for Recording



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

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

USB Features:

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

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

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

TM-5200 D USB
super

Free-To-Air Satellite Receiver

TM-5300 D+ USB
super

with Built-in Smart Card Reader

TM-5400 CI+ USB
super

with Card Reader + Common Interface

TM-5600 CI USB
super

with Common Interface

High-Definition

Satellite & Terrestrial Receiver

TM-6900 HD COMBO Super



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

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



3500 HDMI PVR

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



3000 CRCI PVR

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



3500CI HDMI PVR

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



3000 CR PVR

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



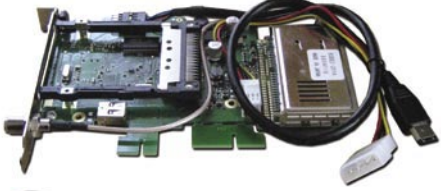
AB IPBOX 910HD

Digital Linux-based HDTV PVR Receiver for DVB-S, DVB-S2, DVB-C and DVB-T Reception28



FLOPPYDTV

DVB-S/2 Solution for the PC36



OPENSAT 3000CRCI PVR

Digital DVB-S CI-PVR Receiver ...42



Beginner's section:

PC Software for Topfield Receivers16

AWARD Winning:

Satellite Products of 21st Century52

Company Report: AB-COM, Satellite

Receiver Manufacturer, Slovakia64

Company Report: TOPFIELD,

High-End Receiver Manufacturer, Korea.....74

Company Report:

Worldwide Satellites, North American Satellite Wholesaler80

Company Report:

Aluo-sat, Satellite Consultant, China84

Satellite information:

New Satellites.....88

Media: News

92

SatcoDX Chart

99

History: 20 Years Ago

124

History: 10 Years Ago

126

Sevgili Okurlar



HDTV uydu alıcıları her geçen gün daha mükemmelleşiyor. Bu sayıda yine yepyeni iki HDTV uydu alıcısını tanıtıyoruz. Bunlardan bir PVR uydu alıcısı diğeri ise bir bilgisayar kartı.

Ancak ne yazık ki, HDTV kanallarının sayısı aynı hızla artmıyor. Tam tersine, ekonomik kriz nedeniyle bazı yayıncılar veri hızlarını düşürmek zorunda kaldı, çünkü bu şekilde masraflarını azaltabiliyorlar. Tabii ki bunun anlamı, televizyonlarımızdaki görüntü kalitesinin gittikçe bozulması. Görüntü kalitesinin olabilecek en düşük seviyeye gelmesine "piksel çamurlaşması" deniyor.

Bence, bunun tam tersi yaşanmalıydı. Yayıncılar görüntü kalitesini düşürerek olabildiğince, çok kanaldan yayın yapmaya çalışmak yerine, kanal sayısını düşürüp daha kaliteli yayınlar yapmalılar.

Bu inanılmaz bir şey: SatcoDX rakamlarına baktığımızda dünyada şu anda 18.000 TV kanalı olduğunu görüyoruz. Ama normal bir izleyici 100'den fazla kanal izleyemez. Aslında bu sayı belki de 50, veya daha az bile olabilir.

Peki öyleyse bunca kanal içinden bu seçim nasıl yapılıyor? İzleyici hangi kriterlere bakarak belirli kanalları

seçiyor ve bunları favoriler listesine ekliyor?

Bize göre tüm izleyicilerin kanalları, içeriğine bakarak seçtikleri konusu biraz şüpheli, aslında yüksek görüntü kalitesinde yayın yapan kanallar bu sıralamada otomatik olarak öncelik kazanacaktır. Tabii ki yayın içeriğinin de bunda bir rolü var hiç kuşkusuz.

Bizce yayıncılar, kanal sayısını azaltıp daha iyi görüntü kalitesi için yatırım yapsalar, daha çok izleyici kazanırlar. Bunun iyi bir olumlu etkisi de uydu alıcısı üreticilerinin mutluluğu olurdu; çünkü artan görüntü kalitesi bu uydu alıcılarının sahiplerine nihayet cihazlarını son potansiyeline kadar kullanma olanağı verirdi.

Bazen azlıkta bereket vardır!

Dostlukla, Alexander Wiese

P.S.: Bu ay ki favori istasyonum: 359 Doğu THOR (1 Batı) uydusunda 12.169 GHz, H, 28000 yayın yapan "Radio Fresh". Bulgaristandan yayın yapan radyoda çok az konuşma ve tonla müzik var.

REKLAM VERENLER

ABC BIZNIS.....	11	HORIZON	45	SG LAB	103
ABCOM	26-27	INFOSAT.....	31	SMART.....	39
ACCESS-NET.....	94	JIUZHOU	132	SMARTWI.....	25
ALUOSAT	96	KOMSIS	37	SONICVIEW	23
ANGA CABLE-2009	21	MECOM-2009.....	101	SPACELINK.....	91
ARION	13	MFC	81	SPAUN	67, 93
AZURE SHINE	81	MOTECK	37	SUBUR SEMESTA	47
COMMUNICASIA-2009	63	MTI	77	SUN CREATE	85
DISHPOINTER	107	NANOXX	97	TEHNICB	95
DIZIPIA	131	PASAT ANTENY.....	77	TECHNOMATE	10
DOEBIS	14-15	PROMAX.....	51	TELE-SATELLITE	73
DVB-STREAM.....	85	REMOTEMAN	105	TEVII	69
EEBC-2009	83	ROGETECH.....	71	TOPFIELD	2
FORTIS.....	19	SATCATCHER	69	TRIMAX.....	71
GT-SAT INTERNATIONAL	79	SEATEL	35	VIEWSAT	75

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)

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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

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Multi Language Support(Customer Option)

HD2.0 Slim



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Features available at launch

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- * 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
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- RS232 for PC-connection
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- Only 7.5kg complete with carrying case

ALSO AVAILABLE:

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

DIGISAT PRO ACCU

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



ALSO AVAILABLE:

- Digisat
- Digisat+
- Digisat Pro
- Digisat Multi

DIGIAIR dB

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

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



Satlook Micro G2



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

ALSO AVAILABLE:

Upgrade-KIT for Satlook Micro

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

Satlook Micro G2 upgrade contains:

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

Satlook NIT Color



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

TOPFIELD

TF 6500T HDMI



DVB-T Receiver

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

TF 6000 FE

Digital satellite Receiver

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

PCMCIA-Modules

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



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

Boca **NEW**

DSL 250 / DSL 250-T



Digital satellite / terrestrial Receiver

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

DSL 350 1CI



Digital satellite Receiver

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

DSL 500 PVRready



Digital satellite Receiver PVR-ready

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

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HDTV Receiver Selection

TOPFIELD

TF-7700 HD PVR



HDTV digital satellite Receiver with personal video recorder

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

TOPFIELD

TF-7700 HSCI / TF-7700 HCCI



HDTV for satellite and cable reception

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

Boca

NEW

HD 200 CI PVR



HDTV digital satellite Receiver PVR-ready

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

Motors

Aktuatoren/ Actuators

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



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

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



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

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

All available as:

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- Twin Universal
- Quattro Universal
- Quad Universal



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- 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



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- Mini-Twincable Coax
- > 100 dB / > 110 dB

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

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High-Line-Series



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- MTI AP 8 T2NRC Single } • 40 mm
- MTI AP 82 XT2N Twin } • 0,2 dB
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Full LNB range MTI available from stock

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



Dishes

CIBERTINI TRIAX emme esse

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

Big Dishes directly from our warehouse!

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



Flat-Dishes

NEW

SELF SAT H10D / H10D2



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

MAXIMUM Flat-1



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

Multifocus Dish

MAXIMUM

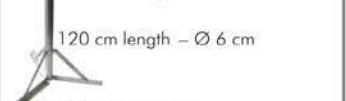
E-85 Multifocus 48° Dish



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

Balcony mounting parts

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



ALSO AVAILABLE:

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

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

by Thomas Haring

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

Creating a DVD

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

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

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

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

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

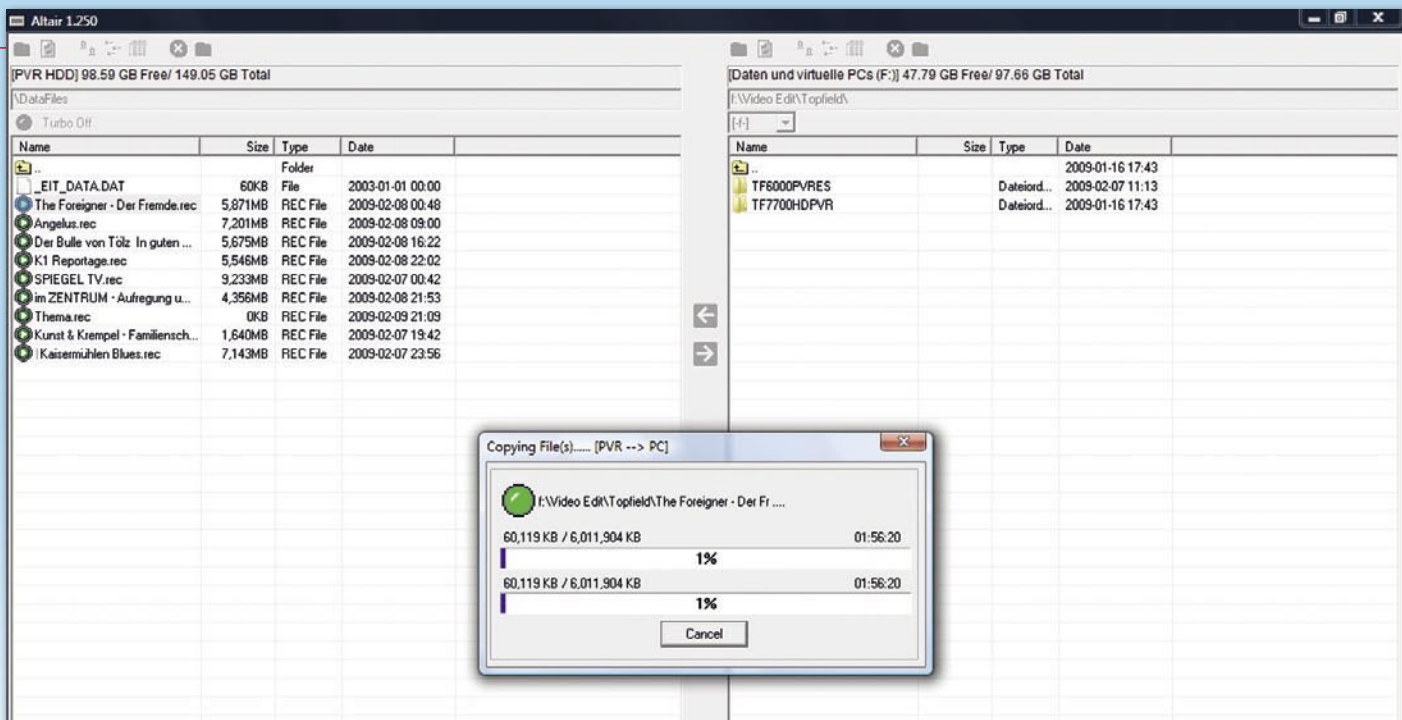
it as a removable disk drive after a few moments and then you're all set for copying files to the local disk.

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

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

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





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

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

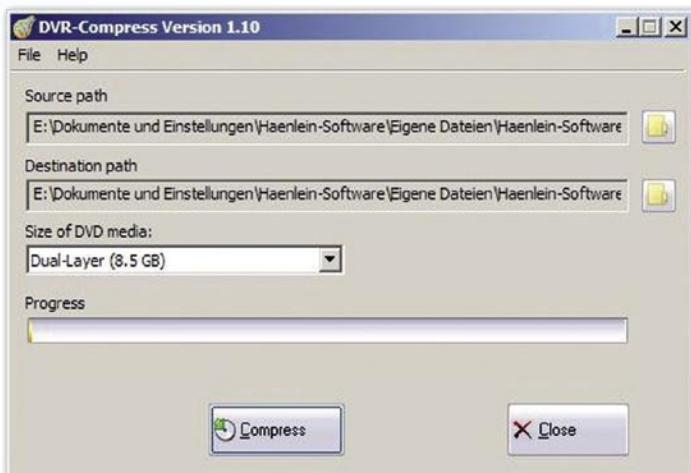
All this is not only available in the local network, but also via the Internet, if required. This means you are able to check right from your hotel room whether your Topfield receiver at home has recorded all events you had set in the timer. Or if you find out a blockbuster movie is on TV that night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

Transferring a recording from the receiver to the PC

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

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

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



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



TOPFIELD®



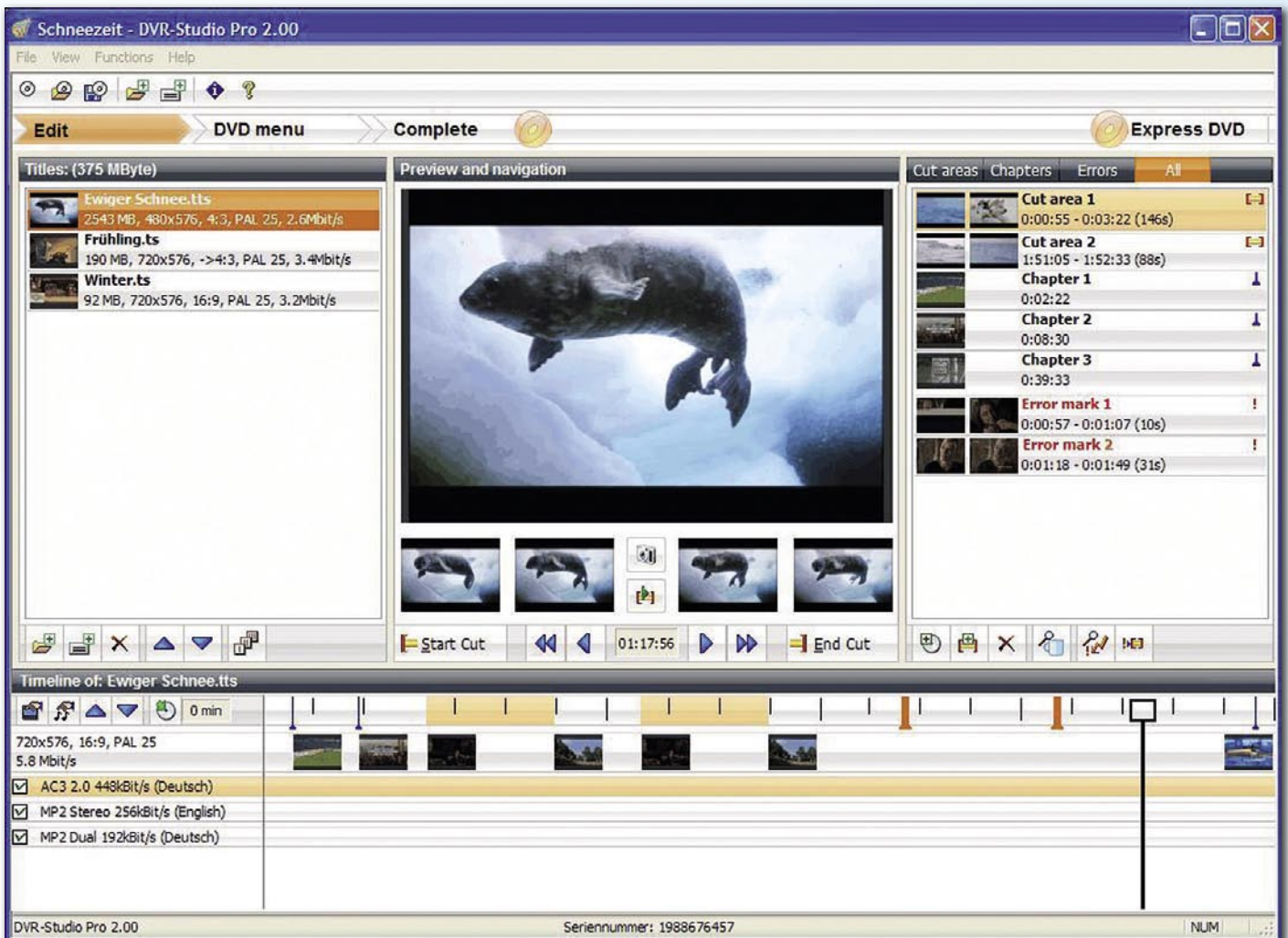
DVR Studio HD creates DVDs or Blu-ray discs from HD material

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

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

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

Once all required drivers are installed



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

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FS-9000HD

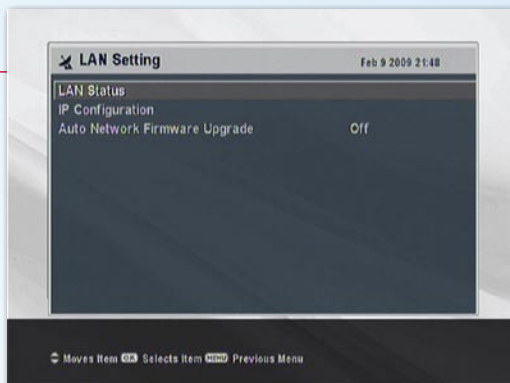
MPEG4 - HD,SD / H.264 / DVB-S2 Twin Tuner
Micro SD slot for external memory
Supporting DivX file play back



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FORTIS



Network menu of the TF6000PVRE



Network status displaying assigned IP addresses



DHCP for automatic retrieval for required settings



Manual IP assignment



Software update via satellite

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

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

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

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

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

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

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

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

The following comparison clearly shows how the transfer rate changes:

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

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

Editing recordings on the PC

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

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

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

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

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

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

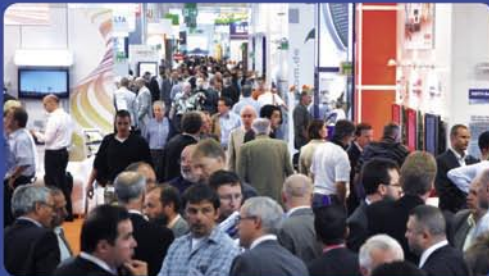
As the name implies, DVR Studio HD has all the features of the Pro version with added HD capability. It is the perfect match for the Topfield TF7700HDPVR as it can be used to also burn HD content on DVD or Blu-ray disc.

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



ANGA Cable

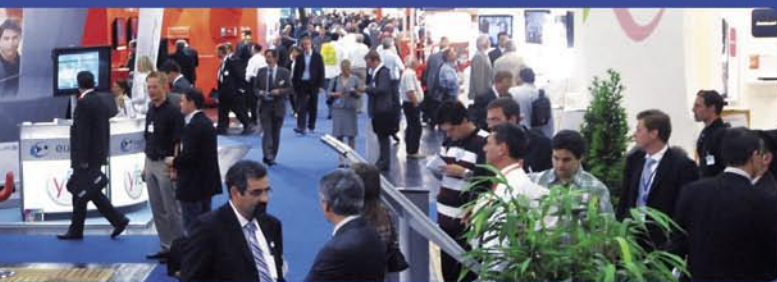
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Fax +49 228/96 21 895
info@angacable.de
www.angacable.com



Software update via PC using a USB or serial connection

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

Editing the channel list

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

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

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

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

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

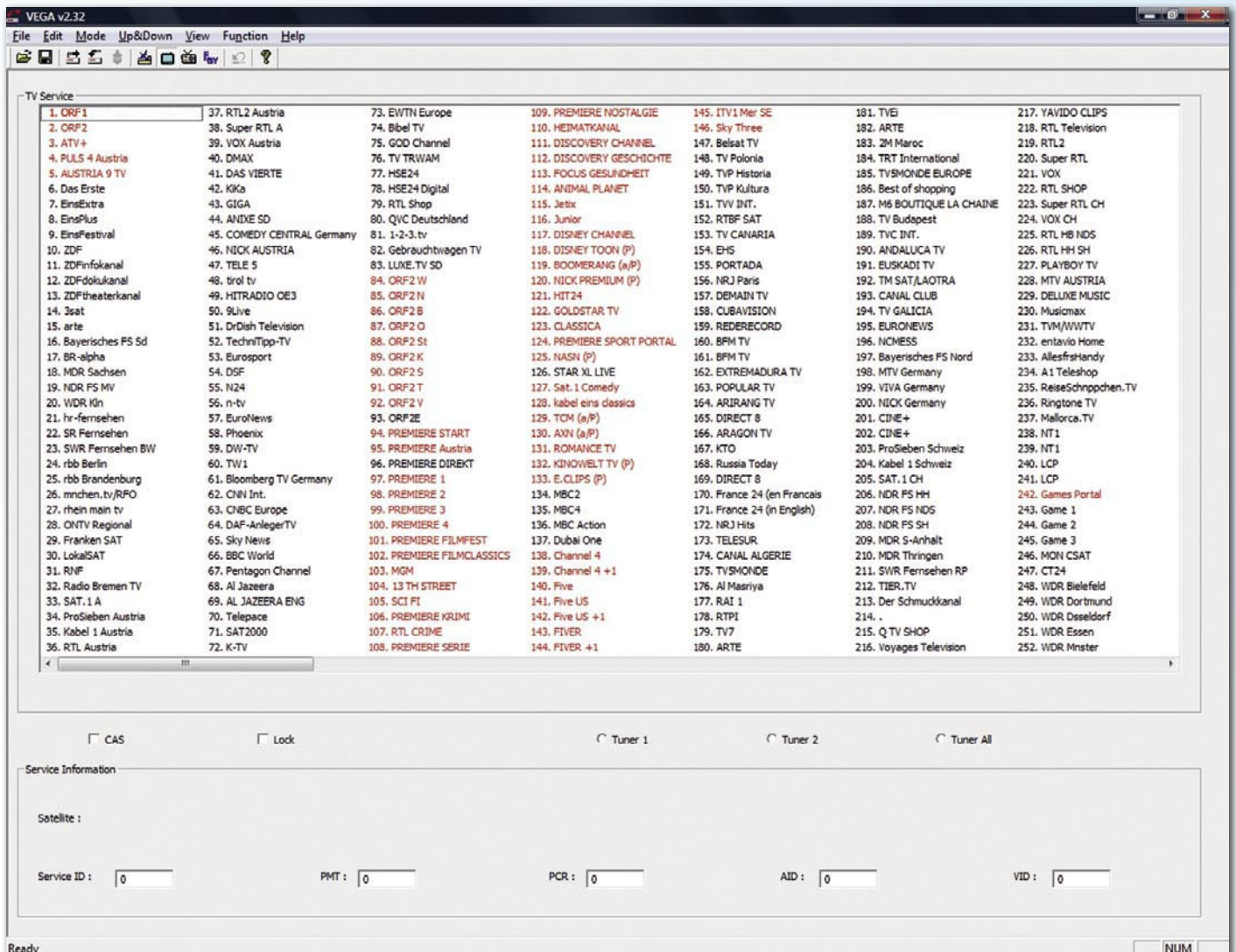
In a first step you need to make sure

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

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

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

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



Vega channel list editor



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

Software update

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

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

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

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

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

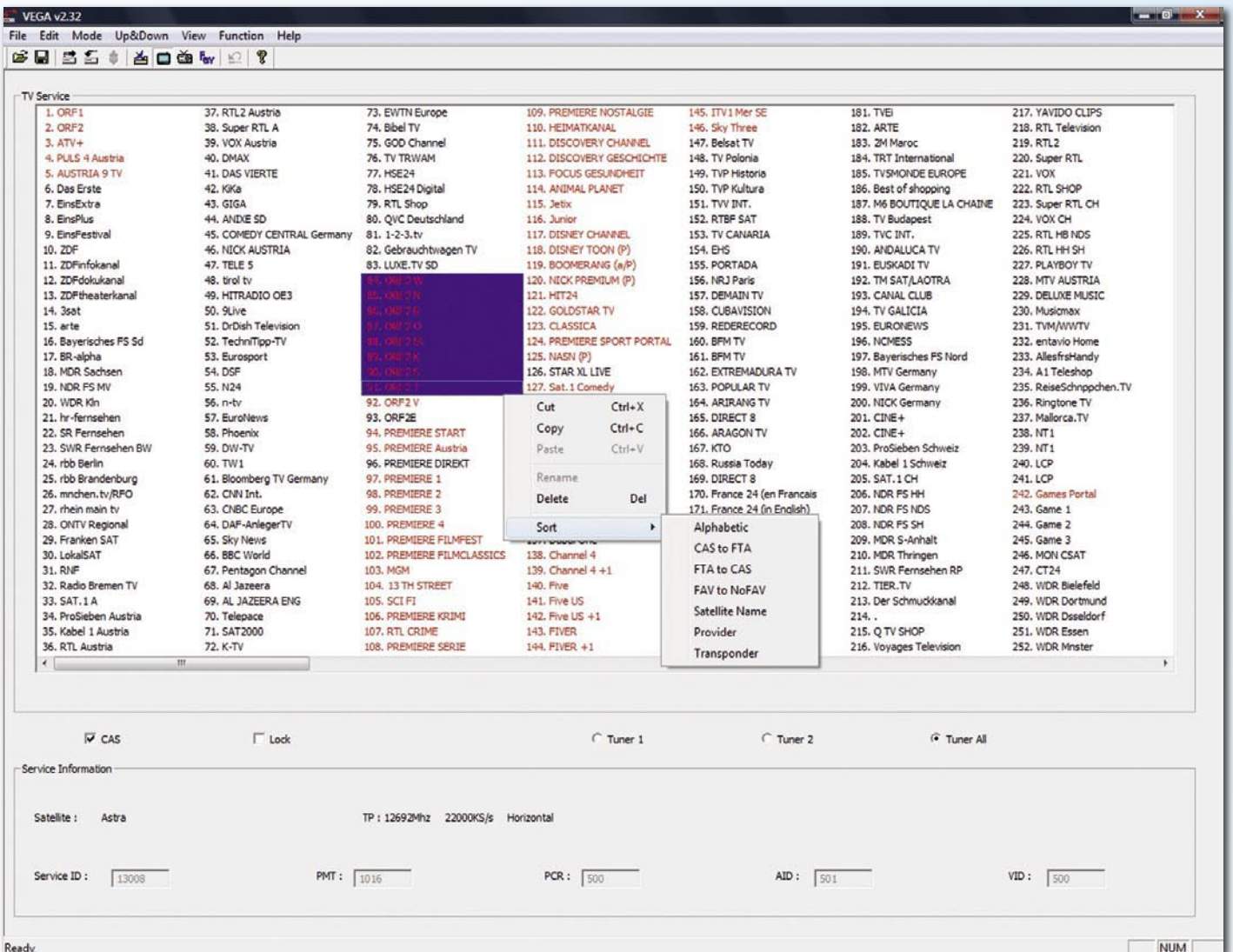
In such a configuration the Topfield TF7700HDPVT, for example, can automatically obtain all information (like standard gateway or DNS server) thanks to DHCP. Alternatively, all settings can also be entered manually. As soon as a connection to the Internet can be established the receiver connects to the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

field server and checks whether new updates have been released.

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

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

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



Various sorting modes of Vega

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AB IPBOX 910HD
Herkesi tatmin edebilecek esnek ve evrensel alıcı

Uydu alıcılarında yaşanan büyüleyici gelişmeyi tek kelimeyle muhteşem olarak adlandırabiliriz! Daha birkaç yıl öncesine kadar, analog alıcılara

kavga ederken, bu kadar kısa sürede aynı boyutlardaki bir kutunun bize fantastik canlı renkler ve inanılmaz netlikte görüntüler sunmakla kalmayıp müzik çalabileceğini, video oynatabileceğini, e-mail gönderip, oyun oynatabileceğini düşünebilir miydik hiç? Bilgisayarlarla uydu alıcılar arasındaki sınır her geçen gün daha da silikleşirken bir yandan kullanıcı dostu diğer yandan usta kullanıcılara sonsuz olanaklar sunan yepyeni cihazlar ortaya çıkıyor.

Ve hiç kuşkusuz güçlü Linux tabanlı alıcılarıyla ünlü ABCom, bu gelişmeyi hızlandırılan oyuncularından biri. Üzerlerine düşeni ustalıkla yerine getiriyor ve sürekli donanım ve yazılım güncellemeleriyle gelişmelerin gerisine düşmemeyi başarıyorlar. Özellikle daha önce piyasaya sürdükleri ürünlerin sorunlarının sonradan düzeltildiğini görmek de çok sevindirici. Bugün AB IPBox 910HD'yi test etme şansı yakaladık. Bu model birkaç sayı önce test ettiğimiz (TELE-satellite 08-09/2008) 900HD'nin ikiz kardeşi.

Yeni model öncekinin tüm iyi yanlarını kendinde barındırıyor. Hem yüksek hem standart tanımlı kanallar, hem DVB-S hem DVB-S2 formatında ve üstelik hem MPEG-2 hem MPEG-4 sinyaller izle-

ab-com



nebiliyor. Karasal yayınlar bittiğinde büyük annenize seyrettiği pembe diziler için yardım etmeniz gerektiğinde 910HD orada hemen yanibaşınızda size yardım etmek için hazır. DVB-S tuneri DVB-T ile değiştirmek sadece birkaç dakikalık bir iş. Aynı şey DVB-C kablo tuneri için de geçerli.

Dışardan bakıldığında 900HD ile 910 HD arasında bir fark görmek çok zor. Ama ayrıntıların önem kazandığı yer de işte tam burası. Ön panelde 900HD'nin şıklığı muhafaza edilmiş ve böylece cihazın güzelliğinden bir şey yitirmemesi sağlanmış. Mıknatıs başlıklı bir kapakçığın altına gizli 2 CI modül yuvasının yanı sıra okunması kolay bir VFX panel ve cihazın neredeyse tüm fonksiyonlarını gerçekleştirmenizi sağlayan 8 düğme ön panelde yer alıyor.

Arka panel de önceki kadar iyi; ama burada bazı gelişmeler olduğunu fark ediyoruz. Eğer elinizdeki cihaz bizim test modelimizde olduğu gibi DVB-S tunerli ise sol köşede bir LNB girişi ve aktarmasını göreceksiniz. Tüm bilgisayar ve ağ işleri USB portu ile RS-232 ve ethernet bağlantıları üzerinden yapılıyor. HDMI,

S/PDIF ve Y/Pb/Pr çıkışlarının her biri kristal netliğinde görüntü ve ses kalitesi için emrinize hazır bekliyor. Bir Scart ve üç RCA bağlantısı ile geçmiş teknolojiler ile uyumluluk korunmuş. E-SATA portu ve güç kaynağı harici sabit diskler için beklerken 910HD ile sabit diski cihazınızın içine de yerleştirebiliyorsunuz! Yani alıcıyı açtığınız anda sabit diskte çalışmaya başlayacak, kablolarla bağlantılarla uğraşmanıza gerek yok! Ama yine de burada seçim yapmak size kalmış, isterseniz harici HDD kullanmaya devam edebilirsiniz.

Ana açma/kapama düğmesinin yanında cihazın iç donanımını ısınmaya karşı koruyan bir fan bulunuyor. Gerçekten akıllıca düşünülmüş! Ancak yine de pek çok hassas kullanıcının bunu biraz gürültülü bulacağını düşünüyoruz. Tabii bu da çok büyük bir problem sayılmaz, isterseniz bir bilgisayar dükkanından sessiz bir fan alıp kolayca bununla değiştirebilirsiniz.

Uzaktan kumanda, önceki modelin tıpa tıp aynısı. Aslında bu, burada test merkezimizde biraz soruna bile yol açtı; çünkü biz laboratuvarımızda

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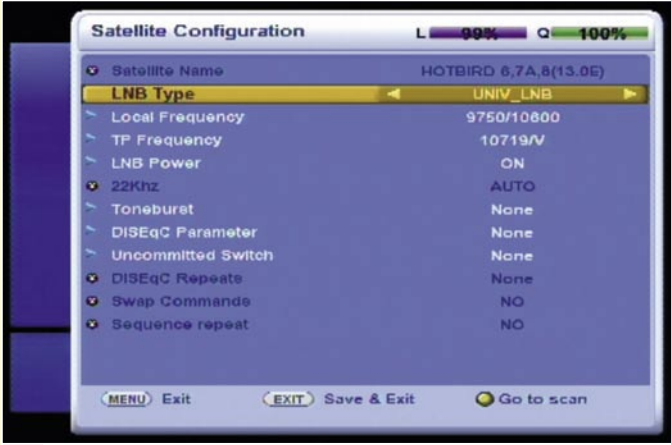
Available online starting from 27 March 2009

hala 900HD kullanıyoruz. Çalışma sinyalleri aynı, bu kumandaları (900HD/910HD) önceki IPBox'ları kullanmak üzere de programlayabilirsiniz. İsterseniz bu kumandalarla televizyonunuzu da kumanda edebilirsiniz. Kullanıcı kitapçığında tercih yapabileceğiniz yüzlerce TV modeli içinden evinizde olanı seçip kodlarını girmek bunun için yeterli. Kumandanın dizaynına gelince, önceki modelde söylediklerimizin arkasındayız; üzerinde tonlarca düğme var; ama öylesine mantıklı şekilde yerleştirilmiş ki çok hızlı ve kolay bir şekilde alışıyorsunuz. Ve uydu alıcının her bir özel fonksiyonu için özel düğmelerle ilk kurulumda da yanlış yapmak pek kolay bir şey değil.

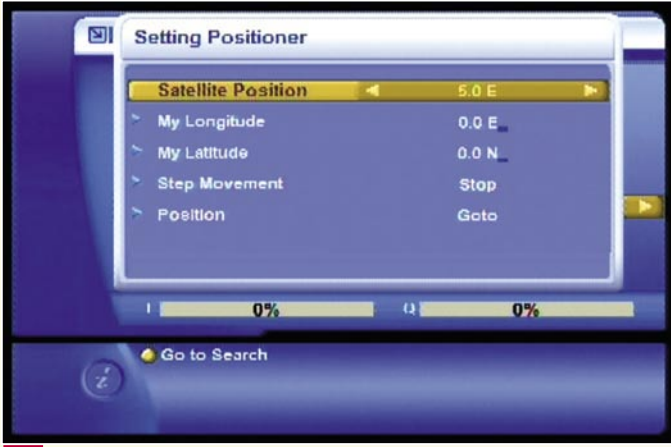
İlk kurulum

İlk bakışta ABCom'n resmi yazılımının pek fazla değişmediği görülüyor. En azından başlangıçta. Aynı sihirbaz, sizi ekran üstü menüler (OSD) için dil seçimi yapacağınız ekrana götürüyor. Bunlar: İngilizce, Rusça, Fransızca, İtalyanca, Flemenkçe, Almanca, Danca, Çekçe, Slovakça, Macarca, Norveççe, Lehçe, Portekizce, İspanyolca, İsveççe, Yunanca, Türkçe, Korece, Hırvatça, Bosnaca, Sırpça, Bulgarca, Romence ve Fince. Ses, alt-yazı ve teletext için ayrıca dil seçimi de yapabiliyorsunuz. Yerel saat ayarlarına gelince, yine burada da sizi geniş bir seçenek yelpazesi bekliyor. İsterseniz kendiniz saati girebildiğiniz gibi cihazın uydu





Uydu Konfigurasyon



USALS ayarları

sinyalinden bunu otomatik olarak almasını da isteyebilirsiniz. Yaz saati gibi uygulamaların desteklendiğini de söyleyelim.

Sonraki adım için anteninizin de bağlı olması gerekiyor. Eğer cihazınız uydu yayınları içinse kırmızı düğmeye basıp izlemeyi düşündüğünüz uyduları tek tek ekliyorsunuz. Her uyduyu bağımsız LOF değerleriyle aynı ekran üzerinde ayarlayabilirsiniz. Tüm DiSEqC protokolleri (1.0, 1.1, 1.2 ve 1.3) destekleniyor. Bu özellikleriyle AB IPBox 910HD uydu sisteminizin kalbi olmaya aday. İzlemek istediğiniz tüm uydular bulunduğunda "Exit" düğmesine basarak kurulum sihirbazının ekranına dönebilirsiniz.

"sarı" düğmeye basarak bir sonraki adıma, kanal aramaya geçiyorsunuz. Görünen ekranın iki seçeneği var: Otomatik ve Manuel. İsimlerinden fonksiyonları açıkça anlaşılıyor. Birinci seçenekte, hafızadaki ya da bulunmuş NIT

frekanslarına bakarak kanal tararken, diğerinde parametreleri kendiniz giriyorsunuz. Hiç şüphesiz DVB-S2 FEC modülasyonu ve özellikleri de unutulmamış.

Düzenli otomatik veya elle kanal tarama hızı Schumacher'in pek seveceği cinsten sayılmaz; ama normal bir izleyici için fena değil. 105 transpondörlü bir uyduyu taramak cihazın 9 dakikasını aldı. İlk kanalın görüntüsünü bir an önce görmek isteyen sabırsızlar için ekranda bir "Quick load" özelliği var. Bu doğrudan hafızadaki kanal listesini yüklüyor. Ama o anki güncel listeyi görmek istiyorsanız sabırlı olmalısınız.

Tüm diğer seçenekler ana menüde mevcut. Bu menü de bizde de bu duyguyu yarattı ilk anda. Ama programcıların uzun süredir bunun üzerinde çalıştığını biliyorduk ve yeni bir şeyler olması gerek! Diye düşünüyorduk. Burada tüm ekran parametrelerini, ekran görüntü oranlarını, TV siste-

mini, Dolby, Scart, HDMI ve S/PDIF çıkış formatlarını seçmek mümkün. Burada 910HD'nin yerel ağ/internet üzerinden sabitdisk parametrelerini kontrol edip gerektiğinde sıfırlamasına yarayan bir alt menü karşımıza çıktı. Ayrıca bir DivX oynatıcısı da eklenmiş. Ama multimedya özelliklerinin üzerinde ayrıca durmak gerekiyor, o yüzden biraz sabır!

Nerde kalmıştık? Ah, evet, sonuç olarak bu bir uydu alıcısıydı. Öyleyse Linux, Telnet ve FTP ile çılgın deneyler yapmadan önce temel özelliklerine bakıp, dijital yayınları izlemede o kadar başarılı olup olmadığını görelim.

Günlük Kullanım

Kanal listesi 900HD ile birebir aynı görünüyor. Çeşitli sıralama seçenekleri ile kanalları alfabetik, şifreli/şifresiz, uydu veya yayıncı özelliklerine göre sıralayabiliyorsunuz. Kumanda üzerinde sarı düğmeye bastığınızda "jump" fonksiyonu aktive oluyor ve eğer çoklu uydu sisteminiz ve binlerce kanalınız varsa, çok faydalı bir özellik sunuyor. Örneğin harf sıralamasında bir sonraki harfe atlıyor. Ancak yine de organizasyonda bundan çok daha iyi, örneğin istediğiniz kanalları hemen istediğiniz favori listesine atan FAV düğmesini unutmamak gerek. 5 önceden programlanmış favori grubu var: Spor, Drama, Haberler, Film ve Müzik. "i" düğmesine basarak istediğiniz kadar yenisini de yaratabilir, ya da mevcut olanları, silebilir, yeniden adlandırabilir, taşıyabilir, düzenleyebilir veya kilitleyebilirsiniz.

Ana kanal listesinde "i" düğmesine basarak benzer düzenleme seçeneklerine ulaşıyorsunuz. Bunlara 900HD'nin sevdiğimiz özelliklerinden her kanal için ayrı ses ayarı yapmak da dahil. Bu, eski bir soruna bulunmuş yeni ve şık bir çözüm. Kim bilir kaç defa sizin de başınıza gelmiştir, kanallar arasında

zap yaparken birden bire bir kanala gelirsiniz ve birden bire ses odanın içinde patlar. Şimdi artık yapmanız gereken sadece o kanal için ses ayarını yapmak ve hepsi bu! Artık hiç kimse televizyon seyrederken fazla gürültü yaptığından şikayet etmeyecektir.

Hazır kanal zaplamaktan söz açılmışken söyleyelim 910HD zap tutkunlarını çıldırtacak bir cihaz değil; ama 1 saniyelik kanal geçişleri normal izleyiciler için mükemmel. Aynı transpondör üzerindeki kanallar arasında biraz daha hızlı olabiliyor ya da DVB-S ve DVB-S2, veya SDTV ve HDTV geçişlerinde biraz daha yavaş. Ama şundan emin olabilirsiniz, hiçbir kanal sizden kaçamayacak. Hatta HELLAS SAT 2 uydusundaki Calabria Channel gibi SCPC kanalları bile artık sadece 1425 SR değeri ile elinizin altında.

PIP de yine önceden olduğu kadar iyi. Aynı transpondör üzerindeki iki kanal ekranda eşit boyutlardaki pencerelerde izlenebiliyor. İstenildiğinde ikincisi, birincinin arkasında daha küçük bir pencerede gösterilebileceği gibi, kanalların yerleri de değiştirilebilir. Kumanda 900HD ile aynı olduğu için yine aynı şekilde üst taraftaki ikinci sıra bunun için kullanılabilir.

Hoş ve kullanıcı dostu iki modlu EPG'de yerinde duruyor. EPG düğmesine birkez basmanızla seçili kanalla ilgili yayın listesi; ikinci kez basıldığında gerçek bir kanal rehberine kavuşuyorsunuz. Bu şekilde diğer kanalların yayınlarını da ekranda görebiliyorsunuz. Tabii, hiç kuşkusuz bunun için yayıncının bu bilgiyi sunuyor olması gerekli. Uzaktan kumanda üzerinde kırmızı dairesel düğmeye sadece birkez basarak sevdiğiniz programı başladığında kayıt için hafızaya almış oluyorsunuz.

Güçlü PVR özelliklerinin ortaya çıktığı yer de işte tam burası. 910HD ile sadece istediğiniz şekilde harici bir disk



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USB veya E-SATA porta bağlamakla sınırlı değilsiniz. Çünkü cihazın içinde zaten bir sabit disk var. Bizim test modelimiz 500GB bir sabit diskle gelmişti. Bu, PVR kayıtlar için yeterli olmanın ötesinde DivX filmler ve MP3 dosyalar için de yeterli bir büyüklük. Hazır PVR'den konuşurken "Envelope" düğmesinden de bahsedelim. Bu düğmeyle kayıtlarınıza ve güçlü zaman kaydırma fonksiyonuna sadece birkaç tıklamayla ulaşabiliyorsunuz. Bunun için "Advanced Setup" - "HDD setup" menüsünde bunu aktive etmeniz yeterli, daha sonra canlı yayınları durdurmanın büyüsunü siz de yaşayabilirsiniz. Sevdiğiniz bir programı izlerken, birden bir kesinti olduğunda yayını dondurup, işiniz bittiğinde tekrar kaldığınız yerden izlemeye devam edebilirsiniz. Bu şekilde canlı yayını dondurmak ve beğendiğiniz bir anı tekrar izlemek de son derece kolay. Tüm bunları yapabilmek için bir astronot olmanıza da gerek yok, her şey sadece bir iki tıklamayla çok kolay yapılıyor çünkü!

Multimedya Seçenekleri

900HD/910HD yazılımları sürekli olarak geliştirildiği için her iki alıcı da şu anda Sabit disklerde veya USB çubuklarda kayıtlı video dosyalarını oynatabiliyor, fotoğraflarını gösterebiliyor. Bu tip dosyaları FTP üzerinden yüklemek de mümkün: (bunun için "İleri ayarlar"da cihazın IP bilgisini almalısınız. "medya" klasörü için UserID olarak "root" ve "ipbox"ı da şifre olarak seçebilirsiniz).

"Multimedia"alt menüsünde de bazı PVR fonksiyonları var. Bunlardan "Kayıtlı dosyalar" kayıtlı PVR dosyalarını "Kayıt sırası" ile eski usül video programlamayı yapabilirsiniz. Diğer üç seçenek yukarıda bahsettiğimiz büyük dosyalar için gerekli. Fotoğrafları isterseniz üzerlerine tıklayarak tek tek veya sarı düğmeyle slayt show şeklinde izleyebilirsiniz. MP3 oynatıcı kullanıcıyı daha gelişmiş bir ekranla selamlıyor. Bu ekranda hem normal çalıştırma düğmelerini hem de

o sırada dinlediğiniz parçanın saati ve bithızı görölüyor.

Yukarıdaki için yapılacak pek eleştiri olmasa da Video/DivX oynatıcı için yapılacak şeyler olabilir. Bir bilgisayarda sorunsuz izlediğimiz deneme filminde 910HD ses ve görüntü arasındaki senkronizasyonu sağlayamadı. Görüntü sesin hep 1, 2 saniye

arkasında kalıyordu. Yine de çalışıyor ve senkronizasyon meselesinin üstesinden guncellemelerle kolaylıkla gelenebilir diye düşünuyoruz.

Yazılım güncelleme

Böyle güçlü ve gerçekten universal bir alıcı için yazılımın güncel olması son derece



önemli. Çünkü sahip olduğu devasa potansiyeli henüz bütünüyle ortaya koymuş değil. ABCom bunu basitleştirmeye çalışmış, güncellemeleri bizzat cihazın içinden indirip yükleyebiliyorsunuz. Bunun için artık harici cihazlar kullanmanıza gerek yok. Ama maalesef, bazı şeyler tamamen yanlış gitmiş gibi

görünüyor. Elimizdeki 910HD modelinin versiyon numarası 8340 olduğu halde üreticinin web sayfasında en son versiyonunun 8360 olduğu yazılıydı. Bunun için en normali "İleri Ayarlar"- "Ağ güncelleme" menüsüne gitmekti. Biz de bunu yaptık. Ama burada karşımıza ne çıktı dersiniz? İki eski versiyon! Bu sorunun

üretici tarafından kesinlikle çözülmesi gerekiyor. Cihazın yazılımını güncellemek için uzun yolu seçmek ve USB çubuk kullanmak zorunda kaldık.

Donanım açısından bakıldığında AB IPBox 910HD insanda dileyebilecek bir şey bırakmıyor. Gerekli tüm bağlantılar, tuner değiştirme seçenekleri, tak

çalıştır, DVB-S ve DVB-S2, MPEG-2 ve MPEG-4, HDTV ve SDTV sinyalleri hepsi burada mevcut. Hatta isterseniz tüm favori filmlerinizi, müziklerinizi ve fotoğraflarınızı sabit diskine kopyalayabiliyorsunuz. Oyun oynayabiliyor, hava tahminlerini okuyabiliyorsunuz. İnternetteki yüzlerce yazılım eklentisini indirebilir. Ya da alternatif yazılımlarla cihazı bambaşka bir şeye dönüştürebilirsiniz.

ABCom, ev ödevini yapmaya devam ediyor. Her ne kadar 910HD'deki her şey sorunsuz olmasa da, gelecek için iyi bir seçenek olduğuna hiç kuşku yok!



ab-com



Uzman Görüşü

+

Hemen hemen herkesi tatmin edebilecek bir uydu alıcısı; yazılımı istenildiği gibi değiştirilebiliyor.

Resmi yazılımı yüklenildiğinde, kullanması çocuk oyuncu gibi. Tıpkı resimli çocuk gibi okur gibi kolaylıkla her şeyi görebiliyorsunuz.

Alternatif bir yazılım DX'çiler için müthiş olabilir.

Tam esneklik ve evrensellik, DVB-S, DVB-S2, MPEG-2, MPEG-4, HDTV ve SDTV yayınlar mükemmel izlenebilir.

Dahili sabit disk bağlayabilme olasılığı, harici disklerle gelen kablo karmaşası ve kirliliğini engelliyor, ama istenirse harici medyalar da kullanılabilir.

Gerçek bir multimedya harikası. Uydu/kablo/karasal dijital yayınları tek bir cihazda birleştirmekle kalmamış, aynı cihazla müzik dinleyebiliyor, DivX film izleyebiliyor; fotoğraflarınıza bakabiliyorsunuz.



Nickolas Ovsyadovskiy
TELE-satellite
Test Center
Hungary

-

Kanal arama ve kanal geçişleri biraz daha hızlı olabilir.

DivX oynatıcı kontrol edilmeli ve görüntü ses senkronizasyonu sağlanmalı.

Arka paneldeki soğutucu fan daha sessiz bir modelle değiştirilebilir.



Kanal Listesi |



PIP modu ve kanal seçimi |

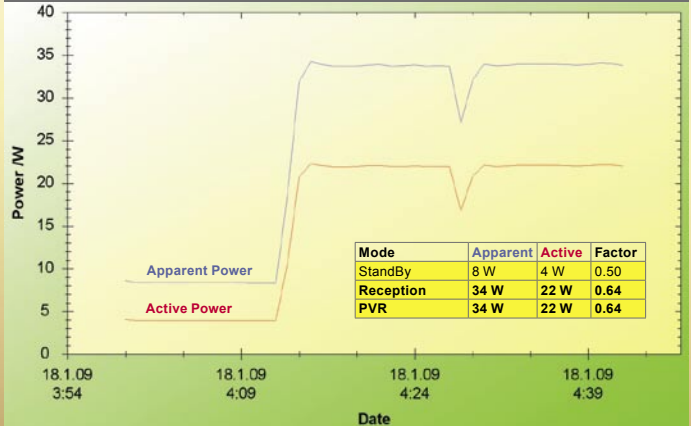
TECHNIC DATA

Manufacturer	AB-COM s.r.o., Gogolova 1, 955 01 Topolcany, Slovakia
Tel	+421-38-5362611
Fax	+421-38-5322027
Internet	www.abipbox.com
Email	info@abcom.sk
Model	IPBox 910HD
Function	Digital Linux-based HDTV PVR receiver for DVB-S, DVB-S2, DVB-C and DVB-T reception
Channel Memory	10000
Symbol Rate	1-45 Ms/sec.
SCPC	yes
DiSEqC	1.0/1.1/1.2/1.3
USALS	yes
Scart	1
HDMI	yes
A/V output	3 x RCA
YUV output	3 x RCA
UHF output	no
S-Video output	no
0/12 volt connection	no
Dig. Audio connection	yes
Ethernet port	yes
USB 2.0 port	yes
RS-232 interface	yes
EPG	yes
C/Ku band compatible	yes
Power Supply	110-245 VAC, 50/60 Hz
Dimension	300x60x240 mm



SCPC sinyali sadece 1425 SR degerinde! |

ENERGY DIAGRAM



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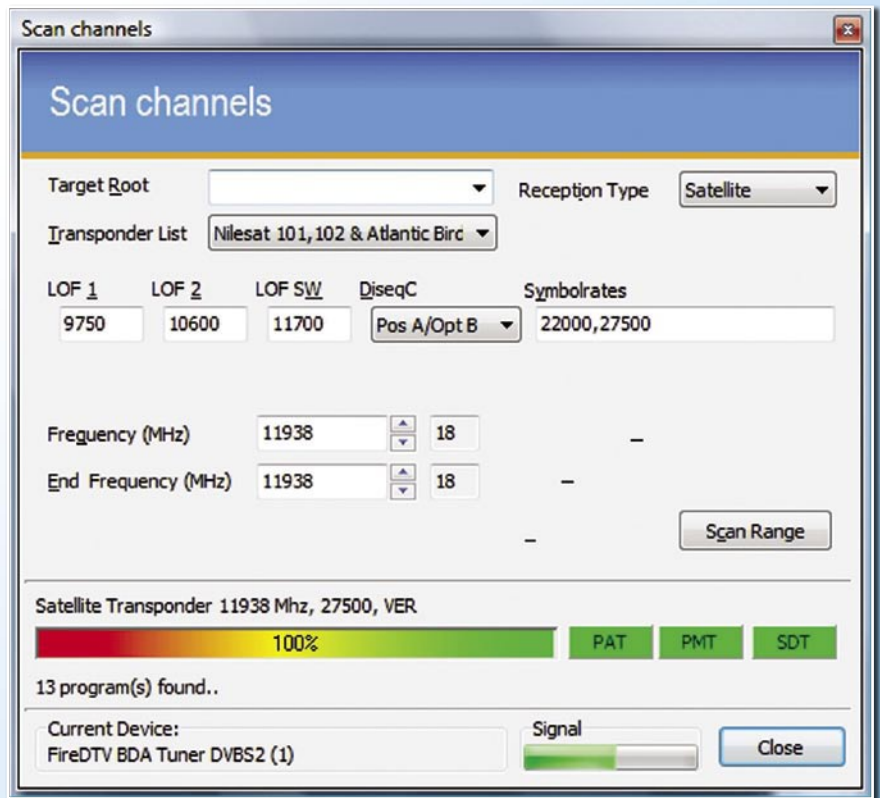


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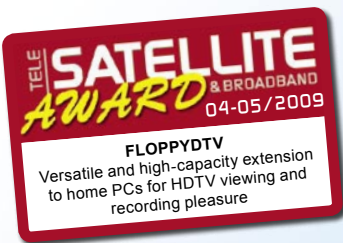
FloppyDTV Perfect DVB-S/2 Solution for the PC

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

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



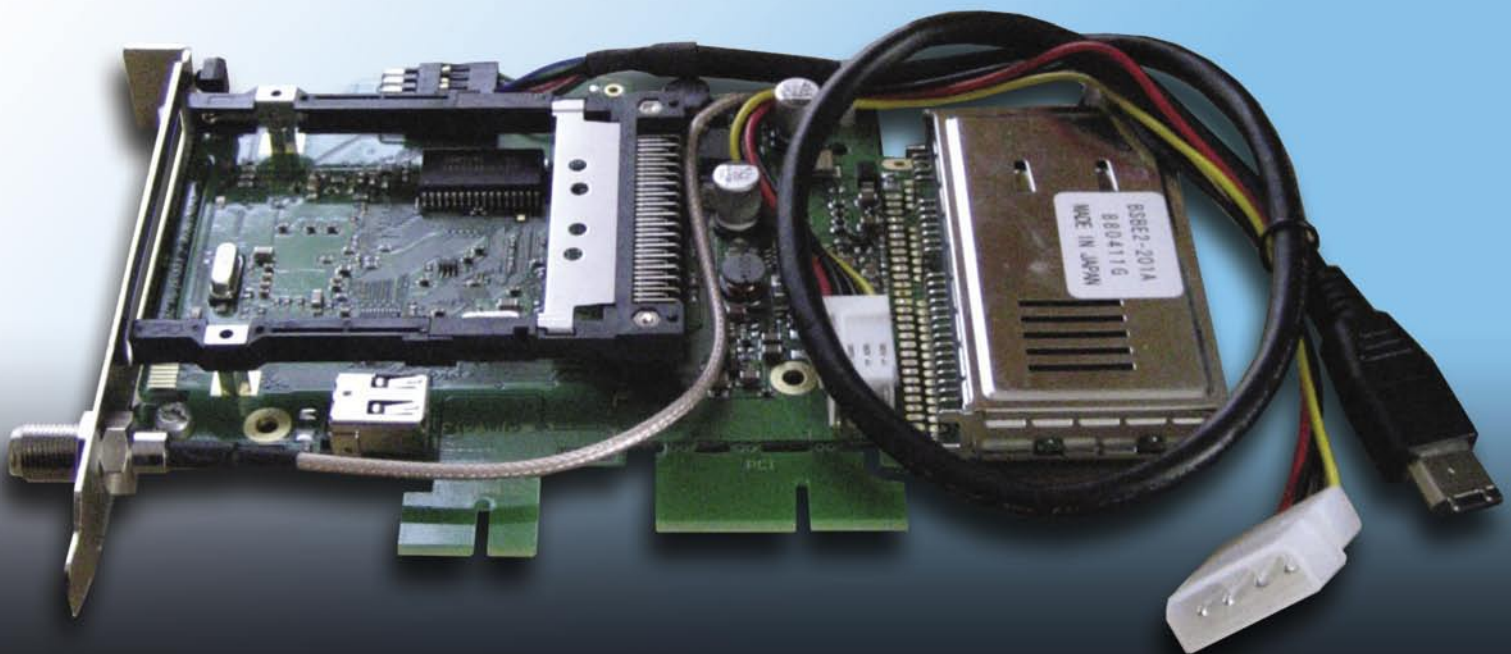
Transponder scan on NILESAT 7° West |



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

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

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



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satellite
Electronic Systems



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

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

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

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

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

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

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

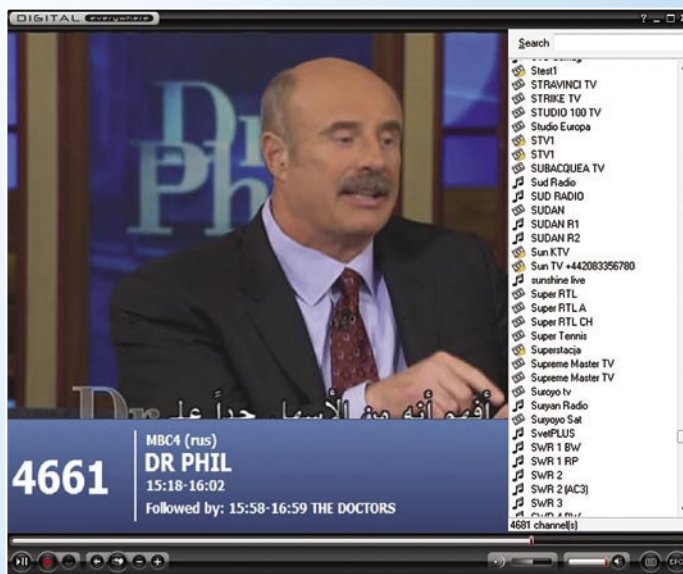
DVBSHOP ships three versions of the FloppyDTV card: DVB-S/2, DVB-C and DVB-T. It's a pity that the card is not designed for swapping tuners because the tuner is permanently soldered onto the printed circuit board. A tuner that could easily be changed even by users with only moderate technical skills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

Installation

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



Channel list sorted according to providers |



Channel list sorted alphabetically |



Channel 4 HD with info bar |

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

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

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

Apart from the provided FireDTV Viewer you may also

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

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

Everyday use

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

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

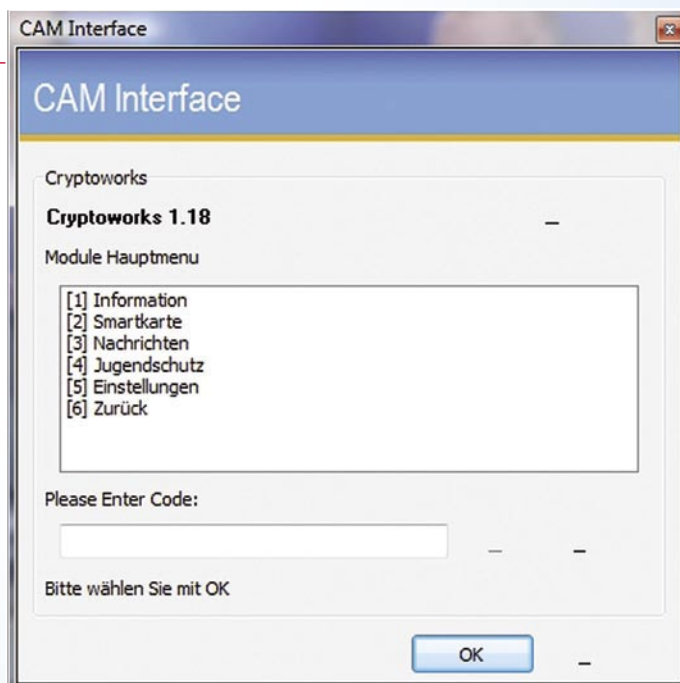
The control bar is located at the lowest end of the FireDTV Viewer and can be used to control the viewer. Altogether it boasts eleven buttons, which are (from

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

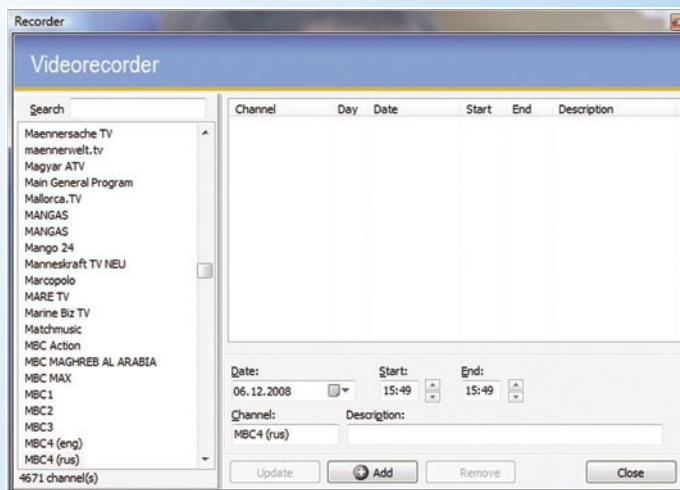
Once the installation process is finished the software is ready to perform its first channel scan. The FireDTV Viewer comes with a pre-stored list of 153 European, Asian and American satellite positions which is quite up-to-date and well sorted. Any required LOF can be used which means that the good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

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

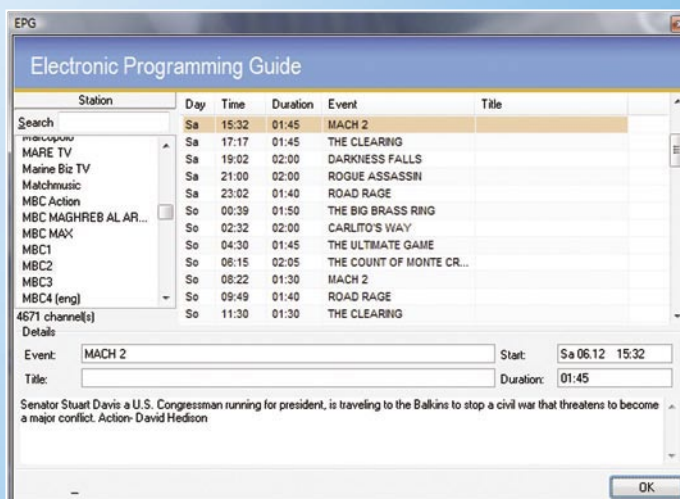
The pre-stored transponder list allows performing a channel scan either across the full frequency range of a satellite or for a restricted range. Alternatively, a single transponder can be chosen for a scan as well. Each scan result is saved separately with an individual time stamp by the software and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



CI menu |



PVR timer function |



Extended EPG |

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

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

Now that the channel list is

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

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

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

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

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

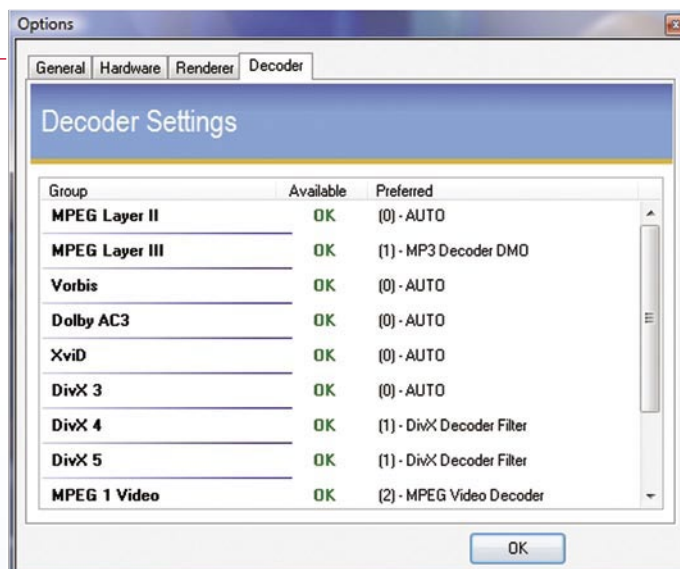
for up to a week in advance, if provided for the selected channel. Naturally you can mark EPG entries for recording with a simple touch of a button – we would not have expected anything less for a premium product anyway.

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

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

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

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



Selection of different codecs!

Expert Opinion



+

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

-

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

TECHNIC

DATA

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

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

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

as an equally capable graphics board.

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

OPENSAT 3000CRCI PVR

Büyük Özelliklere Sahip Küçük Bir Alıcı



OPENSAT 3000CRCI, PVR özelliğiyle kayıt yapabilen küçük bir CI uydu alıcısı. Şaşılacak kadar küçük boyutlardaki bu cihazı istediğiniz her yere kolayca koyabiliyorsunuz. Ön panelde dört segmentli bir gösterge ve sol üst köşede standby düğmesi bulunuyor. İtmeli kapakçığı saymazsak, tüm diğer bağlantılar arka panele yerleştirilmiş.



DIGITAL SATELLITE RECEIVER • 3000 CRCI PVR

İtmeli kapakçığı açtığınızda, altından, uzaktan kumanda olmadan da cihazı kullanabilmenizi sağlayan düğmeler ve Irdeto, Seca, Viaccess, Cryptoworks, Conax ve Nagravision gibi modüllerle kullanabileceğiniz bir CI modülü ve bir de USB arabirimi çıkıyor.

Arka panelde ön panel gibi hoş bir görünüme sahip. Arka

panelde genel olarak kullanılan IF girişi ve aktarması, 2 Scart bağlantısı, stereo ses ve görüntü için 4 RCA jak, 0/12 Volt kontrol, optik dijital ses çıkışı, UHF modülatör çıkışı, RS-232 arabirimi ve mekanik açma kapama düğmesi bulunuyor.

Uzaktan kumanda ise ele çok iyi oturuyor, harika bir tasarımı var, düğmelerin üzerindeki yazılar son derece okunaklı. OPENSAT menüsü

oldukça anlaşılır olduğu halde, üretici kapsamlı bir kullanıcı kitapçığını da cihazla birlikte veriyor. Bu kitapçıkta cihazla ilgili aklınıza gelen bütün soruların cevabını anında bulabiliyorsunuz. Kitapta, cihazın bütün menüleri ve seçenekleri görüntülü olarak gösterilmiş ve gerektiğinde çizimlerle ve açıklamalarla desteklenmiş.

3000CRCI'nin işçiliği de oldukça iyi ve test sırasında bize cihazla ilgili hiçbir problem yaşatmadı.

Günlük Kullanım

Cihazın kurulum sihribazı yok. Bu durumda işlemleri en baştan başlayarak sizin yapmanız gerekiyor. Önce dili seçmelisiniz doğal olarak, dil menüsünde arasından seçim yapabileceğiniz diller: İngilizce, Fransızca, Almanca, İtalyanca, İspanyolca, Türkçe, Lehçe, Farsça, Slovakça, Farsça, Slovence, Çekçe ve Macarca. Ana menü oldukça net bir şekilde altı bölüme



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Polish	Polski	www.TELE-satellite.com/TELE-satellite-0905/pol/opensat.pdf
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Available online starting from 27 March 2009

OPENSAT

DVB
Digital Video
Broadcasting

OPENSAT

bölünmüş (Kanal listesi, anten ayarları ve arama, uygulamalar, oyunlar ve PVR) İlk adım olarak uydu alıcınızın ayarlarını Televizyonunuza göre ayarlıyorsunuz.

PAL, PAL-M, PAL-N, SECAM ve NTSC sistemleri desteklenmiş ve bunları manuel olarak elle seçebileceğiniz gibi isterseniz ayarı 'auto' olarak bıraktığınız takdirde uydu alıcısı kendisi her şeyi otomatik olarak yerine getiriyor.

Görüntü sinyallerinin çıkışı RGB veya CVBS olarak seçilebiliyor, S-video ve YUV çıkışları maalesef yok. UHF modülâtörü de menü içinde açılabilir. Bu menüde 21'den 69'a kadar kanallardan birini seçebiliyorsunuz.

Tüm DVB cihazlarında olduğu gibi OPENSAT 300-0CRCI saati uydudan gelen saate göre otomatik olarak ayarlayabiliyor. Ama isterseniz saatin doğru olduğundan emin olmak için bulunduğu bölge ile GMT arasındaki farkı girebiliyorsunuz. Cihaz belli saat dilimleri için ünlü şehirleri vererek bulunduğu saat dilimini daha kolay seçmenizi sağlıyor.

Ayrı bir menüde de yaz saati uygulaması destekleniyor böylece saatinizi değiştirip değiştirmediklerinize dair kaygılanmanıza gerek kalmıyor. OSD ve kanal geçiş opsiyonları gibi bazı ilave özellikler bu menüyü tamamlıyor.

Daha sonra, cihazınızı uydu anten sisteminize bağlıyorsunuz. Cihazın hafızasında 44 Avrupa uydusu son derece güncel transpondör bilgileriyle mevcut.

Renkli düğmeleri kullanarak

yeni uydular ekleyebilir, ya da mevcut kayıtları düzenleyebilir, ya da istemediklerinizi silebilirsiniz.

Uydu alıcısına bağlı olduğu sistemi tanıtırken seçenekleriniz son derece geniş. Motorlu, sabit antenler olduğu gibi DiSEqC protokolleri 1.0, 1.1, 1.2 ve 1.3 (USALS) cihaz tarafından destekleniyor. DiSEqC 1.1 protokol desteği ile çok LNB'li sistemleri de OPENSAT'a bağlayabiliyorsunuz. Aynı şekilde otomatik olarak tüm uyduları bulabilen USALS motorları da bu alıcıyla kullanabilirsiniz.

Çeşitli LOF değerleri cihaza kaydedilmiş ve C bant yayınlarının da izlenebilmesi amacıyla hafızaya alınmış. Yani Ku bant dışında yayınlar da izleyebilirsiniz. Hatta dairesel LNBF'ler de cihazla birlikte kullanılabilir. Tüm bunlar hep birlikte düşünüldüğünde LOF değerlerinin genişliği oldukça etkileyici. Ancak yine de belirtelim istediğiniz LOF değerlerini kendiniz giremiyorsunuz.

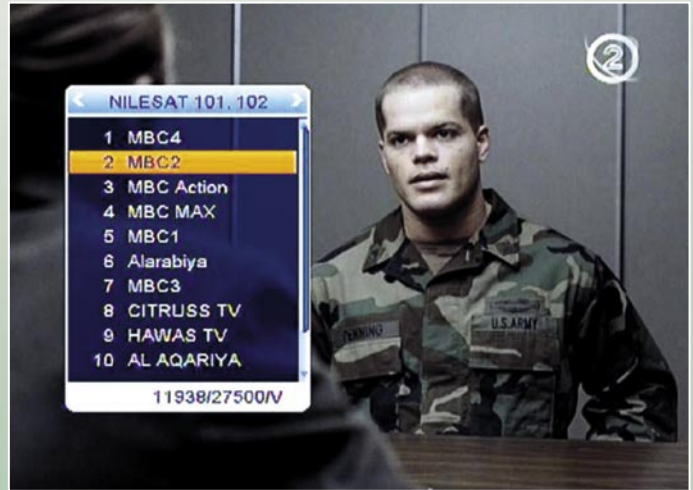
3000CRCI modeli 4000 kanal hafızasına sahip. Bu hafızayı doldurmak için önce otomatik kanal taramasıyla bir ya da bir kaç uydudan neler bulabileceğinizi görmelisiniz. Tabii isterseniz transpondör taraması da yapabiliyorsunuz. Her iki seçenekte de taramayı sadece şifresiz kanallar, sadece TV, sadece radyo veya



NILESAT 7 Batı Uydusunda Transpondör Listesi |



EPG |



Kanal Listesi |



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- Quality indicator (Pre BER) displayed alongside RF Level (dBuV)
- 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
- USB lead supplied
- CE approved
- Compliant with EN 61326-1 : 2006 (EMC) and EN 61010-1 : 2001 (Electrical safety)
- Registered design
- Free product support via phone and email

HDSM USB PLUS (additional features)

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- QPSK Constellation Diagram (with zoom function)
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- Data Logging (upload installation measurement data to your PC)

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- Can store up to 32 transmitter selections (via our web site downloads) a default of UHF 21 – 69 step through is preloaded.
- Built in intelligent universal mains charger 100 – 240V AC (CE approved) with V delta detection for fast and then trickle charging.
- Minimum run time of 5 hours with a full charge on the 2400 mAh NiMH battery.
- Computer interface: Serial Port (Com 1-4) for upgradeable software on transmitters.

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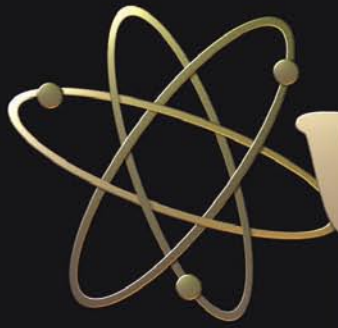
Kanal Liste düzenleme |



Bilgi kutucuğu |



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email: subursmt@gmail.com
<http://subursmt.com>
INDONESIA



9 kanallı çoklu görüntü |

Sadece Radyo ve TV şeklinde belirleyebilirsiniz. İstediği takdirde Network taraması da aktive edilebiliyor.

Dahili kör tarama modunda ise cihazın listesinde bulunmayan transpondörleri tarayabiliyorsunuz.

HOTBIRD 13° Doğu uydusu üzerinde yaptığımız taramayı OPENSAT, 3:20 dakikada tamamladı ve 1235 TV, 456 radyo istasyonu buldu. Kör tarama aktive edildiğinde, aynı uydu beş dakikadan biraz

daha uzun bir sürede tamamlandı ve 1132 TV ile 431 radyo kanalı bulundu. Her iki sonuç da oldukça tatminkar. Üstelik otomatik moda olduğu düşünülürse sonuçların görüldüğünden daha iyi olduğu da anlaşılır.

Manuel taramada belirli transpondörleri seçebilir, düzenleyebilir, sıralayabilir, yenilerini ekleyebilir ya da mevcutlar içinde bazılarını silebilirsiniz. Yine burada, uzaktan kumanda üzerindeki renkli düğmeleri kullanarak

bütün bu işlemleri çok daha kolay bir şekilde de halledebilirsiniz. Burada eksik olduğumuz tek şey PID girişinin olmayıştı. Cihazın bu özelliği bulunmuyor.

Kanal hafızasının 4000 ile sınırlı olduğunu düşünürsek, kanal listesinde düzenlemeler yapmak gerektiği ve özellikle istemediğiniz kanalların hemen silinmesi kendiliğinden anlaşılır. Böylece hiçbir zaman izlemeyeceğiniz kanalların listesinde boşu boşuna yer kaplamasını ve sizden

yer çalmasını da engellemiş olursunuz. Tüm bu işleri ana menüdeki kanal listesi düzenleme alt menüsünde yapabiliyorsunuz. Tabii ki söylemeye bile gerek yok, TV listesini olduğu gibi radyo listesini de istediğiniz gibi düzenleyebilirsiniz.

Bu yazıyı okuyan tüm DX'çiler için söyleyelim. Cihazınızın diğer hiçbir ayarına dokunmadan, ya da sıfırlama yapmadan sadece kanal listesini istediğiniz takdirde bir defada silebiliyorsunuz.

Düzenleme modundayken, ya tüm kanallar aynı anda ekrana geliyor, ya da kullanım kolaylığı açısından sadece istediğiniz uyduyu seçebiliyorsunuz.

Uzaktan kumanda üzerindeki renkli düğmeler burada da favoriler listesine kanal eklemek, silmek, ya da kanalları taşımak için kullanılıyor. Bu favori listelerini istediğiniz gibi isimlendirmeniz de mümkün. Bu listelerdeki kanalları istediğiniz takdirde PIN kodu vererek kilitleyebilir ve böylece ailenizin küçük üyelerinin istemediğiniz yayınları izlemesini de önlemiş olursunuz..



Listedeki kanalları isterse-
niz, kanal zaplarken atlamak
üzere işaretleyebilirsiniz.
Düzenleme menüsündeyken
izlediğiniz yayın ekranın sağ
köşesinde küçük bir pen-
cere içinde görülmeye devam
ediyor.

Uzaktan kumanda üzerin-
deki kırmızı düğmeye basıl-
dığınızda bir arama kutucuğu
çıkıyor ve buraya istediğiniz
kanalın adını girdiğinizde ara-
dığınız kanal hemen karşınıza
çıkıyor. Bu özellik kendi başına
bile bir tanrı nimeti sayılırken,
OPENSAT bunu üstelik kulla-
nıcı dostu bir biçimde yaparak
bir adım daha öne geçmiş.

Cihazın baştan itibaren üze-
rimizde bıraktığı olumlu etki,
zoom fonksiyonu, dahili tele-
text dekoderi ve dokuz kana-
lın aynı anda gösterildiği çoklu
resim moduyla iyice bütünleş-
miş oldu.

OPENSAT son derece düşük
eşik değeri olan bir tuner kul-
lanıyor ve NILESAT 7 derece
Batı veya ASTRA2D 28° Doğu
gibi uydulardaki en zayıf sinyalleri
bile rahatlıkla izleme-
mizi sağladı.

SCPC sinyallerinde yaptı-
ğımız test de hiç sorunsuzdu

ve TURKSAT uydu üzerinde
sadece 2400 KS/s değerini-
deki sembol hızında yaptığı-
mız deneme 3000CRCI için
hiç sorun çıkarmadı.

Dahili CI arabirimi de test-
lerimizde aynı şekilde sorun-
suz çalıştı ve taktığımız bütün
modülleri kolayca tanıdı.
Dahili Conax kart okuyucu
da taktığımız kartı rahatlıkla
okudu. RS-232 arabirimi ile
mevcut cihaz yazılımını gün-
celleyebileceğiniz gibi yeni
kanal listesini de cihaza yükleyebilirsiniz.
Bunun için OPENSAT bir bilgisayar programı
da hazırlamış ve bu program
SatcoDX uyumlu ve en son
kanal, transpondör bilgilerini
cihaza buradan yükleyebili-
yorsunuz.

PVR

OPENSAT 3000CRCI PVR
uydu alıcısının PVR özelliğini
merak ediyorsanız hemen
söyleyelim. Bu tamamen USB
2.0 bağlantısı ile ilgili bir özel-
lik. Ön paneldeki kapakçığın
altında gizli bu bağlantıyla
OPENSAT tam donanımlı bir
PVR alıcısına dönüşüyor.

Buraya istediğiniz hafıza
kartı, USB çubuğu ya da sabit

diski bağlayabilirsiniz. Cihaz
sadece birkaç saniye içinde
bunu tanıyor. Bu andan baş-
layarak da tüm PVR fonk-
siyonları aktif hale geliyor.
İstediğiniz anda izlediğiniz
yayını kaydedebiliyor, kayde-
dilmiş yayınları izleyebiliyor
ve tabii zaman kaydırma özel-
liğiyle canlı yayınları dondurabiliyorsunuz.

Özellikle zaman kaydırma
fonksiyonu sayesinde, bir
daha güzel bir filmin orta
yerinde telefon çaldığında
sadece pause düğmesine
uzaktan kumanda üzerinde
basarak yayını dondurabilir.
Telefon görüşmesini yaptıktan
sonra kaldığınız yerden filmi-
nizi izlemeye devam edebilirsiniz.
Doğal olarak, tüm PVR
özelliklerini test ettik. Burada
karşımıza herhangi bir sorun
çıkmadı. Zaman kaydı özelli-
ğiyle sekiz kayıt yapılabilir ve
bunları günlük, haftalık olarak
ayarlayabilirsiniz.

TV ve radyo yayınları
dışında cihaz MP3 çalar olarak
da kullanılabilir. Ya da ister-
seniz harici sabit diskinizdeki
fotoğrafları TV ekranından
izleyebilirsiniz. Bu özellik-
leri sayesinde cihazı isterse-
niz evde verdiğiniz partilerde

müzik kutusu olarak da kulla-
nabilirsiniz.

Yazılım güncellemeleri USB
arabirimi üzerinden de yapı-
labiliyor. Bunun için yapma-
nız gereken sadece üreticinin
web sitesinden en son yazılımı
indirip bunu USB çubuğa kop-
yalamak ve daha sonra bunu
cihaza takıp güncelleme işle-
mini başlatmaktan ibaret.

OPENSAT 3000CRCI PVR
alıcısının tek dezavantajı, üze-
rine kayıt yapmak istediğiniz
harici cihazları ön panelden
bağlamak zorunda olu-
şunuz. Yani, ön paneldeki o şık
görüntü, siz kapakçığı açtığı-
nızda cihazın içi görüldüğü
için bozuluyor ve ortaya hoş
olmayan bir görünüm çıkıyor.

Hoşumuza giden ise, kayıt-
ların bilgisayarda kolayca
düzenlenebilmesi ve DVD
üzerine kolayca yakılabilmesi
oldu. Kayıtların taşınabilir
cihazlara yapılabilmesi saye-
sinde bu iş çok kolay. Yapma-
nız gereken kayıttan sonra
harici medyayı bilgisayara
bağlamak ve devasa büyük-
lükteki dosyaları göz açıp
kapayınca kadar bilgisaya-
rın aktarmaktan ibaret.



OPENSAT

Uzman Görüşü

+

OPENSAT 3000CRCI PVR, tam donanımlı bir PVR uydur alıcısı ve kullanım kolaylığı ve küçük boyutlarıyla her oturma odasına kolayca girebilir, ailenin bütün üyeleri tarafından hemen benimsenebilir. İşletim sistemi, kullanıcı düşünülerek hazırlanmış ve testlerimizde mükemmel çalıştı. OPENSAT donanım olarak da eksiksiz bir cihaz. PVR, MP3 oynatıcı ve resim gösterici gibi özellikleriyle çok yönlü bir alıcı.



Thomas Haring
TELE-satellite
Test Center
Austria

-

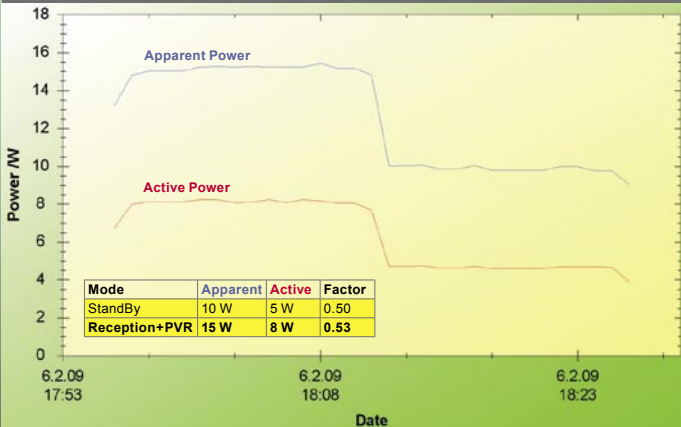
Ön panele gizlenmiş USB bağlantısı pek hoş değil. Bu bağlantıyı Arcaya taşımak, hatta daha iyisi, yeni bir USB bağlantısı eklemek çok iyi bir fikir olurdu.

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



İlk 16 dakika, kanal değiştirerek yayın izleme, PVR Kaydı ve izleme. Sonraki 16 dakika standby konumu.



Ana Menü-PVR



PVR yönetici



MP3 Jukebox



42 Doğu TURKSAT uydusunda SCPC sinyali



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DTT

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

TELE SATELLITE AWARD & BROADBAND
02-03/2009

TOPFIELD TF6000PVR ES
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TOPFIELD



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

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



DIZIPIA



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



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

Read Indepth Review of This Product Directly on the Internet:

Arabic	العربية	www.TELE-satellite.com/TELE-satellite-0901/ara/jiuzhou.pdf
Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-0901/bid/jiuzhou.pdf
Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0901/bul/jiuzhou.pdf
Czech	Česky	www.TELE-satellite.com/TELE-satellite-0901/ces/jiuzhou.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-0901/deu/jiuzhou.pdf
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0901/tur/jiuzhou.pdf



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



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Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0901/bul/opensat.pdf
Czech	Česky	www.TELE-satellite.com/TELE-satellite-0901/ces/opensat.pdf
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0901/tur/opensat.pdf





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



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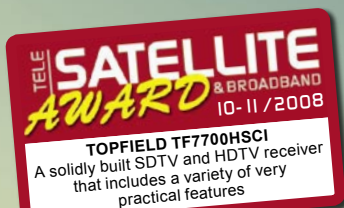
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0901/tur/abcom.pdf



AB-COM



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



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Czech	Česky	www.TELE-satellite.com/TELE-satellite-0811/ces/topfield.pdf
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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	— / ●



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



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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Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0811/bul/venus.pdf
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





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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AB-COM



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

TELE SATELLITE AWARD & BROADBAND
06-07/2008

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

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ARION



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

TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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- 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	• / •

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

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ARION

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

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INFOSAT

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

Main Menu
 >>Channel Search
 Digital Video Broadcasting

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

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

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JIUZHOU

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



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 08-09/2007
JIUZHOU DTS1601
 Well designed, solid receiver with a mature firmware and blindscan

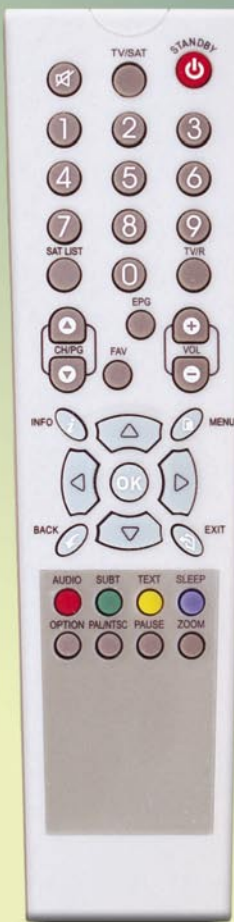
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JIUZHOU



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

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OPENSAT



Manufacturer	AB-COM
Website	www.abcom.sk
Function	Digital Linux-based PVR satellite receiver
DVB-S2/LAN	- / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	- / -
Scart/Digital Audio	• / •

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Slovak uydu alıcı üreticisi AB-COM'un ana sloganı makul fiyata yüksek kalite. Firma 2005 yılında Linux temelli uydu alıcılarıyla piyasaya girişinden itibaren bu sloganı ana ilkesi edinmiş. İlk kuruluş aşamasında piyasaya sürülen 200S büyük bir başarı yakalamıştı, cihaz bugün hala satılıyor; çünkü piyasadaki en iyi ve en ucuz Linux uydu alıcısı olarak kabul ediliyor. Şirket müdürü Juraj Masaryk'den AB-COM'un geçmişi ve gelecekteki planları hakkında bilgi aldık.

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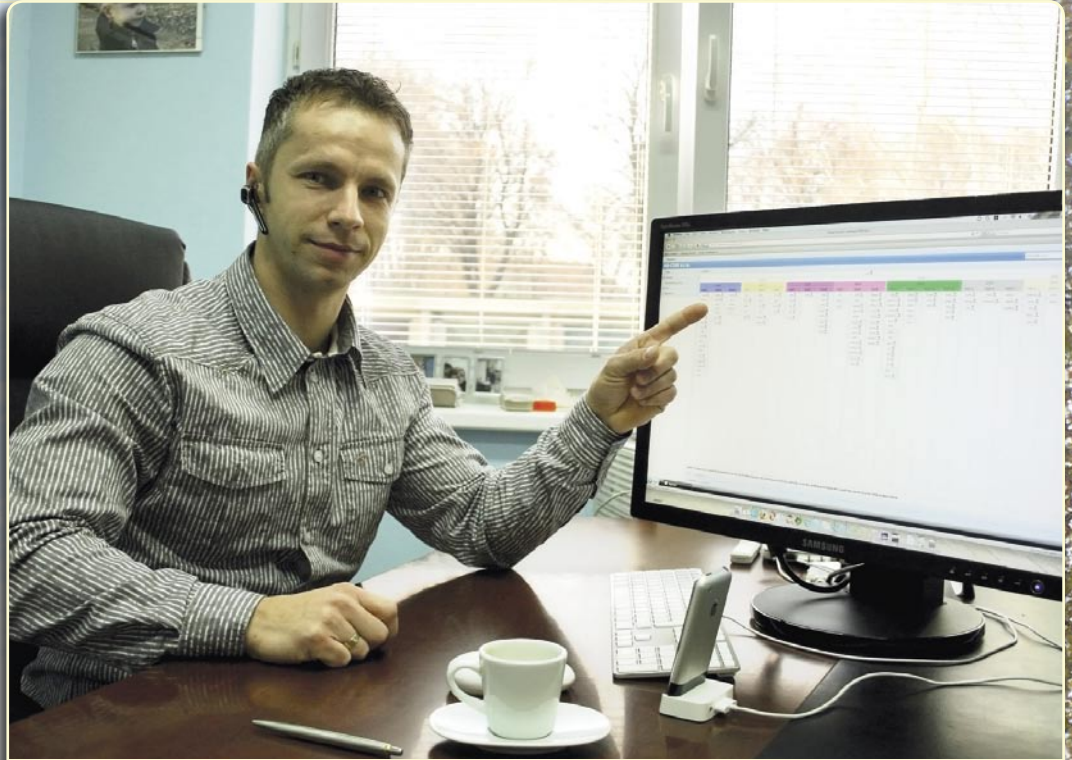
Available online starting from 27 March 2009

■ Slovakyadaki AB-COM tesisleri. Önde bir dağıtım aracı görülüyor.

Tam olarak söylemek gerekirse, AB-COM bu yıl 20. yaşını kutluyor. Ancak şirket geçmişte önemli virajlardan geçti ve özellikle 1992 yılı AB-COM'un bir uydu şirketine dönüşmesinde dönüm yılı oldu.

O zamana kadar AB-COM iki ortak tarafından kurulmuş bir bilgisayar firmasıydı. 1992'de Juraj Masaryk da bu ekibe katıldı. Daha önce bir uydu dağıtımıcısında satınalma yöneticisi olarak çalışmıştı ve bu deneyimleriyle ekibe katıldı.

Juraj Masaryk, diğer iki AB-COM ortağından %25'lik şirket hissesi olarak işe başladı ve şirketi uydu malzemelerini de kapsayacak şekilde genişletti. İlk olarak AB-COM karasal yayınlar için MMDS bileşenleri sunmaya başladı;



■ Juraj Masaryk bir mühendis ve AB-COM'un yönetim müdürü. Bütün alçakgönüllülüğüyle kendine satış ve satın alma müdürü diyor. Sürekli olarak işleri daha da geliştirme arayışı içinde. Resimde AB-COM bünyesinde çalışan 29 personelin dağılımını gösteriyor. "Bazı personelin birkaç farklı sorumluluğu var ve organizasyon şemasında farklı işlere ne kadar zaman harcadıkları görülebilir. Her hafta tüm çalışma raporları toplanır ve değerlendirilir." Bu akıllı organizasyon yapısı sayesinde AB-COM geleceğe hazır.





ama genel olarak çok büyük bir anlamı yoktu.

Juraj Masaryk bugün şirketin yüzde atmişine sahip. Diğer iki ortak günlük işleri Juraj'a bırakarak geri planda kalmışlar. "AB-COM, artık yalnızca uydu alıcılarına odaklanmış durumda," diyor Juraj. Bu alanda gelecekte bir potansiyel görüyor ve bu alanda öngörü sahibi olduğunu düşünüyor.

Başlangıçta AB-COM, çeşitli üreticilerden uydu alıcıları ithal etme yoluna gitmiş, "ama bunların performansları benim standartlarımın altında kalıyordu," diye hatırlıyor o günleri Juraj Masaryk, "benim istediğim, kendi vizyonumu gerçekleştirmektir."

Ama yine de, bu sadece gerçek bir uydu alıcısı üreticisine dönüşmek için gereken motivasyonlardan yalnızca biriydi. Bunu nasıl gerçekleştireceğini de bilmek gerekir. "Her zaman Linux'un uydu alıcıları için harika olacağına inandım," diyor

■ AB-COM mağazasından bir görünüş. Son kullanıcılar doğrudan AB-COM'dan alışveriş yapabiliyorlar. Satış müdürü Peter Hrnko mağazadaki beş elemandan biri ve burada AB-COM alıcılarını gösteriyor. Uydu alıcı üretimi toplam cironun %70'ini oluştursa da AB-COM, Slovakya ve Çek Cumhuriyetinde 3000 dağıtımçıya tüm diğer uydu parçalarını da tedarik ediyor.



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Juraj Masaryk. Bu nedenle Linux'un avantajlarından uydu alıcılarında yararlanmak üzere hayallerini gerçekleştirmeye koyulmuş. Bu amaçla AB-COM mühendislerinin geliştirdiği yazılım onun en büyük silahlarından biri. "SD alıcılar için gerekli yazılımlar zaten tam olarak olgunlaşmış durumda, HD modeller için ise son rötuşları yapıyoruz." Önümüzdeki günlerde AB-COM'un piyasaya sürdüğü HD alıcıların işletim sistemi Enigma HD AB versiyonu olacak.

Üçüncü ve son olarak AB-COM uydu alıcılarının üretilmesindeki bir o kadar önemli diğer bir faktör de ünlü Q harfi. "Kalite (Quality) bizim için en önemli şey," diyor Juraj, ama bunu her zaman nasıl garanti edebilirsiniz? Tabii ki Juraj buna da bir çare bulmuş: Parçalar SKD isimli Koreli bir firma tarafından üretiliyor ve AB-COM tarafından tek tek test edildikten sonra montajı yapılıyor.

Juraj, bize bir AB-COM uydu alıcısının arkasındaki etiketi gösteriyor: "Bakin şurayı okuyun: AB'de test edildi." Bu etiket her bir parçanın AB-COM standartlarıyla uyumlu olarak çalıştığının garantisini aynı zamanda.

Ama üretimle her şey sona ermiş olmuyor. AB-COM alıcılarının nerede satıldığı da önemli. Tomáš Kopecký, Avrupa satış müdürü, bize bu konuda şunları söylüyor "Neredeyse tüm Avrupa ülkelerinde ulusal dağıtımçılarımız var." Daha sonra haritaya bir bakış atan Tomáš, gururla ekliyor: "Kuzey Amerika'da da temsilciliğimiz bulunuyor."

Hiç kuşkusuz haritada hala bir iki beyaz nokta var; Fransa, Portekiz, Türkiye, İngiltere ve Kuzey Afrika bunlara örnek. "Bu pazarlarda hala dağıtımçı aramaya devam ediyoruz," diyor Tomáš kusursuz İngilizcesiyle ve şunları ekliyor "Bu ülkelerdeki dağıtımçılarla tanışmak için sabırsızlanıyorum." Juraj da bu konuyla ilgili olarak şunları belirtiyor "Doğal olarak uydu alıcılarımızı satıldığı ülkeye özel olarak adapte edebiliyoruz. Örneğin şu anda Ukrayna için böyle bir proje üzerinde çalışıyoruz."

"Şu anda satışların yüzde otuzunu SD uydu alıcıları oluşturuyor. HDTV kutular ise yüzde yetmişle ana grup." Başarılı modelleri AB-COM 200S'ye bakan Tomáš şunları söylüyor "ekonomik açıdan bakıldığında bu bizim en iyi ürünümüz: tüm aklınıza gelebilecek özelliklere kusursuz bir kalitede ve makul fiyata sahip olmanıza olanak tanıyor." Juraj da burada söze

■ Montaj atölyesinden bir görünüm: Burada 16 kişiden oluşan personel parçaları bir AB-COM uydu alıcısı halinde birleştirip test ediyor.



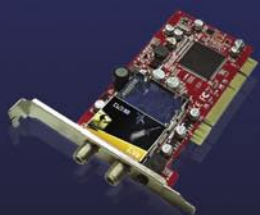
■ Depo sorulması Michal Valent bitmiş AB-COM alıcılarını depoya yerleştiriyor. Bunlar daha sonra sipariş sırasına göre gönderilecek.



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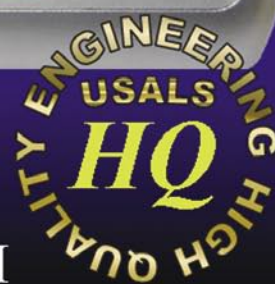
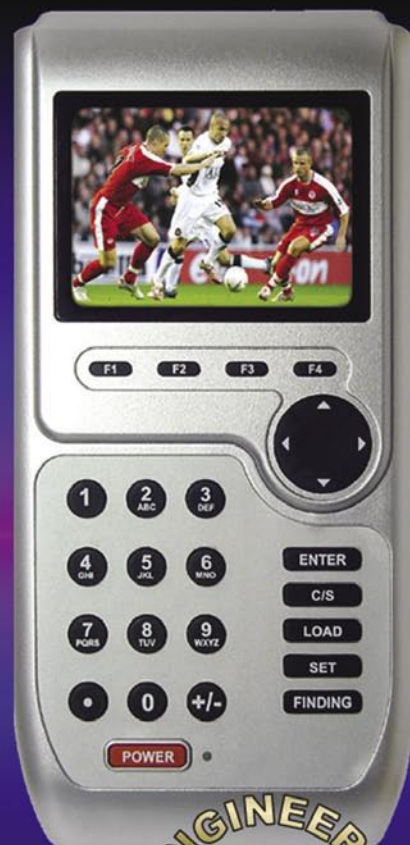
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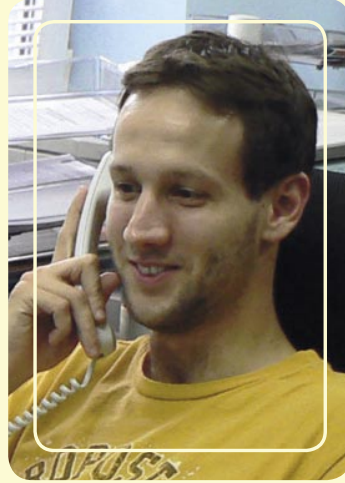
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■ Halo Juraj Çek Cumhuriyetindeki toptanılardan sorumlu.



■ Avrupa satış sorumlusu Tomas Kopecky şirketin Slovakya ve Çek Cumhuriyeti dışındaki dağıtımıcıları için kontak kişisi. "Yeni ülkelerden müşterilerin bize katılmasından memnuniyet duyarız." Diyor.



■ Juraj Bobula Slovakya'dan sorumlu

girişiyor: "aynı konseptle bir HD model üzerinde çalışmamızın nedeni de bunu tekrar yakalamak."

Siz bu sayıyı okuduğunuz sırada, bu yeni ürün piyasaya çıkmak üzere olacaktır. Son derece küçük olması düşünülen bu cihazda bir akıllı kart okuyucu ve Enigma HD AB işletim sistemi bulunacak.

"2009 yılında finansal olarak HD uydu alıcılarımızın satışında bir artış bekliyoruz. Bu alıcılar bu yıl satışlarımızın yüzde seksenini ve 2010'da ise yüzde doksanını oluşturacak," diye yorumluyor önümüzdeki yılların satış beklentilerini Tomáš. "AB-COM 350 Prime uydu alıcısı örneğin, değiştirilebilen tunerle geliyor ve kablo TV yayıncılarının gözdesi" sözleriyle Juraj bir diğer gelişmeyi vurguluyor.

Yine de DVB-C, AB-COM'un üzerinde odaklandığı birkaç konudan yalnızca bir tanesi. Juraj daha uzun vadeli planlar peşinde "Enigma HD AB projesi bitmez yazılım mühendislerimiz Enigma IPTV AB üzerinde çalışmaya başlayacaklar."

Juraj Masaryk, işlerin gelişiminden fazlasıyla mutlu olabilir. "2007'den 2008'e kadar satışlarımızda %30'luk bir artış oldu ve 2009 yılı için artış beklentimiz %20." Juraj gözleri şirketin kullandığı bilgisayar programında bunları aktarıyor.

"Toplam ciro 2008'de on milyon euro'ya yaklaştı. Hiç kuşkusuz 2009'da bu seviyeyi geçeceğiz," diye iyimserlikle konuşuyor Juraj ve yeni tesislerin de yapım



■ Juraj Masaryk gerçek bir uydu tutkunu- evindeyken bile! Resimde evinin balkonunda çok beslemeli anteniyle görülüyor.

aşamasında olduğunu belirtiyor. "Böylece genişlemek için yeterince yere sahip olacağız!" Kesin olan bir şey var: AB-COM önde olmayı seviyor. Bunun anlamı da geleceği aktif olarak inşa ettikleri.

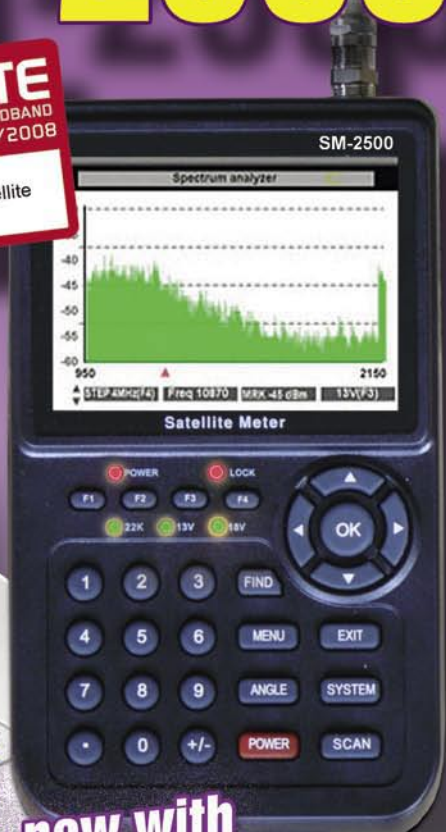
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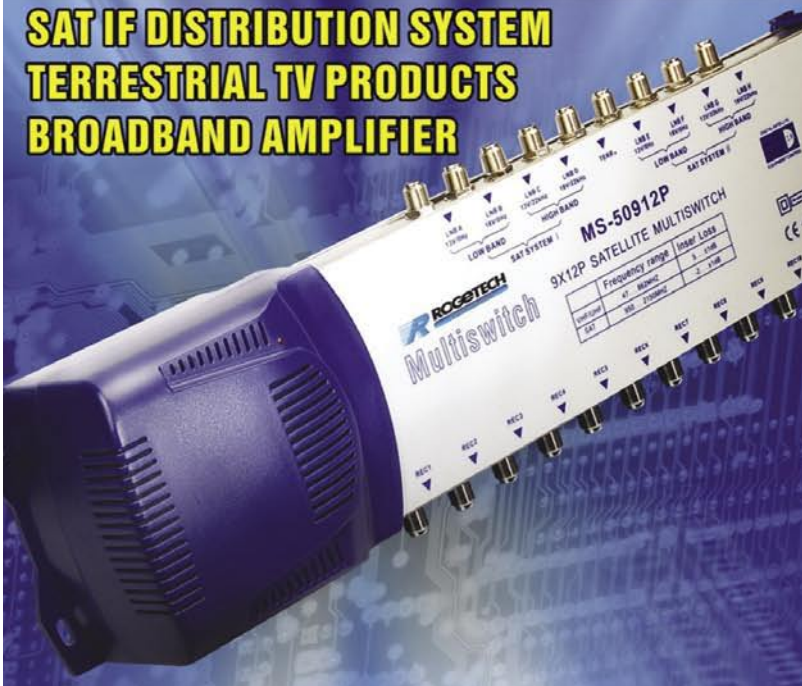
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■ AB-COM eğitime büyük önem veriyor. Dağıtıcılar yılda bir defa bir araya getirilerek en son gelişmelerden haberdar ediliyor. Bu bir günlük etkinlik AB-COM tarafından karşılanıyor ve AB-COM ile dağıtıcıların birbirlerini karşılıklı daha iyi tanımasını sağlıyor.

Servis mühendisi Martin Durinsky, ■ bu toplantıyı AB-COM uydu alıcılarının yeni özelliklerini tanıtmak için bir fırsat olarak kullanıyor.

AB-COM 1 Ekim 2009'da bu yeni binaya taşınacak. Resimde mimarın çizimleri görülüyor. "Mevcut bina artık bize yetiyor," diyor Juraj. İnşaat ekibi tam kapasiteyle çalışarak 6 metre tavanlı yeni mağaza ve ofislerin mümkün olan en kısa sürede tamamlanmasına ■ çalışıyor.



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Topfield'in deęişik piyasalar için üretilmiş toplam 200'ü aşkın uydu alıcısı modeli var. Ancak firma yöneticileri için model sayısındaki bu zenginlik kendi başına bir başarı anlamına gelmiyor. "Bu kadar çeşitlilik içinde en iyi olduğumuzu da ispatlamalıyız," diye açıklıyor Dong Hoon Suk Topfield'in stratejisini. "Yeni TMS ile yalnızca teknolojik olarak kalitemizi ortaya koymakla kalmadık, kullanılabilirlik açısından da yep yeni bir seviyeye eriştik." Artık öyle bir noktadayız ki, hayallerimizdeki sınırların bile



■ TMS ürün sorumlusu Jimmy Lee TMS'nin bağlantılarını gösteriyor.



■ Matt Jeon, sadece TMS fikrini ortaya atan kişi değil. Yazılım mühendislerinden oluşan sekiz kişilik ekibiyle TMS yazılımını geliştirmek için sürekli çalışıyor.

ötesine geçtik. "TMS ticari amaçlı hizmetler için de kullanılabilir. internet bağlantısı ile tamamen farklı programların kullanılması mümkün ve böylelikle klasik uydu alıcısı deneyiminin çok ötesine geçiyor." Diye vurguluyor cihazın özelliğini Dong Hoon Suk. TMS, üst seviye bir cihaz olduğu için Topfield bu ürünü, özel olarak seçtiği pazarlarda piyasaya sürecek. "Almanya, Hollanda, Belçika ve İsviçre gibi ülkelerde bu ürünü piyasaya sunacağız." Diyen Dong Hoon Suk, sözlerine şöyle devam ediyor. "Bu pazarlardaki müşteriler diğerlerine göre çok daha talepkarlar." Topfield'in bu ürünü Rusya'da da piyasaya sunacak olması bize ilginç geldi: Dong Hoon Suk, Rusya'da TMS için yüksek bir talep oluşacağına inanıyor.

Jimmy Lee, TMS'nin ürün geliştirme şefi. Görevi yazılım mühendisleri ve donanım mühendisleriyle yeni uydu alıcının özelliklerini tartışıp belirlemek ve bunun da pazarlama bölümünün talepleri doğrultusunda gerçekleşmesini sağlamak. Üretim programlarına ilişkin bazı ayrıntılar da veriyor: " İlk olarak 3000 TMS modelini piyasaya süreceğiz. Böylece piyasanın verdiği tepkiye bakarak sonraki adımları atmayı planlıyoruz."



■ TELE-satellite editörü Alexander Wiese, TMS ile tanışmak üzere.

Diyor Jimmy Lee. Hatta farklı ülkelere göre farklı TMS modellerinin üretilmesi yoluna da gidilebilir. "Örneğin cihazın hafızasında yüklü oyunlar farklı olabilir" diye devam ediyor Jimmy Lee. "TMS ile gelen ve başlangıçta yalnızca belirli sitelere girebildiğiniz internet gezgini 2009'un ikinci çeyreğinde eksiksiz bir internet gezginine dönüşecek." Yani TMS piyasaya sürüldükten sonra da yazılımı geliştirilmeye devam edecek.

Son olarak, TMS fikrinin nasıl doğduğunu öğrenmek istedik. Her şey ilk olarak yazılım mühendisi Matt Jeon'un 2008 şubatında bu yeni multimedia uydu alıcısı fikriyle ortaya çıkmasıyla başlamış. Sekiz kişilik bir yazılım mühendisi ekibi kurmuş ve ilk prototipi Ağustos 2008'de ortaya çıkarmışlar. TMS ekibi firmada tam anlamıyla karan-

tinaya alınmış ve başka hiçbir işle ilgilenmemişler ve büyük bir gizlilik içinde çalışmışlar. İlk prototipler ortaya çıkınca şirket çalışanları ve büyük dağıtımçılar için ilk sunumlarını yapmışlar. Uydu tutkunları ise TMS ile ilk kez bu yıl ANGA'da tanışabilecekler.

TMS, Kore'de üretiliyor ve Topfield için teknolojiye hangi noktaya gelebileceklerinin güzel bir göstergesi aynı zamanda. Topfield bir kez daha "Multimedia Ev Lideri" unvanının kolay kazanılması bir unvan olmadığını ve bu unvanı fazlasıyla hak ettiğini gösteriyor. Her gün daha çok çalışarak mükemmel teknolojiler üretmeye devam ediyorlar.



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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.



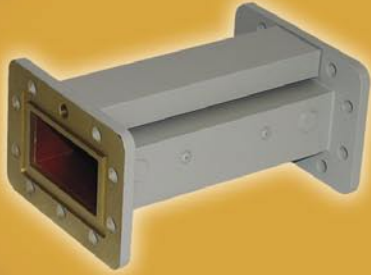
■ GTA Electronics can be found here in this office complex as a satellite dealer for end users and Worldwide Satellites as a satellite wholesaler. Pearson International Airport is located roughly 1 km behind the office.



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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.

We also wanted to know more about

Worldwide Satellites focuses only on FTA receivers and also offers LNBS and multiswitches of every size. "We get our



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Aluo-sat'ın Tanımadığı Kimse Yok!

Çin'de uydu sektörüyle ilgili olan birinin Luo Shi Gang'ı bir şekilde tanımamış olmasına olanak yok. Kendisi yıllardır TELE-satellite Çin baskısının dağıtımını yapmanın dışında, birçok uydu alanında oldukça faal bir kimse. Çin 2009 yılında DTH çağına gireceği için kendisiyle görüşme yapmak için uygun bir zaman olduğunu düşündük ve Shenzhen'deki ofisini ziyaret ettik.

Luo'nun şirketini, Aluo-sat olarak isimlendirmesinin çok basit bir nedeni var. Güney Çin'in kantonez şivesinde 'a' her zaman kişi adlarının önüne getiriliyor. Yani Luo'ya Aluo diyorlar.

Luo, aslen Çin'in Güney batısı kökenli. Elektronik mühendisliği okuduktan sonra Çin ordusu için Çinin kuzey batısındaki Lanzhou şehrinde elektronik parçalar üreten bir şirkette çalışmış. Diğer şeylerin yanı sıra ilk işvereni uydu donanımları da üretiyormuş. Luo'nun ilk uydu deneyimi 99° Doğu EKTRAN uydusundan aldığı sinyallerle başlamış. Bu sinyaller o sırada Rusya'dan UHF aralığında 714 MHz'de yapıyormuş.

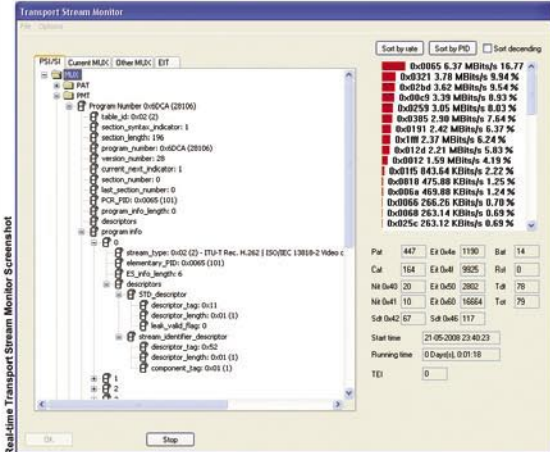
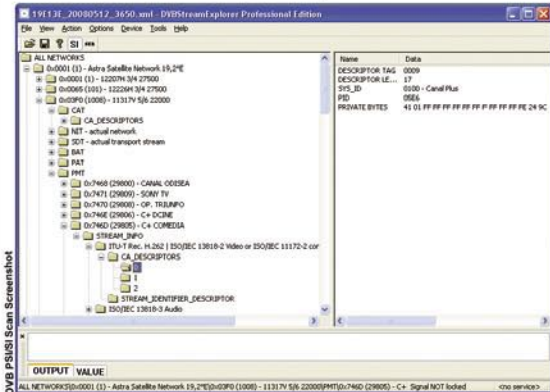
Auto-Sat ekibi Lou Jun (solda) ve Luo Shi Gang (sağda) çatıda görülmüyorlar. Lu o Shi Gang neden ofisinin çatısını seçmiş olabilir sizce? Belki de çoktan tahmin ettiniz. Antenler ve uydu alıcıları arasındaki mesafeyi kısa tutmak istemiş olabilir. Peki ama antenler neden bu kadar alçak yerleştirilmiş? Bunun nedeni Çin'de özel uydu izlemenin hala yasak olması. Böylece Luo'nun antenleri dışarıdan farkedilmiyor. Resimde iki C-bant anteni görüyoruz. Arkadaki motürlü, öndeki ise sabit bir anten.

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- Parsing of SST, MGT, TVCT, CVCT, RRT, EIT, ETT, DCCT and DCSCCT tables, including most descriptors.

DVB DSMCC scanning

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

DVB MPE scanning

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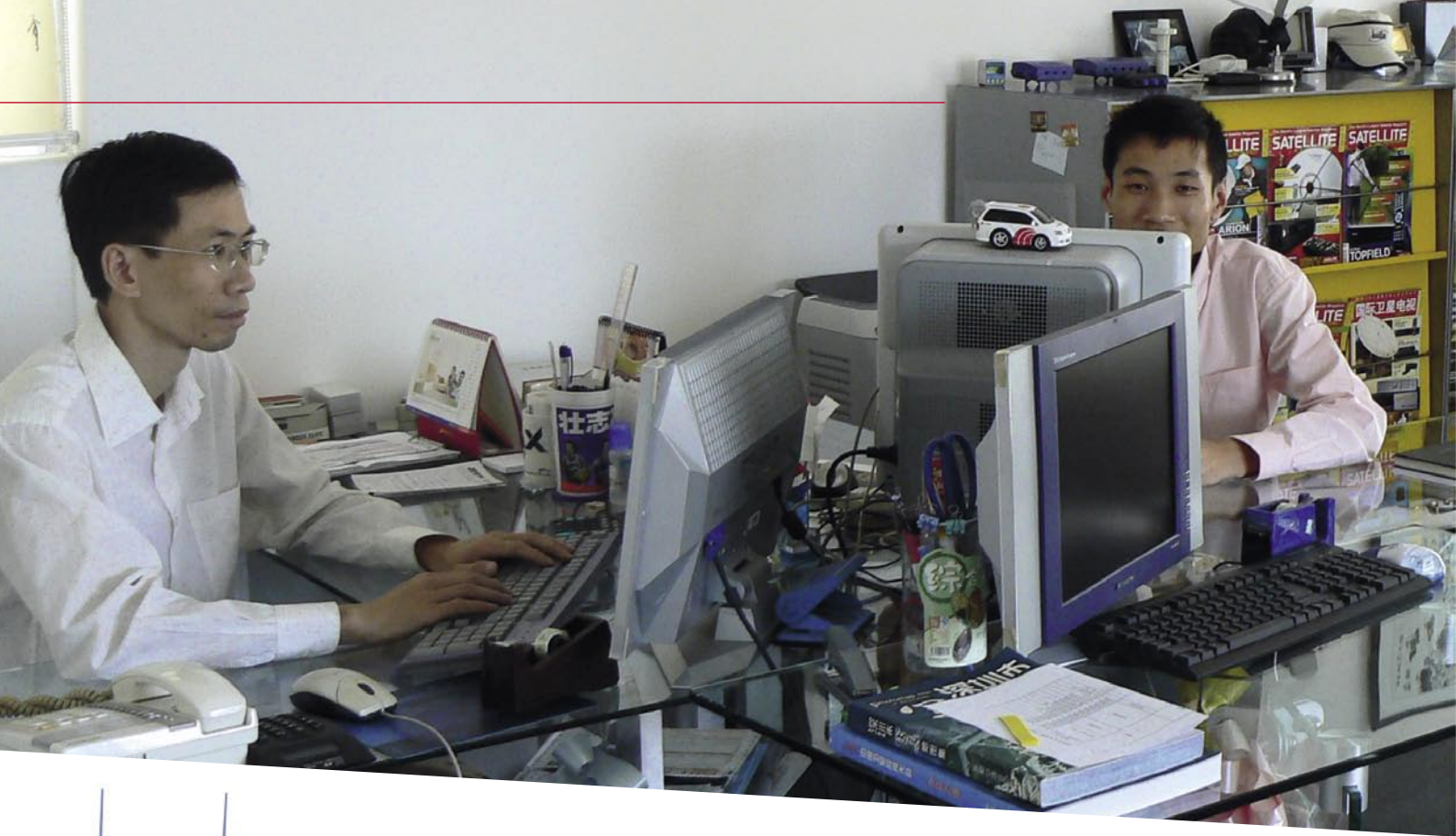


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Bu andan başlayarak uydu sinyallerine odaklanmış. Kısa süre sonra, o sırada uydu teknolojisi konusundaki tek yayın olan haftalık 'Electronics Newspaper'da yazmaya başlamış. Dergiye yaptığı katkılar artıkça daha fazla toplantıya katılmış ve doğal

olarak bu toplantılarla birlikte sektörün içine daha fazla girmiş. Son olarak, 1995 yılında kendi işini kurmuş: "Eşimle birlikte Aluo-sat'ı 1995 yılında Shenzen'de kurduk." Teknik gazeteciliğin yanında böylece bir uydu danışmanı olarak da çalışmaya başlamış. Bugün, yedi kişiden oluşan bir kadrosu var: "Eşim muhasebeye bakıyor, üç mühendis teknik sorunlarla uğraşiyor, bir kişi Hong Kong'da uydu dükkanı çalıştırıyor ve son olarak satış ve dağıtımla ilgilenen bir personelimiz daha var."

TELE-satellite World

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Aluo-sat, seçkin üreticilerin dağıtım-cılığını da yapmaya başlamış. Bunların arasında Hong Kong'da yayın yapan ama yayınları Shenzhen'den de izlenilebilen dijital terestiriyel (DMB-TH) Changhon firması da sayılabilir.

"Hem son kullanıcılara hem toptancı-

Luo Shi Gang, Shenzhen'in merkezindeki işyerinin en üst katında görülüyor. TELE-satellite dergisinin resmi bölgesel dağıtıcısı olduğu her halinden belli. ■



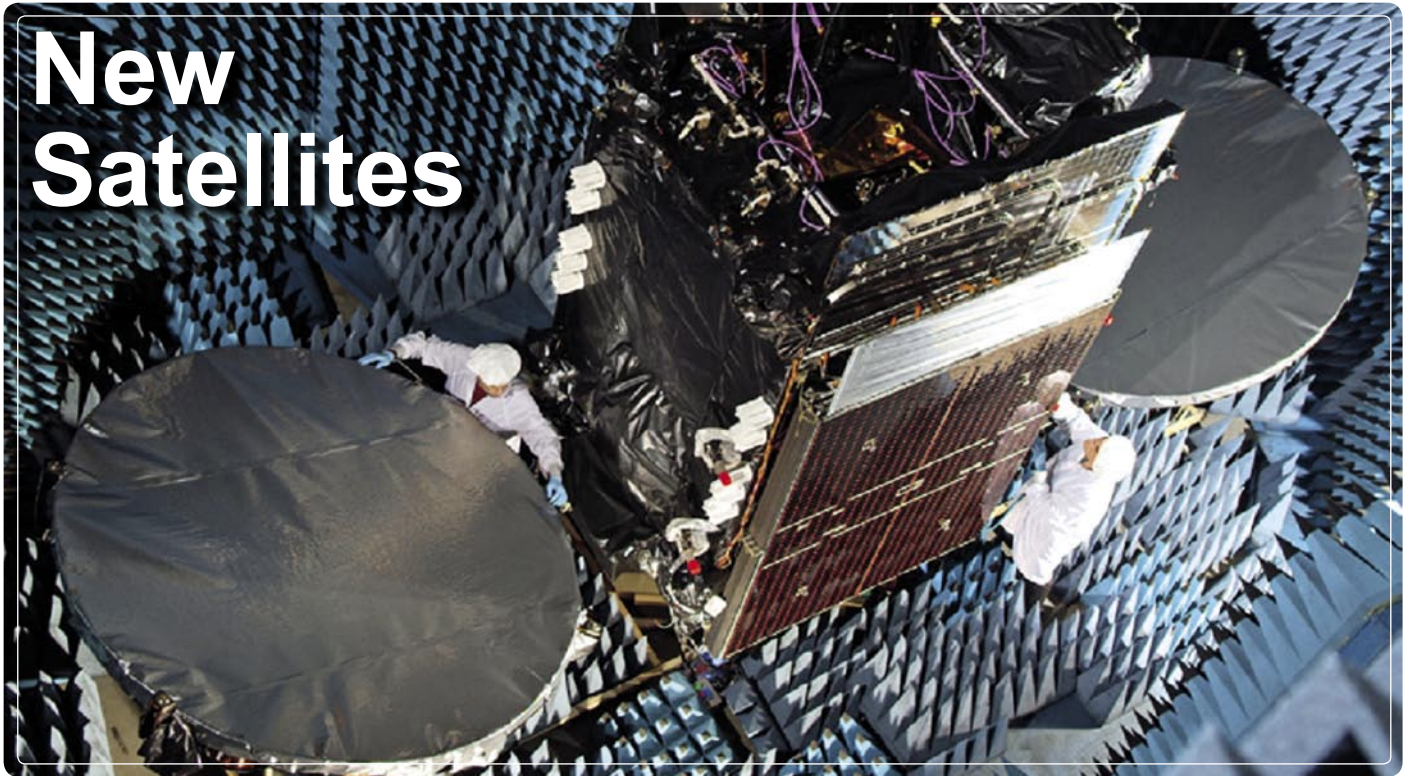
lara hitap ediyoruz," diye açıklıyor Luo çalışma stratejisini. Luo çok seyahat ediyor ve bütün uydu konulu fuarları geziyor."bu şekilde ö önemli insanlarla tanışabiliyorum ve ilişki ağımlı genişletiyorum." Diyor Luo.

Luo bir çok bölgede ve değişik sektörlerde önde gelen bir isim. "Çin uydu sektörüyle ilgili bir katkı yapmaktan mutluluk duyuyorum." Diye tamamlıyor sözlerini.

Yüksek kenarlıklar antenlerin gizlenmesini sağlıyor. Arka planda ise Shenzhen görülüyor. ■



New Satellites



Edited by
Sylvain Oscul

EUTELSAT W2A

April-May 2009

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

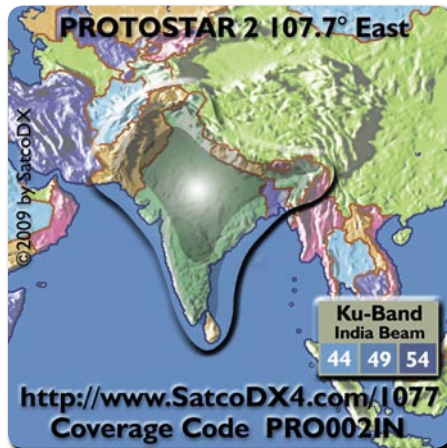
This satellite is also a special joint venture with ASTRA, The S-band (2.0 and 2.2 GHz), which represents a new frequency band for both SES and Eutelsat, provides a set of frequencies optimized for supporting a wireless distribution network for delivering video and other services to mobile devices, including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



PROTOSTAR 2

May 2009

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

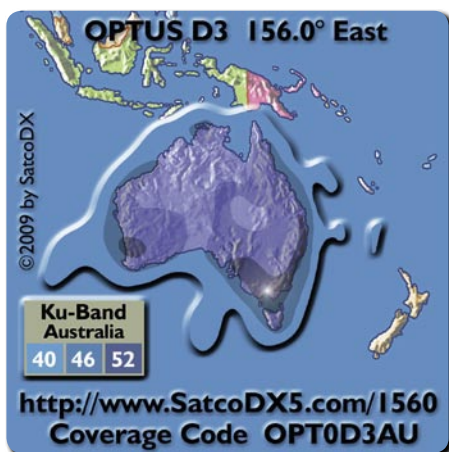




OPTUS D3

May-June 2009

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



INTELSAT 15

June 2009

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



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

THOR 6

June 2009



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

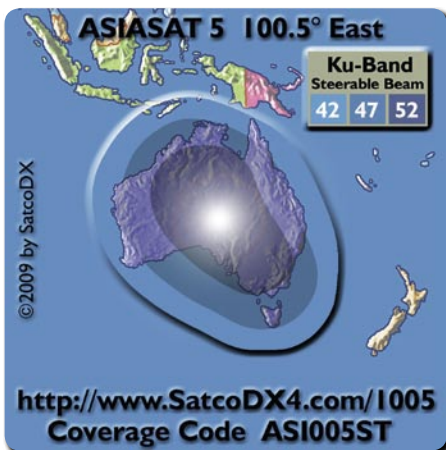
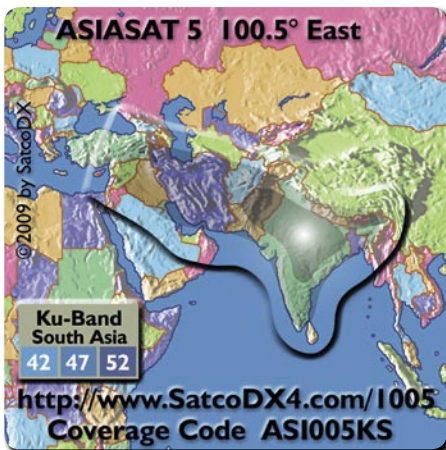
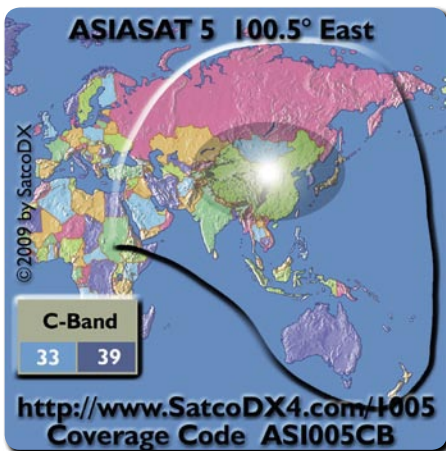


ASIASAT 5

June 2009

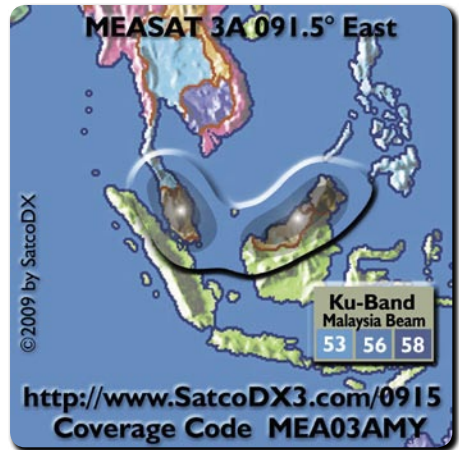
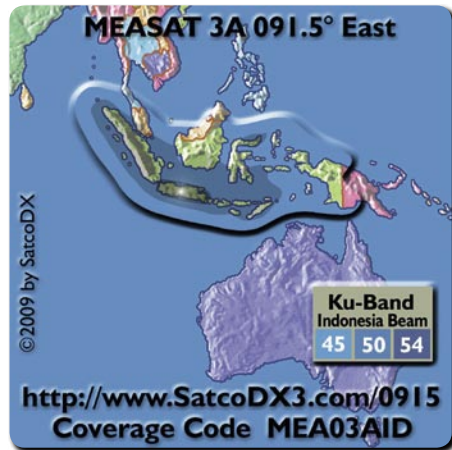
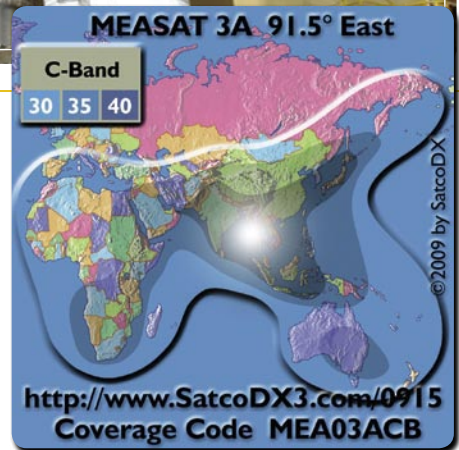
ASIASAT 5 C-band footprint will offer an extensive pan-Asian coverage and its high power Ku-band beams will focus on both East and South Asia, with a steerable beam that will cover anywhere within ASIASAT 5 geographic coverage. ASIASAT 5 has a sophisticated Ku-band inter-beam switching which provides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

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



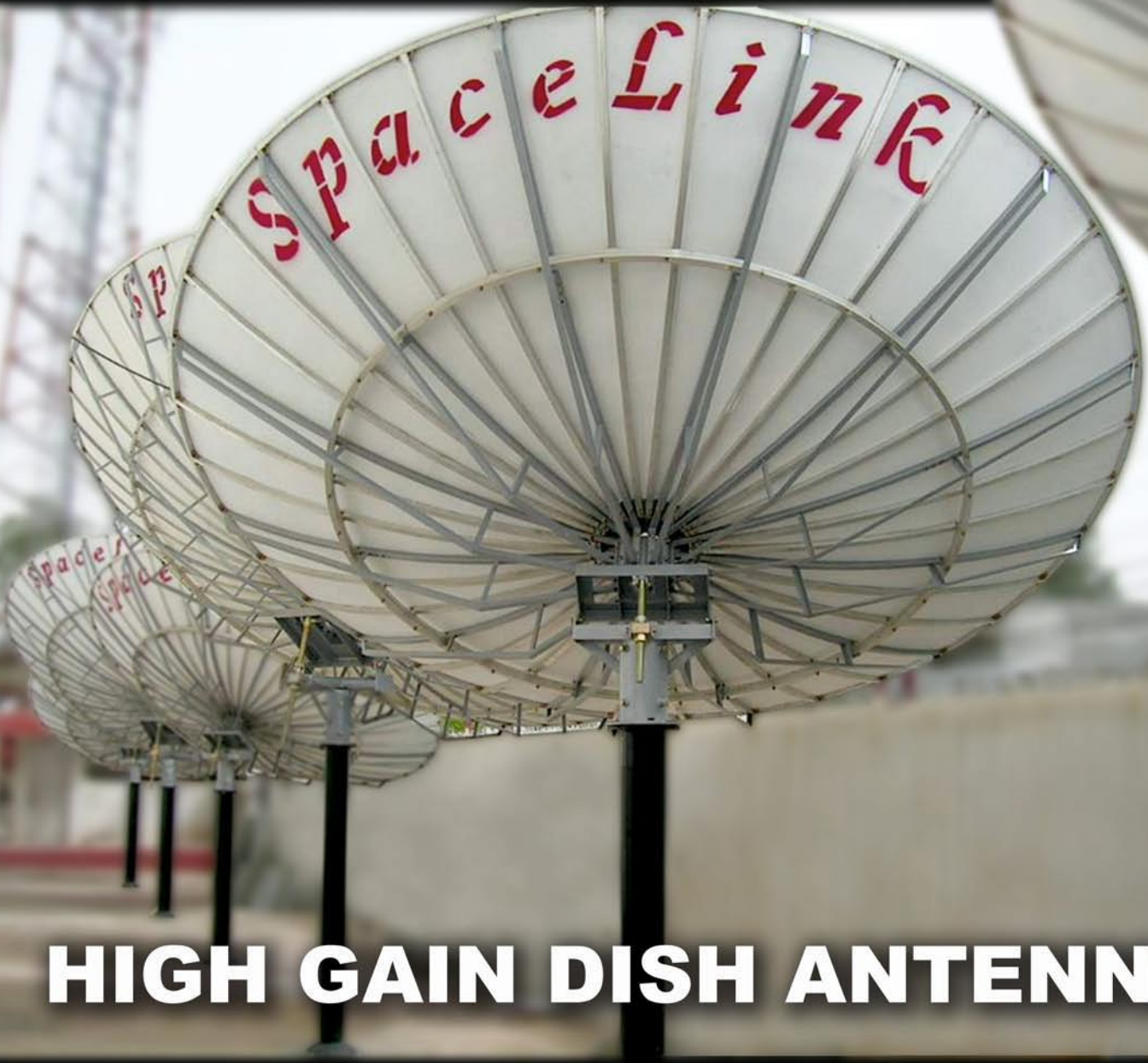
MEASAT 3A
June 2009

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





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Edited by
Branislav Pekic

EUROPE

EUROPE

NSS-9 SATELLITE SUCCESSFULLY LAUNCHED

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

ASTRA 1M READY FOR OPERATION

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

170 MILLION HDTV EUROPEAN HOUSEHOLDS BY 2013

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

AUSTRIA

TELEKOM AUSTRIA TOPS 63.800 IPTV SUBSCRIBERS

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

BOSNIA-HERZEGOVINA

BH TELECOM SIGNS IPTV/VOIP DEAL

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

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

FRANCE

SES ASTRA AND GLOBECAST DISTRIBUTE ORANGE TV

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

FRENCH IPTV HOUSEHOLDS TOP 5.64 MILLION

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

GERMANY

GERMANY CLOSSES 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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NanoXX 9400 (Satellite Receiver)

NanoXX 9500HD (HDTV USB-PVR Sat.-Receiver)

NanoXX 9500HD-C (HDTV USB-PVR Cable-Rec.)

NanoXX 9600IP (IP-PVR Sat.-Receiver)

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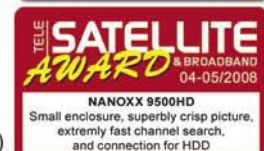
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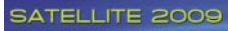
- **21 - 23 March: CCBN 2009**

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



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Exhibition for Satellite Enabled Communication
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www.satellite2009.com



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TELE-satellite Deadlines

Editorial Deadlines, Magazine Publishing Dates

<i>Number</i>	<i>Issue</i>	<i>Deadline</i>	<i>Hardcopies</i>	<i>Available Online</i>
#211	06/2009	3 April 2009	15 May 2009	29 May 2009
#212	08/2009	5 June 2009	17 July 2009	31 July 2009
#213	10/2009	7 August 2009	18 September 2009	2 October 2009
#214	12/2009	2 October 2009	13 November 2009	18 December 2009
#215	02/2010	4 December 2009	15 January 2010	29 January 2010

SatcoDX Global Satellite Chart 04/2009

Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate
11843 V Ashtari	27500	12511 H MGM ME	9259
11843 V AL BASHARA	27500	11096 H Power-Naples	28000
11843 V Amrita TV	27500	11096 H Power-Signella	28000
11843 V DAN (Tamil)	27500	11096 H Power+17 Vicenza	28000
11843 V ETN TV	27500	11096 H Power-Vicenza	28000
11843 V Kalini	27500	11096 H The Eagle - Vicenza	28000
11843 V Nepal	27500	11096 H The Eagle - Livorno	28000
11843 V NLM TV	27500	11096 H The Eagle - Naples	28000
11843 V Shalom	27500	11096 H The Eagle - Signella	28000
11843 V The Light	27500	11096 H The Eagle - Souda Bay	28000
11843 V ZEE Russia	27500	11096 H The Eagle - Vicenza	28000
11843 V Radio Hay	27500	11137 H GEM TV	27500
11843 V Radio Sweden 1	27500	11137 H Kurdistan TV	27500
11843 V Radio Sweden 2	27500	11137 H Lady Channel	27500
11843 V FTV HD	27500	11137 H RTB	27500
11916 V SVT WORLD	27500	11137 H StarTV	27500
11916 V TIM +92+73-998873	27500	11137 H TelefuntoSat	27500
11916 V AL BASHARA	27500	11137 H TV5MONDE EUROPE	27500
11916 V DIVINE TV	27500	11137 H TV5MONDE FBS	27500
11916 V ETN TV	27500	11137 H Vidua	27500
11916 V FEED	27500	11158 V Polsat	27500
11916 V Marine Biz TV	27500	11158 V Polsat Cafe	27500
11916 V NLM TV	27500	11158 V Polsat Extra	27500
11916 V Rainbow	27500	11158 V Polsat Play	27500
11916 V Eden Radio	27500	11158 V Polsat Sport	27500
11916 V Radio HAY	27500	11158 V Superjazz	27500
11916 V Radio Sweden 1	27500	11158 V Polsat News	27500
11916 V Radio Sweden 2	27500	11158 V TV Bznes	27500
11916 V FTV HD	27500	11179 H BTV NPZ	27500
11919 V SVT WORLD	27500	11179 H BTV NPZ	27500
11919 V TIM +92+73-998873	27500	11179 H JSC Sport+2	27500
11919 V AL BASHARA	27500	11179 H JSC Sport+3	27500
11919 V DIVINE TV	27500	11179 H JSC Sport+4	27500
11919 V ETN TV	27500	11179 H JSC Sport+5	27500
11919 V FEED	27500	11179 H JSC Sport+6	27500
11919 V Marine Biz TV	27500	11179 H JSC Sport+7	27500
11919 V NLM TV	27500	11179 H JSC Sport+8	27500
11919 V Rainbow	27500	11179 H JSC Sport+9	27500
11919 V Eden Radio	27500	11179 H JSC Sport+10	27500
11919 V Radio HAY	27500	11179 H JSC Sport+11	27500
11919 V Radio Sweden 1	27500	11179 H JSC Sport+12	27500
11919 V Radio Sweden 2	27500	11179 H JSC Sport+13	27500
11938 H Red Light Experience	27500	11179 H JSC Sport+14	27500
11938 H Red Light TV	27500	11179 H JSC Sport+15	27500
11938 H Red Light TV	27500	11179 H JSC Sport+16	27500
11938 H Red Light TV	27500	11179 H JSC Sport+17	27500
11938 H Red Light TV	27500	11179 H JSC Sport+18	27500
11938 H Red Light TV	27500	11179 H JSC Sport+19	27500
11938 H Red Light TV	27500	11179 H JSC Sport+20	27500
11938 H Red Light TV	27500	11179 H JSC Sport+21	27500
11938 H Red Light TV	27500	11179 H JSC Sport+22	27500
11938 H Red Light TV	27500	11179 H JSC Sport+23	27500
11938 H Red Light TV	27500	11179 H JSC Sport+24	27500
11938 H Red Light TV	27500	11179 H JSC Sport+25	27500
11938 H Red Light TV	27500	11179 H JSC Sport+26	27500
11938 H Red Light TV	27500	11179 H JSC Sport+27	27500
11938 H Red Light TV	27500	11179 H JSC Sport+28	27500
11938 H Red Light TV	27500	11179 H JSC Sport+29	27500
11938 H Red Light TV	27500	11179 H JSC Sport+30	27500
11938 H Red Light TV	27500	11179 H JSC Sport+31	27500
11938 H Red Light TV	27500	11179 H JSC Sport+32	27500
11938 H Red Light TV	27500	11179 H JSC Sport+33	27500
11938 H Red Light TV	27500	11179 H JSC Sport+34	27500
11938 H Red Light TV	27500	11179 H JSC Sport+35	27500
11938 H Red Light TV	27500	11179 H JSC Sport+36	27500
11938 H Red Light TV	27500	11179 H JSC Sport+37	27500
11938 H Red Light TV	27500	11179 H JSC Sport+38	27500
11938 H Red Light TV	27500	11179 H JSC Sport+39	27500
11938 H Red Light TV	27500	11179 H JSC Sport+40	27500
11938 H Red Light TV	27500	11179 H JSC Sport+41	27500
11938 H Red Light TV	27500	11179 H JSC Sport+42	27500
11938 H Red Light TV	27500	11179 H JSC Sport+43	27500
11938 H Red Light TV	27500	11179 H JSC Sport+44	27500
11938 H Red Light TV	27500	11179 H JSC Sport+45	27500
11938 H Red Light TV	27500	11179 H JSC Sport+46	27500
11938 H Red Light TV	27500	11179 H JSC Sport+47	27500
11938 H Red Light TV	27500	11179 H JSC Sport+48	27500
11938 H Red Light TV	27500	11179 H JSC Sport+49	27500
11938 H Red Light TV	27500	11179 H JSC Sport+50	27500
11938 H Red Light TV	27500	11179 H JSC Sport+51	27500
11938 H Red Light TV	27500	11179 H JSC Sport+52	27500
11938 H Red Light TV	27500	11179 H JSC Sport+53	27500
11938 H Red Light TV	27500	11179 H JSC Sport+54	27500
11938 H Red Light TV	27500	11179 H JSC Sport+55	27500
11938 H Red Light TV	27500	11179 H JSC Sport+56	27500
11938 H Red Light TV	27500	11179 H JSC Sport+57	27500
11938 H Red Light TV	27500	11179 H JSC Sport+58	27500
11938 H Red Light TV	27500	11179 H JSC Sport+59	27500
11938 H Red Light TV	27500	11179 H JSC Sport+60	27500
11938 H Red Light TV	27500	11179 H JSC Sport+61	27500
11938 H Red Light TV	27500	11179 H JSC Sport+62	27500
11938 H Red Light TV	27500	11179 H JSC Sport+63	27500
11938 H Red Light TV	27500	11179 H JSC Sport+64	27500
11938 H Red Light TV	27500	11179 H JSC Sport+65	27500
11938 H Red Light TV	27500	11179 H JSC Sport+66	27500
11938 H Red Light TV	27500	11179 H JSC Sport+67	27500
11938 H Red Light TV	27500	11179 H JSC Sport+68	27500
11938 H Red Light TV	27500	11179 H JSC Sport+69	27500
11938 H Red Light TV	27500	11179 H JSC Sport+70	27500
11938 H Red Light TV	27500	11179 H JSC Sport+71	27500
11938 H Red Light TV	27500	11179 H JSC Sport+72	27500
11938 H Red Light TV	27500	11179 H JSC Sport+73	27500
11938 H Red Light TV	27500	11179 H JSC Sport+74	27500
11938 H Red Light TV	27500	11179 H JSC Sport+75	27500
11938 H Red Light TV	27500	11179 H JSC Sport+76	27500
11938 H Red Light TV	27500	11179 H JSC Sport+77	27500
11938 H Red Light TV	27500	11179 H JSC Sport+78	27500
11938 H Red Light TV	27500	11179 H JSC Sport+79	27500
11938 H Red Light TV	27500	11179 H JSC Sport+80	27500
11938 H Red Light TV	27500	11179 H JSC Sport+81	27500
11938 H Red Light TV	27500	11179 H JSC Sport+82	27500
11938 H Red Light TV	27500	11179 H JSC Sport+83	27500
11938 H Red Light TV	27500	11179 H JSC Sport+84	27500
11938 H Red Light TV	27500	11179 H JSC Sport+85	27500
11938 H Red Light TV	27500	11179 H JSC Sport+86	27500
11938 H Red Light TV	27500	11179 H JSC Sport+87	27500
11938 H Red Light TV	27500	11179 H JSC Sport+88	27500
11938 H Red Light TV	27500	11179 H JSC Sport+89	27500
11938 H Red Light TV	27500	11179 H JSC Sport+90	27500
11938 H Red Light TV	27500	11179 H JSC Sport+91	27500
11938 H Red Light TV	27500	11179 H JSC Sport+92	27500
11938 H Red Light TV	27500	11179 H JSC Sport+93	27500
11938 H Red Light TV	27500	11179 H JSC Sport+94	27500
11938 H Red Light TV	27500	11179 H JSC Sport+95	27500
11938 H Red Light TV	27500	11179 H JSC Sport+96	27500
11938 H Red Light TV	27500	11179 H JSC Sport+97	27500
11938 H Red Light TV	27500	11179 H JSC Sport+98	27500
11938 H Red Light TV	27500	11179 H JSC Sport+99	27500
11938 H Red Light TV	27500	11179 H JSC Sport+100	27500



Hotbird 6 013.0° East
Coverage Code: HOTO06K

http://www.SatcoDX.com/0130
Coverage Code: HOTO06K

Ku-Band
46 15 53

11843 V Radio Hay

11843 V Radio Sweden 1

11843 V Radio Sweden 2

11843 V FTV HD

11919 V SVT WORLD

11919 V TIM +92+73-998873

11919 V AL BASHARA

11919 V DIVINE TV

11919 V ETN TV

11919 V FEED

11919 V Marine Biz TV

11919 V NLM TV

11919 V Rainbow

11919 V Eden Radio

11919 V Radio HAY

11919 V Radio Sweden 1

11919 V Radio Sweden 2

11938 H Red Light Experience

11938 H Red Light TV

11938 H Red Light TV

11938 H Red Light TV

11938 H Red Light TV

11938 H Red Light TV

11938 H Red Light TV

11938 H Red Light TV

Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate
11096 H Power-Naples	28000	11623 V ITALY ITALY	27500
11096 H Power-Signella	28000	11623 V The Vatican	27500
11096 H Power+17 Vicenza	28000	11623 V Nostradamus	27500
11096 H The Eagle - Vicenza	28000	11623 V PIANETA	27500
11096 H The Eagle - Livorno	28000	11623 V RTL 102.3 TV	27500
11096 H The Eagle - Naples	28000	11623 V RTL 102.5 TV	27500
11096 H The Eagle - Signella	28000	11623 V RTL Classic	27500
11096 H The Eagle - Souda Bay	28000	11623 V RTL Italian Style	27500
11096 H The Eagle - Vicenza	28000	11623 V TRT Tamil Olaj	27500
11137 H GEM TV	27500	11642 H Bloomberg Feeds (B)	27500
11137 H Kurdistan TV	27500	11642 H Bloomberg Feeds (E)	27500
11137 H Lady Channel	27500	11642 H Bloomberg Feeds (I)	27500
11137 H RTB	27500	11642 H Bloomberg Feeds (M)	27500
11137 H StarTV	27500	11642 H Bloomberg Feeds (S)	27500
11137 H TelefuntoSat	27500	11642 H Bloomberg Feeds (T)	27500
11137 H TV5MONDE EUROPE	27500	11642 H Bloomberg Feeds (U)	27500
11137 H TV5MONDE FBS	27500	11642 H Bloomberg Feeds (V)	27500
11137 H Vidua	27500	11642 H Bloomberg Feeds (W)	27500
11158 V Polsat	27500	11642 H Bloomberg Feeds (X)	27500
11158 V Polsat Cafe	27500	11642 H Bloomberg Feeds (Y)	27500
11158 V Polsat Extra	27500	11642 H Bloomberg Feeds (Z)	27500
11158 V Polsat Play	27500	11642 H Bloomberg Feeds (AA)	27500
11158 V Polsat Sport	27500	11642 H Bloomberg Feeds (AB)	27500
11158 V Superjazz	27500	11642 H Bloomberg Feeds (AC)	27500
11158 V Polsat News	27500	11642 H Bloomberg Feeds (AD)	27500
11158 V TV Bznes	27500	11642 H Bloomberg Feeds (AE)	27500
11179 H BTV NPZ	27500	11642 H Bloomberg Feeds (AF)	27500
11179 H BTV NPZ	27500	11642 H Bloomberg Feeds (AG)	27500
11179 H JSC Sport+2	27500	11642 H Bloomberg Feeds (AH)	27500
11179 H JSC Sport+3	27500	11642 H Bloomberg Feeds (AI)	27500
11179 H JSC Sport+4	27500	11642 H Bloomberg Feeds (AJ)	27500
11179 H JSC Sport+5	27500	11642 H Bloomberg Feeds (AK)	27500
11179 H JSC Sport+6	27500	11642 H Bloomberg Feeds (AL)	27500
11179 H JSC Sport+7	27500	11642 H Bloomberg Feeds (AM)	27500
11179 H JSC Sport+8	27500	11642 H Bloomberg Feeds (AN)	27500
11179 H JSC Sport+9	27500	11642 H Bloomberg Feeds (AO)	27500
11179 H JSC Sport+10	27500	11642 H Bloomberg Feeds (AP)	27500
11179 H JSC Sport+11	27500	11642 H Bloomberg Feeds (AQ)	27500
11179 H JSC Sport+12	27500	11642 H Bloomberg Feeds (AR)	27500
11179 H JSC Sport+13	27500	11642 H Bloomberg Feeds (AS)	27500
11179 H JSC Sport+14	27500	11642 H Bloomberg Feeds (AT)	27500
11179 H JSC Sport+15	27500	11642 H Bloomberg Feeds (AU)	27500
11179 H JSC Sport+16	27500	11642 H Bloomberg Feeds (AV)	27500
11179 H JSC Sport+17	27500	11642 H Bloomberg Feeds (AW)	27500
11179 H JSC Sport+18	27500	11642 H Bloomberg Feeds (AX)	

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SatCoDX Global Satellite Chart 04/2009

Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz
12.226 V IBB VOA 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

Satellite Global Satellite Chart 04/2009

Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate
12.207 H BBCW SERVICE	27500	12.265 H WDR 2	27500	12.563 H Spass im TV	22000	13.118 V DISNEY CH. #1	22000	11.635 H Euro Hits	28500	11.635 H Heavy Metal	28500
12.207 H BEUR FM	27500	12.265 H WDR 2 Klassik	27500	12.563 H Telehit	22000	11.478 V PLAYNITV	22000	11.635 H Bayern 4	28500	11.635 H Klassik Hits	28500
12.207 H BFM	27500	12.265 H WDR 3	27500	12.563 H TW1	22000	11.318 V JETIX	22000	11.635 H Klassischer Jazz	28500	11.635 H Love Songs	28500
12.207 H CANALSAT RADIOS	27500	12.265 H WDR 4	27500	12.563 H Uchi TV	22000	11.318 V SONY TV	22000	11.635 H Live Dancers	28500	11.635 H New Age	28500
12.207 H CHERIE FM	27500	12.265 H WDR 5	27500	12.563 H Uchi's Schwermusik	22000	11.478 V INULINE	22000	11.635 H Perfect Dinner Party	28500	11.635 H Pop	28500
12.207 H CONTACT FM	27500	12.265 H WDR Event	27500	12.563 H UE1	22000	11.478 V TELEREALTE	22000	11.635 H R & B Hip-Hop	28500	11.635 H Reggae	28500
12.207 H COULEUR 3	27500	12.265 H WDR FunKhaus Europa	27500	12.563 H Weiber TV	22000	11.478 V CANAL EVENEMENT	22000	11.635 H Rock Anthems	28500	11.635 H Rock'n Roll Oldies	28500
12.207 H EUROPE 1	27500	12.265 H YDF FM	27500	12.563 H OE2	22000	11.478 V GIRONDIS TV	22000	11.635 H Synchronie	28500	11.635 H Spanish Rock	28500
12.207 H FP	27500	12.265 H XXL	27500	12.563 H OE2 N	22000	11.478 V INULINE	22000	11.635 H UK Hits	28500	11.635 H TV 3	28500
12.207 H FRANCE BLEU HD	27500	12.265 H ABN METEORS	27500	12.563 H OE1	22000	11.478 V PLAYNITV	22000	11.635 H Bayern 2	28500	11.635 H Vremien Vier	28500
12.207 H FRANCE CULTURE	27500	12.265 H AB1	27500	12.563 H OE2 T	22000	11.478 V TELEREALTE	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H FRANCE INFO	27500	12.265 H ACTION	27500	12.563 H OE2 K	22000	11.478 V LCP	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H FRANCE INTER	27500	12.265 H ANIMAX	27500	12.563 H OE2 N	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H FRANCE MUSIQUE	27500	12.265 H ANIMAX	27500	12.563 H OE2 T	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H JAZZ RADIO	27500	12.265 H CINE POLAR	27500	12.563 H OE2 S	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H LE MOUV'	27500	12.265 H DORCEL TV	27500	12.563 H OE2 St	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H MC DUALITY	27500	12.265 H ENCYCLOPEDIA	27500	12.563 H OE2 T	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H MDR 1	27500	12.265 H ESCAPAD	27500	12.563 H OE2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H NOSTALGIE	27500	12.265 H MANGAS	27500	12.563 H OE2 T	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H NRJ	27500	12.265 H NC1	27500	12.563 H OE2 T	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H OUI FM	27500	12.265 H RTL9	27500	12.563 H OE3	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H PARENTHÈSE RADIO	27500	12.265 H toute LHISTOIRE	27500	12.563 H RADIO MARIA	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RADIO 1	27500	12.265 H NRTI	27500	12.563 H O1 International	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RADIO 2	27500	12.265 H MOSAÏQUE C+	27500	12.563 H O1	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RADIO 3	27500	12.324 H ONZEO	27500	12.563 H ORF 2	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RADIO ALPHA	27500	12.324 H PRIVATE SPICE	27500	12.563 H ORF 2	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RADIO EUROPA	27500	12.324 H YACHT AND SAIL	27500	12.563 H ORF 2	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RADIO COURTOISE	27500	12.324 H CASH TV	27500	12.563 H ORF 2	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RADIO FG	27500	12.324 H MOSA 2	27500	12.563 H ORF 2	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RADIO FRANCE	27500	12.324 H MOSA 3	27500	12.563 H ORF 2	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RADIO INT	27500	12.324 H MOSA 4	27500	12.563 H ORF 2 N	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RADIO INT 2	27500	12.324 H MOSA 5	27500	12.563 H ORF 2 T	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RADIO LATINA	27500	12.324 H MOSAÏQUE	27500	12.563 H ORF 2 S	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RADIO NOTRE-DAME	27500	12.324 H CDN12	27500	12.563 H ORF 2 St	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RADIO NOVA	27500	12.324 H (Empy)	27500	12.563 H ORF 2 T	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RADIO 2	27500	12.344 H Antenne1	27500	12.563 H ORF 2 T	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RADIO 3	27500	12.344 H Cartoon/TCM	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RCJ/SHALOM	27500	12.344 H Discovery	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RF	27500	12.344 H EUROSPORT	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RLNT	27500	12.344 H Hitlink	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RL MULTILINGUE	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RFE & CHANSONS	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RMC	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H RSKYROCK	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H SUD RADIO	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H TSF	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H VIBRATION	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H VIRGIN RADIO	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H VOLTAJE	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.207 H WRN	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.227 H EuroNews	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.227 H Eurosport	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.227 H HSE24 Digital	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.227 H MTV AUSTRIA	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.227 H NICK AUSTRIA	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.227 H RTL Austria	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.227 H RTL2 Austria	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.227 H Super RTL	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.227 H VOX Austria	27500	12.344 H RTL	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.246 H 6live	27500	12.363 H DT1	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.246 H 666 Girls TV	27500	12.363 H DT1	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.246 H A1 Teleshop	27500	12.363 H DT1	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.246 H ACHTUNG Erotik-TV	27500	12.363 H DT5	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.246 H ACHTUNG Singles	27500	12.363 H DT5	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.246 H Amateur SMS Chat	27500	12.363 H DT8	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.246 H Amore TV	27500	12.363 H DT8	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.246 H AstroredTV	27500	12.363 H DT5	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.246 H Beate User Sexy Sat	27500	12.363 H DT5	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.246 H Bi-Sex TV	27500	12.363 H DT2	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.246 H BlitzkontaktTV	27500	12.363 H DT20	27500	12.563 H ORF 2 V	22000	11.478 V PLAYNITV	22000	11.635 H Vremien Vier	28500	11.635 H Vremien Vier	28500
12.246 H DAF-AniegeTV	27500	12.363 H EUROSPORT HD	27500	12.563 H ORF 2 V</							

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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 eee 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	
EUROIRD 2	
23.5 East	
EURO2FB	
EUROIRD 2 025.5° East	
Ku-Band 40 46 51	
http://www.SatcoDX2.com/0255	
Coverage Code EUB002FB	
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 CLASSICAL	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 TARABIYA TV	27500
11.055 H VIRGIN RADIO	27500
11.055 H WATANI	27500
11.055 H WTV 128	27500
11.055 H BBC ARABIC	27500
11.055 H BBC ENGLISH	27500
11.055 H COUNTRY OF BLUES	27500
11.055 H DANCE	27500
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11.055 H ROCK	27500
11.055 H SUPER GOLD	27500
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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 H Al Hayat Series	27500
11.075 H Al Lubnania 128	27500
11.075 H Atlas 128	27500
11.075 H Awal TV	27500
11.075 H DM TV 128	27500
11.075 H Family One	27500
11.075 H Harmony TV	27500
11.075 H MARHABA	27500
11.075 H NOJOOM 4	27500
11.075 H Sajaja	27500
11.075 H Talemah	27500
11.075 H WATANI	27500
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11.075 H BBC ARABIC	27500
11.075 H BBC ENGLISH	27500
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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 TARABIYA TV	27500
11.075 H VIRGIN RADIO	27500

11.604 H CNNI	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-TARABIYA TV	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 Mkis Feed	14468
11.635 H Music Now	14468
11.635 H Salwa	14468
11.662 V Ashabek	27500
11.662 V Al JADEED	27500
11.662 V AISamaria	27500
11.662 V Arral	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 Mkhil-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 SAFFWA	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 CINEMA 5	27500
11.681 H GMA Pinyo 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 DZBB FM	27500

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BADR3X	
26.0 East	
BADR3KB	
BADR-3 026.0° East	
Ku-Band 41 46 50	
http://www.SatcoDX2.com/0260	
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 (Riadia)	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-Tunisie-Culture	27500
11.727 H R-Tunisie-Internat	27500
11.727 H R-Tunisie-National	27500
11.727 H Zitouna Tunisie	27500
11.747 V A Thuraya	27500
11.747 V AAKAR	27500
11.747 V Al Jawhara TV	27500
11.747 V Alkathar	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 2 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 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 Ghinwa	27500
11.804 H Poet	27500
11.804 H El Emrah	27500
11.804 H SHARAJAH TV	27500
11.804 H Strike	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
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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 Fajarah Athaan	27500
11.804 H LWA Athaan	27500
11.804 H QURAN GARIM	27500
11.804 H SHARAJAH RADIO	27500
11.804 H SOWT ALMUSICA	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 2	27500
11.862 V Test 4	27500
11.862 V Yara TV	27500
11.862 V ALKAWTHAR Radio	27500
11.862 V Oman Quran Karim	27500
12.015 V Saudi Sport	27500
12.015 V Saudi TV	27500
12.015 V Saudi Radio-1	27500
12.015 V Saudi Radio-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

North Africa, Middle East	
BADR4K3B	
BADR-4 026.0° East	
Ku-Band 44 47 53	
http://www.SatcoDX2.com/0260	
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 Thane 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 Panjorjorn	27500
11.919 H Panorama TV	27500
11.938 V Al Hurra	27500
11.938 V Al Hurra Iraq	27500
11.938 V Al Hurra TV	27500
11.938 V Ameen	27500
11.938 V AutoOne	27500
11.938 V Hamaa TV	27500
11.938 V Bab El Mawada	27500
11.938 V Sharya TV	27500
11.938 V Done Deal TV	27500
11.938 V Fanoos	27500
11.938 V Radio Sawa Sudan	27500
11.938 V M-Mark	27500
11.938 V El Nour Radio	27500
11.938 V AlManar TV	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 TV5 Monde Orient	27500
11.938 V H Abu El Mawada	27500
11.938 V H Al Hiwar	27500
11.938 V ANN TV	27500
11.938 V Arabat Promotion Ch	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	V	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 Sport2Babes	27500	11.508	H	Games Slot 16	27500
12.029	V	AL MOUTANA	27500	3.882	H	Al Jawhara	27500	11.739	V	Bravo+1	27500	12.461	H	WAP Browar 2	27500	10.788	V	BBC 1 East	20000	11.261	H	Zone Horz	27500	11.508	H	Games Slot 18	27500
12.029	V	ALDIFAR Music	27500	3.882	H	Booyai Moolteena	27500	11.739	V	Bravo+2	27500	12.461	H	WML HighPicos	27500	10.788	V	BBC 1 Mids	20000	11.261	H	Zone Reality+1	27500	11.508	H	Games Slot 19	27500
12.029	V	EBONY TV	27500	3.882	H	Family TV	27500	11.739	V	Challenge	27500	12.461	H	WonderPercs	27500	10.788	V	BBC 1 Wales	20000	11.261	H	Newstalk	27500	11.508	H	Games Slot 20	27500
12.029	V	Falshah Media 12	27500	3.882	H	On TV	27500	11.739	V	Challenger	27500	12.461	H	WAP Browar 2	27500	10.788	V	BBC 1 Sktland	20000	11.261	H	Zone ParaRadio	27500	11.508	H	Games Slot 21	27500
12.029	V	orient	27500	3.882	H	Sahraya	27500	11.739	V	LIVING	27500	11.973	V	Sony TV Asia	27500	10.788	V	ETVS	20000	11.307	V	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	10.803	H	BBC 1 West	20000	11.307	V	Challenge+1	27500	11.527	V	Extreme Sports	27500
12.029	V	SAHAR TV	27500	3.882	H	Test1	27500	11.739	V	LIVING+2	27500	12.031	H	ideal World	27500	10.803	H	BBC 1 Wales	20000	11.307	V	LIVING	27500	11.527	V	ParaComedy 1	27500
12.029	V	Shahar Rasoul	27500	3.882	H	Test2	27500	11.739	V	LIVING+3	27500	12.031	H	Free-drop TV	27500	10.803	H	BBC 1 Skotl	20000	11.307	V	LIVING+1	27500	11.527	V	ParaComedy 2	27500
12.029	V	TEAM TV	27500	3.882	H	Thuraya TV	27500	11.739	V	Test+1	27500	12.031	H	QVC QWOC	27500	10.803	H	BBC 2 Wales	20000	11.307	V	Motors TV	27500	11.527	V	Channel M	27500
12.029	V	Zoal TV	27500	3.882	H	Yara TV	27500	11.739	V	Test+2	27500	12.031	H	QVC IMusic Test	27500	10.803	H	BBC 2 Wales	20000	11.307	V	MUTV	27500	11.527	V	GayDateTV	27500
12.029	V	Falshah Radio	27500	4.040	H	AD Sports	27500	11.739	V	Trouble+1	27500	12.031	H	QVC Mosaic Test	27500	10.803	H	ETV2	20000	11.307	V	UKTV Hstory+1	27500	11.527	V	Lifestyle	27500
12.111	H	Al Eqtisada TV	27500	4.040	H	Al Eshbaria	27500	11.817	V	Albni	27500	12.110	H	QVC Test	27500	10.803	H	BBC 1 East	20000	11.307	V	Virgin 1	27500	11.527	V	Over 18	27500
12.111	H	ALAAAN TV	27500	4.040	H	DubaiTV	27500	11.817	V	Dave	27500	12.110	H	QVC TSNOW	27500	10.803	H	BBC 1 RSSX	20000	11.307	V	Virgin 1+	27500	11.527	V	Thomas Cook	27500
12.111	H	ARIRANG	27500	4.040	H	Ethiopia	27500	11.817	V	Eden	27500	12.110	H	speedactionTV	27500	10.818	V	BBC 1 NE & C	20000	11.307	V	XPLCIT XXX	27500	11.546	H	ARLIC Digital	27500
12.111	H	ASHOROQTV	27500	4.040	H	IRA	27500	11.817	V	UKTV Sports 3	27500	12.110	H	UKTV Sports 3	27500	10.818	V	BBC 1 Oxford	20000	11.307	V	9X	27500	11.546	H	WAGO	27500
12.111	H	Decision Makers Tv	27500	4.040	H	Press TV	27500	11.817	V	UKTV Sport	27500	12.110	H	Cartoonito	27500	10.818	V	BBC 1 S West	20000	11.307	V	BET	27500	11.546	H	Geo Comedy+1	27500
12.111	H	Dubai Sports 2	27500	4.040	H	PRES TV	27500	11.817	V	Ukr Docc	27500	12.110	H	UKTV Sport 4	27500	10.818	V	BBC 1 S West	20000	11.307	V	BET	27500	11.546	H	Geo Comedy+1	27500
12.111	H	INFINITY 2	27500	4.040	H	IRA	27500	11.817	V	UKTV Food	27500	12.110	H	SBL	27500	10.818	V	BBC 1 South	20000	11.307	V	High Street TV	27500	11.546	H	AvraTest	27500
12.111	H	INFINITY 3	27500	4.040	H	Saudi-1	27500	11.817	V	UKTV History	27500	12.110	H	UKTV Sports 1	27500	10.818	V	BBC 1 West	20000	11.307	V	High Street TV	27500	11.546	H	AvraTest	27500
12.111	H	Jawna	27500	4.040	H	Saudi-2	27500	11.817	V	UKTV Style	27500	12.110	H	UKTV Sports 2	27500	10.818	V	BBC 1 East	20000	11.307	V	Jewellery Ch.	27500	11.546	H	Geo Comedy+1	27500
12.111	H	SHARQAIVA	27500	4.040	H	Shiopia R1	27500	11.817	V	UKTV Sport 3	27500	12.110	H	UKTV Sports 3	27500	10.818	V	BBC 1 S West	20000	11.307	V	Jewellery Ch.	27500	11.546	H	Geo Comedy+1	27500
12.130	V	4FUN	27500	4.094	H	BT15	4340	11.876	H	Animal Planet	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	AhluBait	27500	11.876	H	dis+	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	11.343	V	NigeriaMovies	27500	11.546	H	Chanel M	27500
12.130	V	Al Eqtisada TV	27500	11.876	H	dis+ Knowledge	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500	10.832	H	ITV1 Border	27500								

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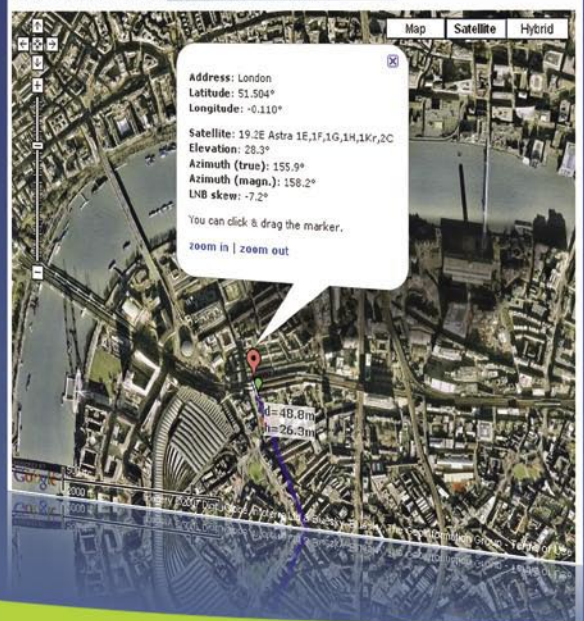
International location: e.g. streetname, postcode, geocode:

London

Popular Satellites:

- 28.2E Astra 2A-8-0
- 13.0E Hotbird 6,7A,8
- 19.2E Astra 1E,1F,1G,1H,1K,1R,2C
- 42.0E TurkSat 1C, 2A
- 16.0E Eutelsat W2
- 26.0E Badr-2,3,4/Eurobird 2
- 5.0E Sirius 2,3
- 5.0W Atlantic Bird 3
- 7.0W Nilesat 101, 102, Atlantic Bird 4
- 1.0W Intelsat 10-02

All Satellites & Multi-LNB Setups:



References



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12.560 H Satanta Golf	27500
12.560 H Satanta News	27500
12.560 H Satanta Sports1	27500
12.560 H Satanta Sports2	27500
12.560 V Best Direct	27500
12.560 V BestDirect+	27500
12.560 V Bubble Hits	27500
12.560 V EuroNews	27500
12.560 V O'zaproperty	27500
12.560 V Real Estate #1	27500
12.560 V Rocks & Co.	27500
12.560 V Thomson TV	27500
12.560 V Travel Channel	27500
12.560 V TravelChannel2	27500
12.560 V Tron Direct 2	27500
12.560 V Wedding TV1	27500
12.560 V Zone Thriller	27500
12.560 V Investigation	27500
11.428 H Brit Shorts	27500
11.428 H -	27500
11.428 H GROOVE	27500
11.428 H HNRG LOWNRG	27500
11.428 H RADIO SHEPHERD	27500
11.428 H WELL CLASS	27500
11.797 H Channel 4 HD	29500
11.797 H Sky Sports HD1	29500
11.797 H SkyRealLive2	29500
12.324 V Sci-Fi HD	29500
12.324 V Discovery HD	29500
12.324 V Disney Cine HD	29500
12.607 V Rush HD	27500
12.607 H Gay TV	27500
12.607 H redhot 40+	27500
12.607 H redhot amateur	27500
12.607 H redhot dd	27500
12.607 H redhot fetish	27500
12.607 H redhot girl	27500
12.607 H redhot just X	27500
12.607 H Television X	27500
12.607 H TVX Amateur	27500
12.607 H TVX Brits	27500
12.607 H TVX FWD	27500
12.607 H Zee Cinema	27500
12.607 H Zee Gujarati	27500
12.607 H Zee Punjabi	27500
12.607 H Zee Family	27500
12.607 H Live XXX	27500
12.607 H Pulse +4mins	27500
12.607 H Zee Music	27500
12.643 H Euse TVHD	27500
12.643 V DMAX+1	27500
12.643 V DMAX+2	27500
12.643 V Military	27500
12.643 V Nick Jr	27500
12.643 V Nickelodeon	27500
12.643 V ParaComedy+1	27500
12.643 V The Style Ntwk	27500
12.643 V 1898	27500
12.643 V S4350	27500
12.643 H Body In Balance	27500
12.643 H HITV	27500
12.643 H Live Bingo	27500
12.643 H Luxa TV	27500
12.643 H Music India	27500
12.643 H Ocean TV	27500
12.643 H NoorFinance	27500
12.643 V Teachers TV	27500
12.643 V World Movies	27500
12.643 V YoungHeart	27500
12.690 V BET +	27500
12.690 V channel U	27500
12.690 V Entrepreneur	27500
12.690 V Film24	27500
12.690 V Gems tv 3	27500
12.690 V MTV National	27500
12.690 V Pitch TV	27500
12.690 V Pitch World	27500
12.690 V Press TV	27500
12.690 V Sunrise TV	27500
12.690 V SupremeMstr	27500
12.690 V Travel Ch+1	27500
12.690 V Wonderful	27500

ARABSAT 2B	27500
ARABSAT 30.5° East	27500
ARABSAT 2B 030.5° East	27500
12.582 H ART-SNG2	4220
12.589 H BN SPCAD CHANNEL	4220
12.661 V Almajd 05	27500
12.661 V Almajd 06	27500
12.661 V Almajd 07	27500
12.661 V Almajd 08	27500
12.661 V Almajd 09	27500
12.661 V Almajd 10	27500
12.661 V Almajd 11	27500
12.661 V Almajd 12	27500
12.661 V Almajd 13	27500
12.661 V Almajd 14	27500
12.661 V Almajd 01	27500
12.661 V Almajd 02	27500
12.661 V Almajd 03	27500
12.661 V Almajd 04	27500
12.740 V OMAN TV SPECIAL	5084
12.740 V OMAN TV CH1	5084
12.740 V OMAN RADIO FEEDS	5084
ASTRA SATD	27500
11.095 V TEMPO-TURK	2222
11.099 V HAMS TV	2222
11.226 H BUSINESS	3925
11.226 H CITY FM	27500
11.226 H HUMOR FM	27500
11.226 H KINO FM	27500
11.226 H POMESTNOE	27500
11.226 H Toinfo-TV	27500
11.226 H 107.8	27500
11.226 H AvtoRadio	27500
11.226 H Business FM	27500
11.226 H City FM	27500
11.226 H DOPOHOE	27500
11.226 H Energia	27500
11.226 H G.2	27500
11.226 H Gardarika	27500
11.226 H Radio Alfa	27500
11.226 H Kino FM	27500
11.226 H Piter RS	27500
11.226 H Pomestnoe	27500
11.226 H Radio Alfa	27500
11.226 H Radio Record	27500
11.226 H Radio Vanya	27500
11.226 H Record-2	27500
11.226 H Relax	27500
11.226 H Shanson	27500
INTELSAT 802/EUROBIRD 3	27500
33.0 East	27500
EUROBIRD 033.0° East	27500
11.071 L Football test	27500
11.127 L Sport 1	27500
11.127 L Sport 2	27500
11.127 L TBI	27500
11.127 L Transmit	27500
11.127 L BIZ TV	27500
11.127 L CHANSON	27500
11.127 L Che-Pe INFO	27500
11.127 L Fiat Automotive	27500
11.127 L Q2TV	27500
11.127 L RUTV	27500
11.127 L TV3	27500
12.072 L Discovery HD	27500
12.072 L Eurosport HD	27500
12.072 L HD-Kino	27500
12.072 L HD-Sport	27500
12.175 L L-TV	4340
12.190 L 365 days	20000
12.190 L Teen TV	20000
12.190 L Antipolice	20000
12.190 L Discovery Channel	20000
12.190 L Dom Kino	20000
12.190 L Komedia TV	20000
12.190 L Muz & deti	20000
12.190 L Muzo TB	20000
12.190 L Nochnoy Klub	20000
12.190 L Nostalgia	20000
12.190 L Telemuzichnaya	20000
12.226 L Bilibigom	27500
12.226 L Vesti	27500
12.226 L JTB	27500
12.226 L Kultura	27500
12.226 L MuzTV	27500

11.175 H Animal Planet	23600
11.175 H GTV	23600
11.175 H Jetix	23600
11.175 H Planeta	23600
11.175 H Premium Digital	23600
11.175 H ART Channel	23600
11.175 H H Estate	23600
11.175 H FolklorTV	23600
11.175 H Kanal 3	23600
11.175 H R.ECTV	23600
11.175 H SC Fok	23600
11.175 H Zdrave	23600
11.650 V Turf TV	10098
11.685 H AKILLI TV	17360
11.685 H DIGITURK INFO	17360
11.685 H KANAL A	17360
11.685 H SAUDI 1 TV	17360
11.685 H ZDF	17360
EUROBIRD 033.0° East	27500
10.978 V Test	5787
11.098 H TV8 Mont Blanc	2441
11.110 H FOX TURK	3124
11.140 V MTV MUSIC WALLONNE	4881
11.165 V BITE ORG	1666
11.596 V BTV	27500
11.596 V MAP TV	27500
11.596 V Radio BNL	27500
11.596 V Radio Careturo	27500
11.596 V Radio GS	27500
11.596 V Radio IperStanda	27500
11.027 V Sci-Fi	8681
11.027 V Universal	8681
11.555 H SATNEWS02 02	6400
EUTELSAT SESAT, W4	27500
03.0 East	27500
12.226 H HTB	27500
12.226 L Peroviy	27500
12.226 L Pen TB	27500
12.226 L Rossija	27500
12.226 L Sport	27500
12.226 L TBU	27500
12.226 L THT	27500
12.226 L TrikolourTV	27500
12.245 R BBC World News	27500
12.245 R Bloomberg	27500
12.245 R Eurosport 2	27500
12.245 R Nickelodeon	27500
12.245 R Russia Today	27500
12.245 R TV	27500
12.245 R World Fashion	27500
12.245 R Детский мир/Телеклуб 6	27500
12.245 R ZDF	27500
12.245 R HTB Мир	27500
12.245 R Наше новое кино	27500
12.283 R 5 канал (Украина)	27500
12.283 R CCTV	27500
12.283 R ICTV	27500
12.283 R Первыи канал. Вспир	27500
12.283 R Время: далеко и блии	27500
12.283 R Megalopol	27500
12.283 R HTB	27500
12.283 R Парк развлечений	27500
12.283 R Первый канал. Вспир	27500
12.283 R PIP-Planeta	27500
12.283 R Советское секретно	27500
12.303 L Боец ТВ	27500
12.303 L Домашний	27500
12.303 L Zoo TV	27500
12.303 L Кинолюкс	27500
12.303 L CTC	27500
12.303 L Тонус ТВ	27500
12.303 L А-ONE	27500
12.303 L BRIDGE TV	27500
12.303 L Союз	27500
12.303 L AvtoRadio	27500
12.303 L Energia	27500
12.303 L Humor FM	27500
12.303 L Radio Alfa	27500
12.303 L Воскресенье	27500
12.303 L Новый день	27500
12.322 R Blue Hustler	27500
12.322 R REN-TV	27500
12.322 R Кинорус	27500
12.322 R Кто есть кто	27500
12.322 R Наше кино	27500
12.322 R Первыи	27500
12.322 R Прямая	27500
12.322 R Спорт	27500
12.322 R Футбол	27500
12.322 L Мирфанал	27500
12.341 L AXN Sci-Fi	27500
12.341 L CanalSat-TV	27500
12.341 L RU TV	27500
12.341 L Sci-Fi	27500
12.341 L Universal	27500
12.341 L Discovery Channel	27500
12.341 L Кинорус 1	27500
12.341 L Кинорус 2	27500
12.341 L Комедия TB	27500
12.341 L Discovery Channel	27500
12.360 R Animal Planet	27500
12.360 R CNN	27500
12.360 R Detekty Mir/Teclclub	27500
12.360 R Discovery Channel	27500
12.360 R EuroKino	27500
12.360 R Fox-Crime	27500
12.360 R HBO/Wild test	27500
12.360 R Planeta - SPORT	27500
12.360 R Sci-Fi	27500
12.360 R Sport 3	27500
12.360 R Sport 4	27500
12.360 R TEST01	27500
12.360 R TEST21	27500
12.360 R TEST	27500
12.360 R Universal	27500
12.360 R UTV	27500
12.360 R World Fashion Channe	27500
12.360 R Che-Pe.INFO	27500

12.360 R Smash TV	27500
12.380 L Авто Плюс	27500
12.380 L Боец ТВ	27500
12.380 L ЗвонТВ	27500
12.380 L Искра ТВ	27500
12.380 L Интернео ТВ	27500
12.380 L Комедия TB	27500
12.380 L Кухня ТВ	27500
12.380 L Легионер ТВ	27500
12.380 L МНОГООбзорное ТВ	27500
12.380 L Eurosport 2	27500
12.380 L TV Бульвар	27500
12.399 R 24/7OK	27500
12.399 R Fashion TV Network	27500
12.399 R MTV Russia	27500
12.399 R Vesti	27500
12.399 R Zvezda	27500
12.399 R Kinoskopa	27500
12.399 R Kultura	27500
12.399 R HTB	27500
12.399 R Россия	27500
12.399 R CTC-Москва	27500
12.399 R Спас	27500
12.399 R Спорт on-line	27500
12.399 R TNT	27500
12.418 L TV SAIL	27500
12.399 R Эхо Москвы	27500
12.418 L 3 канал	27500
12.418 L Russia Al-Yaum	27500
12.418 L VNH Russia	27500
12.418 L Библион	27500
12.418 L Дом кино	27500
12.418 L ИМП	27500
12.418 L Музыла Первого	27500
12.418 L Петербург - 5 канал	27500
12.418 L ТВЦ	27500
12.418 L ТБЦ	27500
12.418 L Теленяня	27500
12.418 L Радио Дети FM TEST	27500
12.437 R NBA TV	27500
12.437 R MTV	27500
12.437 R HCT	27500
12.437 R Наш футбол	27500
12.437 R Ностальгия	27500
12.437 R PTP-Спорт	27500
12.437 R Русское Экстремально	27500
12.437 R Спорт Классика	27500
12.437 R Спорт Шоу	27500
12.437 R Тенис	27500
12.456 L Animal Planet	27500
12.456 L Discovery	27500
12.456 L Discovery Travel&Liv	27500
12.456 L Eurosport	27500
12.456 L Hallmark	27500
12.456 L Jetix	27500
12.456 L Jetix Play	27500
12.456 L MusicBox	27500
12.456 L National Geographic	27500
12.456 L Zone Romantica	27500
12.476 R Cartoon Network/TCM	27500
12.476 R CN International	27500
12.476 R Discovery Science	27500
12.476 R Discovery World	27500
12.476 R EuroSports	27500
12.476 R Extreme Sports	27500
12.476 R MGM Int.	27500
12.476 R Jetix	27500
12.476 R Nat Geo Wild	27500
12.476 R VH1 Classic	27500
12.476 R Zone Reality	27500

12.284 H Amajd	26480
12.284 H BLITZ	26480
12.284 H go	26480
12.284 H KADLY	26480
12.284 H	

SatcoDX Global Satellite Chart 04/2009

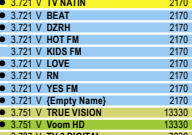
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12.479 H GET	30000	THA05CR		11.044 H Tenerife	44948	11.630 H HELPEDESK	28500	3.921 H TV 100	13000
12.479 H GWV	30000	THAICOM 5 078.5° East		11.044 H HONE TV	44948	11.630 H HOME TV	28500	3.921 H (Empty)	13000
12.479 H HOTT	30000			11.044 H 4yrdon	44948	11.630 H Showcase 2308	28500	3.923 V MMINIT	13000
12.479 H J100	30000			11.044 H Music Love	44948	11.630 H Showcase Promo Cha...	28500	3.934 V STAR JALSHA	30000
12.479 H LKGT	30000			11.044 H Mittelstaaja Volna	44948	11.630 H STAR Pravda	28500	3.934 V STAR VIJAY	30000
12.479 H MCTR	30000			11.044 H Radio Maya	29500	11.630 H Udaya 2	28500	3.934 V MEGA TV	30000
12.479 H MJNG	30000			11.044 H Animal Planet	44948	11.630 H Active Cooking	28500	3.934 V SUBHARVATHA	13000
12.479 H RVR	30000			11.044 H AXN Sci Fi	44948	11.630 H Home TV	28500	3.936 H M1	10100
12.479 H SPT	30000			11.044 H Kaskyev Europe Cha	44948	11.630 H Discovery 2410	28500	3.936 H NewsX	10100
12.479 H TMSG	30000			11.044 H Discovery Travel & L	44948	11.630 H TEN Sports	28500	3.949 H DY865	3223
12.521 H AMAX	30000			11.044 H Discovery World Euro	44948	11.670 H WHI	28500	3.957 H Mahua News	9500
12.521 H AXN	30000			11.044 H Fox Crime	44948	11.670 H Zoom	28500	3.957 H RAI KANADA	6500
12.521 H BBCE	30000			11.044 H Fox Life	44948	11.670 H Active Learning	28500	3.974 V GURATI	13300
12.521 H CH4	30000			11.044 H Kaskyev Geographic	44948	11.670 H Active Stories	28500	3.974 V ZEE NEXT	22000
12.521 H CHIC	30000			11.044 H Ocean TV	44948	11.670 H Active Wikids	28500	3.974 V MUMBAI	13300
12.521 H EI	30000			11.044 H Telenyaya	44948	C-Band: INSAT 2E 3B 4A		3.974 V News9	13300
12.521 H LTNG	30000			11.044 H Universal	44948	INS202CW		3.974 V SANSKRUTI	13300
12.521 H MCM	30000			11.044 H V TV Russia	44948	INSAT 2E 83.0° East		3.974 V ZEE NEWS	13300
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V (Empty)	13000
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V STAR JALSHA	30000
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V STAR VIJAY	30000
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V MEGA TV	30000
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V SUBHARVATHA	13000
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V M1	10100
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V NewsX	10100
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.949 H DY865	3223
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.957 H Mahua News	9500
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.957 H RAI KANADA	6500
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V GURATI	13300
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V ZEE NEXT	22000
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V MUMBAI	13300
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V News9	13300
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V SANSKRUTI	13300
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12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V (Empty)	13000
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V STAR JALSHA	30000
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12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V MEGA TV	30000
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V SUBHARVATHA	13000
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V M1	10100
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V NewsX	10100
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.949 H DY865	3223
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.957 H Mahua News	9500
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.957 H RAI KANADA	6500
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V GURATI	13300
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V ZEE NEXT	22000
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V MUMBAI	13300
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V News9	13300
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V SANSKRUTI	13300
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V ZEE NEWS	13300
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V (Empty)	13000
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V STAR JALSHA	30000
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V STAR VIJAY	30000
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V MEGA TV	30000
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V SUBHARVATHA	13000
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V M1	10100
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V NewsX	10100
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.949 H DY865	3223
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.957 H Mahua News	9500
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.957 H RAI KANADA	6500
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V GURATI	13300
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V ZEE NEXT	22000
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V MUMBAI	13300
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V News9	13300
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V SANSKRUTI	13300
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V ZEE NEWS	13300
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12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V STAR JALSHA	30000
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12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V MEGA TV	30000
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12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V News9	13300
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12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V ZEE NEXT	22000
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V MUMBAI	13300
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V News9	13300
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V SANSKRUTI	13300
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12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V STAR VIJAY	30000
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12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V M1	10100
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V NewsX	10100
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12.521 H MCM	30000			11.044 H V TV Russia	44948			3.957 H Mahua News	9500
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.957 H RAI KANADA	6500
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12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V ZEE NEXT	22000
12.521 H MCM	30000			11.044 H V TV Russia	44948			3.974 V MUMBAI	13300
12.521 H MCM	300								

Freq Pol Channel Name	Symbol rate	GHz
12120 V HHD	7234	12120
12120 V WGO	7234	12120
12120 V PHDC	7234	12120
12120 V SUVA	7234	12120
12120 V TEST	7234	12120
12120 V TBS	7234	12120
12120 V VAAN	7234	12120
12120 V WLT	7234	12120
12120 V PPP Portal (home t	7234	12120

INS30AC
INSAT 3A 093.5° East



MEASAT3CG
MEASAT 3 091.5° East



INS30AC
INSAT 3A 093.5° East



ASIO20CB
ASIASAT 2 100.5° East



ASIO35CB
ASIASAT 3S 105.5° East



Freq Pol Channel Name	Symbol rate	GHz
4109 V DDK AGARTALA	4250	4109
4132 V RTA Hindi	4000	4132
4132 V PHDC	4000	4132
4137 V RTA Service	4000	4137
4141 V ARIANA HTV	5148	4141
4141 V DISAS REGIONAL	5148	4141
4141 V ARIANA FM	5148	4141

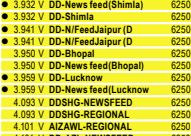
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INSAT 3A 093.5° East



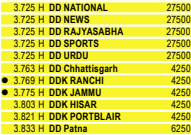
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MEASAT 3 091.5° East



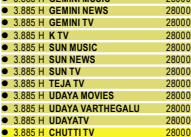
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ASIO20CB
ASIASAT 2 100.5° East

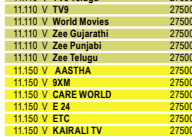


ASIO35CB
ASIASAT 3S 105.5° East



Freq Pol Channel Name	Symbol rate	GHz
11110 V ETC Punjabi	27500	11110
11110 V ETC	27500	11110
11110 V ETV Telugu	27500	11110
11110 V Gemini Music	27500	11110
11110 V Gemini News	27500	11110
11110 V DISAS REGIONAL	27500	11110
11110 V Kalganair Serhgal	27500	11110

INS30AC
INSAT 3A 093.5° East



MEASAT3CG
MEASAT 3 091.5° East



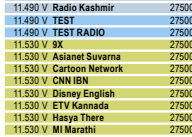
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INSAT 3A 093.5° East



ASIO20CB
ASIASAT 2 100.5° East

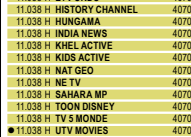


ASIO35CB
ASIASAT 3S 105.5° East



Freq Pol Channel Name	Symbol rate	GHz
11682 V Star News	9500	11682
11682 V BENDAS MOVIES	4000	11682
11682 V CHANNEL V	4000	11682
11682 V CNBC AWAZ	4000	11682
11682 V CNNIBN	4000	11682
11682 V CHANNEL	4000	11682
11682 V ETV2	4000	11682

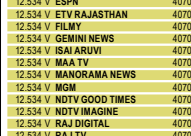
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MEASAT3CG
MEASAT 3 091.5° East



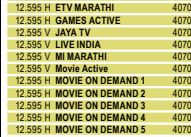
INS30AC
INSAT 3A 093.5° East



ASIO20CB
ASIASAT 2 100.5° East

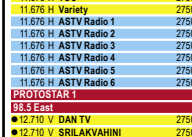


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ASIASAT 3S 105.5° East

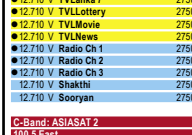


Freq Pol Channel Name	Symbol rate	GHz
11635 H DMC	27500	11635
11635 V For Mankind TV	27500	11635
11635 H Nation Channel	27500	11635
11635 H NBC AWAZ	27500	11635
11635 H PEAK CHANNEL	27500	11635
11635 H Suvannabhumi Ch	27500	11635
11635 H TCC	27500	11635

INS30AC
INSAT 3A 093.5° East



MEASAT3CG
MEASAT 3 091.5° East



INS30AC
INSAT 3A 093.5° East



ASIO20CB
ASIASAT 2 100.5° East



ASIO35CB
ASIASAT 3S 105.5° East

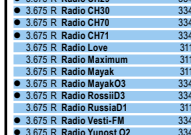


Freq Pol Channel Name	Symbol rate	GHz
3675 R Dubai-1RRD1	31100	3675
3675 R FM	31100	3675
3675 R Orbita-1Mayak	34689	3675
3675 R Orbita-3R-Mayak	34689	3675
3675 R Kultura-1	31100	3675
3675 R Kultur-2	31100	3675
3675 R MuTV Love	31100	3675
3675 R TRKS Kamchatka	34689	3675
3675 R TRKS MSK	34689	3675
3675 R RSN	34689	3675
3675 R DMF Region	34689	3675
3675 R HiK-FM	34689	3675
3675 R MAXIMUM	34689	3675
3675 R Russian Radio	34689	3675
3675 R Data SMR 96.5	34689	3675
3675 R DOBREY-PESNI	34689	3675
3675 R Radio A1-5	34689	3675
3675 R Radio A1-6	34689	3675
3675 R Radio A1-7	34689	3675
3675 R Radio A1-8	34689	3675
3675 R Radio A1-9	34689	3675
3675 R Radio A1-10	34689	3675
3675 R Radio A1-11	34689	3675
3675 R Radio A1-12	34689	3675
3675 R Radio A1-13	34689	3675
3675 R Radio A1-14	34689	3675
3675 R Radio A1-15	34689	3675
3675 R Radio A1-16	34689	3675
3675 R Radio A1-17	34689	3675
3675 R Radio A1-18	34689	3675
3675 R Radio A1-19	34689	3675
3675 R Radio A1-20	34689	3675
3675 R Radio A1-21	34689	3675
3675 R Radio A1-22	34689	3675
3675 R Radio A1-23	34689	3675
3675 R Radio A1-24	34689	3675
3675 R Radio A1-25	34689	3675
3675 R Radio A1-26	34689	3675
3675 R Radio A1-27	34689	3675
3675 R Radio A1-28	34689	3675
3675 R Radio A1-29	34689	3675
3675 R Radio A1-30	34689	3675
3675 R Radio A1-31	34689	3675
3675 R Radio A1-32	34689	3675
3675 R Radio A1-33	34689	3675
3675 R Radio A1-34	34689	3675
3675 R Radio A1-35	34689	3675
3675 R Radio A1-36	34689	3675
3675 R Radio A1-37	34689	3675
3675 R Radio A1-38	34689	3675
3675 R Radio A1-39	34689	3675
3675 R Radio A1-40	34689	3675
3675 R Radio A1-41	34689	3675
3675 R Radio A1-42	34689	3675
3675 R Radio A1-43	34689	3675
3675 R Radio A1-44	34689	3675
3675 R Radio A1-45	34689	3675
3675 R Radio A1-46	34689	3675
3675 R Radio A1-47	34689	3675
3675 R Radio A1-48	34689	3675
3675 R Radio A1-49	34689	3675
3675 R Radio A1-50	34689	3675
3675 R Radio A1-51	34689	3675
3675 R Radio A1-52	34689	3675
3675 R Radio A1-53	34689	3675
3675 R Radio A1-54	34689	3675
3675 R Radio A1-55	34689	3675
3675 R Radio A1-56	34689	3675
3675 R Radio A1-57	34689	3675
3675 R Radio A1-58	34689	3675
3675 R Radio A1-59	34689	3675
3675 R Radio A1-60	34689	3675
3675 R Radio A1-61	34689	3675
3675 R Radio A1-62	34689	3675
3675 R Radio A1-63	34689	3675
3675 R Radio A1-64	34689	3675
3675 R Radio A1-65	34689	3675
3675 R Radio A1-66	34689	3675
3675 R Radio A1-67	34689	3675
3675 R Radio A1-68	34689	3675
3675 R Radio A1-69	34689	3675
3675 R Radio A1-70	34689	3675
3675 R Radio A1-71	34689	3675
3675 R Radio A1-72	34689	3675
3675 R Radio A1-73	34689	3675
3675 R Radio A1-74	34689	3675
3675 R Radio A1-75	34689	3675
3675 R Radio A1-76	34689	3675
3675 R Radio A1-77	34689	3675
3675 R Radio A1-78	34689	3675
3675 R Radio A1-79	34689	3675
3675 R Radio A1-80	34689	3675
3675 R Radio A1-81	34689	3675
3675 R Radio A1-82	34689	3675
3675 R Radio A1-83	34689	3675
3675 R Radio A1-84	34689	3675
3675 R Radio A1-85	34689	3675
3675 R Radio A1-86	34689	3675
3675 R Radio A1-87	34689	3675
3675 R Radio A1-88	34689	3675
3675 R Radio A1-89	34689	3675
3675 R Radio A1-90	34689	3675
3675 R Radio A1-91	34689	3675
3675 R Radio A1-92	34689	3675
3675 R Radio A1-93	34689	3675
3675 R Radio A1-94	34689	3675
3675 R Radio A1-95	34689	3675
3675 R Radio A1-96	34689	3675
3675 R Radio A1-97	34689	3675
3675 R Radio A1-98	34689	3675
3675 R Radio A1-99	34689	3675
3675 R Radio A1-100	34689	3675

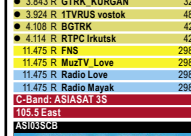
INS30AC
INSAT 3A 093.5° East



MEASAT3CG
MEASAT 3 091.5° East



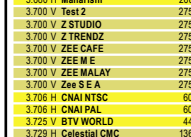
INS30AC
INSAT 3A 093.5° East



ASIO20CB
ASIASAT 2 100.5° East



ASIO35CB
ASIASAT 3S 105.5° East



Freq Pol Channel Name	Symbol rate	GHz
481 STAR Sports	27500	481
442 STAR Sports	27500	442
481 STAR Sports	27500	481
482 STAR Sports	27500	482
483 STAR Sports	27500	483
484 STAR Sports	27500	484
485 STAR Sports	27500	485
486 STAR Sports	27500	486
487 STAR Sports	27500	487
488 STAR Sports	27500	488
489 STAR Sports	27500	489
490 STAR Sports	27500	490
491 STAR Sports	27500	491
492 STAR Sports	27500	492
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494 STAR Sports	27500	494
495 STAR Sports	27500	495
496 STAR Sports	27500	496
497 STAR Sports	27500	497
498 STAR Sports	27500	498
499 STAR Sports	27500	499
500 STAR Sports	27500	500
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503 STAR Sports	27500	503
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507 STAR Sports	27500	507
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524 STAR Sports	27500	524
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526 STAR Sports	27500	526
527 STAR Sports	27500	527
528 STAR Sports	27500	528
529 STAR Sports	27500	529
530 STAR Sports	27500	530
531 STAR Sports	27500	531
532 STAR Sports	27500	532
533 STAR Sports	27500	533
534 STAR Sports	27500	534
535 STAR Sports	27500	535
536 STAR Sports	27500	536
537 STAR Sports	27500	537
538 STAR Sports	27500	538
539 STAR Sports	27500	539
540 STAR Sports	27500	540
541 STAR Sports	27500	541
542 STAR Sports	27500	542

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
12.169 H McBox	28000	11.785 H Nat Geo Wild RO	28000	4.025 R BBC English (W Af)	7324	TH0002KU		12.456 V Discov Science	28000
12.169 H Planet TV	28000	11.785 H BBC English Mid-Ea	7324	4.025 R BBC English News	7324	THOR 2 359.2° East		12.456 V World Carnival	28000
12.169 H SKAT	28000	11.785 H TV 6	28000	4.025 R BBC French	7324			12.456 V MTV2 (Cable)	28000
12.169 H Telesat TV	28000	11.785 H Music Channel	28000	4.025 R BBC Pashto	7324			12.456 V Jazz Classics	28000
12.169 H TV LUX	28000	11.785 H Radio Gaga	28000	4.025 R BBC Portuguese	7324			12.456 V Just Chill Out	28000
12.169 H Alpha 3	28000	12.015 H Canal HD	28000	4.025 R BBC Somali	7324			12.456 V World News	28000
12.169 H Alpha Radio	28000	12.128 H History Chnl HD	30000	4.025 R BBC Swahili	7324			12.456 V Nick-VH1 TS	28000
12.169 H BG Radio	28000	12.128 H TV Norge HD	30000	INTELSAT 10-02				12.456 V Rock Anthems	28000
12.169 H ENERGY	28000	12.188 H Silver HD	25000	359.0 East (1.0 West)				12.456 V Sky News	28000
12.169 H Focus Prima	28000	12.188 H Voom HD	25000	INS01023				12.456 V Soul Classics	28000
12.169 H Focus Sofia	28000	12.418 H DR1 Syd	28000	INS01023				12.456 V Strictly 60s	28000
12.169 H Focus Varnovo	28000	12.418 H DR2 Syd	28000	INS01023				12.456 V The Alternative	28000
12.169 H Focus Varna	28000	12.418 H DR3 Syd	28000	INS01023				12.456 V Total Hits	28000
12.169 H HIT FM	28000	12.418 H DR4 Syd	28000	INS01023				12.456 V Total Hits Italy	28000
12.169 H HORNET Radio	28000	12.418 H DR5 Syd	28000	INS01023				12.456 V Total Hits Nordi	28000
12.169 H Njory	28000	12.418 H DR6 Syd	28000	INS01023				12.456 V Urban	28000
12.169 H OMV ROMANIA	28000	12.418 H DR7 Syd	28000	INS01023				12.456 V VH1 Classic	28000
12.169 H Radio 1	28000	12.418 H DR8 Syd	28000	INS01023				12.456 V World News	28000
12.169 H Radio City 2	28000	12.418 H DR9 Syd	28000	INS01023				12.456 V Xmas & Kids	28000
12.169 H Radio FM+	28000	12.418 H DR10 Syd	28000	INS01023				12.476 H Eurosport	27800
12.169 H Radio Fresh	28000	12.418 H DR11 Syd	28000	INS01023				12.476 H Eurosport 2	27800
12.169 H Radio Misa	28000	12.418 H DR12 Syd	28000	INS01023				12.476 H TV-Bijljet 1	27800
12.169 H Radio1 Rock	28000	12.418 H DR13 Syd	28000	INS01023				12.476 H TV-Bijljet 2	27800
12.169 H STAR FM	28000	12.418 H DR14 Syd	28000	INS01023				12.476 H TV4 Guid	27800
12.169 H Test Radio	28000	12.418 H DR15 Syd	28000	INS01023				12.476 H TV4 Komedi	27800
12.169 H Veronica	28000	12.418 H DR16 Syd	28000	INS01023					
12.169 H Z-ROCK	28000	12.418 H DR17 Syd	28000	INS01023					
12.226 V ESPN America	28000	12.418 H DR18 Syd	28000	INS01023					
12.226 V ESPN Classic	28000	12.418 H DR19 Syd	28000	INS01023					
12.226 V TV 2 Sport 2	28000	12.418 H DR20 Syd	28000	INS01023					
12.226 V TV (N)	28000	12.418 H DR21 Syd	28000	INS01023					
12.226 V TV8	28000	12.418 H DR22 Syd	28000	INS01023					
12.226 V Scandinavian Satelli	28000	12.418 H DR23 Syd	28000	INS01023					
12.245 H Antena 1	28000	12.418 H DR24 Syd	28000	INS01023					
12.245 H Favorit TV	28000	12.418 H DR25 Syd	28000	INS01023					
12.245 H Hallmark	28000	12.418 H DR26 Syd	28000	INS01023					
12.245 H Hustler TV	28000	12.418 H DR27 Syd	28000	INS01023					
12.245 H Minimax	28000	12.418 H DR28 Syd	28000	INS01023					
12.245 H MTV Romania	28000	12.418 H DR29 Syd	28000	INS01023					
12.245 H National TV	28000	12.418 H DR30 Syd	28000	INS01023					
12.245 H Prima TV	28000	12.418 H DR31 Syd	28000	INS01023					
12.245 H Realitatea TV	28000	12.418 H DR32 Syd	28000	INS01023					
12.245 H Romantica	28000	12.418 H DR33 Syd	28000	INS01023					
12.245 H Telesport	28000	12.418 H DR34 Syd	28000	INS01023					
12.245 H TVR 1	28000	12.418 H DR35 Syd	28000	INS01023					
12.245 H TVR 2	28000	12.418 H DR36 Syd	28000	INS01023					
12.245 H TVR Cultural	28000	12.418 H DR37 Syd	28000	INS01023					
12.245 H TVR 3	28000	12.418 H DR38 Syd	28000	INS01023					
12.245 H TVR 4	28000	12.418 H DR39 Syd	28000	INS01023					
12.245 H TVR 5	28000	12.418 H DR40 Syd	28000	INS01023					
12.245 H TVR 6	28000	12.418 H DR41 Syd	28000	INS01023					
12.245 H TVR 7	28000	12.418 H DR42 Syd	28000	INS01023					
12.245 H TVR 8	28000	12.418 H DR43 Syd	28000	INS01023					
12.245 H TVR 9	28000	12.418 H DR44 Syd	28000	INS01023					
12.245 H TVR 10	28000	12.418 H DR45 Syd	28000	INS01023					
12.245 H TVR 11	28000	12.418 H DR46 Syd	28000	INS01023					
12.245 H TVR 12	28000	12.418 H DR47 Syd	28000	INS01023					
12.245 H TVR 13	28000	12.418 H DR48 Syd	28000	INS01023					
12.245 H TVR 14	28000	12.418 H DR49 Syd	28000	INS01023					
12.245 H TVR 15	28000	12.418 H DR50 Syd	28000	INS01023					
12.245 H TVR 16	28000	12.418 H DR51 Syd	28000	INS01023					
12.245 H TVR 17	28000	12.418 H DR52 Syd	28000	INS01023					
12.245 H TVR 18	28000	12.418 H DR53 Syd	28000	INS01023					
12.245 H TVR 19	28000	12.418 H DR54 Syd	28000	INS01023					
12.245 H TVR 20	28000	12.418 H DR55 Syd	28000	INS01023					
12.245 H TVR 21	28000	12.418 H DR56 Syd	28000	INS01023					
12.245 H TVR 22	28000	12.418 H DR57 Syd	28000	INS01023					
12.245 H TVR 23	28000	12.418 H DR58 Syd	28000	INS01023					
12.245 H TVR 24	28000	12.418 H DR59 Syd	28000	INS01023					
12.245 H TVR 25	28000	12.418 H DR60 Syd	28000	INS01023					
12.245 H TVR 26	28000	12.418 H DR61 Syd	28000	INS01023					
12.245 H TVR 27	28000	12.418 H DR62 Syd	28000	INS01023					
12.245 H TVR 28	28000	12.418 H DR63 Syd	28000	INS01023					
12.245 H TVR 29	28000	12.418 H DR64 Syd	28000	INS01023					
12.245 H TVR 30	28000	12.418 H DR65 Syd	28000	INS01023					
12.245 H TVR 31	28000	12.418 H DR66 Syd	28000	INS01023					
12.245 H TVR 32	28000	12.418 H DR67 Syd	28000	INS01023					
12.245 H TVR 33	28000	12.418 H DR68 Syd	28000	INS01023					
12.245 H TVR 34	28000	12.418 H DR69 Syd	28000	INS01023					
12.245 H TVR 35	28000	12.418 H DR70 Syd	28000	INS01023					
12.245 H TVR 36	28000	12.418 H DR71 Syd	28000	INS01023					
12.245 H TVR 37	28000	12.418 H DR72 Syd	28000	INS01023					
12.245 H TVR 38	28000	12.418 H DR73 Syd	28000	INS01023					
12.245 H TVR 39	28000	12.418 H DR74 Syd	28000	INS01023					
12.245 H TVR 40	28000	12.418 H DR75 Syd	28000	INS01023					
12.245 H TVR 41	28000	12.418 H DR76 Syd	28000	INS01023					
12.245 H TVR 42	28000	12.418 H DR77 Syd	28000	INS01023					
12.245 H TVR 43	28000	12.418 H DR78 Syd	28000	INS01023					
12.245 H TVR 44	28000	12.418 H DR79 Syd	28000	INS01023					
12.245 H TVR 45	28000	12.418 H DR80 Syd	28000	INS01023					
12.245 H TVR 46	28000	12.418 H DR81 Syd	28000	INS01023					
12.245 H TVR 47	28000	12.418 H DR82 Syd	28000	INS01023					
12.245 H TVR 48	28000	12.418 H DR83 Syd	28000	INS01023					
12.245 H TVR 49	28000	12.418 H DR84 Syd	28000	INS01023					
12.245 H TVR 50	28000	12.418 H DR85 Syd	28000	INS01023					
12.245 H TVR 51	28000	12.418 H DR86 Syd	28000	INS01023					
12.245 H TVR 52	28000	12.418 H DR87 Syd	28000	INS01023					
12.245 H TVR 53	28000	12.418 H DR88 Syd	28000	INS01023					
12.245 H TVR 54	28000	12.418 H DR89 Syd	28000	INS01023					
12.245 H TVR 55	28000	12.418 H DR90 Syd	28000	INS01023					
12.245 H TVR 56	28000	12.418 H DR91 Syd	28000	INS01023					
12.245 H TVR 57	28000	12.418 H DR92 Syd	28000	INS01023					
12.245 H TVR 58	28000	12.418 H DR93 Syd	28000	INS01023					
12.245 H TVR 59	28000	12.418 H DR94 Syd	28000	INS01023					
12.245 H TVR 60	28000	12.418 H DR95 Syd	28000	INS01023					
12.245 H TVR 61	28000	12.418 H DR96 Syd	28000	INS01023					
12.245 H TVR 62	28000	12.418 H DR97 Syd	28000	INS01023					
12.245 H TVR 63	28000	12.418 H DR98 Syd	28000	INS01023					
12.245 H TVR 64	28000	12.418 H DR99 Syd	28000	INS01023					
12.245 H TVR 65	28000	12.418 H DR00 Syd	28000	INS01023					
12.245 H TVR 66	28000	12.418 H DR01 Syd	28000	INS01023					
12.245 H TVR 67	28000	12.418 H DR02 Syd	28000	INS01023					
12.245 H TVR 68	28000	12.418 H DR03 Syd	28000	INS01023					
12.245 H TVR 69	28000	12.418 H DR04 Syd	28000	INS01023					
12.245 H TVR 70	28000	12.418 H DR05 Syd	28000	INS01023					
12.245 H TVR 71	28000	12.418 H DR06 Syd	28000	INS01023					
12.245 H TVR 72	28000	12.418 H DR07 Syd	28000	INS01023				</	



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	3.23%
5411	65	73	73	12.31%
652	60	72	72	20.00%
642	61	70	70	14.75%
502	53	70	70	32.08%
6435	53	70	70	32.08%
120	76	67	67	-11.84%
664	68	66	66	-2.94%
710	69	65	65	-8.80%
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</				



Edited by Alexander Wiese

20 Years Ago

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



satelc ... zeigt wie immer richtungweisende Technik

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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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Stand: April 1988

WEST: 45, 27.5, 24.5, 21.5, 14
 EAST: 1, 7, 10, 13, 16, 19, 60, 63, 66

INT VA-F11, INT VA-F6, INT VA-F2, EUT I-F4, EUT I-F5, INT VA-F12, INT VA-F7

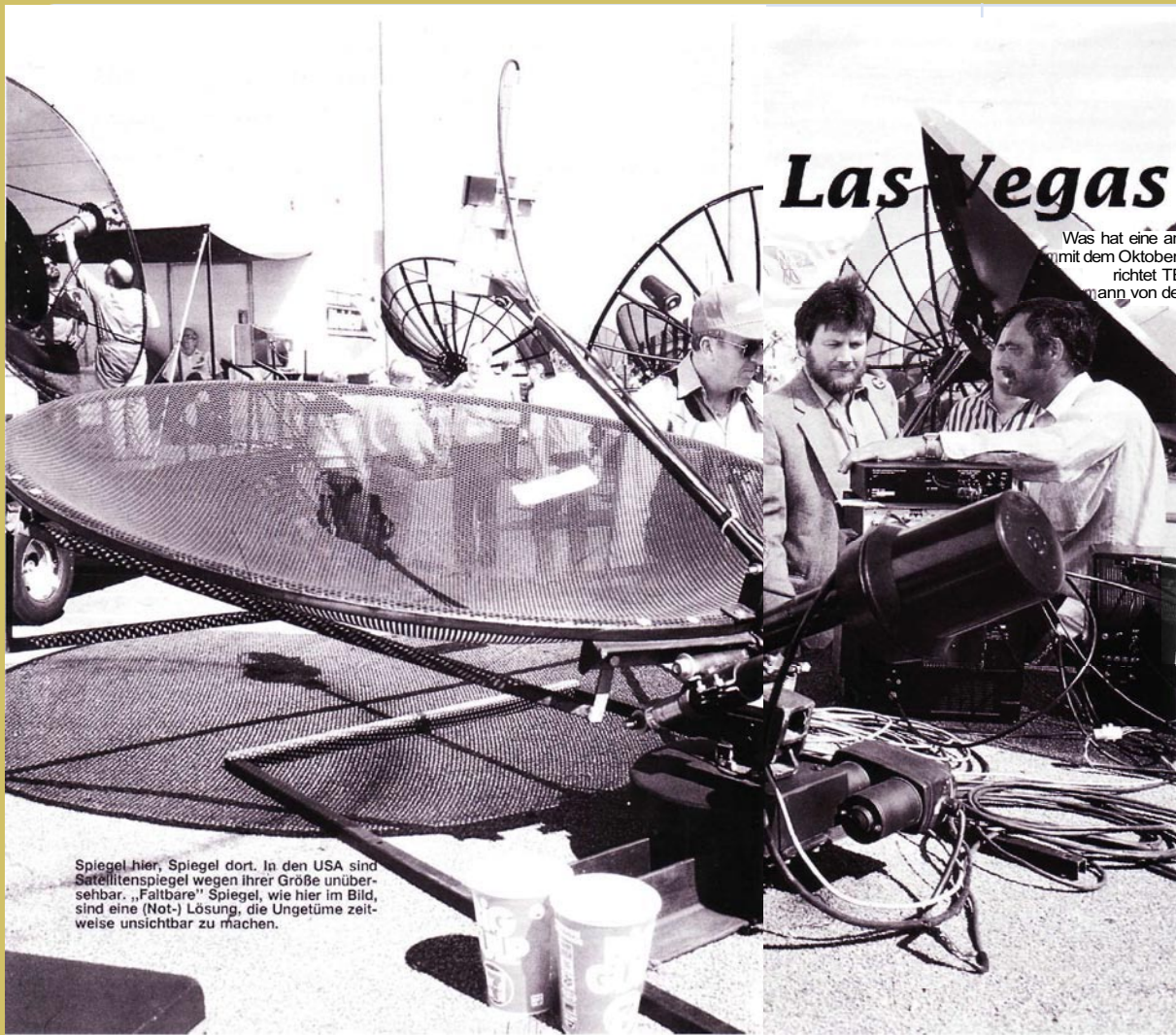
PAS 1, INT VA-F10, GOR 12, EUT I-F2, EUT I-F1, ASTRA, INT VA-F5

Fernsehen über Satellit 11 GHz (Ku-Band)

Satellit	Position	Programme	Sendeland	Sprache	Frequenz	Polarisation	Beim	Bildformat	Videotext	Tarif	System	Empfang	Leistung	Zeiten	Bemerkungen
INTELSAT VA-F11	27.5 W	MTV Europe	USA	englisch	10.98	Horz	West	PAL-NEG	-	Free	dBW	46	24	Widokids	Begleitton Stereo
INTELSAT VA-F10	24.5 W	Torresano, Telepieno, Telenorcia, TV Test	Italien	italien	10.98	Vertikal	West	PAL-NEG	-	Free	dBW	46	24	-	-
GORPONT 12	14 West	Swedish, Norpas, Kanal 1	Schweden	schwedisch	11.01	Horz	West	PAL-NEG	-	Free	dBW	44	24	Unterhaltung + Kultur	-
EUTELSAT I-F2	7.0 Ost	Worldnet, NTK, TVET	Norwegen	englisch, norwegisch	11.47	Horz	West	PAL-NEG	-	Free	dBW	45	24	Information	-
EUTELSAT I-F1	13.0 Ost	RA LINO, RTL plus, Euro-act	Italien	italien	11.08	Horz	West	PAL-NEG	-	Free	dBW	45	24	Unterhaltung + Kultur	-
INTELSAT VA-F12	80 Ost	3SAT, Wiet 3, NPK, ARTE, APN-TV, Euro Plus, nureka 1	BRD, Frankreich, USA, BRD, BRD, BRD	deutsch, englisch, französisch, spanisch, deutsch	11.07, 11.01, 11.13, 11.07, 11.51, 11.80	Vertikal	West	PAL-NEG	-	Free	dBW	46	24	Unterhaltung + Kultur, Frust 1, Information, Unterhaltung, Begleitton Stereo	-
INTELSAT VA-F5	83.0 Ost	IRIB TV 1, IRIB TV2	Iran	farsi	10.99	Vertikal	West	PAL-NEG	-	Free	dBW	46	24	Kultur - DX	-
INTELSAT VA-F7	86.0 Ost	ARTE HD, TRT 1	USA, Türkei	englisch, türkisch	11.67, 11.65	Horz	West	PAL-NEG	-	Free	dBW	43	24	Kultur - DX, Unterhaltung - DX	-

Radio über Satellit 11 GHz (Ku-Band)

Satellit	Position	Programme	Sendeland	Sprache	Frequenz	Polarisation	Beim	Tarif	Frequenz	System	Empfang	Leistung	Zeiten	Bemerkungen	
INTELSAT VA-F11	27.5 W	BBC Worldserv, BBC Worldserv, SDR 2, SDR 3, SDR 4	Grönland, Schweden	englisch, schwedisch	11.18, 11.16, 11.13	Horz	West	WEGENER	2.20	Free	dBW	45	24	Mono / Kurzwelle	-
EUTELSAT I-F4	10.0 Ost	NPK 21, NPK 22, NPK 23	Norwegen	norwegisch	11.18	Vertikal	West	Digital MAC	7.02 & 7.20	Free	dBW	45	24	Unterhaltung + Kultur	-
EUTELSAT I-F1	13.0 Ost	Star Trek, Voice of America, Star Trek Radio, BBC Worldserv, GORPONT	BRD, BRD, USA	deutsch, englisch, amerikanisch	11.07, 11.07, 11.67	Vertikal	West	WEGENER	7.30	Free	dBW	45	24	Unterhaltung + Kultur, Stereo, Kurzwelle	-
INTELSAT VA-F12	80.0 Ost	BBC Worldserv, Radio Media, Digital Test, IRIB Radio 1, IRIB Radio 2	BRD, BRD, BRD, Iran	deutsch, deutsch, deutsch, farsi	11.67, 11.15, 10.99	Vertikal	West	WEGENER	7.02 & 7.20	Free	dBW	46	24	Mono - Auslandsprogramme, Stereo, Unterhaltung - DX, Testsendungen - DX	-



USAT

Las Vegas 1988

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

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

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



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

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

Desolate Verkaufslage des US Marktes

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

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

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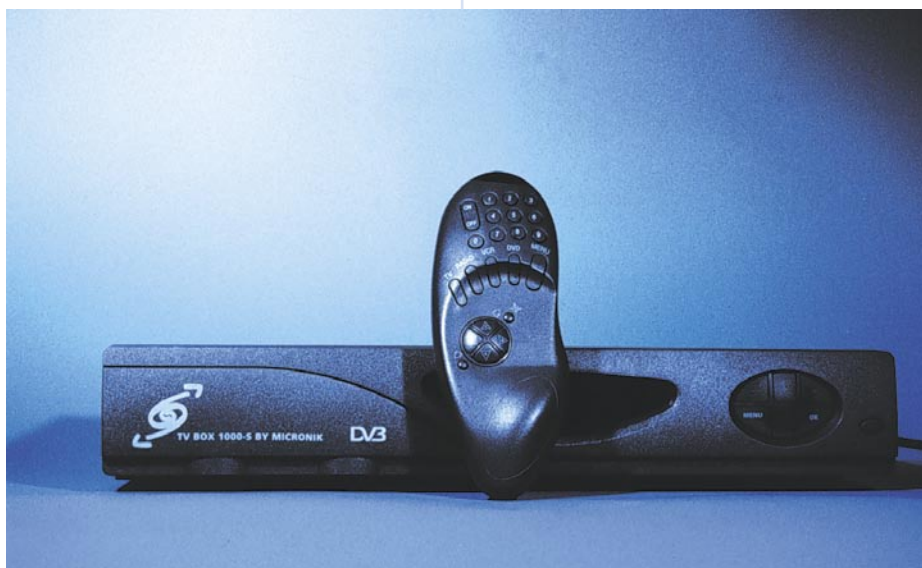
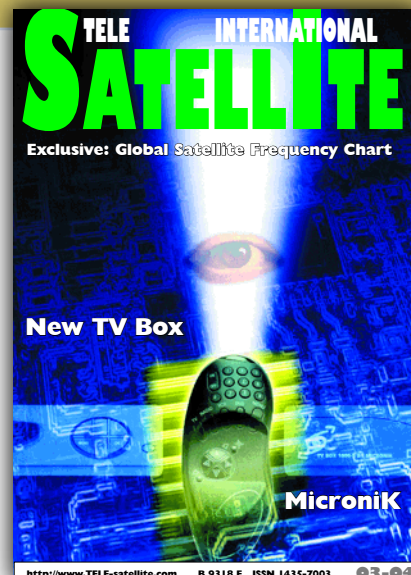
Edited by
Alexander Wiese

Mikronik TV-Box 1000-S

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

10 Years Ago

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



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

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

Telecontrol's i-Box

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





FSM 204 SAT-TV Spektrum-Analyser

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

Antennas in Poltava

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



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

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

Echostar & S.C.I.

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



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

SCI

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

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

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



Sagem ISD 3100

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

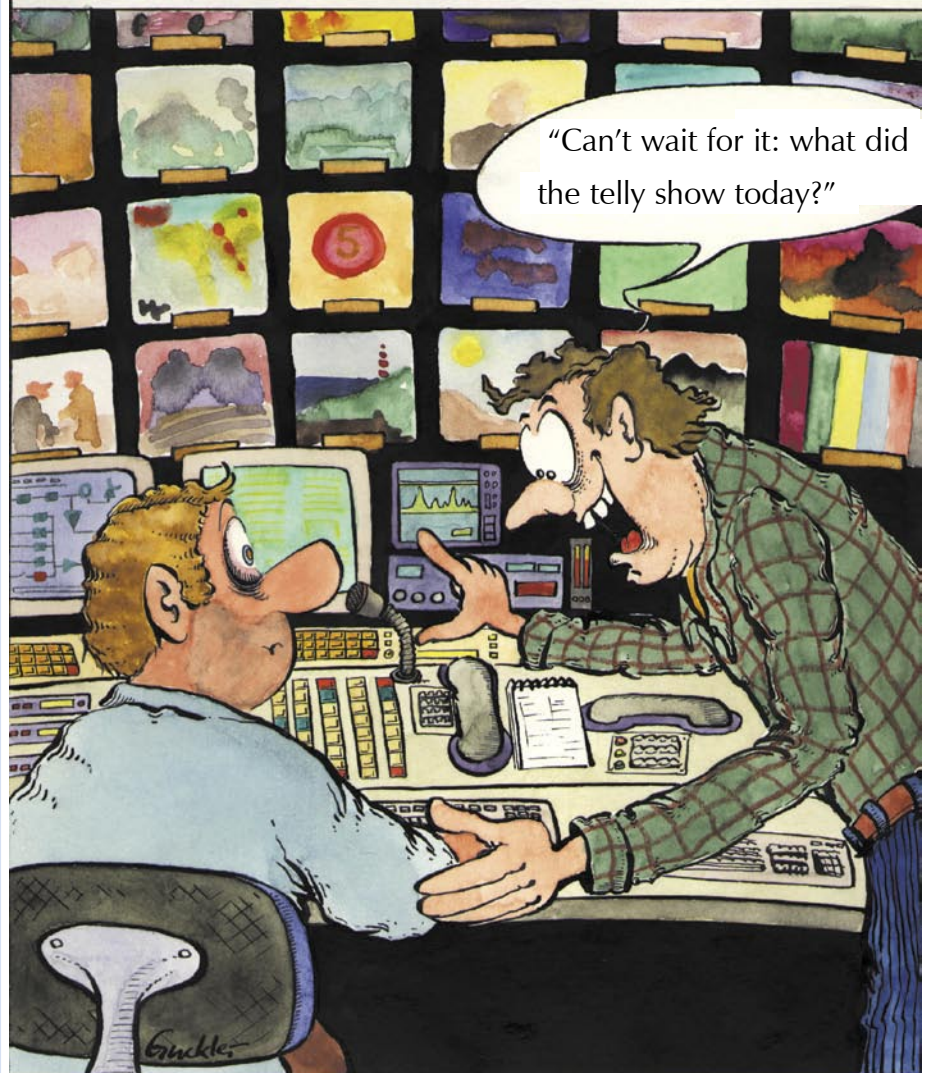
Measuring analog and digital, now and in the future

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



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

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



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