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02-03/2009



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GAME



Featuring on-line game 'BATTLE TANK'.

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

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www.i-topfield.com

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

TELE **SATELLITE**
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www.TELE-satellite.com/tur



Bir Distripress üyesidir

SatcoDX 04/2009

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
01/2009
Elektrik
Kopyası

SatcoDX yazılımını buradan indirebilirsiniz:
www.TELE-satellite.com/cd/0904/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. At the top, there's a menu bar with 'File', 'Utilities', 'License', and 'Help'. Below it, a language dropdown is set to 'English'. The main window is titled 'Show All Channels in This Lang.' and shows a list of satellite channels. The list has columns for 'Position Code and Satellite', 'Type', 'Ch', 'Frequ', 'Pr', 'Channel Name', 'Coverage', and 'MPG2'. The channels listed include various Panamsat IR satellites and other services like Radio Futuro, Telecentro, and Radio Sonorama. To the right of the list, there's a map showing the satellite's coverage area. Below the map, there's a table with columns for 'Satellite Position and Name', 'Coverage Code', 'Dish Size', 'Azimuth', and 'Elevation'. At the bottom, there's a 'Database Update' dialog box with a progress bar and a 'Performing the update' status. On the far right, there's a 'Program Receiver' dialog box with fields for 'Satellite Industry Standard Protocol', 'Dish Size', 'Flow Control', and 'Program Receiver'.



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هو انيك شركة SeaTel عالية الجودة صنع
في الولايات المتحدة الأمريكية

تقرير عن شركة
وولف للفضاء في ماليزيا
الوسائط المتعددة في
شركة NanoXX

تقرير استنفال
الاساترون الأمريكي في أوروبا
استقبال الإرسال الفضائي في
من أمريكا Tenerife

تقرير عن شركة
Smart من أرض طائر الوقواق
الشركة الألمانية التي بدأت التوسع
بشكل كبير

العربية

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جوائز اختيار

Jiuzhou DTS6600
HDTV PVR لجميع أفراد الأسرة

50-years celebration!

Majalah Satelit Terbesar di Dunia

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Laporan Perusahaan
Antena Piringan Satelit untuk Lautan Terbuka
SeaTel Antena
Berkualitas Tinggi buatan USA

Laporan Perusahaan
Seseorang dengan Visi
Dunia Multimedia
di NanoXX

Laporan Penerimaan
TV USA di Eropa
Menerima Sinyal Satelit
di Tenerife dari Amerika

Bahasa Indonesia

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Най-голямото сателитно списание в света

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Сателитни антени за открито море
Висококачествени антени от SeaTel
Направено в САЩ

Отчет за приемането
Американска телевизия
в Европа
Приемане на сателитни сигнали
в Америка на остров Тенериф

Новини от компаниите
Един мъж с визия
Светът на мултимедията
от NanoXX

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Satelitní paraboly
pro otevřené moře
Kvalitní antény od SeaTelu Made in USA

Satelitní příjem
US TV v Evropě
Přijem satelitních signálů
Ameriky v Tenerife

Firemní reportáž
Vizionář
Svět multimédií
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DEU Die größte Satellitenzeitschrift - weltweit! # 208

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Die Multimedia Welt
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Wie ein Satellitenfreak
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Deutsches

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Satellite Dishes for the Open Sea
SeaTel's High Quality Antennas
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ESP La revista de satélite más grande del mundo # 208

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Platos de Satélite para el Mar Abierto
Sea Tel, Antenas de Alta Calidad
Hechas en EE.UU.

Informe de Compañía
Un Hombre
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El Mundo Multimedia
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Informe de Recepción
La TV Americana en Europa
Recepción en Tenerife de Señales
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Nyílt tengeri műhold tányérantennák
A SeaTel vállalat magas minőségű antennái
USA gyártmány

Vállalati beszámoló
Egy vízióval bíró ember
A multimédia világa
a NanoXX-nál

Vétel beszámoló
USA tévé Európában
Amerikai műholdjelek
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Jiuzhou DTS6600
HDTV PVR az egész családnak

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NanoXX的多媒体世界

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欧洲的美国电视
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中文

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国人的

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在线阅读《国际卫星电视》
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NED Het grootste Satelliet Tijdschrift van de Wereld # 208

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& BREEDBAND

Bedrijfsrapport
Satellietshotels voor op open zee
SeaTel's hoge kwaliteit antennes,
gemaakt in de VS

Bedrijfsrapport
Een man met een visie
De wereld van de multimedia
bij NanoXX

Ontvangst-rapport
TV uit de VS in Europa
Ontvangst van Amerikaanse
satelliet signalen in Tenerife

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Een Duitse beginner wordt groot

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Jiuzhou DTS6600
HDTV PVR voor de hele familie

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50-years celebration!

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Czasze satelitarne na otwarte morze
Wysokiej jakości anteny SeaTel - made in USA

Przegląd firm
Człowiek z wizją
Świat multimediów w NanoXX

Raport odbiorczy
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Odbiór amerykańskich
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50-years celebration!

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Antenas de Alta Qualidade da SeaTel's
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Reportagem Empresarial
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O Mundo da Multimídia na NanoXX

Relatório de Recepção
A TV dos Estados Unidos na Europa
Recebendo Sinais por Satélite da América em Tenerife

Português

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Обзор компаний
Спутниковые антенны для морских пролетов
Высококачественные антенны от «SeaTel». Сделано в США

Отчёты о приёме
Американское ТВ в Европе
Приём сигналов из Америки со спутника на испанском острове Тенерифе

Обзор компаний
Дальновидный прогноз
Мир Мультимедиа от «NanoXX»

Русский

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Jiuzhou DTS6600
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Satellitantenner för det öppna havet
SeaTels högkvalitativa antenner tillverkade i USA

Företagsrapport
En man med en vision
Den multimediala världen hos NanoXX

Mottagningsrapport
Amerikansk TV i Europa
Mottagning av amerikanska satellitsignaler på Teneriffa

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& GENİŞBANT

12-01 2009

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Açık Deniz Uydu Antenleri
Son Teknoloji SeaTel
Made in USA Antenler

Sinyal Raporu
Avrupa'da ABD Televizyonu
Tenerife de Amerikan Uydu Yayınları

Şirket Raporu
Vizyon Sahibi Bir Adam
NanoXX'da Multimedya Dünyası

Türkçe

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Jiuzhou DTS6600
Aile Boyu HDTV PVR uydu alıcısı

MPEG 2

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Technomate

The New!

TM-5000 Super Series

with USB PVR for Recording



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

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

USB Features:

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

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

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

TM-5200 D USB
super

Free-To-Air Satellite Receiver

TM-5300 D+ USB
super

with Built-in Smart Card Reader

TM-5400 CI+ USB
super

with Card Reader + Common Interface

TM-5600 CI USB
super

with Common Interface

High-Definition

Satellite & Terrestrial Receiver

TM-6900 HD COMBO Super



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

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

GETTING ON WELL

OPENSAT 



XT9500HD - High Definition Digital Satellite Receiver

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

ABC  BIZNIS

ABC BIZNIS Krušovská 4646, 955 01 Topoľčany, Slovakia
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Uydu yayınlarını izlemede serbestlik söz konusu olduğunda Çin bilinmezliklerle dolu bir ülke. Ama bu sene orada da işler değişmeye başlıyor. Yeni Çin DTH platformunun devreye girmesiyle birlikte, orada da artık uydu izleme devri başlayacak ve büyük bir teknoloji pazarı ortaya çıkacak. Fakat, Çin uydu yayınlarında yeni bir dijital standardı, ABS-S standardını kullanacak. Bu sayıdaki özel makalemizde bu yeni tekniğe ilişkin teknik ayrıntıları okuyacaksınız.

Görünüşe göre yeni dijital yayın standartları hala çıkmaya devam ediyor. TELE-satellite'de yeni dijital TV standardı olarak MPEG-2'nin geliş üzerine yaptığımız tartışmaları hala bütün sıcaklığıyla hatırlıyorum. Hepimiz, gelecekte yalnızca tek bir uydu alıcısı türü olacağını; bundan sonra uydu alıcılarının dijital ve dijital olmayanlar olarak ikiye ayrılacağını düşünüyorduk. Ama yanlışız! Dijital teknolojinin sahip olduğu çeşitliliğe baktığımızda analog çağında hayal edebileceğimizin çok ötesine geçtiğini görüyorum.

Üstelik farklı teknoloji standartlarının tek bir üründe aynı anda birleştirilebildiğini de biliyoruz. Örneğin son model HDTV uydu alıcılarımız DVB-S2 yayınlarla birlikte aynı zamanda DVB-S yayınları da alabiliyor. Bu nedenle yeni ABS-S standardının DVB-S/S2 alıcılara da entegre edileceğinden kuşku duymak için hiçbir neden yok. Daha bugünden uydu alıcılarının üzerinde daha çok logo ve daha çok ticari marka görmeye hazırlanmalısınız diye düşünüyorum.

ABS-S standardının en büyük avantajı son derece yeni bir teknoloji olması, bu

nedenle DVB-S'den çok daha verimli olabilir. Sabırlı olmanın ve beklemenin ödülü bu olsa gerek. Teknoloji sürekli ilerliyor ve yeni bir standart genellikle ileri doğru atılmış bir adım anlamına geliyor. Her halükarda bekleyip ABS-S yayınların nasıl bir gelişme göstereceğine ve Çin dışında nasıl yayılacağına bakmak ilginç olacak gibi görünüyor. Bu bir ölçüde ABS-S standardının lisans politikasına bağlı olacak, Çinli üreticiler bu sayede maliyetleri daha da azaltıp hemen önlerindeki devasa Çin pazarına daha etkili girme şansı yakalayacaklar. ABS-S standardı gereksindiği daha düşük bant genişliğiyle maliyetleri azaltarak DVB-S2 için gerçek bir rakip olabilir.

Çin dijital yayın platformunun başlamasıyla birlikte diğer uydu firmaları için de Çin pazarı cazip bir merkez haline gelecektir. Bunların çoğu zaten şu anda üretimlerini Çin'de yapıyorlar. Kesin olan bir şey varsa o da uydu sektörünün bu durumdan yeni bir ivme yakalayacağıdır. Ekonomik krizin hüküm sürdüğü günümüzde bu özellikle olumlu bir gelişme. Her zaman yapılacak bir şey var. Yapmanız gereken piyasaya doğru zamanda doğru ürünü sunmak sadece.

**Dostlukla,
Alexander Wiese**

P.S.: Bu ayki favori radyo istasyonum Peppermint FM. 19.2° Doğu Astra (12.633 H) uydusunda yayın yapmaya başlayan yeni bir Alman radyosu. Çok geniş bir yelpazede kesintisiz müzik yayını yapıyorlar. Haber yok ve sadece arada sırada radyonun kendi reklamını duyuyorsunuz: 'Keep it fresh and young.'

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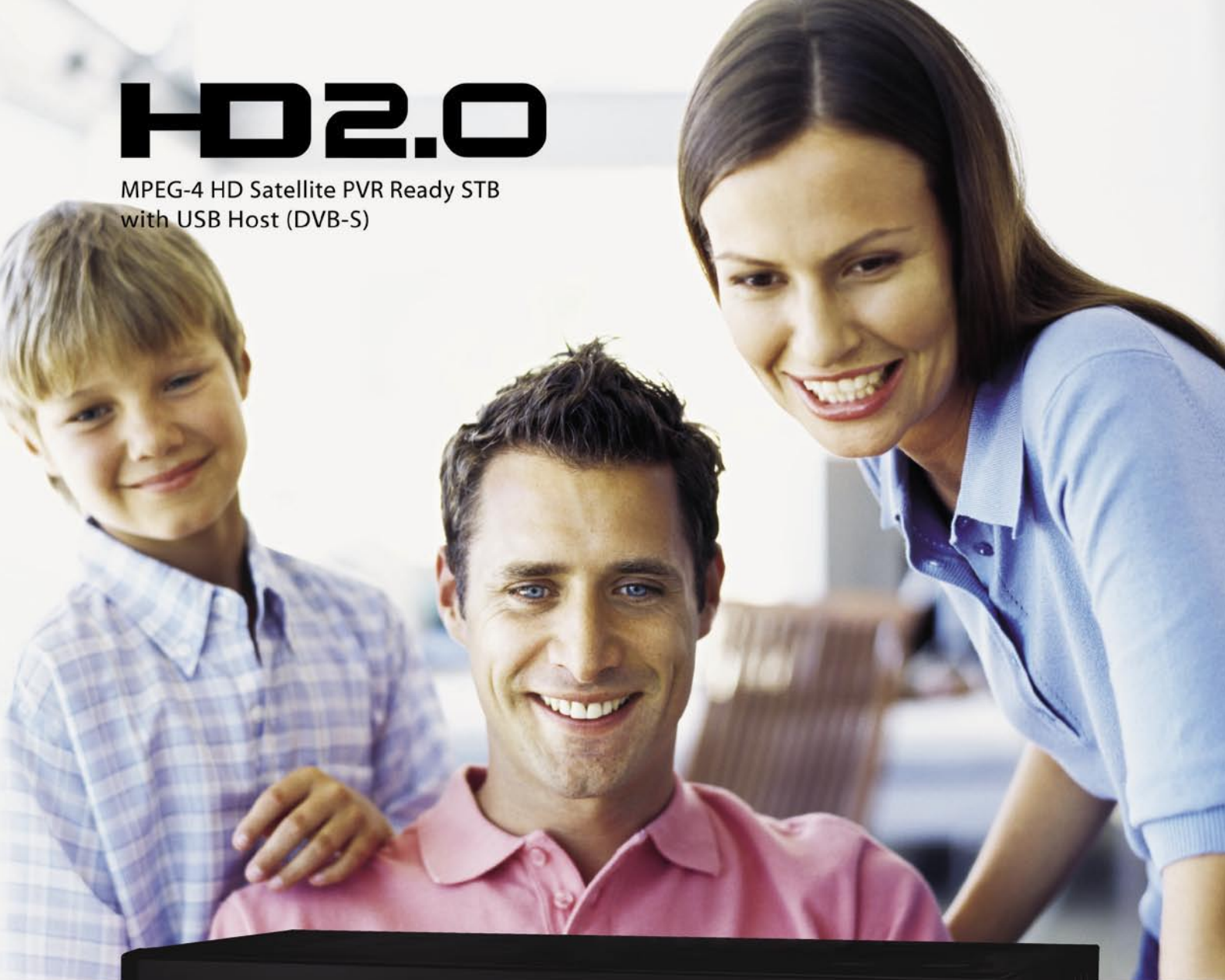
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HD2.0

MPEG-4 HD Satellite PVR Ready STB
with USB Host (DVB-S)



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

Dolby Digital Down-Mix Output Support (*Optional)

Conax CAS v7 Embedded Chipset Pairing

Cable HD Ready Support (for Cable STB only)

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

Software Upgrade via USB 2.0

YPbPr, CVBS, HDMI, SCART Video Output Support

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

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

Easy and Fast Auto Programming, Intuitive User Interface

Multi Language Support(Customer Option)

HD2.0 Slim



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TOPFIELD **NEW** Topfield Media Solution



Features available at launch

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



PVR
Playing recorded programmes up to 64 times speed at maximum



GAME
Featuring a double-player game „Battle Tank“



UCC
Playing media contents of YouTube



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

Experience the future of digital receiver

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

Features will be available by firmware updates

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



TOPFIELD **NEW** 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



TOPFIELD **NEW** 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

Measuring Instruments

emitor MEGALOOK

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



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

- ALSO AVAILABLE:**
- Combolook
 - Digital Satlook NIT
 - Satlook Micro +
 - Satlook Mark IV

emitor 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 **NEW**



- 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 **NEW**

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

HUMAX F3 FOX CI



Digital Satellite Receiver with CI Slot

- Scrambled channel receivable with DVB CI.
- MPEG-II Digital & Fully DVB Compliant.
- Max. 4000 channels receivable.
- Channel list mode
- 4 Favorite channel groups
- DiSEqC version 1.0, 1.2 USALS compliant

NETWORK streaming client

EMANVISION EV-8000S



- Linux Operating System
- Ethernet Card 100 Mbit
- USB 1.1 Host Controller
- IBM Power PC ("STB04500/Pallas")
- Recording 2 channels simultaneously while playback another from HDD and many more features

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

Satlook NIT Color **NEW**



- 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)

Türkçe konuşan personele sahibiz !

Мы говорим и даём консультации на русском языке!



HDTV Receiver Selection

HUMAX

iCORD



Twin HDTV PVR Receiver

- Recording 4 channels
- Time shifted recording for 2 hours
- Integrated 250 or 500 GB HDD
- 1080i, 720p, 576p, 576i video resolution
- AV File transfer by USB 2.0 port
- 2 Common Interfaces
- HDMI output

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

Motors

Aktuatoren/ Actuators

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



H-H Mounts

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

LNBs

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



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

MAXIMUM

V-Series



AVAILABLE AS:

- V-1 Single
- V-11 Single + DiSEqC
- V-2 Twin
- V-40 Quattro
- V-4 Quad
- V-8 Octo
- V-21 Single Monoblock
- V-22 Twin Monoblock
- V-24 Quad Monoblock

Full LNB range MAXIMUM available from stock

Multiswitches / DiSEqC - Switches

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

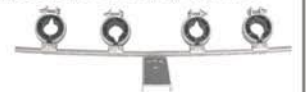


From 2 in/1 out up to 17 in/36 out

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Parts

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



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

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- Cross polarization improved
- Ideal for High Definition (HD) reception

MAXIMUM Flat-1



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MAXIMUM

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- Turnable mounting bracket for optimized reception
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- Balcony stand "Holland"
- Balcony holder L-form 25 cm
- Balcony holder L-form 50 cm

Maintenance for your satellite installations

Heinz Koppitz

New receivers are always impressive with their promises of user-friendliness, ample editing options or blind scan. HDMI and more aspect settings may improve video output while a USB interface speeds up software updates and may even allow storing video streams on external media. Still, a perfectly running system does not require a new set-top box every other year. After all, most satellites are increasing their transmission power with every new generation of orbital birds and this means that even a slightly outdated system will work perfectly in most conditions. What is much more important is regular maintenance and exchanging faulty components so that viewing pleasure is guaranteed even in bad weather.



Exchanging the LNB

Many reception systems were set up back in the analog age, some even at a time when only the lower band of the Ku band was being used. Do you already have a universal LNB? If not, you should rush to the store and get one right away – you'll be surprised how many additional transponders you'll be able to receive all of a sudden.

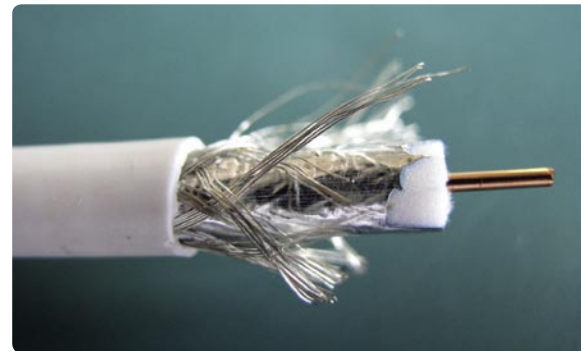
LNBs are subjected to the elements and their performance suffers if moisture cannot be kept outside. But even if your old LNB is still fine it's well worth getting a modern universal LNB with a low noise figure (0.3 dB), which will improve the threshold of your system in any case.



Single screening cable ■

Exchanging the coax cables

Old cables can be cracked, squeezed or otherwise damaged, which in most cases leads to problems that are hard to identify. There was a time when most coax cables came with only single screening, which is not enough to effectively block out interference from other signal sources. If that is the case we recommend replacing all cables and making sure new cables provide double screening – which comes as standard these days.



Double screening cable ■

Aligning the satellite antenna

Due to wind and corrosion your antenna may not be in perfect position after a few years. This is why you should look at the exact antenna alignment once a year. When doing this, the reception bar provided by the receiver when searching for signals or – depending on the receiver model – also in the info bar can be helpful for this job, even though this is of little use when the dish is on the rooftop and the receiver down in the living room. You might want to use a small satellite finder instead, which is attached to the antenna cable right at the LNB output and indicates the signal strength.

SatFinder ■





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ABS-S: a competition for DVB-S/S2?

Jacek Pawlowski

When we were reading a press release about the launch of ZhongXing-9 (ChinaSat-9), it looked like something quite routine. It was nothing out of ordinary that China had another DTH satellite in service. It was the coding and modulation this satellite was supposed to use that surprised us. It was neither DVB-S nor DVB-S2. It was something brand new: ABS-S (Advanced Broadcast System-Satellite).

We all know that the standardization is a very useful practice. However, it happens really rarely that one thing is accepted all over the world. For example analog TV had always a few standards in different regions of the world (PAL, NTCS, SECAM, D2-MAC). Digital TV is no exception. Of course, our readers are very familiar with DVB-S and DVB-S2 standards but these are not the only ones in use. There is also the DSS (DirectTV) in

North and South Americas and ISDB-S in Japan. They are similar to DVB but not identical. A receiver capable of receiving one standard is useless for the other. And now, China decided to establish the forth standard: ABS-S.

Why create yet another standard? One obvious reason is evading the expensive license fees. For example, every receiver manufacturer has to pay a royalty to MPEG organization for every unit sold. Taking into account the population of China, the amount of money involved is huge. We are speaking of 400 million households! China administration started a program called "Every Village" aimed at making digital satellite TV available to a large percentage of country population. This means that a receivers must be really cheap.

It all started back in June 2002 when the Chinese AVS standard has been published. AVS stands for Audio Video coding Standard. AVS compared to MPEG has some advantages. It has twice or three times the coding efficiency of the traditional MPEG-2 - so it is closer to H.264 (popularly called MPEG-4). However, the complexity of algorithms is lower than that of H.264. Thanks to that AVS requires less memory and occupies lower bandwidth. While H.264 is the video encoding standard only, the AVS deals with video, audio and media right management altogether. So it is a complete industry system for coding the source data.

ABS-S goes one step further. Similarly to DVB-S2 which is based on H.264 and MPEG-2, the ABS-S is based on AVS standard. ABS-S has bandwidth efficiency similar to that of DVB-S2 (ca. 30% more data can be sent compared with DVB-S in the same transmission channel). DVB-S2 efficiency is already close to the theoretical limit (Shannon limit) and apparently so is ABS-S. At the same time ABS-S is regarded as simpler from the technical point of view. This gives a better chance that a higher number of IC manufacturers can master this technology in relatively short time. DVB-S2 and H.264 are rather complex and not too many IC manufacturers offer compatible chips.

For example, ABS-S does not use BCH code, it can seamlessly combine fixed-rate modulation (CCM), variable bit-rate modulation (VCM) and adaptive coding modulation (ACM). It uses forward error coding where it is difficult to implement LDPC (low density parity check) and depending on application one can use different rate in 4 modulation modes: QPSK, 8PSK, 16APSK, 32APSK. There are more differences between ABS-S and DVB-S2 but they are all understandable only for the high-tech professionals.

At the moment, we do not have a credible independent assessment of the new standard. Will it be really almost as good as DVB-S2 while being cheaper and simpler to use and as Chinese sources claim? When we have such opportunity, we will perform such a test for you.

It can be interesting to watch what the world IC maker will do. Will they ignore the new standard and let the Chinese manufacturers monopolize the China market, or they will fight to offer their own implementation of ABS-S/AVS compatible chips? Will it be possible to create a universal chip suitable for both standards: DVB-S2 and ABS-S?



The launch of ZhongXing-9 (ChinaSat-9)
Photo: Xinhua



ZX 9 (Chinasat 9)
Photo: Thales Alenia Space



Dizipia DS4H-9160

Daha Büyük Daha İyi

Adı çok güzel olmayabilir ama, Koreli Dizipia'nın son ürünü DS4H-9160 boyutları ve görünümüyle son derece etkileyici bir uydu alıcısı. Zarif siyah metal kabin 43cm genişliği, 28cm derinliği ve 6cm yüksekliğiyle rakiplerinden daha büyük ve daha ağır. Parlak ön panelde görünümü güzel, okunması kolay bir kanal bilgi göstergesi yer alıyor.

Uzaktan kumanda da alıcının kendisi gibi büyük: 24x5cm. Kumandayı programlayarak televizyonunuzu da kumanda edebilirsiniz. Ben kendi televizyonumun kodunu kullanıcı kitapçığının arkasında bulup girdim ve bu işi kolayca başardım. Bunun için internette arama uzun aramalar yapmam ve değişik kodlar girmem gerekmedi. Uzaktan kumandanın düğmeleri hafif, basar basmaz tepki veriyor; etiketler okunaklı ve mantıklı

bir şekilde yerleştirilmiş. Siz kumandaya basar basmaz STB ve TV'nin ışıkları yanıyor ve verdiğiniz komutu yerine getiriyor.

Ön panelin göze çarpan bir özelliği de küçük kırmızı ışıklardan oluşmuş bir kare. İlk bakışta sadece ışık gibi görünse de bunlar aslında küçük düğmeler ve bunları kullanarak cihazın bütün fonksiyonlarını kontrol edebilirsiniz. Ön panelde son olarak sağ taraf-

taki itmeli kapakçığın altına gizlenmiş iki modül yuvası ve bir USB bağlantısı bulunuyor.

Arka panelde ihtiyaç duyabileceğimizden fazlasını bulmak bizi memnun etti. Her iki tuner için anten girişleri ve bunların aktarma çıkışları ilk gözümüze çarpan bağlantılar oldu. Tabii ki yalnızca bir uydu sinyalinin olduğu koşullarda, birinci tunerin aktarmasını ikinci tuner girişine bağlayabilirsiniz. Bunun için küçük bir

aktarma kablosu da cihazın kutusundan çıkıyor. HDMI ve S/PDIF bağlantılarıyla dijital görüntü ve ses çıkışları verirken geleneksel Scart bağlantısı da unutulmamış, görüntü ve stereo ses için RCA jackları da arka panelde yer alıyor. İkinci bir USB bağlantısı da arka panelde ve bugünlerde artık pek kullanılmayan RS-232 arabirimi de yine arka panele yerleştirilmiş.

Kurulum

Uydu alıcısının bağlantıları, kullanıcı kitapçığındaki açık diyagramlarla son derece kolay bir şekilde yapılabiliyor. Her bağlantı ayrı ayrı resimlenmiş ve seçenekleri özel olarak açıklanmış. Aktarma kablosu ile yalnızca tek bir sinyali iki tunere veriyorsanız, kayıt esnasında sadece aynı transpondör üzerindeki kanalları izleyebilirsiniz. İki LNB girişine iki ayrı uydu da bağlayabilirsiniz. Bu seçenekte de kayıt yaparken izleyebileceğiniz kanal sayısında bazı sınırlamalarla karşılaşacaksınız.

Cihazı ilk açtığımızda hemen



kurulum sihirbazı açılarak saati, saat dilimini, ve tercih ettiğimiz ekran üstü dilini sordu. Dil seçenekleri şu anda sınırlı (ekran üstü menüler için sadece İngilizce, Almanca ve Rusça mevcut. Tuhaf ama, ses ve alt yazı dil seçenekleri daha farklı. Burada seçenekler İngilizce, Almanca ve Fransızca'dan ibaret.

Daha sonra sıra, izleyeceğimiz uyduları seçip kanal taraması yapmaya geliyor. Motorlu DiSEqC anten ve USALS protokolü de cihaz tarafından destekleniyor. Bulduğunuz enlem ve boylamı cihaza

girdikten sonra izleyebileceğiniz uyduların konumlarını hesaplayıp size gereken ayarları ekranda gösteriyor. Cihaza yüklenen uydu sayısı etkileyici –hafızaya tam 170 uydu yüklenmiş! İddia ediyorum bu listede bulamayacağınız tek bir uydu bile yoktur. Ama yine de listeyi kolayca düzenleyebilirsiniz. İleride fırlatılacak uyduları ekleyebilir, düzenleyebilir ya da istemediğiniz olursa silebilirsiniz. **Listedeki**

uyduların transpondör verileri de güncel.

Kanal taraması da hızlı, ASTRA 2 uydusu üzerinde yaptığımız tarama sadece sekiz dakika içinde tamamlandı. Kanallar hafızaya alındıktan sonra, kanal listesini düzenlemek ve üzerinde sıralama yapmak için bir çok fonksiyon var.

Televizyon izlerken kumanda üzerinde

“OK” düğmesine bastığınızda kanal listesi ekrana geliyor. Listeyi istediğiniz gibi harfe göre veya şifreli/şifresiz olarak sıralayabilir ya da olduğu gibi kanal numarası sıralamasında bırakabilirsiniz. Zoom özelliğiyle isterseniz kanal listesini tüm ekranı kaplayacak kadar büyütebilir veya sadece solda küçük bir pencere olarak tutar ve aynı anda yayını da izlemeye devam edebilirsiniz.

Tüm organizasyon ve düzenleme işlemlerini herhangi bir menüye



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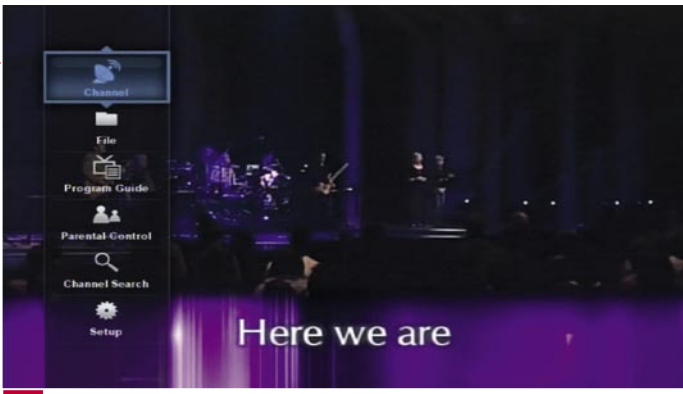
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DIZİP A

DS4H-9160

HIGH DEFINITION DIGITAL SATELLITE RECORDER
TWIN HDMI TUNER DOLBY DIGITAL USB 2.0



Ana Menü



Kanal Bilgisi

gitmek zorunda kalmadan buradan yürütebiliyorsunuz. Kanallar liste içinde yukarı veya aşağı taşınabiliyor. İstedığınız kadar favori listesi oluşturup istediğiniz kanalları türlerine göre bu favori gruplarında toplayabilir ve daha sonra istediğiniz zaman kolayca ulaşabilirsiniz. Çocuklu aileler için iki farklı ebeveyn kilidi seçeneği mevcut: bunlardan birincisi geleneksel şifre yöntemi, diğeri ise bir şifre girilmedikçe belirli kanalları listeden tamamen kaldırıp görünmez yapan gizleme yöntemi. Bunun dışında isterseniz izlenebilecek kanalları sadece belirli bir favori listesiyle de sınırlandırabilir ya da cihazın kapanma saatini önceden programlayabilirsiniz. Böylece çocuklarınızın bütün gün TV karşısında izlemesinin de önüne geçmiş olursunuz. Son olarak bir diğer seçenek de, yayınları izleme yaşına gire sınırlandırmak. Yalnız şunu da unutmamak gerekir ki, bunun için yayıncının yaş kısıtlaması bilgisini doğru olarak vermesi gerekli.

Sabit disk fonksiyonları

HD yayınlar yoğun bilgi gerektirdiği ve yüksek veri

hızlarına ihtiyaç duyulduğu için geleneksel IDE yerine SATA arabirimi kullanılmış. Testlerimizde kullandığımız model maalesef sabit disk olmadığı için biz ancak USB portu üzerinden bağladığımız harici sabit diskle bu özelliği test edebildik.

Bu yöntemden pek hoşlanmadığımızı itiraf etmem gerekir; ama bağladığımız harici USB sabit disk bile kusursuz çalışarak yüzümü kızarttı. HD

kanalların kayıtlarında bile herhangi bir sorunla karşılaşmadım. Ancak görüntünün birkaç defa titrediği oldu, ama bu da zaten beklenecek bir şey. Üstelik %100 mükemmel olmasa da bir HD kanalı izlerken diğerini kaydetmek gibi zor bir işin üstesinden bile kolayca geldi. Harici sabit diskler FAT32 dosya sistemini kullandıkları için bilgisayara yedek almak kolay ve rahat bir işlem. Bilgisayar kullanmaya alışkın herkes uydu alıcısının kendi dosya yöneticisini rahatlıkla kullanabilir. Dosya yapısı bir bilgisayarınkiyle neredeyse tıp tıp aynı. Hatta bir önceki klasöre dönmenizi sağlayan ".." bile burada değişmemiş.

Otomatik silme özelliğiyle disk üzerinde yer kalmadığında eski kayıtların otomatik olarak silinmesini sağlayabilirsiniz. Bu tür bir sistemde fakat, korumak istediğiniz bir dosyayı silmeniz her zaman mümkün. Neyse ki bunun için, belirli kayıtları işaret koyarak korumanızı ve kazayla silinmelerini önlemeye yarayan bir koruma özelliği var. Ebeveyn kilidini kayıtlar için de kullanabilir ve şifreyle koruma altına alabilirsiniz.

Zaman kaydırma özelliği ile canlı yayınları dondurmak da mümkün. Tek bir düğmeye basarak yayını durdurduğunuzda ileri ve geri sarma gibi özellikleri canlı yayında da kullanabiliyorsunuz. Güzel bir özellik de kaydın tıpkı bir DVD üzerinde olduğu gibi bölümlere ayrılması. Böylece dondurduğunuz bir program içinde gezinmek, tüm kayıt içinde baştan sona dolaşmaktan çok daha kolaylaşıyor. Cihazın hafızasında geçici olarak kaydedilen program süresi 30 dakika ile sınırlanmıştır; ama bunu iki saate kadar çıkarabilirsiniz.

Hiçbir düzenleme fonksiyonunun olmaması bizim için bir hayal kırıklığıydı. Kayıtlardan reklamları çıkarmak için bazı düzenleme fonksiyonlarının olması her zaman çok işe yarar. Bu cihazda böyle bir şey bulunmaması bizi gerçekten üzdü. Bunun dışında bir spor tutkunu olarak çok sık kullandığım yavaşlatma özelliğinin olmaması da başka bir eksiklik.

Günlük kullanım

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veya cihaz menüsü içinde gezinmek nispeten kolay sayılır; ama bu açıdan daha iyi ve daha kullanışlı uydu alıcıları gördüğümüzü de belirtmemiz gerekir. Örneğin, cihazı bayağı uzun süre kullandığım halde menülerde bir önceki seviyeye geri dönmenizi sağlamaya yaramayan bir "back" düğmesi olmasına alışamadım. "menü" düğmesi de bu işi yapmıyor. Bunun için "exit" düğmesini kullanmanız gerekiyor. Bazen bu seçenekle bir önceki menüye dönüyorsunuz; ama bazen de isminin gerektirdiği gibi sizi bütün menüden çıkarıyor.

HD alıcılarda görüntü kalitesi önemli bir sorun ve Dizi-pia'nın görüntü kalitesi bu konuda beklentileri aşıyor. Standart yayınlar da yukarı ölçeklenerek HD çözünürlüğüne getiriliyor ve böylece geleneksel RGB Scart bağlantısına göre görüntüye ekstra bir kalite katıyor.

Çözünürlükler arasında istediğiniz gibi geçiş yapabilmemiz için uzaktan kumanda üzerinde özel bir düğme var. Buna bilgisayarlarda karşılaştığımız bir uyarı eklenmiş. Çözünürlüğü değiştirdiğinizde bir kutu beliriyor ve sizden yeni çözünürlüğü onaylamanızı istiyor. Burada varsayılan seçenek "hayır", yani kazayla yanlış bir iş yaparsanız, Ok düğmesine basarak bir önceki

görüntü seçeneğine dönebiliyorsunuz. Progresif ve interlace seçenekleri 480'den 1080 satıra kadar tüm seçenekler için mevcut.

Günümüzde artık geniş ekran formatında yayınlar çok yaygın ve tüm seçeneklerin cihaz tarafından desteklendiğini görmek sevindirici. 4:3 ekranda geniş ekran izleyebilmek için, letterbox ve pan/scan seçenekleri var. 16:9 ekranda 4:3 yayınlar ise yanlarda siyah şeritler olmak kaydıyla dokunulmadan bırakılabilir veya görüntü tüm ekranı kaplayacak şekilde büyütülebilir. Uzaktan kumanda üzerinde 16:9 ve 4:3 ekran formatları arasında geçiş yapmak için özel bir düğme bile mevcut.

EPG'yi çalıştırmak biraz güç oldu. Bunun en önemli nedeni, çalışmak için harici bir sabit diske ihtiyaç duymasıydı sanırım. Eğer bu özelliğin seri üretim sırasında çalışır vaziyette olacağını düşünürsek gerekli tüm özelliklere sahip olduğunu belirtebiliriz. Yayınlanacak programları rezerve ederek kayıt için işaretleyebilir veya doğrudan seçerek izlemeye başlayabiliyorsunuz. Kanal listesinde olduğu gibi mavi düğmeye basarak EPG ekranının bütün ekranı kaplamasını ya da sadece bir pencere içinde kalmasını sağlayabiliyorsunuz. Kayıt için



TV ayar menüsü |



EPG |

seçilen programlar üzerinde ebeveyn kontrolleri geçerli olabilir. Geleneksel saate göre kayıt seçeneği de işaretlenebilir.

Kanal sörfü hızlı ve geniş ekran sayesinde sorunsuz yapıyor. İstedikiniz şekilde düzenledikten veya favori listelerinde kanalları türlerine göre gruplandırdıktan sonra keyifle sorunsuz şekilde izleyebilirsiniz. "back" düğmesi de en sonunda burada işe yarıyor ve bastığınızda sizi son izlediğiniz kanala götürüyor. Dahili teletext dekoderi var ve uzaktan kumanda üzerinde alt yazı ve dil seçeneklerini yapabileceğiniz özel düğmeler de bulunuyor.

Şifreli TV izleyicileri için yeni bir özellik de gözümüze çarptı. Şifreli bir yayını kaydettiyseniz, daha sonra izlemek için de geçerli bir kartınız olması gerekir. Ama burada özel bir "şifre çözme" fonksiyonu var. Şifreli bir yayından yaptığınız kaydı daha sonra şifre kartına ihtiyaç duymadan seyredebiliyorsunuz. Cihaz kayıt üzerindeki şifreyi kendisi ortadan kaldırıyor. Tabii ki bunun için kayıt esnasında geçerli bir kartınız olması yine de gerekli.

İki USB bağlantısı olduğu için aynı anda bir sabit disk bağlamak ve diğer cihazlara ulaşmak mümkün. MP3 dosyalarınızı uydu alıcınıza yükleyebilirsiniz.



yerek buradan dinleyebilir ve fotoğraflarınızı HD kalitesinde büyük ekranda izleyebilirsiniz.

Genel İzlenim

Elimizde güçlü, bir çok bağlantı seçeneğiyle dikkat çeken becerikli bir uydu alıcısı var. Ancak bir süre kullandıktan sonra, sanki içinde gizli hız limiti olan bir yarış arabası kullandığınız hissine kapılıyorsunuz. Cihazın yazılımı cihazın tüm potansiyelini kullanmayı

başaramıyor kanımca. Menüler arasında gezinmek bazen yorucu olabiliyor. Piyasadaki bazı diğer PVR alıcılarda karşılaştığımız konforu burada bulamayabiliyoruz.

Artı olarak ise, iyi görüntü kalitesi, netlik ve keskinlik ayarlarının özel düğmelerle kolayca yapılabilmesi ve CI modülleri sayılabilir. Günlük bir PVR alıcı olarak görevini layıkıyla yerine getireceğinden hiç kuşumuz yok.

Uzman Görüşü

+

Geniş anten ve bağlantı seçeneği, çift tuner, kayıtlarda şifre çözme, geniş ekran ve HD çözünürlüklerde tam destek.

Yazılımın Ethernet bağlantısıyla İnternet üzerinden güncellenebilmesi.

2 kanal kaydı ile aynı anda bir kaydı izlenebilmesi

32 bit gerçek renkli OSD

Kullanıcı dostu menü

Linux İşletim Sistemi

1080p görüntü çözünürlüğü desteği.

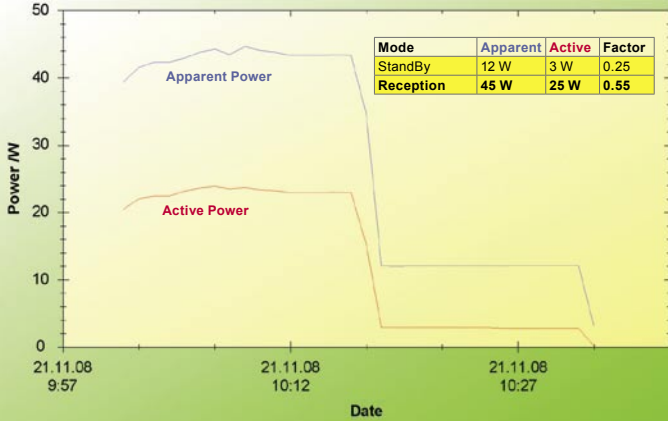


Andy Middleton
TELE-satellite
Test Center
UK

-

Menü sistemi en kolay sistemlerden biri sayılmaz
Kayıtlar üzerinde düzenleme yapılamaması.

ENERGY DIAGRAM



Kayıtlı dosya listesi |



Kaydedilmiş dosyanın izlenmesi |

TECHNIC DATA

Manufacturer	Dizipia, Inc., 2nd Floor, Shinhan Bldg., 147-9 Garak-dong, Songpa-Gu, Seoul 138160, Korea
Tel	+82 (0)2 21 52 32 00
Fax	+82 (0)2 407 34 05
www	www.dizipia.com
email	info@dizipia.com
Model	DS4H-9160
Type	HDTV-Receiver with Scaler
Satellites	170+
SCPC compatible	Yes
USALS	Yes
DiSEqC	1.0/1.2/1.3
Scart connectors	2
Symbol rates	DVB-S: 1000-45000
DVB-S2	20000-30000 (QPSK)
DVB-S2	10000-30000 (8PSK)
Audio outputs	2 (left & right)
Video outputs	Composite, Component, HDMI
UHF output	No
0/12 volt output	No
Digital audio output	S/PDIF
EPG	Yes
C/Ku-band compatible	Yes
Power supply	100-250V AC, 50/60Hz



Topfield TF6000PVR ES

İç ve Dış güzellik Bir Arada



Yüksek tanımlı TV teknolojisi (HD) zirveye ulaşmış olsa da www.SatcoDX.com listelerine baktığımızda tatsız gerçek yüzümüze çarpıyor: örneğin 13° doğu HOTBIRD uydusunda 1355 SDTV PAL kanalına karşın sadece 29 HDTV kanalı bulunuyor. Tabii ki bu durumun bir çok nedeni var. Bunların çoğu sizin de tahmin edebileceğiniz gibi finansal nedenler. Yeni bant için para gerekli ve SDTV yayın yapan yayıncılar, HDTV'yi sadece ilave bir özellik olarak sunuyor. Son kullanıcı için bunun anlamı şu ki, yüksek teknolojili düz panel bir televizyonda bile SD yayın izlemeye devam edecek. Doğal olarak, ekran büyüdükçe görüntü kalitesi de o kadar düşecek.



SD yayınları düz ekranlarda izlemenin ortaya koyduğu bu problem, Güney Koreli Topfield'i harekete geçirmiş ve bunu çözmek için yeni modelleri TF6000PVRE ES'de son derece akılcı bir çözüm bulmuşlar. Bu yeni model TF6000PVRE ile arasında sadece bir fark var: yukarı ölçekleyici (upscaler).

Yukarı ölçekleyici gelen normal sinyalin çözünürlüğünü eklenti yoluyla artırarak, eksik pikselleri tamamlıyor ve böylece yüksek çözünürlüklü yayınların büyük ekranlarda izlenmesinde kaçınılmaz olan buzlanmaları ortadan kaldırıyor. Kulağa hoş gelen bu özelliğin pratikte nasıl çalıştığını görmek için, cihazı özel bir teste tabi tutmaya karar verdik.

Kutuyu açtığımızda TV600-OPVR ES'in beklediğimiz kadar



geniş olmadığını gördük. Bir önceki model TF6000PVRE normal raf boyutlarında 43 santim genişliğindeyken, TF6000PVR ES sadece 38 santim genişliğinde. Ama hemen söyleyelim bu küçülme, ona şıklığından bir şey kaybettirmemiş.

Ön panelin ortasında okunması son derece kolay alfanumerik VFD bir ekran yer alıyor; onun hemen yanında ise uzaktan kumanda kaybolduğunda cihazı kullanabilmeniz için üç kontrol düğmesi bulunuyor. Kanal değiştirme ve ses düğmeleri ise gümüş renkli bir çember şeklinde tasarlanmış. Bu çember ve parlak mavi Standby düğmeleri oldukça etkileyici görünüyor.

Sağ taraftaki itmeli bir kapakçığın altına şifreli yayınlar için iki modül yuvası gizlenmiş. İrdeto, Viaccess, Seca, Conax, Nagravision veya Cryptoworks modüllerini isterseniz tek tek veya ikisi bir arada kullanabiliyorsunuz. Bizim de Topfield'den beklediğimiz gibi TF6000PVR ES'in arka panelinde bağlantı seçenekleri açısından son derece zengin çıktı. İki tuner için iki uydu IF girişi ve iki aktarma dışında, bir HDMI çıkışı, iki Scart bağlantısı, Stereo ses ve görüntü çıkışı için üç RCA jak, S-Video, bir o kadar önemli optik dijital ses çıkışı, USB 2.0 ve Ethernet bağlantısı yer alıyor. Her

ne kadar günümüzde artık pek kullanılmasa da RS-232 arabirimi de arka panelde mevcut.

Cihazın uzaktan kumandası ele çok iyi oturuyor ve üzerindeki tüm düğmelere kolayca erişilebiliyor. Numara ve yazılar da okunaklı bir şekilde basılmış. Uydu alıcısında olduğu gibi uzaktan kumandanın da işçilik kalitesi oldukça iyi. Kullanıcı kitapçığı, Topfield'den bekleneceği gibi açık bir dille yazılmış, yeterli miktarda resimle donatılmış ve cihazla ilgili karşılaşılabileceğiniz her türlü problemin çözümünü kolayca bulabiliyorsunuz.

Günlük kullanım

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Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0903/sve/topfield.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0903/tur/topfield.pdf

Available online starting from 30 January 2009

kurulum ayarlarını yapmanızı bekliyor. Burada anten konfigürasyonu gibi özelliklere göre cihazı ayarlıyorsunuz. İlk kurulum asistanı yok, ama aslında böyle bir şeye gerek de yok; çünkü Topfield'in menüsü öylesine kolay ve anlaşılır bir şekilde hazırlanmış ki en acemi kullanıcılar bile rahatlıkla menü içinde yolunu bulabilirler.

Sistem ayarlarını yaparken ilk önce OSD (ekran üstü yazı) dilini seçiyorsunuz. TF6000PVR ES bu konuda çok zengin bir dil seçeneğine sahip: Almanca, İngilizce, Fransızca, İspanyolca, Arapça, Yunanca, Türkçe, Danca, İsveççe, Norveççe, Felemenkçe, Lehçe, Farsça, Fince, Çekçe ve Bulgarca dillerinden istediğinizi seçebilirsiniz.



TF6000PVR ES ana menüsü çok hoş bir tasarıma sahip



Dil seçildikten sonra, diğer menü ayarlarına geçiliyor.

TF6000PVR ES istendiği takdirde, saati otomatik olarak uydu üzerinden ayarlayabiliyor. Diğer uydu alıcılarının aksine Topfield saat konusunda farklı bir çok ayar seçeneği sunuyor. Örneğin, saat ayarı yalnızca şifreli kanallarla veya hatta belirli transpondörlerle sınırlandırılabilir. Maalesef, bu çok gerekli bir özellik çünkü ana DTH yayıncıları dışında kalanlar yayınlarında doğru saat bilgilerini kullanıyorlar ve bu nedenle uydu alıcısında karışıklığa yol açabiliyorlar. Sonuç olarak alıcının saat bilgileri yanlış oluyor. Yaz-kış saati uygulaması da istendiği takdirde tek bir düğmeyle etkinleştirilebilir. Tabii isterseniz, saati kendiniz de girebilirsiniz. TF6000PVR ES dahili bir saate göre çalıştığı için diğer uydu alıcılarının aksine elektrik kesintilerinde bile hafızaya aldığınız kayıt rezervasyonlarını zamanı gelince hatasız olarak başlatıyor.

Dahili yukarı ölçekleyicisi ile TF6000PVR ES günümüzde iyice yaygınlaşan düz ekran TV'lerle kullanılabilir. Cihazın dahili bir HDMI çıkışı var.

Bu çıkış üzerinden 576p, 720p veya 1080i çözünürlüğünde görüntü alınabiliyor. Daha da iyisi, kullanıcı, uzaktan kumanda üzerindeki özel bir düğmeye basarak, hiç menülerle uğraşmadan bu çözünürlüklerden istediğini seçebilir.

HDMI bağlantısına rağmen, Topfield'i televizyonunuza Scart ile bağlamak isterseniz RGB, CVBS, S-Video veya YUV seçenekleri arasından tercih yapabiliyorsunuz. Ekran formatı 4:3 ya da 16:9 olarak seçilebilir. 4:3 yayınları 16:9 ekranda izlemek için ilave görüntü modları da var. PAL ve NTSC desteği sayesinde Avrupa'da ABD televizyonu veya tam tersi gibi durumlarda bir sorun yaşamıyor. Yukarı ölçekleyici sayesinde görüntünün büyüklüğünü %20 büyütme veya küçültme de mümkün. Böylelikle kullandığınız televizyonun modeli ne olursa olsun, tam ona uygun bir görüntü elde edebilirsiniz.

Tüm ayarlar yapıldıktan sonra, alıcınızı çatıdaki anten sistemine göre konfigüre etmeniz gerekiyor. İki tunere iki farklı sinyal verilebileceği gibi tek bir sinyali de paylaşabilirsiniz. İkinci seçenekte,

bir tuner üzerinden yayın izleyip diğerinde kayıt yaptığımız koşullarda önemli kısıtlamalarla karşı karşıya kalacağınızı hemen belirtelim. İki ayrı uydu sinyali kullanıldığında bu kısıtlamalar karşınıza çıkmıyor.

Yeni Topfield, 156 Avrupa, Asya ve Amerika uydusunun listeleri hafızasına yüklenmiş olarak geliyor. Bu listede popüler uyduların verileri güncel olsa da diğer uyduların elden geçirilmesi gerekiyor.

Özellikle, pek çok farklı ayarın olması ve bunların her uydu için ayrı ayrı yapılabilmesi çok hoşumuza gitti. LNB için seçim yapabileceğiniz önceden programlanmış iş osilatör (LOF) değerleri mevcut; ama bunlar ihtiyacınıza cevap vermediğinde istediğiniz değerleri girebilirsiniz. Böylece standart olmayan değerleri de kullanmak mümkün hale geliyor. Mevcut tüm DiSEqC protokolleri destekleniyor ve bu sayede çok antenli sistemleri istediğiniz konfigürasyonda izleyebilirsiniz. DiSEqC 1.0 ile dört sabit anten, 1.1 ile çok LNB'li antenlerle maksimum 16 uydu ve son olarak 1.2 ve 1.3 (USALS) ile motorlu antenleri kullanmak mümkün.

Bu parametreler girildikten sonra, sıra alıcının 5000 kanallık hafızasını (3500 TV, 1500 radyo) doldurmaya geliyor. Bunun için kendiniz tarama yapabileceğiniz gibi cihazın hafızasında yüklü transpondör verilerinin yardımıyla otomatik tarama da yaptırabilirsiniz. Bunların dışında elle PID verilerini girmenize olanak tanıyan ayrıntılı arama modu da var. Tüm taramalarda olduğu gibi network taraması da isteğe göre, şifreli veya şifresiz kanalları taramak üzere ayarlanabiliyor.

Cihazın kanal tarama hızı da oldukça etkileyiciydi: 100 transpondörden fazlasını sadece dört dakika içinde taramayı başardı. Yalnız şunu da unutmayın TF6000PVR ES bir HDTV uydu alıcısı değil ve sadece DVB-S2 ve/veya MPEG4/H2.64 sinyallerini alabiliyor. Yaptığı standart SDTV sinyallerini alıp bunları LCD veya Plazma TV'lerde daha iyi bir görüntü kalitesiyle izleyebilmeniz için yukarı ölçeklemekten ibaret.

Büyük uydulardan biri üzerinde tarama yaptıktan sonra kanal listesinin merak bile etmeyeceğiniz yüzlerce kanalla dolacağına kuşku yok. Pek çok



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kanal şifreli olduğu için onları izlemeniz zaten mümkün olmayacaktır. Bu sebepten kanal listesini istediğiniz gibi düzenleyebilmek gerçekten önemli. Topfield sahip olduğu tecrübeyle yıllardan beri herkese bu işin en iyi nasıl yapılacağı konusunda örnek oluyor ve TF6000PVR ES'de de bu durum değişmiyor. Kanal listesindeki kanallar kolaylıkla silinebiliyor, isimleri değiştirilebiliyor, taşınabiliyor veya özel bir PIN koduyla kilitleyerek çocuklardan ya da başka meraklı gözlerden saklanabiliyor. Listeyi değişik kriterlere göre sıralayabilir, popüler kanalları daha sonra uzaktan kumandada bir tuşa basarak izleyebilmek için favori listelerinden birine ekleyebilirsiniz.

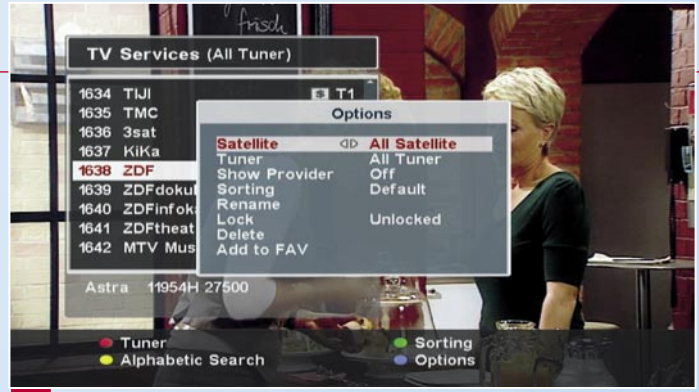
Tüm ayarlar yapıldıktan ve kanal taraması tamamlandıktan sonra, kullanıcı ana menü'den çıkıp, listedeki ilk kanaldan uydu televizyonunun tadını çıkarmaya başlayabilir. Bir kanalın ekrana ilk gelişine her zaman ekranın altındaki geçici küçük bilgi kutucuğu da eşlik ediyor. Bu kutuda izlediğiniz kanala ilişkin teknik parametre ve özellikler (DD-ses, altyazılar, teletext, şifreleme sistemi, vs) yer alıyor. Ayrıca, yayıncı bu bilgiyi sağladığı koşulda izlediğiniz programa ilişkin bilgileri de bu kutuda görebilirsiniz. Kanal geçişlerinde bu kutucuk size her zaman eşlik ediyor ve o kanala ilişkin öğrenmek isteyebileceğiniz tüm bilgileri bu

kutudan görebiliyorsunuz.

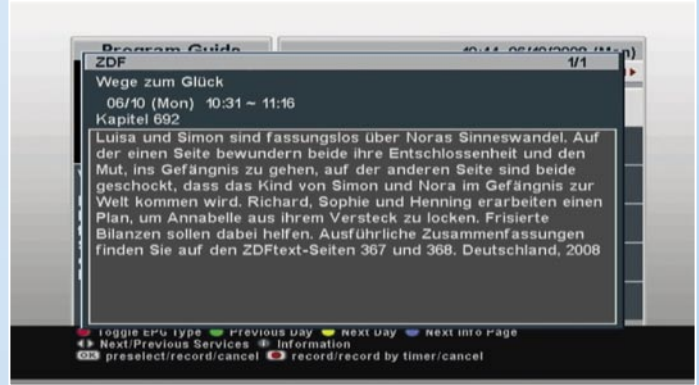
Info düğmesine basarak izlediğiniz programa ilişkin daha ayrıntılı bilgiye ulaşabilirsiniz. Guide düğmesine basıldığında bir haftaya kadar olan yayın akışı hakkında bilgi edinmeniz mümkün. Tekrar edelim, bunun için öncelikle yayıncının bu bilgiyi sunuyor olması gerekiyor. Bu ekranda iki farklı görünümünden biri arasında tercih yapabiliyor. Son derece pratik bir özellik de kayıt rezervasyonlarının doğrudan EPG ekranı içinde yapılabilmesi. Bunun için, bir programı kayıt için işaretlemeniz yeterli.

Sadece OK düğmesine basarak Topfield'in ayrıntılı kanal listesini ekrana getirebiliyorsunuz. İsteddiğiniz kanalı kolayca bulabilmeniz için bir çok sıralama ve arama seçeneği var. Kullanıcı isterse herhangi bir kanalı hangi tuner üzerinden izleyeceğine karar verebildiği gibi, bunu otomatik olarak ayarlayarak cihazın kendisinin yapmasını da sağlayabilir. Bu seçenek daha makul; çünkü kanallar arası geçiş hızı son derece iyi ve kanallar farklı transpondörler üzerinde bile olsa, geçiş süresi 1 saniyeyi çok geçmiyor.

Topfield'in kullandığı tunerler mükemmel derecede hassas ve 28.2° doğu ASTRA2D veya 7° batı NILESAT uydularındaki en zayıf sinyallerde bile son derece iyi sonuçlar aldık. Cihazın SCPC kabiliyeti de oldukça



Kanal listesi üzerinde bir çok ayar yapılabilir!



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etkileyiciydi; 1.0 Ms/sn seviyesinden başlayan sinyallere kolayca kitlendi ve parazitsiz göstermeyi başardı. Bugüne kadar tTest laboratuvarımızda 36° doğu EUTELSAT SEASAT uydusundaki 1.0 Ms/sn seviyesindeki RSP kanalını almayı

başaran pek fazla uydu alıcısıyla karşılaşmadık.

Bunların dışında TF6000PVR ES'in genel itibariyle harika görüntüsünü tamamlayan başka özellikler de var. Bunların arasında haftalık, günlük



hatta haftanın günlerine göre programlanabilen kayıt rezervasyonları, cihazın inanılmaz kullanım kolaylığı, iyi işleyen teletext dekoderi ve daha bir dizi pratik ekstrayı sayabiliriz.

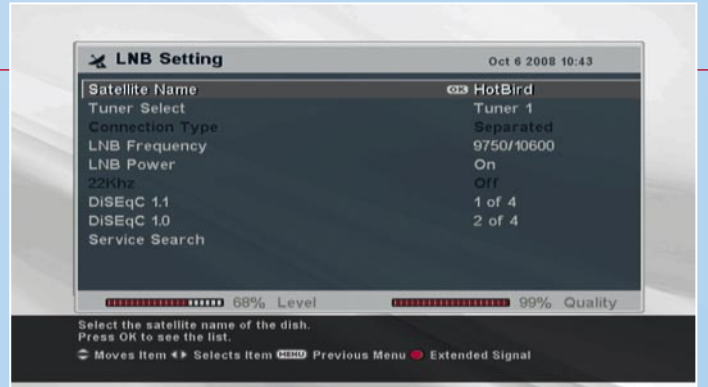
PVR özelliği tabii ki listenin en başında yer alıyor. Cihaz aynı anda iki farklı kanalı kaydedebiliyor ve istendiği anda bu kayıtları aynı görüntü kalitesiyle oynatabiliyor. Zaman kaydırma özelliği sayesinde, canlı bir yayını bile istenmeyen herhangi bir kesinti anında, örneğin telefon çaldığında durdurup daha sonra kaldığınız yerden izlemeye devam edebilirsiniz. İşaretleme özelliği de çok faydalı. Bununla izlediğiniz bir kaydın herhangi bir noktasını işaretleyerek daha sonra kolayca bulabiliyorsunuz.

Arka paneldeki USB 2.0 ve ethernet bağlantıları ile Windows tabanlı bilgisayarınıza bağlanabilirsiniz. Bu bağlantıyı kullanarak kayıtlarınızı bilgisayara aktarılabilir ve istediğiniz zaman bilgisayardan DVD'ye kaydedebilirsiniz. Doğal olarak aynı şey ters yönde de geçerli. Bilgisayarınızdaki MP3 dosyalarını alıcıya aktararak TF6000PVR ES'i bir müzikçalar gibi de kullanabilirsiniz. Ev ağı üzerinde bir FTP sunucu aracılığıyla sabit disk üzerindeki kayıtları bilgisayarınızdan kolaylıkla düzenleyebilirsiniz. Hatta kayıt rezervasyonlarını bile bilgisayardan yapmak mümkün. Maalesef Ethernet üzerinden

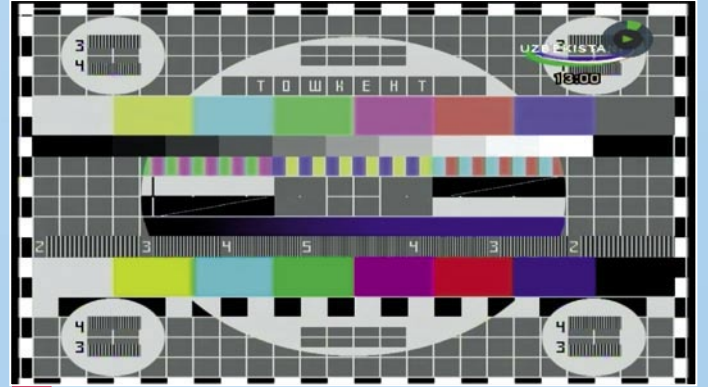
veri aktarım hızı sadece 1MB/sn. Bu bağlantı hızı nedeniyle büyük kayıtların taşınması biraz zaman alabilir. Network bağlantısının konfigürasyonunu kullandığınız DSL modem veya router üzerinden yapabilirsiniz; çünkü TF6000PVR ES, DHCP protokolünü destekliyor.

Cihazın görüntü içinde görüntü özelliği de son derece pratik. Bu özellik sayesinde izlediğiniz kanalda reklam başladığında daha önce yaptığınız bir kayda veya başka bir kanala geçiyor ve bir taraftan da o kanalı gözden kaçırmamış oluyorsunuz. Çünkü asıl izlediğiniz kanal küçük bir pencere içinde görülmeye devam ediyor. Reklam bittiğinde tek bir düğmeye basarak cihazı tekrar asıl kanala geri çeviriyor ve yayını kaldığınız yerden izlemeye devam ediyorsunuz.

Topfield uydu alıcılarının sahip olduğu başarının arkasındaki bir diğer neden de kullanıcıların el yapımı küçük yazılımları cihaza yükleyerek kullandıkları uydu alıcısını kişiselleştirmelerini sağlayan TAP arabirimi. Aynı özellik TF6000PVR ES'de var. TF6000PVRE ile olan donanım benzerliği nedeniyle bu cihazda kullanılan neredeyse tüm TAP'lar TF6000PVR ES'de de çalışıyor. Popüler EPG TAP, 3 G'yi bu yeni model üzerinde test ettik ve gayet iyi çalıştığını gördük. Bu yardımcı program zaten mükemmel olan Topfield EPG ekranını bazı eks-



LNB ayarları |



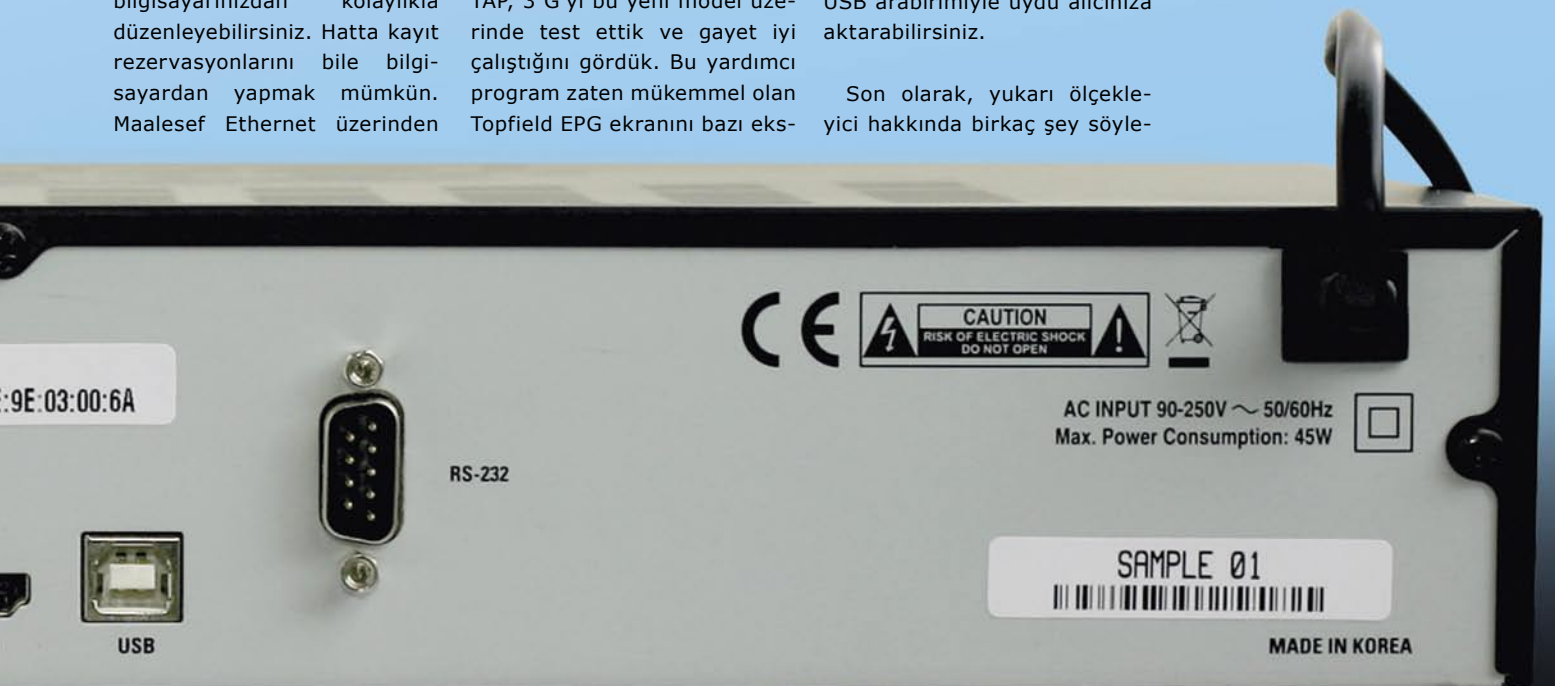
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tralarla daha da güzelleştiriyor. Belirli bir zamanda otomatik olarak topladığı EPG verilerini daha sonra kullanıcıya istediği şekilde düzenlenmiş olarak sunuyor.

Topfield, daima ürün serisini geliştirmeye çalışan bir firma. Uydu alıcılarının yazılımlarını sürekli olarak güncelliyor. Bu yeni yazılımları cihazınıza uydu üzerinden veya network üzerinden yükleyebilir ya da Topfield web sayfasından bilgisayarınıza indirip daha sonra USB arabirimiyle uydu alıcınıza aktarabilirsiniz.

Son olarak, yukarı ölçekleyici hakkında birkaç şey söyle-

mek istiyoruz. Burada şunun iyi anlaşılması gerekir. Bu özellik zayıf bir sinyali alıp bunu süper kaliteli HD bir görüntüye dönüştürmüyor. Böyle bir şey beklemek abartı olurdu zaten. Ama, LCD veya plazma ekranlarda gördüğünüz görüntü kalitesini standart 80 santimlik tüplü bir televizyonun görüntü kalitesine taşıyabilir. SD formatında ama daha yüksek bit hızlarında yayın yapan kanallar Topfield tarafından işlendikten sonra öylesine etkileyici bir görünüm kazanıyor ki normal bir izleyici bu yayınları HD zannedebilir.



Uzman görüşü



TF6000PVR ES, kullanımı kolay bir aile uydu alıcısı. Sahip olduğu yukarı ölçekleyiciyle LCD ve plazma televizyonlarda görüntü kalitesini oldukça artırıyor. PVR fonksiyonu son derece pratik ve bir kez kullandıktan sonra bir daha artık onusuz yapamayacaksınız.



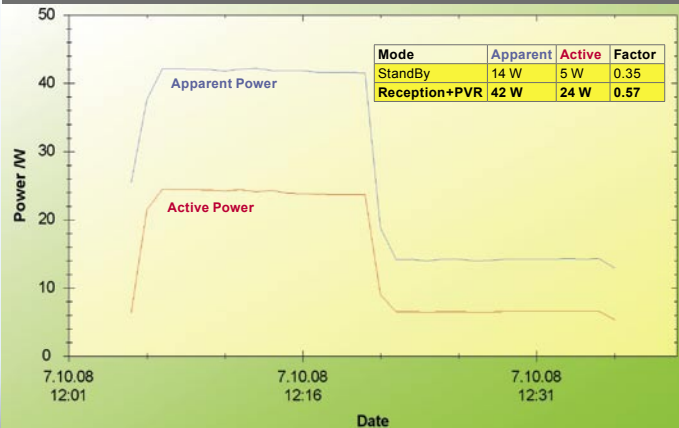
Thomas Haring
TELE-satellite
Test Center
Austria

Kanal hafızası sadece 5000. Bu bizce küçük bir rakam. Arka panelde bir açma kapama düğmesi olsaydı iyi olurdu.

TECHNIC DATA

Manufacturer	Topfield, Seongnam/Korea
Fax	+82-31-7082607
E-Mail	inquiry@topfield.co.kr
Model	TF6000PVR ES
Function	Digital SDTV DVB-S receiver with built in upscaler
Channel Memory	5000
Symbolrate	1-45 Ms/sec.
SCPC Compatible	yes (> 1000 Ms/s)
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
USALS	yes
HDMI Output	yes
Scart Connector	2
Audio/Video Outputs	3 x RCA
Component Video Output	yes, via Scart
S-Video Output	yes
UHF Modulator	no
0/12 Volt Connector	no
Digital Audio Output	yes
EPG	yes
C/Ku-Band compatible	yes
PVR-Function	yes
USB 2.0 Connector	yes
Ethernet	yes
Power supply	90-250 VAC, 50/60 Hz
Dimensions	38/26.5/6cm
Weight	3.4kg

ENERGY DIAGRAM



İlk 15 dakika kanal değişikliği, kayıt ve kayıtların izlenmesiyle geçen aktif izleme. İkinci 15 dakika Standby konumu.

Einstellungen - 157 Kanäle - 2 Sendungen		06.10. 10:47:49
1	Sprache	deutsch
EPG Scan		
2	Kanäle / Transponder	1 Transponder
3	Tuner-Verbindungsart	einzeln
4	EPG Recorder	Uno
5	EPG Aktualisierung (Minuten)	90
6	Scan-Zeit pro Transponder (Sek)	60
7	EPG Scan Start	05:00
8	Abschalten nach Scan	Ein
Timer		
9	Aufnahme-Tuner	Tuner 4
10	Aufnahme-Vorlauf	3
11	Aufnahme-Nachlauf	10
12	Automatische Timer	Ein
Exit: Speichern <=> Ändern		

EPG için 3PG TAP eklentisi |

A/V Output Setting		Oct 6 2008 10:42
TV Type	Multi	
Video Output	RGB	
VCR Scart Type	Standard	
TV Aspect Ratio	16:9	
4:3 Display Format	Full	
Sound Mode	Stereo	
HDMI Output	1080i	
Video Output Scaling	0 %	

Select the HDMI Output Resolution.
Moves Item Selects Item Previous Menu

Ses/Görüntü Ayarları |

IP Configuration		Oct 6 2008 10:43
DHCP	On	
IP Address	192.168.11.10	
Subnet Mask	255.255.255.0	
Gateway	192.168.1.1	
Primary DNS	164.124.101.2	
Secondary DNS	203.248.252.2	
Update Server	update.i-topfield.c...	
User ID	guest	
Password	0000	

Moves Item Selects Item Previous Menu

DHCP desteği ile kolay ağ kurulumu |

Organizing Services		Oct 6 2008 10:43
Extras	TV	
Browse	1634 TIJI	
Rename	1635 TMC	
Move	1636 3sat	
Lock	1637 KiKa	
Delete	1638 ZDF	
Sort	1639 ZDFdokukanal	
	1640 ZDFinfokanal	
	1641 ZDFtheaterkanal	
Astra, 11964MHz H 27600KS/s		

Renames, Rearranges, Locks, Skips, Deletes specific services.
Moves to another function. Moves to Service List
Previous Menu Moves to Service List

Kanal listesi düzenleyicisi |

Program Guide		10:44, 06/10/2008 (Mon)
1638 ZDF		
10:31 ~ 11:16 06/10 (Mon)	Wege zum Glück	
11:16 ~ 11:36	Reich und Schön	
14:01 ~ 14:16	heute - in Deutschland	
14:16 ~ 16:01	Die Küchenschlacht	
16:01 ~ 16:16	heute - Sport	
16:16 ~ 16:01	Tierisch Kölsch	

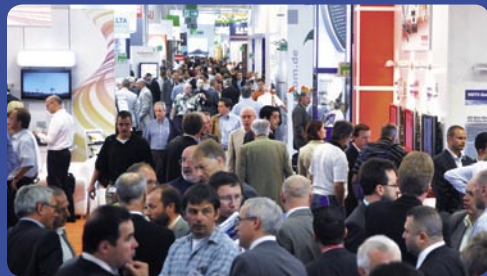
Toggle EPG Type Previous Day Next Day Next Info Page
Next/Previous Services Information
preselect/record/cancel record/record by timer/cancel

Normal EPG



ANGA Cable

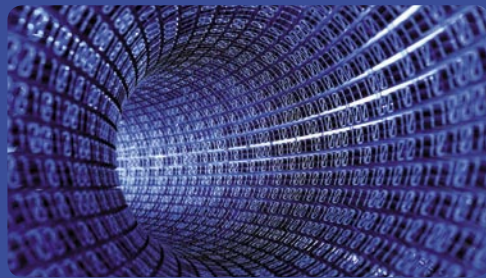
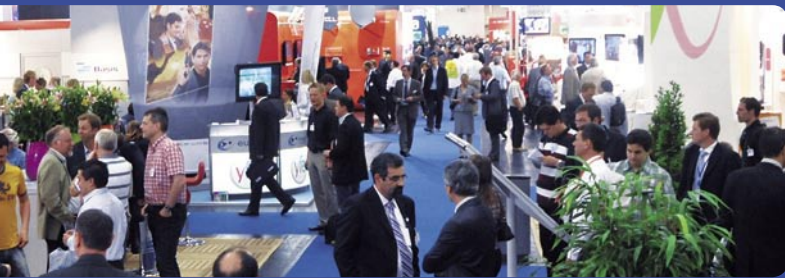
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Venus'ten 4 Parçalı Anten

Daha çok Venus markasıyla tanınan Endonezyalı üretici PT Subur Semesta, C bant yayınları için yenilikçi bir ağ anten geliştirdi. Bu yeni antenin kurulumu akıllı tasarımı sayesinde oldukça kolay yapıyor.

Bu anteni özel kılan, antenin 12 panelini dört parçaya indirmiş olması. Dört çeyrek parça alıyorsunuz. Bu parçalar da kendi içinde önceden üretilmiş üç panelden oluşuyor. Doğal olarak, montajı bu sayede çok kısa sürüyor.

Ürün montaj rehberiyle geldiği için anteni yarım saat içinde kurup tamamladık. Üstelik, bu arada yazımızda kullandığımız fotoğrafları da çektik.

■ Yeni Ağ anten AL7210 (adını 210 santimlik çapından alıyor) PT Subur Semesta tarafından yenilikçi bir yöntemle üretilmiş ve dört çeyrek parçadan oluşuyor.

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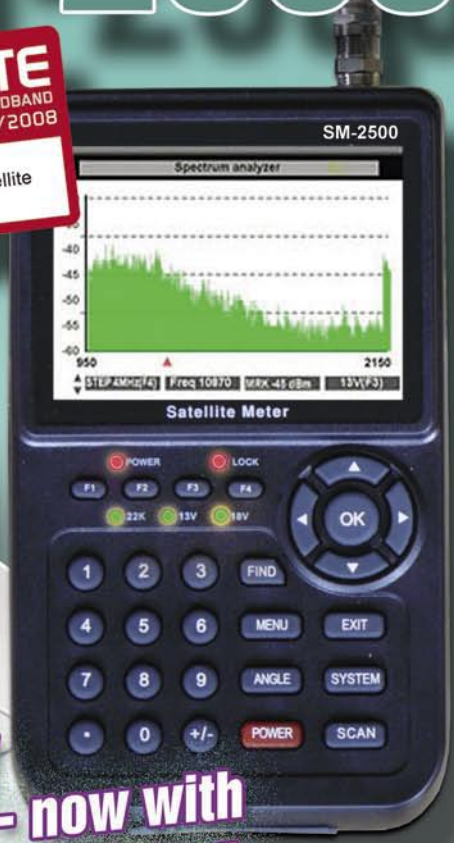
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Portuguese	Português	www.TELE-satellite.com/TELE-satellite-0903/por/venus.pdf
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Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0903/sve/venus.pdf
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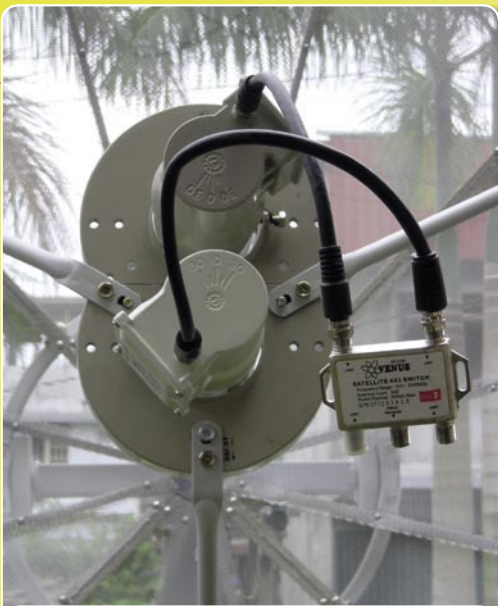
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■ İki bir yerde LNB tutucu çiftli bir şalterle monte ediliyor



■ PT Subur Semesta'nın patentli su terazisi anteni ayarlarken mucizeler yaratıyor.

Antenin her parçası yüksek kaliteyi gösteriyor: Tüm parçalar tamamen galvaniz kaplama olduğu için hem antenin kolay kurulmasını sağlıyorlar hem de yıllar boyunca sorun-

suz kullanımı garanti ediyorlar. Bizim test ettiğimiz anten 2.1 metreydi. Endonezya'da en fazla bu modelin satılması planlanıyor. Ülkenin ekvatora yakınlığı nedeniyle anteni

direğin neredeyse tam tepesine takmak zorunlu. Bu bölgede doksan dereceye yakın bir elevasyon kullanmak gerektiği için başka türüsü mümkün değil.

PT Subur Semesta'nın ağ anteni neredeyse tamamen otomatik olarak üretiliyor, işçiliğin sadece %15'i el işçiliği. Bu sayede kalite güvence altına alınmış oluyor ve her panelin tam parabolik biçimli olması garantileniyor. Normal yekpare bir antenle karşılaştırıldığında bu anten daha düzgün bir biçime sahip. Yeri gelmişken söyleyelim, bu ağ anten PT Subur Semesta'nın döküm antenleriyle aynı aksesuarları kullanıyor.

2.1 metrelik boyut PT Subur Semesta tarafından özel bir nedenle seçilmiş: Endonezya'nın bazı bölgelerinde 1.8 metrelik anten küçük kaldığı için işe yaramıyor; 2.4 metre ise ülkenin büyük kısmı için fazla büyük. 2.1 metre Endonezya'nın tamamı için en

ideal büyüklük olarak ortaya çıkıyor. Şirket uluslararası pazarlara açılmadan önce bu ürünle kendi ülkesinde iyice yerleşmek istiyor.

PT Subur Semesta'nın tüm diğer antenleri gibi bu model de Venus marka su terazisiyle birlikte geliyor. Entegre mıknatıslarıyla montaj kelepçelerine yatay veya dikey olarak takılıp açığı tam doğru olarak görmenizi sağlıyor. Böylece antenin hassas pozisyon ayarını yapmak bir kabus olmaktan çıkıyor.

Biz kendi testlerimizde ikisi bir arada LNB mountu kullandık. Bu ve hatta dördü bir arada mountlar bile PT Subur Semesta'dan temin edilebiliyor. Bu LNB mountları Endonezya koşulları için ideal; çünkü tek bir antenle birkaç sinyal almanızı sağlıyor. Mevcut sinyal seçenekleri: PALAPA C2 (113.0Doğu) ve TELKOM 1 (108.0Doğu), veya ASIASAT 3S (105.5Doğu) ve ASIASAT 2 (100.5Doğu). Ya da isterseniz uygun mountla dördünü bir arada izleyebilirsiniz.

Anten ayarından sonra, sadece birkaç dakika içinde uydu yayınlarını yeni antenimizle izlemeye başladık. PT Subur Semesta'nın yeni ağ anteni istikrarlı ve yüksek kalitede panelleriyle yenilikçi bir çözüm olduğunu böylece ispatlamış oldu. Tüm bu işler kolay montaj ve kolay nakliyat sayesinde göz açıp kapayıncaya kadar tamamlandı.



■ Her şey tamam- Şimdi sinyal seviyesi ölçülebilir



■ Harika-sinyal metre sinyal seviyesinin mükemmel olduğunu gösteriyor.

Uzman Görüşü

+

PT Subur Semesta'nın yeni Venus ağ anteni üstün kalitesiyle göz dolduruyor. Akıllı tasarımı sayesinde montaj son derece kolay.



Vincent Wijthun
TELE-satellite
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-
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SPAUN Switch for USA

Ron Roessel

One of the biggest names in the industry when it comes to multiswitches would undoubtedly have to be SPAUN. The company was founded back in October of 1969 and began by manufacturing OEM terrestrial antenna products. In 1991 they began distributing products under their own name and shortly after that introduced the first multiswitch with an integrated power supply. Since then they have continuously added to their product line such that today their product range consists of more than 300 products.

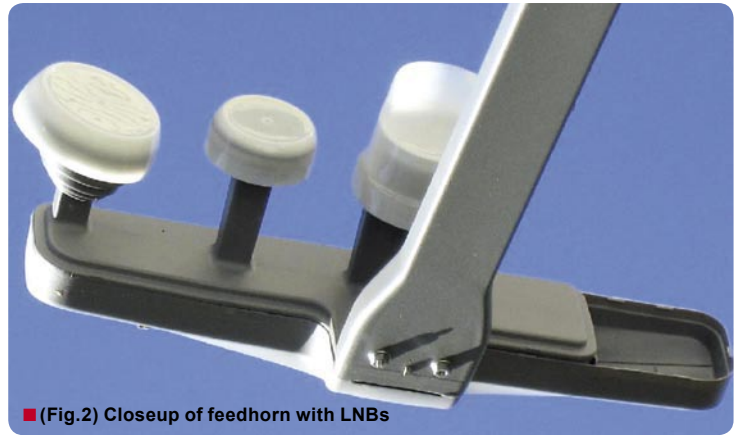
Recently, SPAUN ventured into a new arena by beginning to offer amplifier and multiswitch products for use exclusively with the DirecTV satellite PayTV system in the USA. DirecTV itself came into existence back in 1990 and launched their satellite TV

service in June of 1994. The idea of watching TV via satellite instead of through a cable TV service provider became so popular that in just a little over a year, they reached one million subscribers.

Just ten years later in 2005 they had 15 million subscrib-

ers! In 2007 DirecTV began offering 70 HD channels and today that number has risen to over 130 HD channels. When you talk to most people about DirecTV, they think of DirecTV as merely a provider of TV services to individual end users such as

larger apartment buildings. Here the commercial end users want to provide independent satellite TV signals to each hotel room or apartment with all of this being accomplished using a single



■ (Fig.2) Closeup of feedhorn with LNBs

those in private homes. But the truth is DirecTV also provides service to commercial end users such as hotels and

satellite antenna. Obviously, a standard DirecTV satellite system can't handle this all by itself. That's where SPAUN comes in.

SPAUN has developed an array of products exclusively for the DirecTV SlimLine dish antenna system (Fig.1) that allows the incoming satellite signals from five different satellites to be distributed to multiple receivers using only the one satellite dish.

The SlimLine LNB (Fig.2) comes with four independent outputs that when used normally allow the end user to connect up to four satellite receivers. But when used



■ (Fig.1) The DirecTV dish setup we used for this test



with the SPAUN components, 16 and more receivers can be connected. If you take a close look at the SlimLine LNB, you might say to yourself: "I only see three LNB's". And, yes, that's exactly what it looks like from the outside. On the inside however, much more is going on.

The LNB on the right is actually three LNB's in one that together with the other

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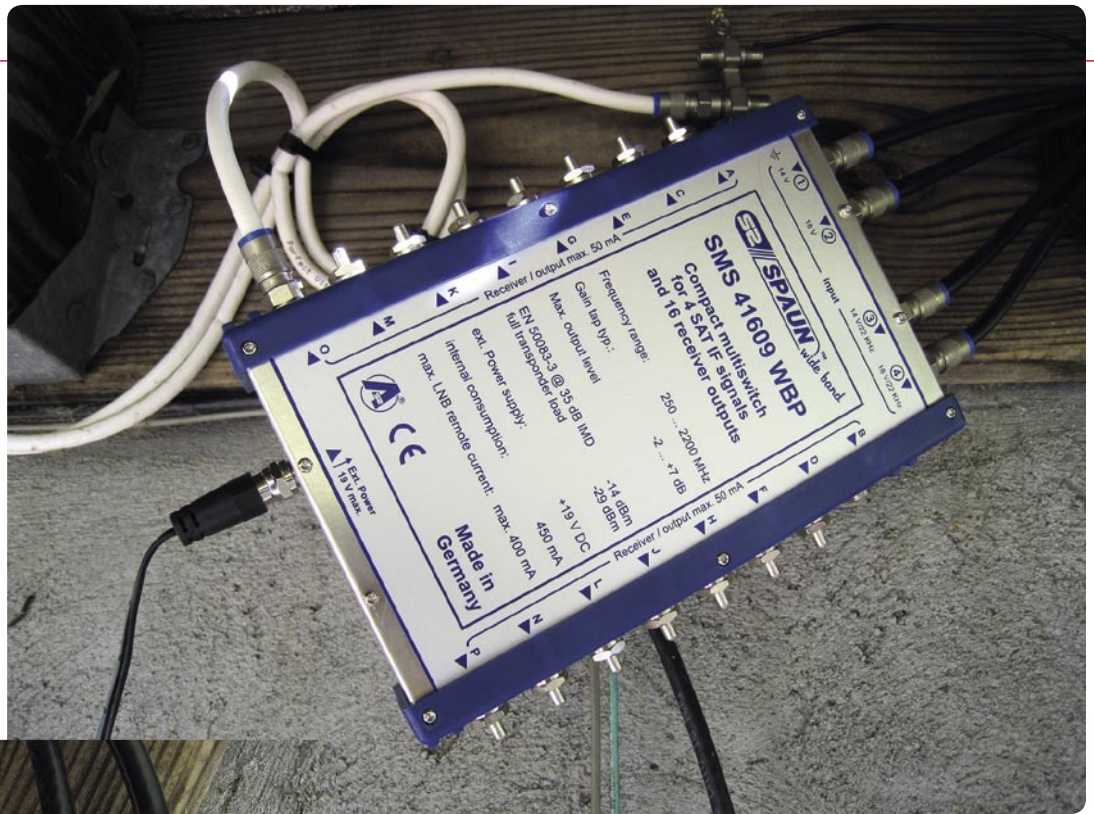
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two add up to five. Then you might be asking yourself how it can be possible to switch between five different satellites and at the same time give all the connected receivers access to these satellites independent of each other.

The answer again lies in the SlimLine LNB. A typical LNB converts the incoming satellite signals to the 950 to 2150 MHz range and sends these signals via the coax cable to the receiver.

The SlimLine LNB does this and more. A portion of the incoming satellite signals are



■ (Fig.4) We removed the 4 black colored coax cables from grounding block and connected them to the SPAUN SMS 41609 WBP. Now we could connect up to 16 receivers.



■ (Fig.3) SPAUN SMS 41609 WBP switch

converted to the 250 to 750 MHz range. Through a variety of switching functions within the LNB, the 250 to 750 MHz range and the 950 to 2150 MHz range are both made available at each of the four outputs on the SlimLine LNB. The receiver chooses which band and polarization it wants simply by switching between 14 or 18 volts and also whether or not to include a 22 KHz signal along with the proper voltage.

We found the idea of using SPAUN switches in this application very intriguing so we decided to take a closer look at how all of this works. SPAUN was kind enough to provide us with a number of their components so that we could put them to the test.

The number of receivers that need to be serviced will dictate what SPAUN components will be used and how many of them will be needed.

The most basic set up will provide outputs for as many as 16 receivers. For example, the four LNB outputs can be connected directly to a SPAUN SMS 41609 WBP switch (Fig.3) without the need for any amplifier components.

This switch already comes with the 16 outputs needed for 16 different receivers. Just plug the included power supply into a wall outlet, connect the other end into the proper jack on the switch and it's ready to go (Fig.4). All of the receivers connected to this switch can indepen-

dently access all of the satellite signals from the DirecTV antenna as if each receiver were connected to its own antenna.

How does this work? The concept is actually quite simple. The receiver has the ability to send four different control signals (14V, 18V, 14V + 22 KHz and 18V + 22 KHz) via the coax cable to the LNB so that the proper band/polarization is selected. But when the SPAUN components are used in between the receiver and the SlimLine LNB, the sequence of events unfolds with a slight difference. The receiver still sends out the proper control signal depending on the band/polarization it wants to receive but, instead of this finding its way to the receiver, it ends up sent to a SPAUN multiswitch. As far as the receiver is concerned, it thinks it's connected to an LNB.

The SPAUN SMS 41609 WBP multiswitch comes with four satellite signal inputs. Each of these inputs sends its own unique control signal to the SlimLine LNB:

- Input 1 – 14V
- Input 2 – 18V
- Input 3 – 14V + 22 KHz
- Input 4 – 18V + 22 KHz

In this way, all of the available satellite IF bands from the SlimLine LNB are delivered to the SMS 41609 WBP multiswitch at the same time. The switch then routes the desired band/polarization to the connected receivers based on the control signals received by the switch from each of the receivers.

As mentioned earlier, one of these bands is the 250 to 750 MHz frequency band. Depending on the DirecTV receiver model, an internal or external BBC (base band converter) module is used to upconvert this frequency band to the standard satellite IF band so that the receiver can access these signals.

If the satellite system to be installed involves the use of more than 16 receivers, then additional multiswitches need to be used.

In some cases, this system must also be capable of handling terrestrial TV signals as well. The SPAUN SMS 41609 WBP multiswitch does not have a terrestrial input so for applications like this the SMS 41609 WBP can be used. Also, now that we are dealing with more than one multiswitch, it becomes necessary to include signal amplifiers

and signal taps to the SPAUN set up as well.

For the first part of our test we wanted to set a baseline measurement from which a comparison could be made when the SPAUN components were added. So, before any SPAUN components were put in place, we measured and

test we used the following SPAUN components:

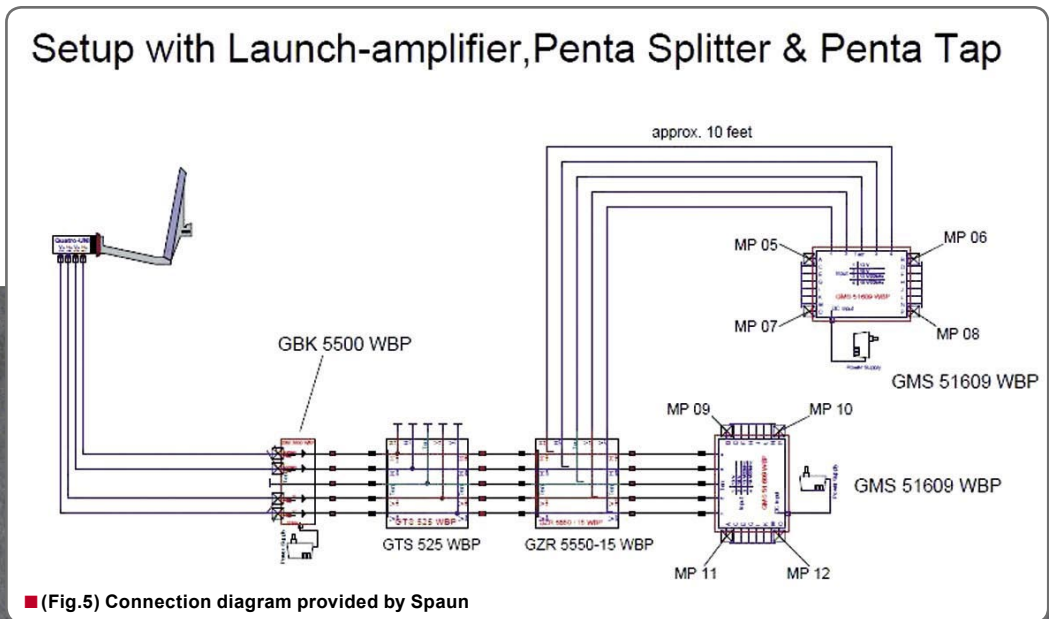
- 1xGBK 5500 WBP Wide-band Launch Amplifier
- 1xGTS 525 WB Penta Splitter
- 1xGZR 5550/15 WB Penta Tap with Directional Coupler
- 2xGMS 51609 WBP Compact 16-Output Multiswitch

These components were connected to each other as shown in the diagram in Fig.5. The actual connected components can be seen in Fig.6. In the normal setup, the four cables from the SlimLine LNB were routed to a grounding block (Fig.7) at a location outside of the house just

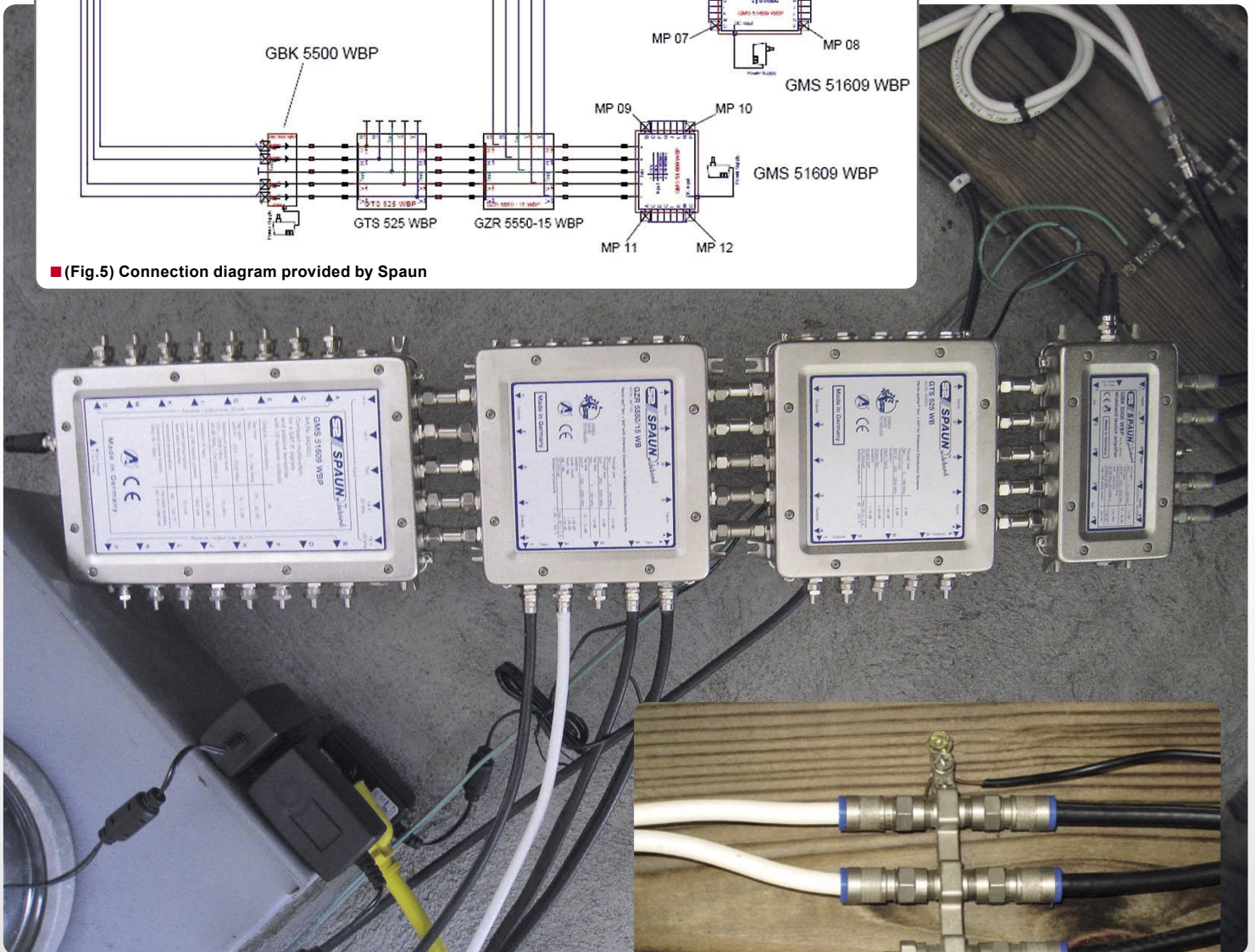
before the cables went into the house. This was a convenient point to connect the SPAUN components.

The four IF cables were removed from the grounding block and connected to the four inputs on the SPAUN Launch Amplifier. This particular setup has the capability to provide independent satellite signal outputs for up to 32 receivers.

For the purpose of our tests we opted to measure the outputs at the eight Measuring Points (MP) highlighted in Fig.5. The unused outputs were terminated with 75



■ (Fig.5) Connection diagram provided by Spaun



■ (Fig.6) Our actual setup for this test. Now up to 32 receivers could be connected

recorded all the active transponders on the five satellites using the signal strength display that is included in the DirecTV receiver setup menu.

For the second part of our

■ **Grounding block conveniently located for us to change the cables: the black colored cables are the ones coming from dish.**

(Fig.8) DirecTV Satellite at 101 west

Table with 10 columns: Transponder#, Normal, MP05, MP06, MP07, MP08, MP09, MP10, MP11, MP12. Rows 1-32.

(Fig.9) DirecTV Satellite at 110 west

Table with 10 columns: Transponder #, Normal, MP05, MP06, MP07, MP08, MP09, MP10, MP11, MP12. Rows 9, 11, 13.

(Fig.10) DirecTV Satellite at 119 west

Table with 10 columns: Transponder #, Normal, MP05, MP06, MP07, MP08, MP09, MP10, MP11, MP12. Rows 22-32.

(Fig.11) DirecTV Satellite at 99a west

Table with 10 columns: Transponder #, Normal, MP05, MP06, MP07, MP08, MP09, MP10, MP11, MP12. Rows 1-14.

(Fig.12) DirecTV Satellite at 99b west

Table with 10 columns: Transponder #, Normal, MP05, MP06, MP07, MP08, MP09, MP10, MP11, MP12. Rows 1-24.

Ohm terminations. The MP's were also terminated with 75-Ohm terminations when they were not connected to a receiver.

As with the first part of the test, all the active transponders for the five satellites were measured and recorded for each of the MP's (MP05 to MP12) using the same DirecTV receiver menu display.

differences between the measured signal strengths at MP09 to MP12 and the normal setup. In this case the measured signal strengths were somewhat lower at these four MP's than those of the normal setup.

Conclusion

So, is the number of receiver outputs using these SPAUN components limited to 32? Absolutely not. If you need more than 32 outputs for your specific DirecTV setup, simply add additional SPAUN components!

Looking closely at each of the tables you can see that the measured signal strengths at MP05 to MP08 compared very nicely to the normal setup. In fact there was very little difference between any of the measurements and in some cases there was no difference at all.

It shouldn't. SPAUN has been around since 1969 and in that time has built up quite a bit of experience when it comes to manufacturing satellite components. They make quality products that fully live up to expectations.

There was, however, some

(Fig.13) DirecTV Satellite at 103a west

Table with 10 columns: Transponder #, Normal, MP05, MP06, MP07, MP08, MP09, MP10, MP11, MP12. Rows 1-24.

(Fig.14) DirecTV Satellite at 103b west

Table with 10 columns: Transponder #, Normal, MP05, MP06, MP07, MP08, MP09, MP10, MP11, MP12. Rows 1-14.

WINTER IN HDTV • AB IPBox 910HD



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RECORD 2 HD CHANNELS AND WATCH
1 HD CHANNEL AT THE SAME TIME

- 1 x SMART CARD READER, 2 x CI SLOTS
- PLUG AND PLAY TUNER (DVB-S2, DVB-S, DVB-T, DVB-C)
- INTERNAL SATA 2'5 OR EXTERNAL E-SATA HDD SUPPORTED
- TIME SHIFT FUNCTION
- EPG, PIP, USB 2.0 HOST, MP3 DECODER
- DIVIX SUPPORTED



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AWARD Winning Satellite Receivers

TELE SATELLITE AWARD & BROADBAND
02-03/2009

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

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

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

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



TELE SATELLITE AWARD & BROADBAND
12-01/2009

JIUZHOU DTS6600
A brilliant blend of ease of use and great functions

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	●/●



TELE SATELLITE AWARD & BROADBAND
12-01/2009

OPENSAT XT-9500 HD
Style and substance in a single package

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	●/●



TELE SATELLITE AWARD & BROADBAND
12-01/2009

TEVII S650 – DVB-S2 USB BOX
Compact HDTV receiver for PC or laptop computer with comprehensive software

Manufacturer	TeVii Technology
Website	www.tevii.com
Function	USB box for the reception of SDTV and HDTV, radio and data on the PC
DVB-S2/LAN	●/—
Channel Memory	unlimited
DiSEqC	1.0, 1.1, 1.2, 1.3
S-Video/HDMI	—/—
Scart/Digital Audio	—/—



TELE SATELLITE AWARD & BROADBAND
12-01/2009

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


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



TELE SATELLITE AWARD & BROADBAND
10-11/2008

IMPERIAL SATBOX HD
Perfect HDTV Reproduction with Ease of Use and Extraordinary Display

Manufacturer	DVB-Shop
Website	www.dvbshop.net
Function	HDTV Satellite Receiver
DVB-S2/LAN	●/●
Channel Memory	7000
DiSEqC	1.0 / 1.2
S-Video/HDMI	—/●
Scart/Digital Audio	●/●



TELE SATELLITE AWARD & BROADBAND
10-11/2008

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

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	●/●



TELE SATELLITE AWARD & BROADBAND
10-11/2008

SONICVIEW SV-360 ELITE PVR
A family-friendly receiver and easiest to use with a multitude of features

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



TELE SATELLITE AWARD & BROADBAND
10-11/2008

VENUS NEW MILLENNIUM II-EP
Easy to use receiver for big motorized dishes at an economic price

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	—/—



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.

Manufacturer	ABCom
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

IMPERIAL DB 1 CI HDMI
Practical and user-friendly interface – the perfect match for satellite radio listeners and DXers

Distributor	DVBShop
Website	www.dvbshop.net
Function	Digital Satellite Receiver with CI-Slot
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
06-07/2008

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

Manufacturer	Arion, South Korea
Website	www.arion.co.kr/global
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
04-05/2008

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

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

METABOX HD COMBO CI
HD all-rounder for satellite and terrestrial reception with perfect usability – great as a box for the whole family

Manufacturer	Metamultimedia
Website	www.metamultimedia.net
Function	HDTV Receiver for DVB-S, DVB-S2 and DVB-T
DVB-S2/LAN	●/—
Channel Memory	10000
DiSEqC	1.0 / 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

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

TOPFIELD TF7720HSIR
Ideal HDTV Receiver for FTA and Irdeto encrypted channels

Manufacturer	Topfield
Website	www.topfield.co.kr
Function	DVB-S, DVB-S2 HDTV Receiver with Irdeto CA
DVB-S2/LAN	●/—
Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	●/●
Scart/Digital Audio	●/●

TELE SATELLITE AWARD & BROADBAND
02-03/2008

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

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

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

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	●/●

TELE SATELLITE AWARD & BROADBAND
02-03/2008

NANOXX 9600 IP
Perfectly working CA receiver with smart use of network interface

Manufacturer	NanoXX
Website	www.nanoxx.info
Function	Digital CA satellite receiver with PVR functionality via network
DVB-S2/LAN	—/●
Channel Memory	6000
DiSEqC	1.0 / 1.2 / 1.3
S-Video/HDMI	—/—
Scart/Digital Audio	●/●

Arion Yoluna Devam Ediyor

Bir yıldan biraz daha uzun bir süre önce TELE-satellite'de Güney Koreli bir üreticinin yüksek kaliteli uydu alıcıları üzerine bir yazı yayınladık. Seul'un güneyindeki Anyang'da faaliyet gösteren bu şirket, sizlerin de çok iyi hatırlayacağı gibi Arion. Uzun süre sonra, bu kez, 2008'in çalkantılı sularında nasıl bir seyir izlediklerini öğrenmek ve 2009 için yol haritalarını görmek üzere onları yeniden ziyaret ettik.

Satış ve Pazarlama yöneticisi Thomas Roh (solda) ve Baş Pazarlama müdürü Sam Chang (sağda) birlikte Arion Ar-Ge ofislerinin girişinde.

Pazarlama müdürü Sam Chang'ı eski şirket merkezinden pek uzak olmayan yeni merkezlerinde ziyaret ettik. Aradaki süre boyunca neler yaptıklarını anlattı: "Bu yeni yere taşındık; çünkü personelimizin daha iyi bir ortamda çalışmasını istiyoruz." Arion'da, şu anda 80 civarında personel çalışıyor, bunların 50 tanesi Anyang'daki Ar-Ge bölümünde çalışan mühendislerimiz." Arion alıcılarının asıl üretim yeri ise güney Çin" diye sözlerine devam ediyor Sam Chang.

Pazarlama müdürü Joey Lee, ürünlerinin dağılımına ilişkin bazı coğrafi ayrıntılar da veriyor: "Ürünlerimizin yüzde otuzunu Hindistan'a, bir diğer yüzde otuzunu Güney Amerika'ya ve kalan yüzde

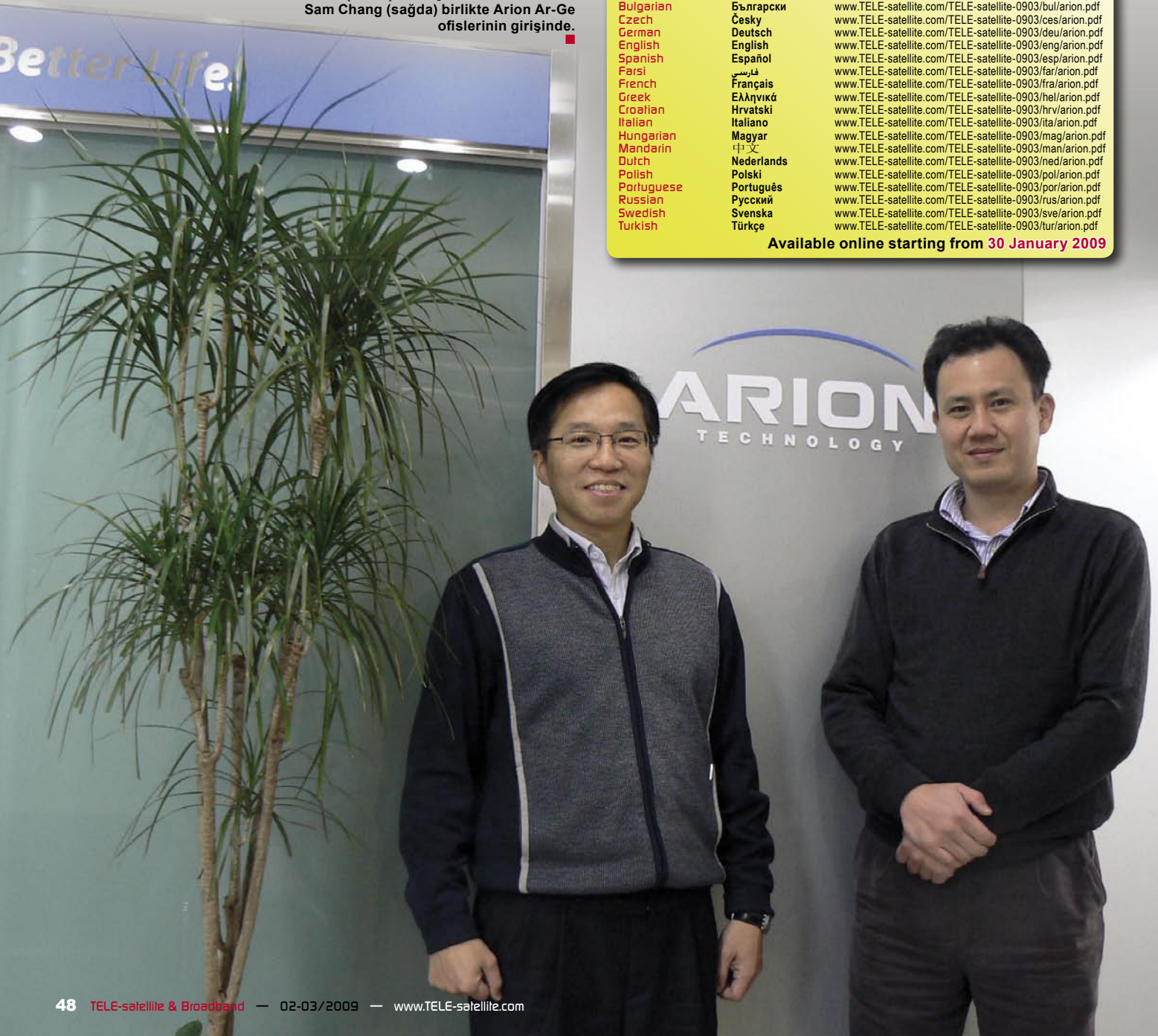
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0903/tur/arion.pdf

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Multi Room Solution



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Kids room

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Only SmartWi can guarantee that the content actually stays within the household who has paid for it.

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Gayet açık değil mi? Çatısında bu kadar çok uydu çanağı olan bir şirket mutlaka uydu alıcıları konusunda bir şeyler yapıyordur. Jeong Woo Lee, Arion'un mühendislerinden biri. Resimde bir LNB'yi ayarlarken görülüyor. Arkaplanda Seul'ün güney mahallelerinden Anyang görülüyor.

kırkını ise Avrupa'nın değişik bölgelerine gönderiyoruz." Sam Chang şunları eklemeyi de ihmal etmiyor "2007 yılından beri Arjantin'de kendi satış ofisimizle faaliyeteyiz" ve " 2009 yılında özellikle Batı Avrupa'da büyümeyi hedefliyoruz."

Satış ve pazarlama müdürü Thomas Roh, Arion'un sahip olduğu pazarlar hakkında ayrıntılı bilgiler vermeye devam ediyor. "2006'dan beri Arion olarak Latin Amerika, Hindistan ve diğer gelişmekte olan ülkelerdeki TV yayıncıları üzerinde

her geçen gün daha fazla yoğunlaşıyoruz. Bu bölgelerde önde gelen kablo ve uydu operatörleriyle önemli anlaşmalar yaptık. Ama yakında, asıl uydu alıcı pazarımız olan Avrupa'ya döneceğiz. Yeni HD platformlarımız ST7101, HD PVR-hazır ve Broadcom temelli çift HD PVR" ile burada

önemli atılımlar yapmayı hedefliyoruz. Arion burada da uydu ve kablo yayıncılarıyla yeni ortaklıklar kurmayı hedefliyor.

Peki, Arion'un ürün gamı ne olacak? "Avrupa'da kesinlikle HD pazarı," diyor Sam Chang ve 2009 yılında Avrupa pazarına sunacakları yeni ürünlerin listesini veriyor: "2009'un ilk çeyreğinde, PVR-hazır bir HDTV uydu alıcısı çıkaracağız. PVR-hazır derken, harici bir sabit diskin bağlanabileceği bir cihazı kast ediyoruz." Bunun ardından, ikinci çeyrekte, dahili

■ Arion satış ekibi iş başında.



■ Joey Lee, Arion pazarlama ekibinde pazarlama menajeri olarak çalışıyor.



■ H.M. Par Arion'un Kıdemli müdürü ve Ar-Ge ekibinde 50 donanım ve yazılım mühendisi ona bağlı olarak çalışıyor.



■ Rahatsız etmeyin! Yeni uydu alıcının devre şeması üzerinde çalışan mühendis ekibi.

■ Yazılım mühendislerinden biri yeni çıkacak HD PVR uydu alıcının yazılımında ince ayarları yapıyor.

sabit diskli bir alıcı ve daha sonra 2009'un sonlarına doğru, IPTV ürünleri bile olabilir." Joey Lee bu sözlere şunları ekliyor "ilk numuneler gelmeye başlar başlamaz, test raporu için TELE-satellite'e bir örnek göndereceğiz." TELE-satellite olarak biz ve hiç kuşkusuz okurlarımız yeni MPEG-4 HDTV uydu alıcılarını merakla bekliyoruz. Çünkü Arion her zaman kaliteli ve başarılı ürünlere imza atmış bir şirket. Arion temsilcileriyle özel olarak görüşmek isteyenler için de hemen belirtelim 2009'da "ANGA ve IBC fuarlarında olacaklarını" belirtiyor Sam Chang.

Arion her zamanki gibi aktif, Arion kalitesindeki yeni uydu alıcılarını sabırsızlıkla bekliyoruz!

■ Kaliteli bir uydu alıcı kendisini ispatlayabilmek için en zor testlerden geçmeli: Eun-Ju Choi kalite ekibindeki test mühendisi. Resimde Arion alıcının ısı odasındaki tepkilerini kontrol ederken görülüyor.



4, Belki de 3 yılda Milyoner olacaklar! SonicView, ABD

SonicView, bugün hala bu endüstri parkında faaliyet gösteriyor. SonicView şimdilik iki bina kiralamış. "Ama sadece birkaç ay içinde kendi merkezimize taşınacağız," diyor SonicView CFO'su Steve Falvey, "Şimdiki depo hızla büyüyen satışlarımız için çok küçük."



Bir şirket kurup, daha ilk yılda hayal bile edemeyeceğiniz kadar büyük iş yapsanız ve asla düşünemeyeceğiniz kadar uydu alıcı satsanız dört yılda milyoner olmayı başarmak çok da zor olmaz herhalde. Hatta bu rakama belki ilk yılda bile ulaşabilirsiniz. Kaliforniya merkezli SonicView, henüz 2006'da kurulmuş bir şirket. Bobby Sanz şirketi 2007'de devralmış ve o günden sonra işler olağanüstü bir hızla gelişmiş. Bu yazıda, bu başarı öyküsünü SonicView'in Satış Müdürü Tony Lively'den ayrıntılı olarak dinleyeceğiz.

Bobby Sanz 2007 yazında SonicView'i devralmış. İşte her şeyin değişmeye başlaması da bununla olmuş. Tony ilk dönemleri şu sözlerle anlatıyor: "SonicView küçük bir başlangıç şirketi ve Kuzey Amerika pazarında güçlü rakiplerle karşı karşıyaydı. Başlangıçta sadece üç personeli bulunuyordu. Bobby üstün kaliteli ürün yelpazesi ve Kuzey Amerika marketine olan hakimiyetiyle, Koreli bir uydu alıcı üreticisinin Amerika & Dünya dağıtım haklarını elde etti."

Bobby şirketini büyötmek için birinci sınıf profesyonelleri işe almakla başladı. Büyük bir Amerikan bankasında başkan vekili olarak çalışan Steve Falvey ekibe ilk katılanlardandı. Emekli olduktan sonra, SonicView CEO'su olarak çalışmaya başladı ve o günden beri günlük operasyonlardan sorumlu. SonicView ekibine katılma kararı onun için çok zor verilmiş bir karar değildi. Çünkü kendisi Bobby Sanz'ın babası.

Steve'in banka yöneticisi olarak sahip olduğu tecrübe, SonicView'in önüne finansal anlamda yeni kapılar açtı ve ilk uydularını büyük bir sükseyle üretmelerini sağladı.

2008'de SonicView'in satışları Bobby'nin işe başladığı güne göre ikiye katlandı. 2009 yılı hedefleri ise çoktan aşılmış durumda.

Peki bu iyimserliğin kaynağı nereden geliyor? "Amerika'da FTA pazarı hala çocukluk günlerini yaşıyor," diye açıklıyor bunun nedenini Tony "Göçmenler daha henüz kendi ülke televizyonlarını uydudan ücretsiz olarak izleyebileceklerini anlamaya başladılar." SonicView işte bu müşteri kitlesini hedefliyor.

"Bugüne kadar izledikleri televizyon yayınları için ücret ödeyen; ama ücretsiz olarak da çok sayıda kanalı izleyebileceklerini fark etmeye başlayan büyük bir izleyici kitlesi mevcut." Günümüzün kriz koşullarında bu kişiler kendilerine neden şifreli yayınlara çuvala para ödediklerini sormaya başladı.

SonicView Güney Amerika'ya açılarak kendine üçüncü bir Pazar daha yaratma yolunda "Bu büyük ve dokunulmamış bir Pazar" diyor Tony. "Oraya 'beyaz uzay' diyoruz."

SonicView'in profesyonelliği hemen göze çarpar: Herhangi bir yerel dağıtımçıyla temasa geçmeden önce bütün sevk ve nakliye sorunlarını en ince detaylarına varıncaya kadar araştırıyorlar. "Sınıra kadar sevkiyat yaparak riskleri azaltıyoruz, sınırın sonra her şey yerel ortaklarımıza ait." SonicView suç ve yozlaşma gibi şeylerden kendini uzak tutması gereken bir firma. Tony şöyle devam ediyor, "Riskli minimum seviyeye indirmek için daima bir miktar peşin ödeme şartı koyuyoruz."

Ürün paletlerine baktığımızda burada görünmez bir elin iş başında olduğunu ve her şeyin düzenle yürümesini sağladığını hemen fark ediyoruz. Uydularını tamamıyla hedef pazara göre konfigüre edilmiş. Bunlar arasında, üst sınıf HDTV uydularını HD8000, TELE-satellite'in kısa süre önce tanıttığı çift tunerli SV360'ın tek tunerli versiyonu gözümüze çarpar.

SonicView bugünlerde Las Vegas'ta 2009 Ocak ayında yapılacak CES fuarına hazırlanıyor. Fuarda sergileyecekleri üç yeni uydularını daha var: SV360'ın HDTV versiyonu çift ve tek tunerli versiyonlarıyla, tek tuner ve HDMI çıkışı yerine UHF modülatörlü olarak Güney Amerika için bir versiyonu bu fuarda tanıtacaklar.

Tony, işlerin durumu hakkında genel bir bilgi veriyor: " Her üç modelimizi de aynı oranlarda satıyoruz, yani her biri satışların yaklaşık %30'unu oluşturuyor."

SonicView şu anda 11 personele sahip ve yalnızca toptan satış yapıyor. "Müşterilerimiz, ABD, Kanada ve Meksika'da sekiz bölgesel dağıtımçıdan oluşuyor. Bunlar da toplam 130 birime dağıtım yapıyorlar," diye açıklıyor Tony.

SonicView'in ürün paletinin gelişmesi bekleniyor. Tony, "2008'de satışlarımızın sadece %10'u aksesuarlardan oluşuyordu;



■ Şirket CFO'su Steve Falvey eski bir bankacı. Steve bir şirketin finansman işlerini başarıyla yürüterek, şirketi zirveye nasıl taşıyacağını çok iyi biliyor.



■ SonicView Satış Müdürü Tony Lively TELE-satellite'in SonicView Test raporunu okuyor. "TELE-satellite okuyarak pek çok şey öğrendim" diyor Tony "Özellikle değişik ülkelerden raporları okumayı seviyorum"



■ Brezilyalı Patricia Moreira Renco şirketin Uluslararası ilişkiler danışmanı. Şu anda Güney Amerika'da bir dağıtım ağı kurmaya çalışıyor.

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Depo sorumlusu Chris Witcomb. "Bir kutuda beş alıcı var. ■ Bir konteyner 1000 kutu, yani 5000 uydu alıcısı alıyor." Bir dağıtımının satın alması gereken en düşük miktar bu; ama çoğu için bu yeterli bir sayı değil. "Bir teslimatı aldıktan sonra, daha bir gün bile geçmeden depodan gönderiyoruz," diye açıklıyor Chris.



Ken Cherry, Envanter ■ Kontrol Uzmanı. Yalnızca dağıtımıcılara giden sevkiyatı idare etmekle kalmıyor, Güney Kore'den ithalatta ilgili işlemleri de yapıyor. "Denizaşarı sevkiyat yaklaşık bir hafta ve gümrük işlemlerinin tamamlanması da bir gün sürüyor."



Teknik Destek Sorumlusu ■ Adam Dunn, arızalı bir uydu alıcısını tamir ederken görülüyor. "Çok az ürünümüz geri dönüyor, geçtiğimiz yıl geri dönen ürün oranı yıllık satışımız içinde %0.02 idi." SonicView ürünlerinin yüksek kalitesi samsanyonel başarılarının ardında yatan bir diğer neden.



ama 2009'da bu oranın hızla yükselmesini bekliyoruz. Aksesuar satışlarının toplam içindeki payı %50'ye yükselecek." Bu aksesuarlar da büyük kısmıyla çokluşalter, HDMI kablolar, LNB ve PVR alıcılar için USB çubuklardan oluşacak.

Bobby Sanz'in gelecek için pek çok planı var ve bunları gerçekleştirme için oldukça hazırlıklı: Profesyonel finansman, hedef pazarın ihtiyaçlarına göre mükemmel tasarlanmış ürünler ve doğru zamanlama.

Kim bilebilir, SonicView belki de sadece üç yılda bir uydu alıcısı milyoneri olmayı başaracak gibi görünüyor!

SonicView, son kullanıcıya dağıtımıcılarına duyduğu güveni göstermek için bu mühürleri kullanıyor. Dağıtımıcılar, ancak SonicView tarafından iyice kontrol edildikten sonra bu mühürü web sayfalarında kullanabiliyorlar.

■ SonicView'in Teknik destek ekibi Michigan'dan Dick ve Julie Sweeney, Kansas City, Missouri'den Rick Caylor (resimdeki). Kendisi SonicView'in güç problemleri çözmede güvendiği uzman. Müşterilerinin uydu yayınlarıyla ve özellikle de motorlu antenlerle ilgili sorunlarını çözmekte başarılı. Rick çanak antenlerine referansla "6 antenim ve 13 uydu alıcım var. İki de motorlu 3.0 metrelik dökme bir anten ve 2.5 metrelik alüminyum anten. Artı DirecTV için 90 santimlik bir anten, Galaxy 25 için 75 santimlik bir anten ve iki tane motorlu 75 santim antenim var." Rick tutkulu bir feed avcısı ve özellikle de araba yarışlarıyla ilgileniyor. Araba yarışlarını listelediği konuyla ilgili bir forumun da yöneticisi www.websitetoolbox.com/mb/rickcaylor

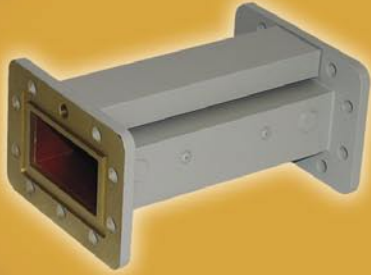




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Jiuzhou'dan HDTV

Geçmiş 50 yıla uzanan teknoloji firmalarının sayısı son derece az. İşte sayıları son derece az bu firmalardan biri de Çin'in Sichuan eyaletinde faaliyet gösteren Jiuzhou. 03/2008 sayımızda da belirttiğimiz gibi şirket 2008'de 50. yaşını doldurdu. Resmi kutlamalar 16 Kasım'da şirketin Sichuan'daki merkezinde gerçekleştirildi.

Şimdimerakla 51. yılda karşımıza çıkacak yenilikleri merakla bekliyoruz.

Shenzen'in (Çin) batısındaki Nanshan ileri teknoloji parkında bulunan Jiuzhou Electric binası 50. kuruluş yılı için süslenmiş

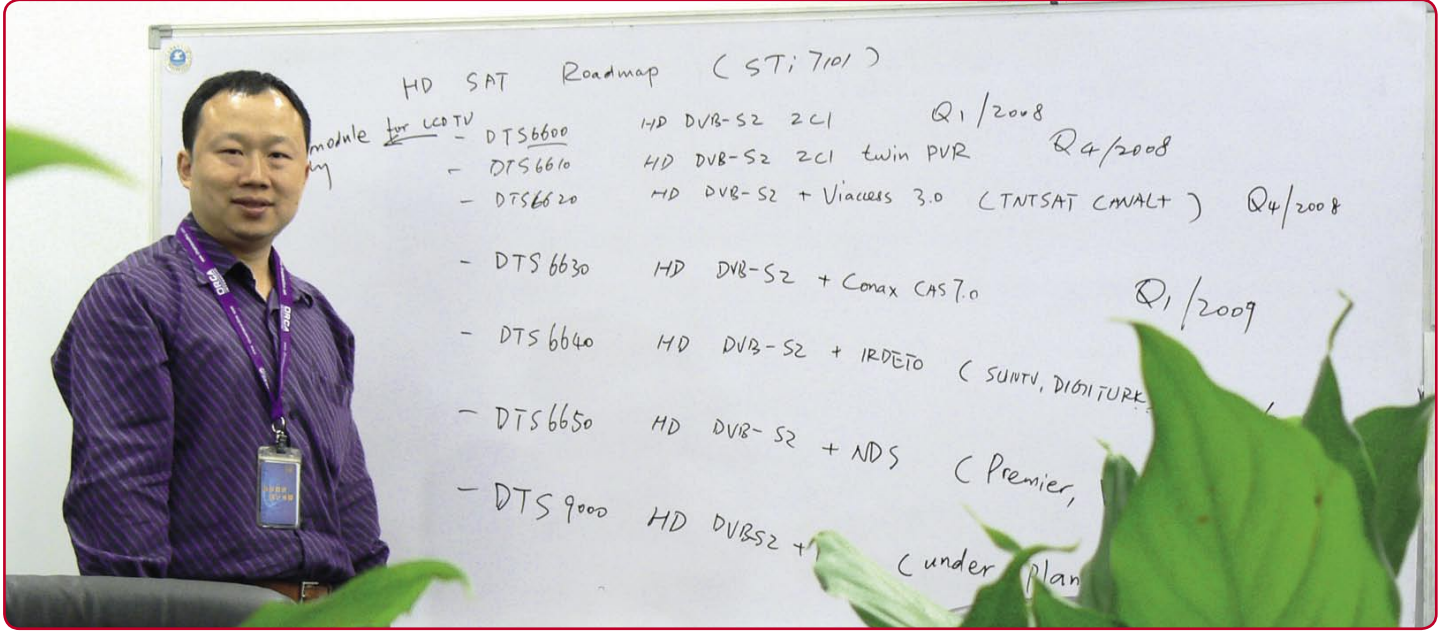


JIUZHOU

The Latest Development in Year 51

Jiuzhou'nun dağıtım ve Ar-Ge departmanı Çin'in güneyindeki Hong Kong'un hemen yanında Shenzen'de faaliyetlerini yürütüyor. İşte bu merkezde, Jiuzhou Group'a bağlı Schenzen Jiuzhou Electric ve alt şirketi Digital Telemedia'nın satış müdürü Huang Wei ile görüştük. Digital Telemedia, aynı grubun uydu alıcıları konusunda uzmanlaşan kolu aynı zamanda. Uydu alıcıları dışında Jiuzhou kablo TV, karasal TV ve IPTV alıcıları da üretiyor.

"DMB-TH, yani dijital karasal TV, Hong Kong'da zaten baş-



■ Satış müdürü Huang Wei, 2009'da tamamı ST çipsetli yeni Jiuzhou uydu alıcılarının izleyeceği yol haritasını gösteriyor.

lamış durumda 2009 yılında Çin'de de başlamasını bekliyoruz" diyor Huang Wei, daha biz uydu sektörüne yönelik sorularımıza geçmeden "2008 yılında ürünlerimizin %95'i standart tanımlı yayınlara yönelikti, ama 2009'da yüksek tanımlı segment %20 ile %25 arasında bir seviyeye yükselecek."

Jiuzhou, gelişebilecek tüm talepleri fazlasıyla karşılayabilecek yeni modellerle ürün yelpazesini sürekli geliştiriyor. TELE-satellite'in önceki sayısında DTS 6600'ü tanıtmıştık. Dergi yayınlandığı sıralarda çift tunerli DTS 6610'da piyasaya sürüldü ve kısa süre sonra TELE-satellite'de bu modelin de tanıtımını yapacağız.

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Huang Wei yeni modelleri ve çıkış tarihlerini bir tablo üzerinde gösterirken "DTS 6620 de yeni bir ürün ve özel olarak Fransız TNTSAT ve Canal Plus için üretildi" diye belirtiyor. "2009 yılında dahili Conax, Irdeto modüllü uydu alıcılarını Hindistan ve Türkiye için de üreteceğiz." Hatta şu anda bir IPTV alıcısı da üretim aşamasında ama şu anda bunun için "yeterli talep bulunmuyor." Ancak diyor Huang Wei "France Telecom bu konuya eğilimli"

Aslında, prensip olarak tüm uydu alıcıları PVR'dir; çünkü USB bağlantısıyla hepsine bir sabit disk ya da hafıza çubuğu takılabilir. "Her geçen gün yayıncılarla aramızdaki bağlantıları daha da geliştiriyor ve ürünlerimizi onların ihtiyaçlarına göre modifiye ediyoruz." Diye açıklıyor Huang Wei Jiuzhou'nun çalışma stratejisini. Jiuzhou teknik açıdan bakıldığında dahili sabit diskli PVR alıcıları üretebilir; ancak müşterinin talepleri öncelikle göz önüne alınır.



■ Chen Jun, Jiuzhou'nun yazılım mühendislerinden biri. Resimde bir HDTV alıcının yazılımını programlarken görülüyor.

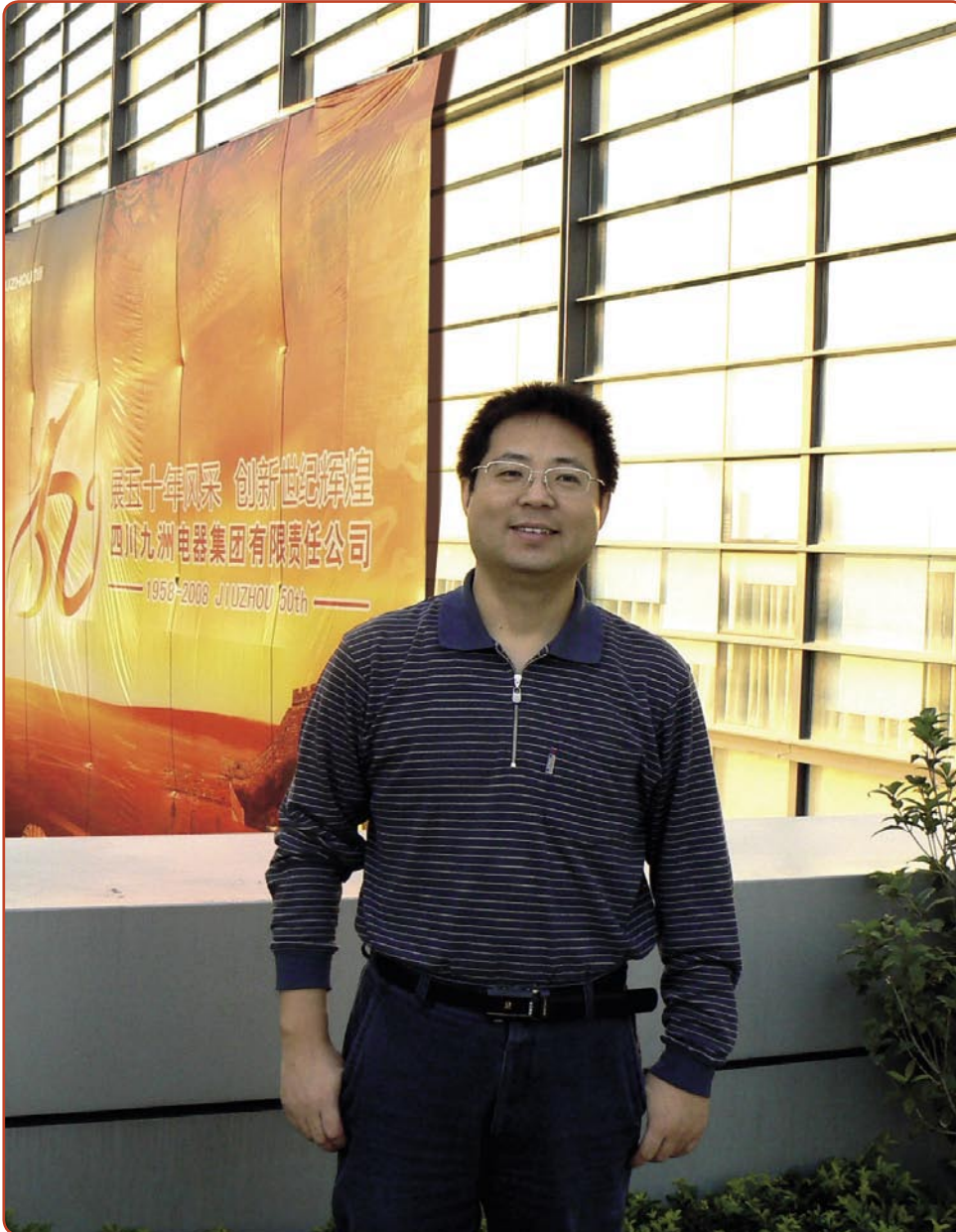
"Shenzen'de 250 yazılım mühendisi-miz bulunuyor ve her yıl 20 ile 30 arasında yeni iş olanağı yaratıyoruz", diye sözlerine gururla devam eden Huang Wei Jiuzhou'nun müşteri taleplerine kolayca cevap verebilmesinin nedenini de böylece açıklamış oluyor. "Örneğin Kombo alıcılar hiç problem değil, aynı şekilde Dolby audio'da kolayca ekleyebileceğimiz bir özellik; çünkü kısa süre önce bunun da lisansını aldık."

En son yeniliklerden biri de ABS - bkz. bu sayıdaki diğer makalemiz. ABS Çin'de DTH yayınları için geliştirilmiş bir yayıncılık standardı ve Çin pazarı için büyük bir gelişme olabilir. "Hala standardın oluşmasını bekliyoruz; ama sanırım 2009'da ABS'nin ortaya çıktığına şahit olacağız," diyor Huang Wei.

Bu gerçekleşirse Jiuzhou, üreteceği alıcıların %20'sinin ABS modelleri olacağını öngörüyor. Bunların da %50'si standart tanımlı ve %20'si ise yüksek tanımlı olacak. Huang Wei, "ayrıca LCD düz ekranlar için dahili sistem olarak 6600 modellerinin üretimini de yapıyoruz." Diye belirtiyor. Yani, jiuzhou ürünleri değişik marka TV'ler içinde gömülü olarak da geliyor.

Uydu alıcılarına ilişkin haberlerin hepsi bundan ibaret değil tabii! Jiuzhou Group içinde bir şirket daha var: Jiuzhou Electronic. Bu şirket, genellikle kablo TV yayıncıları tarafından kullanılan profesyonel uydu alıcıları üretiyor. TELE-satellite

■ Jiuzhou Group Denizaşırı pazarlama müdürü Tang Erman, Jiuzhou Electric binasının yeşil çatısında. Arka plandaki dev poster Jiuzhou'nun 50. kuruluş yılı için asılmış.





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- Pre and Post BER can be displayed with their actual values (setup option)
- Toggle to display Post BER and Carrier to Noise (dB)

- DiSEqC switch commands (available from sub menu)
- Symbol rates 2Msymb to 45Msymb
- Frequency range 950 to 2150MHz
- Input impedance 75 Ohms
- LNB Pass / Fail test function
- LNB short circuit protection
- Satellite cable integrity test
- Upgradeable firmware
- Intelligent internal AC charger 100 to 240 V AC
- Automatic fast and trickle charge modes
- 12 volt in car charger supplied
- USB lead supplied
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- Registered design
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11/2007 sayısında firmanın DVS-2018BS modeline ilişkin bir rapor yayınlamıştı.

Tanıtımını yaptığımız bu model standart tanımlı yayınlar içindi, ihracat müdürü Yonchin Shou yeni model DVS-2018CS'nin HDTV uyumlu olacağını söylüyor. "Artık kablo TV yayıncıları HDTV kanalları portföylerine katabilecekler." Hatta, CI modüller bile gerektiğinde kullanılabilir.

TELE-satellite şu anda bu yeni modele ilişkin bir test raporu hazırlıyor. "Mevcut model MPEG-2 yayınlar için yapıldı, ancak Sichuan ve Pekin'deki 200'ü aşkın mühendisimiz MPEG-4 alıcılar üzerinde çalışmakta" sözleriyle açıklıyor Yonchin Shou önümüzdeki günlere ait planlarını. "Ama şu anda MPEG-4 alıcılarına yönelik talep hala çok az."

50 yıllık geçmişine rağmen Jiuzhou hala yeni modeller için fikirlerin kaynağı bir yer olmayı sürdürüyor. Doğal olarak, Jiuzhou'nun pazarlama stratejisini de merak ettik ve Tang Erman'dan sorularımızı cevaplamasını istedik. Tang Jiuzhou Group'un denizaşırı Pazarlama Bölümü'nün başkanı. Jiuzhou ürünlerinin gelecek günlerde hangi pazarlara doğru yol aldığını sorduğumuzda bize "hem Avrupa hem de Kuzey Amerika'da yükselen talep HDTV alıcılar, Asya'da ise SDTV alıcılar rağbet görüyor." Sözleriyle bizi yanıtladı.

■ Şirketin ürün yelpazesi Jiuzhou show room da görülebilir. Kitty (solda) Linda'nın (sağda) asistanı. Her ikisi de Jiuzhou Group Denizaşırı Pazarlama Departmanında görev yapıyor.



■ Satış müdürü Yonchin Shou yeni DVS-2018CS profesyonel HDTV uydu alıcısını yeni CATV kataloğunda gösteriyor (www.jiuzhoutech.com)

Tang Erman, pazarlama kaynaklarını bu genel trendlere uygun olarak kullanıyor: "2009 yılında 12 fuara katılacağız." Tang Erman 2008 ile 2009 arasındaki farkları şöyle açıklıyor: "Geçtiğimiz yıl 19 fuarda küçük stantlarla yer aldık; 2009'da katıldığımız fuarların sayısı azalacak ama stantları büyüteceğiz."

Hiç şüphesiz Jiuzhou bir reklam ortamı olarak İnternet'in sahip olduğu olanakların da farkında. Tang Erman, reklam büt-

çesine ilişkin şunları söylüyor: "Şu anki reklam harcamalarının %25'i internete yönelik." Genellikle Alibaba ve Global-sources gibi sektörden sektöre (B2B) siteleri tercih ediyorlar. "reklam harcamamızın %15'i TELE-satellite gibi basılı medyaya ve 60'ı da fuar ve sergilere ayrılmış durumda."

Tang Erman bize neden böyle bir dağılım yaptıklarını da açıklıyor. İnternet reklamlarından çok fazla geri dönüş





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almamıza rağmen, bunlardan çok az sipariş çıkıyor." Diğer yandan, fuarlara katılmanın maliyeti oldukça yüksek ve "fuurların toplam süresi de yalnızca birkaç gün." Bunların dışında bir de basılı medya var. "Basılı medyada potansi-

yel müşterilerimizin gözü önünde daha uzun bir süre kalıyoruz. Böylece görüntümüz zihinlere yerleşiyor." Tang Erman, genel pazarlama stratejisinden oldukça memnun ve "ileride büyük bir değişiklik olmadan bu stratejiyi sürdürmeyi düşün-

düklerini" belirtiyor. Tang Erman'ın bölümünde Shenzen'de 20 personel bugüne kadar olduğu gibi 51. yılda da şevkle çalışmaya devam ediyor.

■ Yazılım mühendisi Zhu Xiayong, uydudan gelen gerçek sinyalle bir HDTV prototipini test ederken görülüyor.



Worldwide Satellite in Northern Holland

The Dutch are known for their love of RV's and naturally want to be able to enjoy satellite reception in their mobile homes. A company that sells and installs the necessary motorized antennas is Worldwide Satellite located in northern Holland, in Purmerend near Edam north of Amsterdam.

Dennis van Leeuwen is one of the co-owners of Worldwide Satellite and immediately sets the record straight: "Today only 30% of our sales are related to mobile satellite system installations." Dennis along with his brother and partner Rob founded the company in 1995. "Back then we operated four

video rental stores", explains Dennis and then went on, "but business continued to get worse and worse so we switched our business over to satellite equipment."

It was an obvious move considering that Dennis is an amateur radio

enthusiast and was already interested in satellites back in 1989 when ASTRA started. "Only if you have fun with what you do can you be successful", suggests Dennis.

At first the two brothers installed satellite systems only for private end-users but after a few years that changed. Dennis explains: "We began

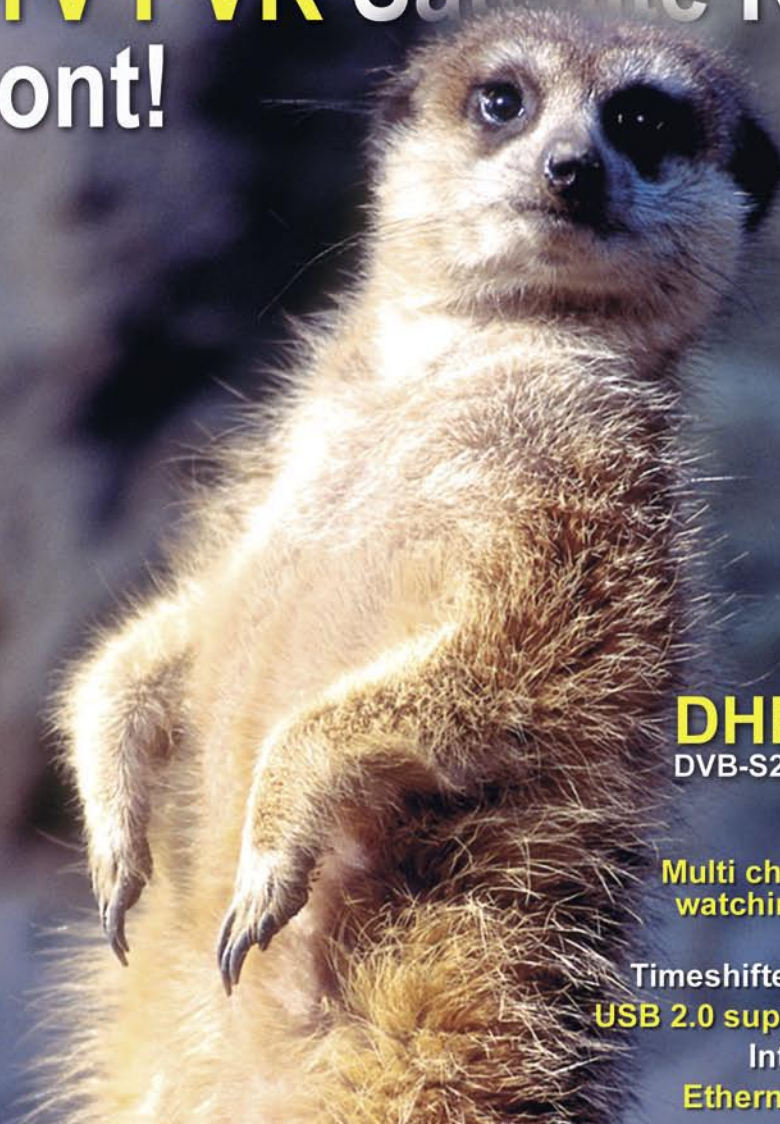
to install satellite systems for sporting events in many of the sports bars in Amsterdam and this makes up about 40% of our sales today."

Installations for professional customers is not only more interesting than those for private end-users, reveals Dennis, "It also is more challenging since in many cases new solutions have to be found." Their professional customers include not only sports bars but also professional programming providers above all in the Hilver-

The two brothers Dennis and Rob van Leeuwen purchased this section in Purmerend's industrial park. It is made up of two floors totaling 400 sq-m and comes with a sales area, a stockroom and large garage to install motorized systems on RV's. A customer's RV is pictured here.



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Dennis van Leeuwen in Worldwide Satellites sales and display room. One of their hot products is motorized satellite systems for RV's.



Rob van Leeuwen is seen here standing in front of a demonstration rack with receivers from various manufacturers. Ron and Dennis are brothers and operate Worldwide Satellite together.

sum region. "We also took part in satellite systems on oil platforms", explains Dennis.

Rob provides us with some insight into the products that are used: "In The Netherlands, multiple satellite reception is in high demand, especially ASTRA at 19.2 east and 28.2 east as well as HOTBIRD at 13 east. The best solution for these satellites is a Multi-LNB dish." Since The Netherlands is covered by strong signals, a 90cm diameter antenna would do the job. "On the professional side, we supply 120cm dishes", comments Rob, "We don't use larger antennas." Since Worldwide Satellite's customers are sophisticated, they only offer quality receivers such as those from Topfield and Arion.

Worldwide Satellite does not have any employees. "We used to use freelance installers", comments Dennis about the past, "but more often than not they were unreliable." Today, during the week Dennis and Rob are out on the road installing satellite systems while on Fridays and Saturdays their store is open for customers. "It can be a lot of work for us", says Dennis, "but it makes us happy."



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Microdalga Filtre Şirketi Yüksek Kaliteli Özel Filtreler Made in USA

Evlerimizdeki uydu alıcıları gökyüzünden sadece TV, Radyo ve veri sinyallerini almazlar. Bu sinyaller dışında parazite yol açan pek çok istemediğimiz sinyali de yakalarlar. Parazitler, izlediğimiz yayının kalitesini bozarak aldığımız sinyalin kalitesinin düşmesine neden olurlar. ABD merkezli uydu filtreleri üreticisi MFC bu tür parazitleri önlemek amacıyla çeşitli filtreler üreten bir şirket.



■ Carl Fahrenkrug Microdalga Filtre Şirketinin başkanı ve CEO'su.



■ Sandy Nelepovitz Kıdemli Pazarlama ortağı ve satış ekibini yönetiyor.



■ Scott Parsel, Satış Direktörü, MFC'nin ulusal ve uluslar arası satış ağını yönetiyor ve şirket için sürekli yeni fırsatlar arıyor.

"Şirketimiz, 1967 yılında burada, New York'un yukarı mahallerinde kuruldu." Diyor Sandy Nelepovitz. Kendisi MFC'nin şirketin pazarlamadan sorumlu kıdemli ortağı. Bir anlamda şirketin ruhu ve kalbi. 30 yıldır burada çalışan Sandy, bize şirket tarihiyle ilgili bilgiler veriyor. "MFC'nin kurucusu Glyn Bostick, bu işe evinin garajında başladı. O sıralarda sadece amatör telsizlere yönelik filtreler ürettiyorduk. 1973 yılında bu binaya taşındık. Taşındığımızda burada başka kiracılar da vardı. Biz

binanın yalnızca bir kısmını işgal ediyorduk. 1983 yılında işlerimiz sürekli büyüdüğü için en sonunda 3700 metre karelik yapının tamamını satın aldık."

Satış müdürü Scott Parsell, neredeyse 20 yıldır MFC çalışanı. Tarihleriyle ilgili o da şunları söylüyor, "Telekom endüstrisinde meydana gelen teknolojik değişimler ve ekonomik alt üst oluşlara rağmen MFC hep ayakta kalmayı başardı. Bu esas olarak, çok çeşitli filtreler sunmamızdan kay-

yol açıyorlar. Sonuç olarak 1. ve 2. seviye IF filtreleri işlevsiz kalıyor ve bu sinyallerden kurtulmanın tek yolu daha feed üzerindeyken bu sinyalleri bandpass ile elimine etmek oluyor. Scott devam ediyor, "standart bant (500 MHz), geniş bant (600 MHz) ve süper geniş bant (800 MHz) bandpas filtreleri sunuyoruz. Özel uygulamalar için özel olarak ayarlanan filtrelerimiz de var. Bu sayede dünyanın her yerine, oraya uygun C-bant modeli gönderebiliyoruz."

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Her şey tek bir çatı altında yönetiliyor: üretim binanın sol kısmında, idari bürolar ise sağda. MFC, New York'un yukarı mahallerinde East Syracuse'de faaliyet gösteriyor.

naklandı. Neredeyse tüm Telekom pazarı segmentlerine hitap ediyoruz: Satcom, CATV, Yayıncılık, Kablosuz ağlar vs.) Bu ürün çeşitliliği ile kaderimizi tek bir ürün grubuna bağlamamış oluyoruz. Ayrıca, yıllar önce gerçekleştirdiğimiz üretim teknikleriyle birlikte üretim verimliliğimizi de artırdık. Böylece MFC'nin rekabet gücü de artmış oldu.

MFC'nin tam olarak ne ürettiği konusuna gelince, Scott, MFC'nin en popüler ürünlerine atıfta bulunuyor, "C-band bandpas filtrelerimizi dünyanın her yerinde C-bant antenlerinde kullanılıyor. Bu filtreler LNB ile feed arasına takılarak almatk istediğiniz bandın üstünde ve altındaki sinyalleri filtreliyor."

Her ne kadar istenmeyen sinyaller, izlenilmesi istenilen bandın dışında da olsa, güç seviyeleri o kadar yüksek ki, LNB'yi dolduruyor ve kesik kesik ya da sürekli parazitlerle tüm C-bant üzerinde parazite

Böyle bir filtreye hangi koşullarda ihtiyaç duyulur? Scott bununla ilgili bir iki örnek veriyor: "C-bant operatörlerinin ilk karşılaştığı parazitler ticari uçaklar ve havaalanlarından sekip gelen altimetre sinyalleriydi. Ancak bu daha çok havaalanı yakınlarındaki C-bant antenlerinde karşılaşılan bir durum. Bundan başka, askeri gözlemlerde kullanılan yüksek güçlü radar sinyalleri (örneğin AWACS uçakları) çok daha fazla C-bant antenlerinde sorunlara neden oldu. 9/11 saldırılarıyla birlikte bu faaliyetlerin artmasıyla birlikte ABD içinde neredeyse bütün C-bant antenleri tüm dünya gibi bundan etkilenir oldu. Özetle radarlar C-bant operatörlerinin karşılaştığı parazitlerin baş sorumlusu olarak ortaya çıkıyor."

"Daha yakın zamanlarda," diye ekliyor Scott, "C-bant parazitlerine yol açan yeni bir kaynak ortaya çıktı - - Wimax". Dünyanın farklı bölgelerinde Wimax (3.3-3.8) GHz aralığında faaliyet gösteriyor. Bu



Eric Logan, mühendis ekibinden. Filtre tasarımlarını müşteri taleplerine göre, doğrudan bilgisayardan değiştirebiliyor. MFC, askeri amaçlı pek çok filtre de üretiyor. (örneği X-bant)



■ Eğer işler karmaşıklaşırsa, mühendis ekibi bir araya gelerek özel çözümler üretiyorlar. Paul Mears (solda) Başkan Vekili, Bob Paul (ortada) Baş mühendis ve Mike Wise (sağda) Mekanik mühendis.

remiz ihtiyacınız olan şey değilse, yalnızca kargo ücretini ödeyerek geri gönderebilirsiniz." Ama, müşteriler ne tür bir filtreye ihtiyaç duyduklarını ürünü satın almadan

önce bildikleri için genellikle para-iadesi seçeneğini pek kullanmıyorlar.

Peki, ne tür bir filtreye ihtiyaç duyduklarını tam olarak bilmedikleri zaman ne oluyor? Sandy, şunları söylüyor: "Satış personelimiz, müşterilerimizin karşılaştıkları problemleri bilen teknik birikime sahip kişilerden oluşuyor, onları kendilerine uygun filtreyi seçmeleri konusunda yönlendiriyorlar." Ama bu yardıma rağmen satın aldığı filtreden emin olamayan müşteriler için para iade garantisi her zaman kullanabilecekleri bir seçenek olarak bekliyor.

Geçen süre zarfında MFC uydu dünyasında kendisine ilginç bir Pazar sahası yaratmış. Sahip oldukları bilgi ve yüksek kaliteden ödün vermeyen tutumlarıyla, her türlü müşterinin ihtiyaçlarını kolaylıkla karşılayabiliyorlar. Eğer parazit probleminiz varsa MFC ile doğru çözümü bulacağınızdan hiç kuşkunuz olmasın.

Wimax sinyalleri süper geniş C-bant sinyallerini (3.4-4.2 GHz) bozabiliyor; çünkü aynı frekans aralığını paylaşıyorlar. Bu durumlarda, C-bant operatörleri istenmeyen Wimax sinyallerinden kurtulmak için bandpas filtreleri kullanmak zorunda. Ancak filtre aynı frekans aralığındaki bazı sinyalleri elemeye çalıştığı için C-bantın düşük bant sinyalleri de bundan etkilenebiliyor.

Buna karşın, C-bant operatörleri C-bant sinyallerinin bir kısmından vazgeçmeyi göze alabilir, çünkü böylece geri kalan sinyal aralığında kaliteli ve net bir sinyal alıyorlar. Wimax nispeten yeni bir gelişme olduğu için, Scott, C-bant operatörlerinin bu konuda ki ihtiyaçlarının zamanla daha da artacağını düşünüyor.

"Bunun dışında, TRF'ler (Transmit Reject Filters) bir çok Ku-band alıcısında da ihtiyaç duyulan unsurlar. Bu özellikle yukarı sinyal ve aşağı sinyal bağlantısının tek bir antenle yapıldığı durumlar için geçerli. TRF, feed'in sinyal alma (10.7-12.75 GHz) yanına yerleştirilerek, mevcut güçlü aktarma sinyallerini (13.75-14.5 GHz) elimine ediyor," diye açıklıyor Scott.

MFC Ka-bant filtreleri de üretmesine karşın "Ka-bant filtreleri için talep oldukça düşük," diye belirtiyor Scott, "çünkü bu frekans bandındaki operasyonlar bu noktaya sınırlı."

Sandy Nelepovitz şirket hakkında başka bilgiler de veriyor, "En büyük müşteri grubumuz ise yurtdışında, çünkü MFC olarak kablo TV operatörleri için CATV filtreleri de üretiyoruz." Sandy daha sonra sözlerine şöyle devam ediyor, "İhracat rakamlarımız 1992'den beri satışlarımızın %5'i ile %7'si arasında seyretti. Ancak ABD dışında uydu filtrelerine duyulan ihtiyacın artmasıyla birlikte bu satış rakamlarının yükselmesini bekliyoruz."

Toptan veya perakende, isteyen herkes MFC'den doğrudan filtre ısmarlayabilir. "Standart filtrelerde 30 gün para iade garantisi bile veriyoruz." Diyor Sandy, "filt-



■ Ruth Arace, İnsan Kaynakları müdürü. MFC personeli hakkında bilgi veriyor: "6 mühendisimiz, 36 imalat işçimiz ve 11 idari personelimiz bulunuyor."



■ CNC makinesinde Bruce Sentoff (solda) ve Dale Newton (sağda). Pek çok model filtrenin gövdeleri burada üretiliyor. "Makineleri akşamdan programlıyoruz, onlar akşamüzeri otomatik olarak çalışıyor." Diye anlatıyor işleyişi Bruce Sentoff

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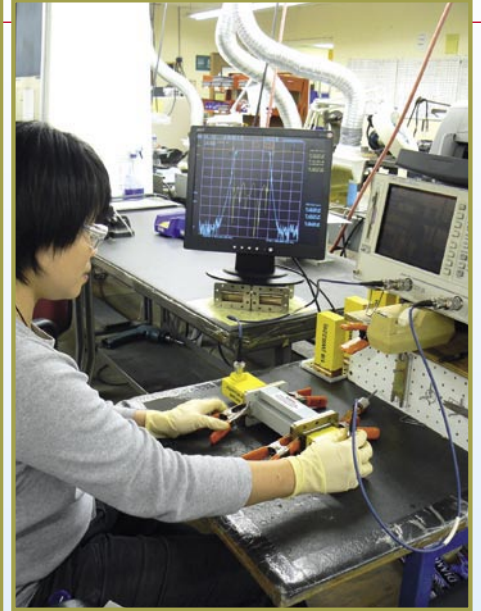
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■ Dale Newton, üretim safhalarını gösteriyor: bir alüminyum külçesinden (solda) filtre, tüm konektör ve vida bağlantılarını hazır olarak meydana getiriliyor.



■ Filtredeki sinyal alma probunu Vertell Brantley yerleştiriyor. Kullanılan zamkın üç saat beklemesi gerekli. Filtreler bu odada havadan yalıtılmış olarak tutuluyor. Daha sonra, filtreler hava geçirmez mühürlerle kapatılıyor.



■ Üretim aşamasında her şey düzgün yapıldı mı? Thuy Naylor son bir testle filtrelerin gerekli şartlara sahip olup olmadığını, bir şebeke analizörüne bağlayarak kontrol ediyor ve performanslarını gözden geçiriyor.



■ Burada filtre mekanik olarak monte ediliyor. MFC görevlisi Melisa Benc, filtreyi havaya firına hazırlıyor...



■ Bill Adamo Kalite Kontrol Grup Lideri. Bize hava geçirmez filtre mühürünün basınç testini gösteriyor. "Filtre buraya yerleştiriliyor ve 5 PSI basıncında havayla test ediliyor." Böylece konektör ve kabinin hava geçirmez olup olmadığını kontrol ediyorlar. "En küçük bir sızıntı bile zamanla neme yol açabilir ve filtrenin karakteristiğini değiştirebilir," diyor Bill Adamo, "filtrelerimizi %100 test ederiz!" Tüm müşteriler MFC filtrelerinin yüksek kalitenin tüm gereklerini yerine getirdiğinden emin olabilirler.



■ MFC neredeyse her şeyi kendisi yapıyor: tamamlanmış filtreler burada koruyucu bir boya ile kaplanıyor.



■ ...Gerçek lehimleme işlemi, filtrelerin içinden geçirildiği bu lehimleme firında yapıyor.



■ Müşterilere doğru ilerleme yanında: tamamlanmış ve tamamen test edilmiş filtreler paketlenip dünyanın her tarafındaki müşterilere gönderiliyor.



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ABC BIZNIS –Gerçek Savaşçılar

Kendi markaları OPENSAT ile Avrupa uydu alıcı pazarının zirvesine oynayan genç bir ekip. ABC BIZNIS, henüz 2004 yılının sonlarında kurulmuş bir şirket olmasına rağmen, kısa sürede uydu alıcısı piyasasında büyük bir isim olmayı başardı. Maalesef, başarıya giden yolda şirket kurucusunun 2008 yılında hayatını kaybetmesi onlar için büyük bir kayıptı. ABC BIZNIS'in bu trajedinin üstesinden gelmeyi başarabilmesi için gerçekten olağanüstü bir çaba harcaması gerekiyordu.

■ Veronika Rešetková, sadece birkaç aydır ABC BIZNIS'in direktörlüğünü yürütüyor. Bu şirketi kuran ve kısa süre önce kaybettiği oğlu Erik'in resmi masasının baş köşesinde. ABC BIZNIS'i büyük bir oyuncu yapma isteğinin arkasındaki esas motifte O zaten.

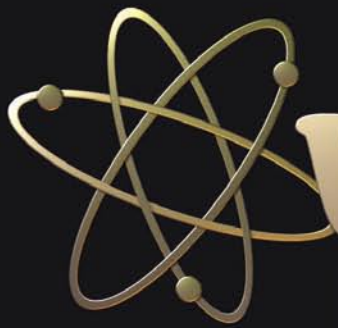
ABC BIZNIS, bugün Slovak pazarına antenler, LNB'ler, koaksiyel kablo ve uydu alıcıları satan büyük bir toptancı. ABC BIZNIS, Üretici kimliği ile ise, kendi markası OPENSAT ile uydu alıcıları ihraç eden bir firma.

2007 yılının başlarında şirket, OPENSAT markasıyla pazarladıkları ilk uydu alıcısının üretimine başladı. Dört farklı SD uydu alıcısı modeliyle başladıkları üretimi 2007 yılında ilk HD alıcısı ve daha sonra 2008'in ortalarında ikinci HD alıcısını üreterek sürdürdüler. TELE-SATELLİTE' in önceki sayısında bu alıcının resmi sayfalarımızda yer almıştı.

Peki, kurucularının böyle aniden aralarından ayrılması onları nasıl etkilemişti acaba? Bunun yanıtını bulmak için yeni direktör Veronika Rešetková tarafından oluşturulan genç ekibin, o günden sonra yaptıklarına bakmak faydalı olabilir. "ABC BIZNIS'in kurucusu oğlum Erik'in ölümünün ardından şirketin yönetimini ben üst-



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■ Pazarlama menajeri Veronika Rešetková, şirket kurucusu Erik'in kardeşi ve Veronika Rešetková'nın kızı. ABC BIZNIS'in reklam stratejilerini ve reklam tasarımlarını oluşturuyor. "Çeşitli tonlardaki yeşil ve siyah, şirket renklerimiz oluşturuyor."



■ ABC BIZNIS şirket binası: depo önde, ofisler ise arkada. Ama hepsi bundan ibaret değil diyor pazarlama menajeri Veronika Rešetková: "başka bir firmadan kiraladığımız ilave depo sahaları var."



■ Muhasebe departmanı ve muhasebe menajeri Zelmira Remenova (solda) yardımcısı Martina Ondrusova (ortada) ve sistem yöneticisi Kenji Takahashi



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lendum." Veronika burada durarak "Ortak aradığımızı ya da başka bir şirketle birleşeceğimize ilişkin söylentiler var. Bunların hepsi saçmalık!" diyor.

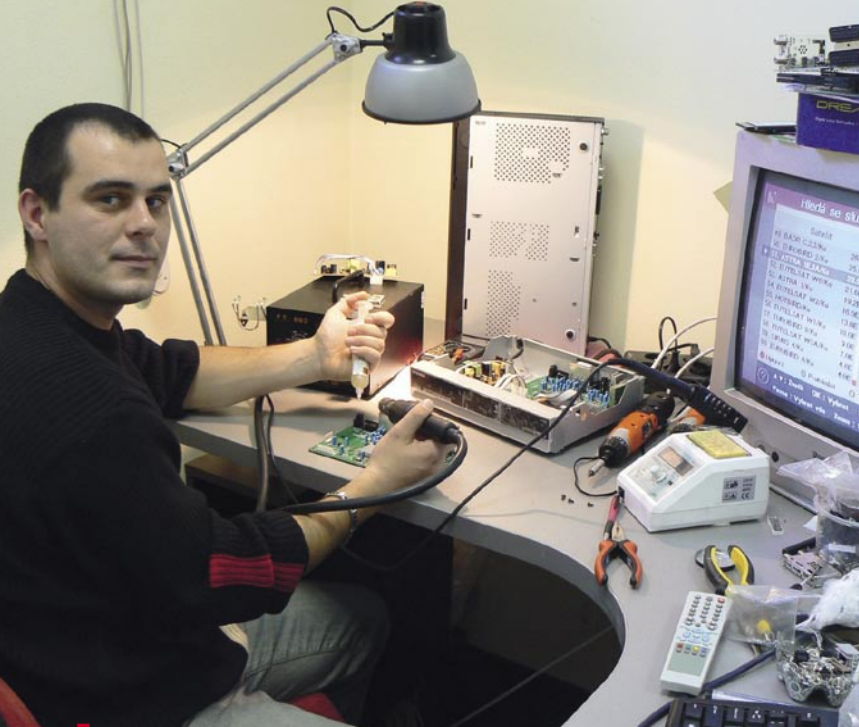
Onun tek başına yola devam etmesini sağlayan iki önemli destekten birisi şirket vizyonunu %100 paylaştan 14 kişilik genç ekibi; diğeri ise teknoloji sektöründe sahip olduğu büyük tecrübe. Erik'in küçük kız kardeşinin adı da Veronika. Bize şirketin ilk kuruluş günlerini hatırlatıyor: "Erik daha 13 yaşındayken bile babasına işlerinde yardım ederdi." Profesyonel kariyerine de babasının şirketinde başladı; ama bir süre sonra kendi fikirlerini hayata geçirmek istedi. Asıl istediği kendi markasını yaratmaktı. OPENSAT böyle ortaya çıktı. ABC BIZNİZ'in bugün satın alma

■ Depoda ürünler sevkiyat için hazırlanıyor. Depo müdürü Martin Patay forklifti kullanıyor. Lukas Michalik (sağda) sürücülerden biri ve Jefferson Kenji Takahashi (solda) yüklenmek üzere olan bir alıcıyı kontrol ediyor

■ Satın alma menajeri Karolina Štreicherová tedarikçilerle sürekli temas halinde



■ ABC BIZNIS'den ürün sipariş eden herkes satış menajeri Hana Danišová ile temasa geçer. Mükemmel İngilizce konuşuyor ve Avrupa'nın her tarafından gelen müşteri taleplerine profesyonel destek sunuyor. Doğal olarak o da ABC BIZNIS'in başarıyı yakalayan modelleriyle gururlanıyor. "OPENSAT X7000 satış rekortmenimiz – uydu alıcısı siparişlerimizin %40'ını bu model oluşturuyor." OPENSAT X7000CI ve X7700 de %25'lik bir paya sahip. Geri kalan %10'u ise XT9500 ve XT9500HD paylaşıyor.



■ En kaliteli ürünler bile bir noktada tökezleyebilir. Peter Ciljak ABC BIZNIS'in iki teknisyeninden biri. Resimde hatalı bir anakartı tamir ederken görülüyor.



■ IT menajeri Alexander Makro şirket altyapısından sorumlu ve ayrıca ABC BIZNIS müşterilerine destek sunuyor.

müdürü olan Karolina Štreicherová ile bu amaçla bir araya geldi.

Yaratıcı fikirleri ve bunları piyasanın istediği şekilde sunabilme becerisi sayesinde başarıyı yakalaması zor olmadı ve Slovakya'da OPENSAT markasıyla iç pazara dönük üretim yapmaya başladı. Kısa sürede Slovakya'da markasını kurumsallaştırdı ve 2007'de dış pazarlara açılmak için fırsat kollamaya başladı. Bunun ilk adımı Çek pazarıydı. Kısa sürede ihracat rakamları satışların %40'ına ulaştı ve 2008

yılında OPENSAT marka uydu alıcılarının %50'si yurt dışı pazarlara ihraç edilmeye başlandı.

Başından beri ekibin bir parçası olan Karolina Štreicherová, OPENSAT'ın değişik pazarlara yönelik ihracatı hakkında bize şu bilgileri veriyor: "Hemen yanıbaşımızdaki komşumuz Çek cumhuriyeti OPENSAT ürünlerinden en büyük payı alıyor ki bu da neredenye %50'ye eşit, onun ardından Almanya ve İsviçre %20 ile geliyor; geri kalan %10 ise değişik Avrupa ülkelerine gidiyor."

ABC BIZNIS şu anda İspanya ve Portekiz gibi ülkeleri gözüne kestirmiş durumda. Bu ülkelerdeki paylarını büyütme için dağıtımclar arıyorlar. "Bunun dışında Avusturya ve Benelüks ülkeleriyle de ilgileniyoruz. Diye ekliyor Karolina "Tabii ki komşumuz Macaristan ve Ukrayna'da da daha fazla dağıtımclarımızı olmasını arzularız."

Veronika Rešetková, bu sözlerinin ardından kendilerini cazip kılan asil özelliklerini söylüyor: "Ürünlerimizi ücretsiz gönderiyoruz!" Bunu sağlayan ise ABC

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BIZNIS'in sahip olduğu Mercedes Benz Sprinter transporter araçlarından oluşan filo. Bu filo Avrupa içinde sürekli hareket halinde. "Asgari satın alma limitimiz de yok." Diye ekliyor Veronika, "çok az sayıda siparişleri bile sevkiyat ücreti almadan gönderebiliyoruz." Bu, küçük çaplı mağazalar ve dağıtımıcılar için çok önemli bir şey. "Küçük işletmelere, büyümeleri için fırsat sağlıyoruz ki biz de onlarla birlikte büyüyebilelim." Veronika'nın bir kozu daha var. Bunu da satış müdürü Hana Danišová'dan öğreniyoruz. "Tüm ürünlerimiz genellikle iki yıl garantiyle satılıyor!"

Siz bu yazıyı okurken yeni modeller raflardaki yerlerini almış olacak. Satış müdürü Hana Danišová yeni modelleri sıralıyor. "Tek akıllı kart okuyucusu olan OPENSAT 3000 CR PVR, sonra kart okuyucu dışında bir modül yuvası da olan OPENSAT 3000 CRCI PVR modellerimiz var. Bunun dışında bu iki modelle aynı özelliklere sahip; ama isimlerinden anlaşılacağı gibi HD olan OPENSAT 3500 HDMI PVR ve OPENSAT 3500 CI HDMI PVR isimli modellerimiz var.

Her ne kadar sizin de kabul edeceğinizi gibi şirket kurucusunun trajik ölümü önemli bir kayıp olsa da bütün ekip Veronika Rešetková etrafında daha sıkı kenetlenmiş görünüyor. Hepsini uyum içinde çalışıyor ve herkes kendine düşen işi başarıyla yaparak tüm işlerin aksamadan yürümesini sağlıyor. Veronika, başarılarının sırrını kardeşi Erik'e gönderme yaparak açıklıyor: "Erik'in ulaşmak istediği hedefi biliyoruz ve hep bu hedefi aklımızda tutarak çalışıyoruz."

ABC BIZNIS, 2004'ten beri roket hızıyla gelişiyor. İlk başlarda toplam içinde %0.5 Avrupa'nın payı 2008'de %40.5'e yükselmiş.



Bir grup fotoğrafı: İki Veronika (ortada anne, yanında kızı) diğer tüm çalışanların neredeyse tamamıyla birlikte. Ekibin yaşı 30 ile 35 arasında değişiyor.

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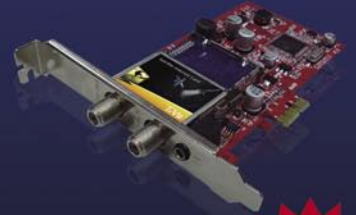
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Mennyfix

■ Manfred Weller set up his shop in the Mar-Ola apartment complex right in the middle of the tourist capital Las Americas in the town of Los Cristianos.

Obviously, the company name Mennyfix is a play on words: "many fix", the guy who can fix anything. Menny is the nickname for Manfred Weller who moved to Tenerife from Germany 21 years ago and began selling and installing satellite systems.

Manfred Weller, who comes from Cologne/Germany, arrived in Tenerife in the Canary Islands in 1987. He started as a time share salesman: tourists would purchase ownership in a vacation apartment for a certain time each year. But, as an electrician by trade, he soon began to miss working with his hands and in 1989 joined a local satellite company installing dishes. After a few years he decided to go out on his own and in 1994 founded his own company Mennyfix right in the middle of the tourist hotspot Playa Las Americas in southern Tenerife.

Naturally, that was a clever move since on the one hand, long-term tourists wanted to watch their TV from home, and on the other hand digital TV started peaking in 1994. "I imported quite a few D-boxes into Tenerife", remembers Manfred, "Back then BBC Prime still existed and thus our customers were the English." With five employees he installed mostly 100cm antennas: "In our first year it was nearly 2000 systems!" commented Manfred proudly.

But that kind of success did not continue, it didn't take too long to reach the saturation point. This made it necessary for Manfred to look for other types of customers: "Today we install satellite systems mostly for sports bars; this makes up roughly 60% of our sales. The remaining 40% continue to be with private customers."

Manfred, who married a nice English girl, states that 65% of their customers are from Great Britain. "The English are crazy about sports!" And Manfred knows how to deliver their sporting events and from what satellites to get them from. 60% of the satellite antennas his company installs are 1.1 meters in diameter, 30% are 3.0-meter offset dishes for ASTRA 2 reception and 10% are the smaller 60cm antennas for the reception of the Showtime package on NILESAT. "Every soccer game can be seen there", says Manfred. He really loves that programming provider from Dubai.

Manfred is skeptical about the future: "In ten years I believe everything will go through the Internet." He suggests that two-way Internet via satellite will have a chance, "but

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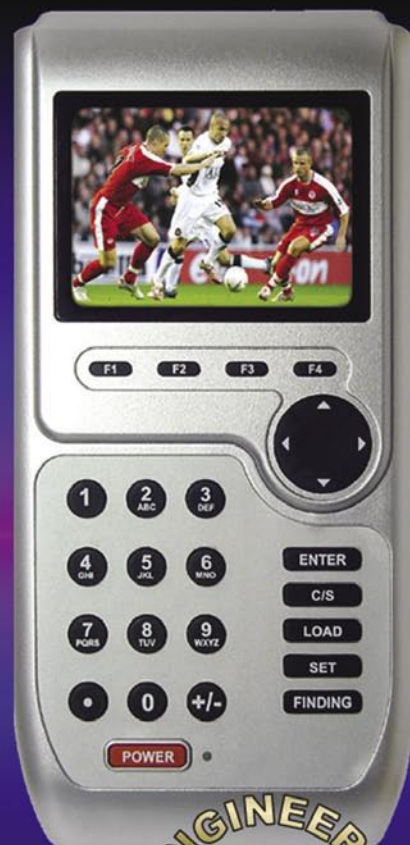
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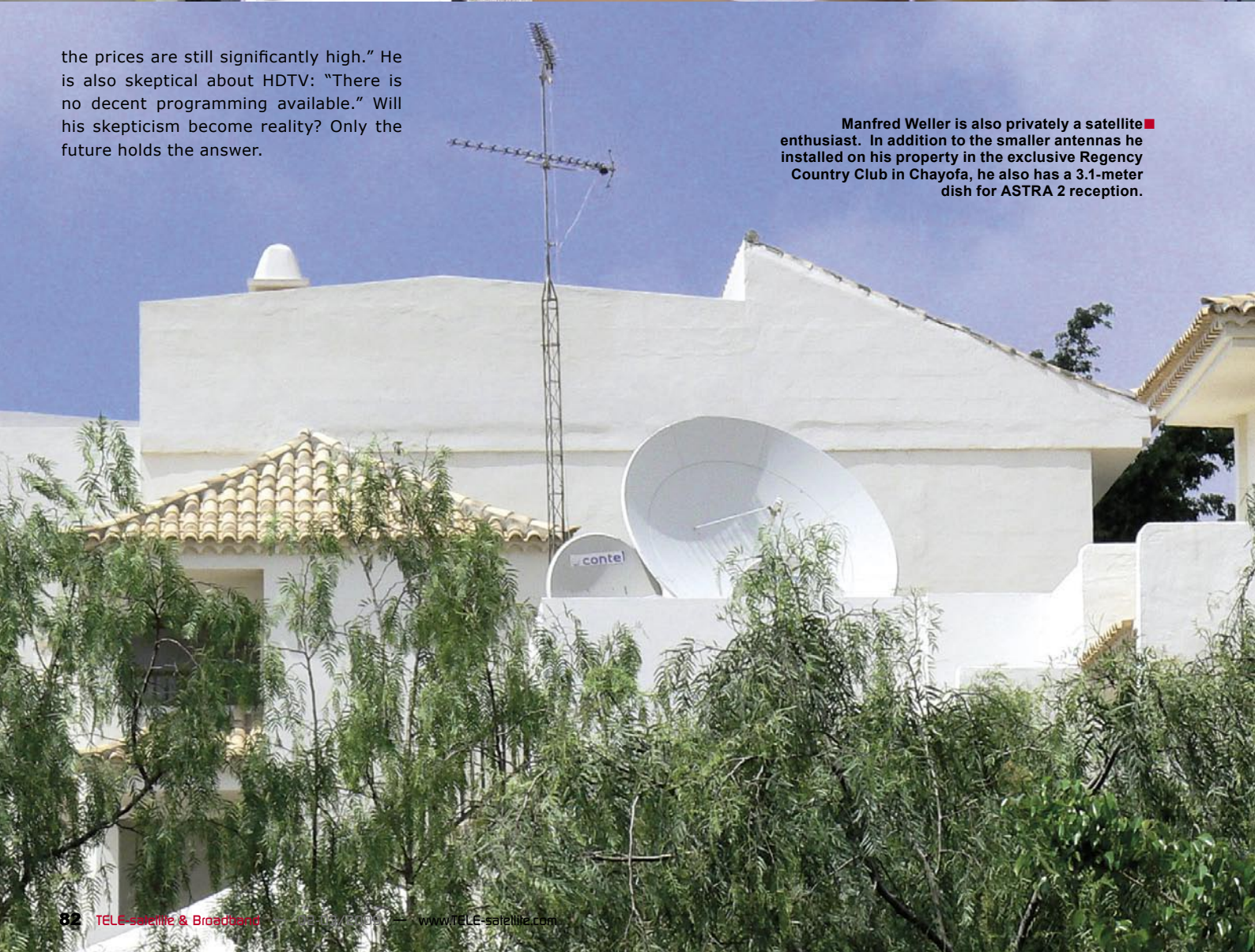
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Manfred Weller, nicknamed Menny, speaking with customers. After hanging up his landline telephone, it doesn't take long for his mobile phone to ring. He can speak with his customers fluently in three languages: German, English and Spanish. He has been reading TELE-satellite regularly for the past 14 years.

the prices are still significantly high." He is also skeptical about HDTV: "There is no decent programming available." Will his skepticism become reality? Only the future holds the answer.

Manfred Weller is also privately a satellite enthusiast. In addition to the smaller antennas he installed on his property in the exclusive Regency Country Club in Chayofa, he also has a 3.1-meter dish for ASTRA 2 reception.



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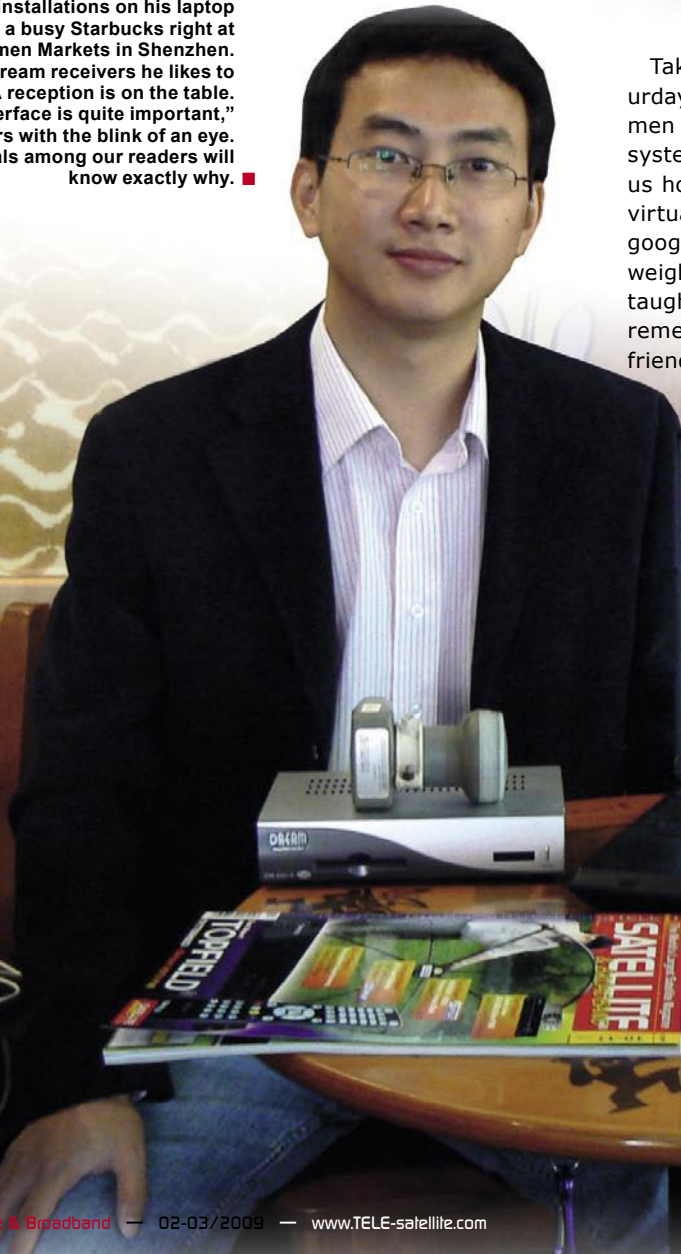
Shenzhen Satellites

As of now private satellite reception is still illegal in China, but in actual fact you can always find a loophole if only you look hard enough. Satellite installers advertising their services in English and setting up systems for foreigners, for example, don't have much to fear from the authorities.



■ Laoge works on setting up a reception system with three LNBs.

Laoge shows us a picture of one of his first installations on his laptop computer in a busy Starbucks right at the Dongmen Markets in Shenzhen. One of the Dream receivers he likes to use for AGILA reception is on the table. "The LAN interface is quite important," Laoge whispers with the blink of an eye. Professionals among our readers will know exactly why. ■



Take Laoge, for example. We met him on a busy Saturday at a Starbucks right in the helter skelter of Dongmen Markets in Shenzhen. He has been installing satellite systems for foreigners in Shenzhen since 2006 and tells us how everything started: "It was back in 2006 when I virtually stumbled across the www.tv88.cn website while googling." The site is run by Daxue, one of the heavyweights of the satellite community in southern China. "He taught me everything about satellite reception," Laoge remembers. The two got in touch and soon became friends. One day a Filipino living in Shenzhen approached



■ Thanks to his skills as software engineer Laoge has written a little application for recording the video stream of the Dreambox. He calls it Dreambox Recorder v1.0 and offers it for download at tv88.cn/Soft.

Daxue because he wanted to have a satellite system set up at his home. Daxue hardly speaks any English, however, and forwarded this request to Laoge. "This Filipino became my first customer," Laoge tells us with pride. And his first job was to install a 60 cm antenna for reception of AGILA at 146° East.

Laoge was commissioned to set up five more systems in 2006, one year later the number of jobs had risen to 15 and in 2008 Laoge installed a total of 32 antennas. "But it's still only a hobby. I'm a software engineer by profession," Laoge explains and adds that "I charge 2000 RMB (approx. 200 EUR) for each installation – and this includes antenna,

LNB and receiver." Where does Laoge source his components? "I buy them at auctions on www.taobao.com," Laoge tells us. Taobao is something like the Chinese version of e-bay.

90 percent of Laoge's customers originally come from the Philippines and most of them live in the Nanshan area of Shenzhen. The AGILA offering, however, includes more than 30 English language channels and therefore might be interesting for foreigners with other nationalities as well. The following satellites can also be received quite easily in Shenzhen: APSTAR 1 at 138° East, APSTAR 2R at 76.5° East and ASIAsat at 122° East.



■ Daxue (left), one of the more known satellite enthusiasts in China, and Laoge (right) meet at a satellite exhibition.

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EUROPE

ASTRA WITH 55 HDTV CHANNELS

The number of HD channels broadcast via the Astra Satellite System has increased significantly, reaching 55 in October 2008, an increase of 13 channels since August. With 55 HD channels broadcast from its main orbital positions, Astra represents the most important HDTV platform in Europe. The SES group, including SES Astra, SES Americom and SES New Skies, today transmits a total of 137 HD channels.

SPACE SYSTEMS/LORAL TO PROVIDE SIRIUS 5 SATELLITE

Space Systems/Loral (SS/L) has been awarded a contract to manufacture a new spacecraft for Luxembourg-based satellite operator SES. Designed to be located at 5 degrees East, SIRIUS 5 is configured with two Ku-band beams, one serving customers in the Nordic and Baltic countries and the other serving Sub-Saharan African. It has a total of 36 active Ku-band transponders available. The spacecraft also has two C-band beams, one with Global coverage and one with Hemispheric coverage, which can be operated with up to 24 active C-band transponders. The satellite design also includes a Ka-band uplink capability. The satellite is scheduled for delivery in 2011 and is designed to provide service for more than 15 years.

SES LAUNCHES ASTRA 1M SUCCESSFULLY

SES ASTRA's new ASTRA 1M satellite was successfully launched on November 8 from Baikonur to the orbital position 19.2 degrees East. It will be brought into its final orbital position in few weeks and will be made commercially available in January 2009 after extensive in-orbit testing. It will deliver DTH services including HDTV to Continental Europe.

MTV TO LAUNCH HDTV SERVICE WITH GLOBECAST

MTV Networks International has selected GlobeCast for the recent launch of its first international HDTV service dedicated to music and kids. MTVNHD carries music based and kids' programming that is original, acquired and from MTVNI's multi-branded library. The 24-hour English-language HDTV service will initially be available in Denmark, Finland, Norway, Poland and Sweden, with plans to expand to France, Germany, the Netherlands, Portugal, the United Kingdom, Argentina, Brazil, Chile, Colombia, Mexico and Venezuela in the coming months.

BULGARIA

MEGALAN SELECTS SECUREMEDIA FOR IPTV SERVICE

ISP Megalan Networks has selected content security from US firm SecureMedia to secure its new triple-play service including IPTV which it has launched in Sofia. Megalan Networks has selected SecureMedia's Encryptonite ONE System to protect its new triple-play service, delivered over its fibre-to-the-building (FTTB) network with over existing 50,000 subscribers. The Bulgarian ISP also reportedly plans to rollout the service to other major population centres in Bulgaria in the future.

CROATIA

T-HT WITH 100,000 SUBSCRIBERS FOR IPTV SERVICE

T-Hrvatski Telekom (T-HT) has announced its client base has increased to 100,000 for its MAXtv IPTV product. This represents a rise of 40% since the end of June this year. MAXtv, which launched in September 2006, includes more than 100 local and international TV channels and a VOD library.

FRANCE

PRIVATE MEDIA SIGNS IPTV CONTENT DEAL WITH VIRGINMEGA

Adult content provider Private Media Group has signed an agreement with Virginmega France for the supply of content for distribution on the PC platform of Virginmega.fr and its IPTV operator partner. Private's content is currently available in 18 European countries via 35 IPTV providers covering a subscriber base of 7.3 million. Private's presence in the European IPTV market represents close to 75% market coverage.

FOUR FRENCH TV CHANNELS GO HDTV

Four major French terrestrial HD channels launched in October, joining Canal Plus HD. TF1, M6 and France 2 are broadcasting their HD streams over R5, a new MPEG-4 DVB-T multiplex system with 27 transmitters covering about 40% of the French population. An additional 24 transmitters are planned to extend coverage to 60% by May. Arte is broadcast from the R4 multiplex, which has around 80% national coverage. An estimated 750,000 HD-ready TV sets have been sold in France so far this year, for a national total of around 7.2 million.

ORANGE FRANCE WITH 1.6 MILLION SUBSCRIBERS

France Telecom's Orange France had 1.603 million digital TV customers by the end of the third quarter of this year, of which 70,000 were subscribers to its new DTH service, and recorded a 64.4% year-on-year growth for its digital TV service (IPTV and satellite) in the period.

GERMANY

DT WITH 333,000 CUSTOMERS FOR IPTV SERVICE

Deutsche Telekom reported a 33% jump in IPTV orders during the third quarter, and now has about 333,000 customer orders total for its Entertain IPTV service. About 257,000 customers actually had service activated at the end of the third quarter. DT is aiming to get 500,000 customers signed up by the end of this year.

GREECE

PRIMETEL INTRODUCES ARABIC MIDDLEWARE

PrimeTel, which provides voice, video and data services in Greece as well as developing IPTV middleware for other operators, has launched an Arabic user interface for its IPTV middleware product PrimeTV. It supports features such as TV Zapping, VOD, user interface in multiple languages, multicast EPG, caller ID on-screen, network PVR and time-shifting. The middleware also features interactive applications such as Internet video, interactive music video jukebox, photo gallery with USB upload functionality, games, email, chat and RSS news.

ITALY

TELECOM ITALIA TARGETS 1.5 MILLION IPTV SUBSCRIBERS

In its new three-year strategy, Telecom Italia is aiming to reach 1.5 million IPTV subscribers by the

end of 2011, an ambitious gain from the 218,000 customers reported for the end of last September. The operator expects to reach 300,000 subscribers for its IPTV service Alice TV by the end of this year, and was recently reported to be already trialling fibre-to-the-home (FTTH) services, including IPTV, for commercial launch in 2009.

LITHUANIA

TWO WAY MEDIA IN IPTV GAMES DEAL WITH PENKI KONTINENTAI

UK interactive media production company Two Way Media has signed a licensing deal with Lithuanian IPTV operator Penki Kontinentai to supply a package of unique games as part of a new games service on the Lithuanian service provider's IPTV platform. The package features puzzle and strategy games including Two Way Media's most successful titles such as Buzzwords, Maze Master, Deal With It and Jelly Sets. Penki Kontinentai currently has around 25,000 subscribers for its IPTV service.

TEO WITH 47,500 IPTV SUBSCRIBERS

Telecommunications operator TEO ended the third quarter of 2008 with 47,500 IPTV subscribers, compared to 28,000 at the end of the second quarter of this year. TEO recently added NBA TV to its 'Interactive GALA' IPTV and 'Digital GALA' DTT service, thus becoming the first operator in the region to offer the channel.

MACEDONIA

MAKTEL LAUNCHES MAXTV IPTV SERVICE

Makedonski Telekom (MakTel) launched an IPTV service in November, under the brand MaxTV. The operator also intends to offer the IPTV service as part of a triple-play bundle, 3 MaxTV, with internet access and fixed telephony. MakTel's basic MaxTV package costs MKD 999 (USD 20.48) per month and 3 MaxTV will be offered in two flavours – both of which require a one-off subscription payment of MKD 1,200. For MKD 2,499 per month, customers can take the unlimited internet traffic option, which also includes unlimited voice calls on the telco's network and over 70 TV channels.

THE NETHERLANDS

KPN WITH 30,000 IPTV SUBSCRIBERS

KPN ended the third-quarter 2008 with 700,000 subscribers for its combined digital TV operations, with 30,000 of these being IPTV subs and the remainder being customers for its pay-DTT service 'Digitenne'. This total number of 700,000 subscribers for all digital TV operations increased 69% year-on-year in the third-quarter of this year, while growth figures for its IPTV services in the period were not available.

POLAND

TPSA ADDS 3,000 IPTV SUBSCRIBERS IN Q3

TPSA added 3,000 IPTV subscribers in the third quarter of this year to reach 57,000 at the end of the period. The telecom operator also launched a satellite TV service in October in order to expand its footprint for the provision of triple-play services.

CYFROWY POLSAT LAUNCHES ECHOSTAR'S NEW STBS

EchoStar Europe's advanced HD set-top box has been introduced by Cyfrowy Polsat, the largest Polish satellite television platform serving 2.4 million subscribers. The DBS-7100HD is equipped with the latest, single-chip silicon solution and features HDMI connectivity for a high quality connection to flat screen HD-enabled TV sets, Ethernet port for future-upgrade to a high speed, broadband return channel for the delivery of advanced,

value-added services, and Dolby Digital loop-through for delivery of high quality sound to a home cinema system.

RUSSIA

IPTV SUBSCRIBERS TO DOUBLE BY 2012

According to a report by research company J'son&Partners, 600,000 Russian households will have IPTV by 2012, a twofold increase from 2007. Revenue from providing the IPTV service will reach US\$ 19 million in 2008, increasing to US\$ 56 million in 2012. The largest operators in the Russian IPTV sector in the first half of 2008 were Stream-TV, which accounted for 61% of the market, and Svyazinvest (31%).

EUTELSAT TO COMPENSATE SHORTAGE OF SATELLITE CAPACITY

The Space Communications company is short of satellites to guarantee communications and TV broadcasting throughout Russia, according to its deputy general director Ksenia Drozdova. Satellite use is approaching 100%, while five out of the 10 satellites used by the company have reached the limit of their service life. With the goal of bridging the problem, Eutelsat and Space Communications have reached a deal on the assignment of satellites for guaranteeing communications in Russian territory, with the W2 satellite to be placed at the use of the Russian company.

REDCOM BRINGS HDTV TO FAR EAST REGION

Consumers in Russia's eastern region of Khabarovsk will now be able to enjoy affordable access to HDTV, VOD and other multimedia services through a Metro Multiservice Transport Network (MMTN) that is based on Cisco technology. Redcom, Khabarovsk's leading telecommunications service provider, has implemented a strong network backbone that is scalable and fault-tolerant with high levels of security, selecting Cisco's Ethernet Fiber to the Home solution with Metro Ethernet technology. With Metro Ethernet, Redcom can now also differentiate traffic, offer flexible billing options to consumers, and expand bandwidth to meet peaks in service demand.

SCANDINAVIA

TELIASONERA RACHES 450,000 IPTV SUBSCRIBERS

TeliaSonera added 23,000 IPTV customers in the third quarter of 2008 across all regions to bring its total to 450,000, with over half of its IPTV customer base in Sweden paying to receive the service. In Sweden, more than 100,000 new subscriptions year-on-year were added to reach 320,000, however the company reported no growth on a quarter-on-quarter comparison in the country. TeliaSonera had a total of 839,000 digital TV subscribers across all regions, including its cable TV operations in Denmark.

AMINO ACQUIRES TILGIN'S IPTV BUSINESS

Set-top box supplier Amino Technologies has acquired Tilgi's IPTV business, paying 30 million Swedish Kronor (US\$ 3.6 million) for the Swedish vendor's loss-making IPTV set-top box business, which has sold and delivered 500,000 units to date. Tilgin has between 10 and 15 customers, mostly in Europe, with very little overlap between the two firms' customer bases.

SPAIN

REGULATOR SUSPENDS TELEFONICA'S TRIPLE-PLAY

The Spanish Telecommunications Market Commission (CMT) has temporarily suspended Telefónica from providing commercial services, including IPTV and Internet access, over its new fibre-to-the-home (FTTH) network, following a complaint lodged by Orange España. Orange España claims that Telefónica has not finalised wholesale access terms for the network infrastructure, and the CMT determined that services may only be launched on the new network once it is satisfied that agreements with alternative providers have been reached for access to the network. Telefónica recently launched trials on the network in Madrid and Barcelona to test Internet access at 30 Mbps, as part of a triple-play offer that includes its IPTV service Imagenio. Telefónica is thought to have planned to reach more than 1,000 FTTH clients by the end of 2009.

TELEFONICA LAUNCHES IMAGENIO HD

Telefónica has launched a new high-definition service for its IPTV service Imagenio, available to those IPTV subscribers which are connected to its new fibre-to-the-home (FTTH) network. All subscribers which have signed for a Trío Futura 10 or 30 Mbps connection are receiving an HD-capable set-top box, and the new Imagenio HD service currently offers the channel AXN in high-definition. Telefónica reportedly plans to gradu-

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SWITZERLAND

SWISSCOM BLUEWIN TV ADDS HD VOD TITLES

Swisscom's Bluewin TV is offering 130 feature films, concerts and documentaries in high-definition on-demand with Dolby Digital 5.1 sound, with prices starting at CHF 2.50 (US\$ 2) each. Viewers will initially be able to choose from over 70 feature films, over 40 concert recordings and around 30 documentaries. A "large number" of dubbed films will also be made available in their original language with Dolby Digital 2.0. Bluewin TV had 95,000 paying customers at the end of September, up from 80,000 at the end of the second quarter of 2008 and 52,000 in September 2007.

TURKEY

SEACHANGE AND ARGELA TO BRING IPTV TO TURK TELEKOM

IPTV and VOD software, systems and services provider SeaChange International has partnered with Turkey-based telecom solutions provider Argela to provide IPTV solutions for Turk Telekom, for which SeaChange is also providing systems integration and professional services. SeaChange and Argela's combined product offering will enable telecom operators to offer telephony, messaging, Internet access, mobility services, VOD and personal video recording services that integrate seamlessly with their service delivery platforms (SDP). The companies are partnered to bring these services to the rapidly growing market for IPTV.

AIRTIES SELECTS OPERA FOR NEW IPTV STB

AirTies has selected Opera 9.5 for devices from Opera Software to serve as the presentation engine for its new high-definition 'Air 7120' IPTV set-top box. The selection of Opera 9.5 for devices is intended to lend web browsing capabilities to the Air 7120, as well as allow developers to quickly and easily create user interfaces and other applications using Web technology such as HTML and CSS. The company adds that using widgets, users of the Air 7120 can additionally access Internet content in the form of small applications directly from the set-top box's home screen.

UNITED KINGDOM

BROADCASTERS TO LAUNCH HD ON DTT

Channel 4, the BBC and ITV are to be given free high-definition spectrum on the Freeview digital terrestrial platform, according to media regulator Ofcom. It plans to auction an additional HD channel to commercial players by the end of 2010. The new channels will roll out on a regional basis starting next fall with nationwide coverage expected by the end of 2012. ITV will broadcast its peak time schedule on the new service plus football and drama, Channel 4 intends to feature a mixed genre service including more than 150 hours of movies in the first year on air, while the BBC is yet to reveal its plans for its HD channel.

BBC PLANS OPEN IPTV PLATFORM

The BBC is in preparations to create an open industry standard Internet TV platform codenamed 'Canvas', intended to enable content providers to easily launch Web TV services, according

to Erik Huggers, the corporation's Director of Future Media & Technology, speaking at industry event Mipcom. He stated that the service would potentially be available via a set-top box and enable "any service to build applications onto the platform". Huggers estimates that, if approved, Canvas is at least 12 to 18 months away.

BT VISION LAUNCHES CATCH-UP IPTV PLATFORM

BT has become the first company to offer catch-up television from all the UK's terrestrial networks, after linking up with ITV to make the broadcaster's programming available via digital TV service BT Vision. The deal, which sees ITV syndicating its content in a closed VOD platform for the first time, provides full catch-up for eight days through BT Vision's TV Replay service. The move also gives viewers access to archive programming from terrestrial channel ITV1 and digital channels ITV2, ITV3 and ITV4.

SKY LAUNCHES ONLINE TV SERVICE

BSkyB has launched its standalone online pay-TV service Sky Player TV, providing access to some Sky channels without the need to subscribe to its satellite-based service. The service offers internet users a choice of three packages with prices ranging from £15 (US\$ 22) to £34 a month. The Entertainment Pack costs £15 per month and includes the Disney Channel, British Eurosport, National Geographic Channel, Sky News, Sky Sports News, MTV One, Nickelodeon and Nick Jr.

FOX SIGNS VOD/IPTV DEAL WITH BT VISION

20th Century Fox has signed a deal with BT Vision giving the IPTV operation rights to a

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range of new and classic Fox films. Some of the titles included in the pact are "Shine a Light," "The Happening" and "Dr. Seuss' Horton Hears a Who." Library titles include "Alien Resurrection," "The Beach," "Die Hard" and "I, Robot." The deal enables BT Vision subscribers to rent the shows on a PPV basis and follows on from a similar one inked with Disney-ABC.

BBC INTRODUCES LIVE STREAMS ON IPTV PLAYER

The BBC's free broadband Internet TV (IPTV) service, iPlayer, has introduced live streams from its BBC One and BBC Two TV channels. BBC Three, BBC Four, CBBC, CBeebies and BBC News are already being broadcast in this way. The move means that popular shows, such as EastEnders, Heroes and Never Mind The Buzzcocks, are available online to license fee payers.

NORTH AMERICA

ARIANESPACE TO LAUNCH VIASAT-1

Arianespace and ViaSat have signed the launch Service & Solutions contract for the ViaSat-1 satellite. The high-capacity Ka-band spot beam satellite is scheduled for launch by an Ariane 5 during the first half of 2011 from the Guiana Space Center, Europe's Spaceport in Kourou, French Guiana. ViaSat-1 will be dedicated to providing broadband internet media services to consumers and businesses over North America. With a capacity estimated at 100 Gbps and built by Space Systems/Loral, ViaSat-1 is expected to be (at launch) the highest capacity satellite in the world.

CANADA

ZENIT ROCKET TO LAUNCH TELSTAR SATELLITE

The Zenit-3SLB carrier rocket is scheduled to lift off from the Baikonur Cosmodrome space center at the end of December to launch a U.S. Telstar satellite. The satellite, built by Space Systems/Loral for Telesat Canada's Loral Skynet telecom subsidiary, will provide services from 39 high-power Ku-band transponders spread across four different geographic beams in each of North and Central America, Europe, Africa and the maritime Atlantic Ocean region from its orbital slot at 15° West.

TELESAT TO MANAGE TWO NEW SATELLITES

Telesat has won a job to manage the in-orbit operations for two satellites that will soon be launched into U.S. and Canadian orbital slots. Virginia-based Mobile Satellite Ventures (MSV) and its Canadian joint venture partner have chosen Telesat to operate their MSV-1 and MSV-2 next-generation satellites, which are respectively scheduled to be launched into the U.S. orbit in 2009 and into the Canadian orbital slot in 2010. MSV, which also has operations in Ottawa, said the two satellites will be two of the world's most powerful commercial satellites, enabling wireless coverage for conventional handsets and devices throughout the United States and Canada. Under the agreement, Telesat will conduct in-orbit operations of the two satellites from its Satellite Operations Centre in Ottawa and its backup facility in Mount Jackson, Virginia.

INTRACOM DELIVERS IPTV SOLUTION TO WIGHTMAN TELECOM

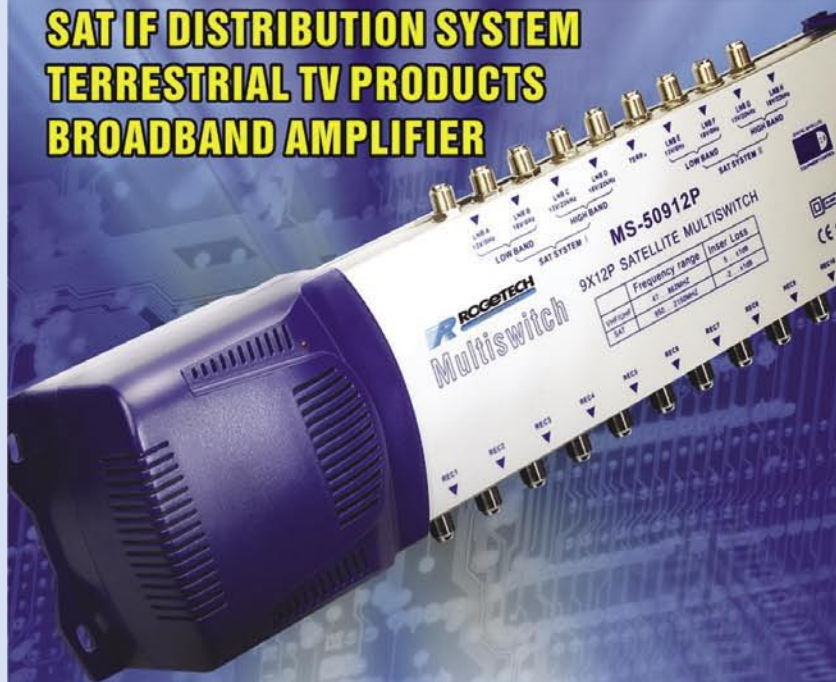
Greece-based Intracom Telecom, a part of Sitronics, has delivered its fsjcdn MPEG-4 IPTV solution to Canada-based Wightman Telecom, through its subsidiary, Conklin-Intracom, based in the US. Wightman Telecom has selected the fsjcdn MPEG-4 IPTV delivery solution to serve communities in the counties of Bruce, Grey, Huron, Wellington and Perth of Ontario. Wightman Telecom has started deploying these services to customers that are reached with their new fiber to the home initiative, as well as those served through existing copper infrastructure via xDSL.

UNITED STATES

ENTONE SELECTED BY ITC FOR IPTV DEPLOYMENT

Entone's Hydra IP video gateway has been chosen by Interstate Telecommunications Cooperative, Inc. (ITC) for their IPTV rollout. ITC provides local telephone, digital television and broadband services to subscribers in South Dakota and Minnesota. ITC now offers a triple play service bundle of voice, video, and data using Entone's Hydra IP video gateway, part of Entone's Connected Home Solution that eliminates the need for multiple set-top boxes or new home wiring to deliver IPTV services. Using patent-pending technology, Hydra can deliver multiple video streams over a single DSL or Ethernet connection using existing in-home coax cabling.

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AT&T TO SELL IPTV SERVICE AT RETAIL SERVICE

AT&T has signed agreements with Wal-Mart and Circuit City to sell its 'U-verse TV' IPTV service and 'U-verse High Speed Internet' broadband service in over 600 retail locations across the US from this month. The agreements are the first national retail deals for AT&T U-verse, which will initially be offered at Circuit City and Wal-Mart stores located near neighbourhoods where U-verse services are available. AT&T already sells its IPTV and Internet services direct to the consumer across the US and reached 549,000 subscribers to U-verse TV at the end of the first half of this year, with the aim of passing 1mn by the end of this year.

KIT DIGITAL TO DELIVER IPTV STB

IPTV technology and solutions provider KIT digital has been selected by TV2Moro, a new firm backed by several ethnic television aggregators and producers, to deploy a new IPTV set-top box (STB) service to deliver programming to ethnic consumers in North America. The TV2Moro/KIT digital partnership has a minimum term of 48 months, and involves platform development fees, ongoing platform licensing fees, and a revenue share model based on the number of subscribers adopting the service. TV2Moro's initial commercial roll-out will include a top-tier bouquet of Arabic language channels, and is scheduled for the beginning of 2009, with a test phase taking place now.

RURAL IPTV CARRIERS GET HBO, CINEMAX RIGHTS

The National Rural Telecommunications Cooperative (NRTC) has forged a long-awaited agreement

with Home Box Office (HBO) that will allow rural IPTV carriers to offer a range of HBO and Cinemax standard-definition and high-definition programming. The video distribution agreement grants NRTC members rights to 26 HBO and Cinemax MPEG-2 SD offerings and 26 MPEG-4 HD feeds, as well as subscription video-on-demand rights.

SES AMERICOM FILLS UP CAPACITY ON AMC-21 SATELLITE

Within the first month of AMC-21 becoming commercially available, a total of 16 transponders are under contract and utilizing the new Ku-band capacity at 125 degrees West. AMC-21's high powered 50-U.S. state, Mexico, Southern Canada and Caribbean coverage is proving to be in great demand across multiple segments: media, enterprise and government. It is currently providing service to customers such as PBS, U.S. Army, U.S. Marine Corps (through Arrowhead), U.S. Northern Command (through ARTEL) and maritime broadband users.

WORLDSPACE FILES FOR BANKRUPTCY

Satellite operator WorldSpace has filed for Chapter 11 bankruptcy protection after repeated failures to meet debt obligations and to pay its employees. The company, which broadcasts its satellite radio services to more than 170,000 paid subscribers in 10 countries throughout Europe, Africa and Asia, sought Chapter 11 protection in the U.S Bankruptcy Court in Wilmington. It listed assets of US\$ 307.4 million and liabilities of US\$ 2.12 billion.

VERIZON DELIVERS 1,000 HD VOD OFFERINGS

Verizon's FiOS TV customers can now enjoy more than 1,000 HD video-on-demand (VOD) titles per

month, including HD content from several movie channels: Starz, Showtime and Sundance Channel. Verizon's FiOS TV VOD library offers titles that encompass a broad range of interests, including kids, music, pop culture, Spanish language, and home and leisure. The library offers more than 11,000 titles per month - 8,500 are free of charge.

ION TV SUITE TO LAUNCH IN HD DURING 2009

ION Media Networks has plans to launch its suite of networks - ION Television, qubo, and ION Life -- in high definition (HD) in 2009. ION Television, the Company's flagship general entertainment network, will be available as ION Television HD beginning the first quarter. The ION Television network features hit programs from CBS Television, NBC Universal, RHI Entertainment, Sony Pictures Television, Twentieth Television and Warner Bros., among others. ION Media Networks' digital TV brands, qubo, a multilingual kids network that champions literacy and positive values, and ION Life, a digital network dedicated to active lifestyles and personal growth, will also be upgraded to high definition later in 2009.

TV-DESI LAUNCHES NEW IPTV SERVICE FOR ASIANS

TV-Desi, a subsidiary of NeuLion and JumpTV, has launched a new IPTV service with a selection of live South Asian TV content to the Indian, Pakistani and Bangladeshi communities in North America. TV-Desi features a line-up of over 40 popular channels including: Sony Entertainment Television Asia, Indus TV, Aaj, NDTV, ATN, Ekushey, Diganta, RTV, Hum TV, Amrita TV, IBN-Lokmat, TV9 News as well as North American Desi channels ITV, ASC and many others. The live TV package

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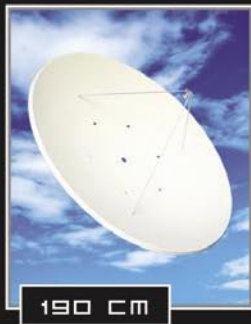
240 CM



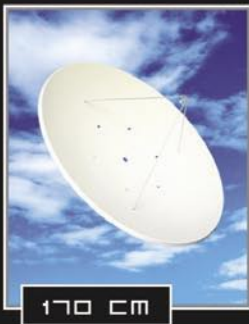
220 CM



210 CM



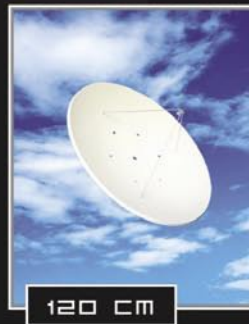
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TWIN LAKES TELEPHONE COOPERATIVE LAUNCHES IPTV TRIALS

Twin Lakes Telephone Cooperative Corporation (Twin Lakes), based in the state of Tennessee, has installed and successfully tested its new IPTV services, based on a platform supplied by Infinite Video, a subsidiary of Canadian firm Event Technologies. With board approval, Twin Lakes will contract to deploy the system to offer 11 broadcast channels over its existing DSL network, including local television programming.

LATIN AMERICA

COLOMBIA

EMCALI AIMS FOR 13,000 IPTV CLIENTS

Colombian multi-utility Emcali expects to reach approximately 13,000 IPTV subscribers once the company launches the service. The company, which serves the city of Cali, currently has 70,000 clients in the broadband segment. National TV services regulator CNTV will soon open a bidding process for five licenses for pay-TV services, with Emcali expected to bid for one. ZTE has been selected as the technological partner.

VENEZUELA

VENESAT-1 LAUNCHED INTO ORBIT

The country's first satellite Simon Bolivar or Venesat-1 was successfully launched on October 29 as part of a joint project with China that started three years ago. The whole project is to cost USD 406 million and the Venesat-1, with a

designed life of 15 years, will be used in broadcasting, distance learning, medical services, among others. The satellite became operational on December 20. Venezuela intends to launch its second satellite, for its own use, in 2013.

ASIA

GOLDSTONE TO LAUNCH IPTV SERVICES IN MALAYSIA, THAILAND

Software technology and services company Goldstone Technologies will launch IPTV services in two South-East Asian countries—Malaysia and Thailand. Goldstone has tied-up with MOL AccessPortal Berhad (MOL) of Malaysia to launch the IPTV service in Malaysia.

ORBITAL COMPLETES WORK ON NSS-9 SATELLITE

Orbital Sciences Corporation (ORB) has completed final testing on the SES New Skies NSS-9 commercial communications satellite. The NSS-9 will now be stored at the company's Dulles (Virginia) facilities until the company is notified of the launch date. Orbital stated that the spacecraft was designed, manufactured and tested in approximately 22 months from the start of the contract to the completion of the pre-shipment review. NSS-9 carries 28 active C-band transponders and features three beams that can be interconnected on a transponder-by-transponder basis: a global beam providing coverage of the entire earth visible from its 183 degrees East orbit slot, another beam covering Australia, Indonesia, the Philippines, Japan, China, Korea and the Pacific Islands, and a third beam providing coverage and connectivity to the U.S., Hawaii and Polynesia.

IPTV TO REACH 22.4 MILLION SUBSCRIBERS BY 2013

Market research firm Frost & Sullivan has estimated that the number of IPTV subscribers across 13 countries in the Asia-Pacific region may grow to 22.4 million by 2013. The latest research titled "IPTV Business Case" predicts that IPTV subscription will grow by an amazing 32.7 per cent over the next four years. Of the 13 countries, the researcher says, eight had commercial IPTV services in 2007, while the rest are conducting trials for deployments over the coming months. Asia-Pacific accounted for about a third of the global IPTV subscriber base last year. While Hong Kong is leading the group with 1.02 million subscribers, Mainland China is running close behind with 0.93 million customers, a figure that makes up 22.7 percent of the region's market.

CHINA

CHINA TELECOM TOPS 1.5 MILLION IPTV SUBSCRIBERS

China Telecom passed 1.51 million IPTV subscribers by the end of the third quarter of this year, according to Interfax China, compared to 940,000 subscribers reported in May of this year. The service is provided in cooperation with Shanghai Media Group (SMG) and has been available in major cities such as Shanghai, Jiangsu, Guangdong, Zhejiang and Shaanxi since 2005, offering broadcast and on-demand content, including high-definition, as well as information services.

JIANGSU PROVINCE IPTV SUBSCRIBERS UP 471 PERCENT

The number of IPTV subscribers in China's Jiangsu Province, located on the east coast of the country, rose by 471% in the first nine months of this year, according to Interfax China, making this the biggest

rise in IPTV adoption in the country during the period. Jiangsu Province had an IPTV subscriber base of over 200,000 by the end of September 2008, compared to 35,000 at the end of 2007. The province's growth rate has even exceeded Shanghai, which witnessed a growth of around 150% during the first nine months of this year to reach over 600,000 IPTV subscribers at the end of September.

SMC TO LAUNCH IPTV IN GUANGDONG PROVINCE

Southern Media Corp. (SMC) plans to launch a new interactive TV and IPTV platform in the Guangdong Province in 2009, according to Interfax China. The platform is expected to be put into operation at the beginning of 2009, covering 50,000 trial users, and at full capacity is expected to be able to support 700,000 users simultaneously. The platform will reportedly be connected to the local hybrid fibre-coaxial (HFC) network in Guangdong Province and China Telecom's IPTV network, with the IPTV content to be carried on China Telecom's IPTV network.

HUAXIA NETWORK RECEIVES IPTV LICENSE

China's State Administration of Radio, Film and Television (SARFT) has issued a new IPTV licence to Beijing firm Huaxia Network. The SARFT has previously awarded licences to operators including China Central Television (CCTV), Shanghai Media Group (SMG), Southern Media Corporation (SMC), China Radio International (CRI) and Hangzhou-based Wasu. The IPTV licence covers the delivery of broadcast programming to televisions, while video-sharing websites currently have permits for audio-visual programming to be received by computers.

UTSTARCOM GETS IPTV ORDER FROM HUNAN PROVINCE

UTStarcom has signed an agreement with Best Tone Information Service Corporation to deploy a video information distribution network in Hunan province of China. The network would provide a fresh revenue source for UTStarcom through video advertisement in the province. As much as 3,500 iPAD1000 terminals are scheduled to go live in office buildings, government facilities, supermarkets, hotels, hospitals and schools in Hunan Province this year. The iPAD1000 technology could integrate UTStarcom's RollingStream IPTV set-top boxes, ADSL modem, Wi-Fi adapter, IPTV network connection and video monitor into a single terminal station.

INDIA

AKSH TARGETS 40,000 IPTV SUBSCRIBERS

Aksh Optifibre intends to increase its IPTV subscriber base to 40,000 by 2008-end. The company, trying to diversify into services by launching its IPTV services in 22 cities, currently has around 8,000 subscribers in Delhi and 2,000 in Mumbai. It is in the process of raising funds to part fund its ambitious expansion across north India. It rolls out its TV services over the copper-line infrastructure of public sector telecom operators such as MTNL and BSNL.

BHARTI AIRTEL TO LAUNCH IPTV IN SIX CITIES

After launching a DTH service, Bharti Airtel have started a trial run of their proposed IPTV service in New Delhi and are now planning to launch its commercial services in six cities (Delhi, Mumbai,

Kolkata, Chennai, Bangalore and Hyderabad) soon. According to the president of telecom services, Atul Bindal, currently 1,000 households in New Delhi are covered on a pilot basis. Airtel currently has 2.5 million customers for both landline and broadband, whom it plans to target with IPTV services.

BSNL TO LAUNCH IPTV SERVICE IN PUNJAB

Ludhiana will soon become the first city in Punjab to receive the IPTV service, which will be launched in January 2009 by BSNL. The ISP is targeting a cable TV subscriber base of about 82 million users by counting on their 30 million landline subscribers across the country. After launching IPTV services in Jaipur and Jodhpur in Rajasthan in September, the company is planning to bring IPTV to more than 100 cities. BSNL will provide 120 TV channels to its broadband subscribers at a monthly rental of Rs 150, apart from a security deposit of Rs. 999 for a set-top box.

DTH OPERATORS TO OFFER HD CONTENT

DTH operators such as Dish TV and Sun Direct are planning to add HD content as a separate bouquet in the next few months. Currently, the popular DTH bouquets (80-120 channels) are available at Rs 150-300 a month across most DTH platforms. The HD bouquet of 10-15 channels may cost 20-30 per cent more than the regular bouquet, sources said. Dish TV will add the HD content once it gets additional transponder space on Protostar satellite, Sun Direct is launching its own HD channels on the existing transponder bandwidth, while others like Tata Sky, Big TV and Airtel's Digital TV are also expected to follow suit.

DishPointer.com

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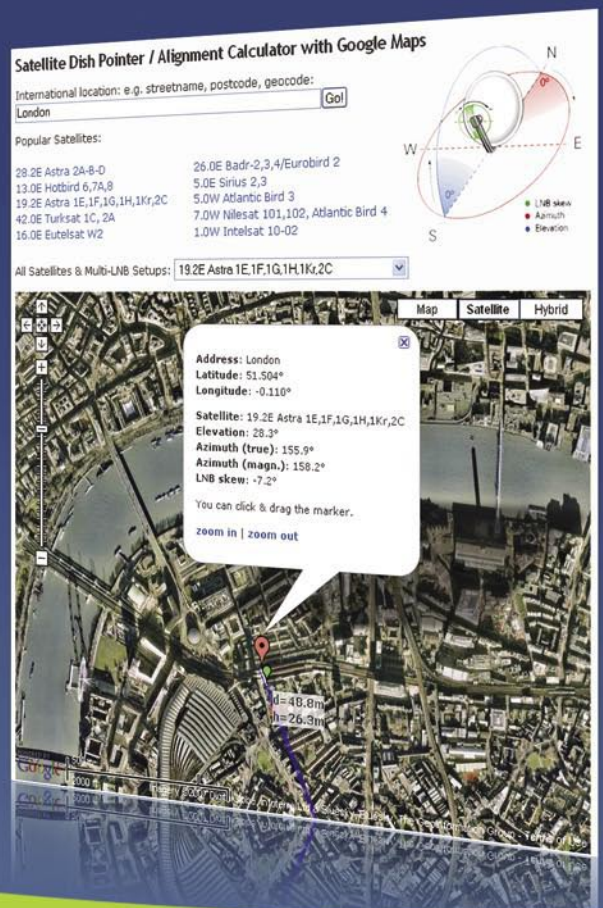
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EMAIL:LNBSALES@SUN-CREATE.COM WWW.SUN-CREATE.COM



JAPAN

NHK LAUNCHES ON DEMAND INTERNET PAY-TV

Japan Broadcasting Corp (NHK) has started an on-demand distribution of TV programmes for a fee over the internet. The service comprises two types of programme - recently missed programmes that are available for about one week after their initial airing including popular daily short dramas, and those in NHK's "library" comprising around 1,200 archived programmes including those that drew strong viewer interest in the past. The programmes are offered at 105-315 yen each. A monthly package plan is also available for missed programmes.

JAPAN WITH OVER 3 MILLION IPTV SUBSCRIBERS BY 2012

Japan is expected to top 3 million IPTV subscribers by 2012, according to new figures from research firm ROA Group, with approximately 10% of the predicted total to be accounted for by fibre-to-the-home (FTTH) subscribers, while IPTV's penetration will reach 6% by 2012. The average growth rate of IPTV subscribers in the country between 2006 and 2012 is expected to reach 65%, with Japan expected to close 2008 with an estimated 400,000 subscribers. Three companies are currently providing IPTV services in Japan, according to the research firm - NTT Plara with its offering 'Hikari TV', KDDI with its service 'Hikari One TV', and BB Cable Corporation with its offering 'BBTV'.

MITSUBISHI ELECTRIC GETS ORDER FOR ST-2 SATELLITE

Mitsubishi Electric has received an order to build the ST-2 communications satellite for a joint venture between Singapore's SingTel and Taiwan's Chunghwa. Currently, SingTel and Chunghwa jointly

own the ST-1 and use this satellite in their various communications businesses. The ST-2 will succeed the ST-1 as their next communications satellite. For the production of the ST-2, Mitsubishi Electric has proposed to use its original DS2000 satellite bus platform, which was developed based on the Engineering Test Satellite-8 (ETS-8) made for NASDA.

KAZAKHSTAN

KAZAKH SATELLITE BROUGHT BACK INTO ORBIT

Experts have managed to bring a malfunctioning Kazakh satellite, KazSat-1, back into geostationary orbit. The US\$ 65 million satellite stopped broadcasting on June 8. The Khruichev space research and production centre said it had fixed the problem together with Kazakh specialists earlier in October, and the satellite would resume its regular operation once all of its systems had been tested. Khruichev is currently building a second satellite for Kazakhstan, KazSat-2, in cooperation with Russian and foreign companies, including the Russian Institute of Space Engineering and European company Alcatel Alenia Space. KazSat-2 is to be launched in 2009.

LEBANON

ORANGE AND SOLIDERE LAUNCH FIRST IPTV SERVICE

Orange Business Services and Solidere have launched Lebanon's first IPTV service with 120 on-demand TV channels in central Beirut with a range of movies, sports and TV programs streamed directly to their TVs over a state-of-the-art Metro Ethernet network. It is believed to be one of the first commercially available IPTV services in the Middle East, and the first to support broadcast and on-demand HDTV. The service has been delivered, installed, supported and integrated into the existing

Solidere-operated private broadband network that was designed and deployed by Orange in 2006.

PAKISTAN

PTCL REPORTS OVER 1,000 IPTV SUBSCRIBERS

Pakistan Telecommunication Company (PTCL) has reported that its new IPTV service now has 1,070 customers, following its launch in four major cities in the country. Launched last August, the service has subsequently been introduced in five major cities in Azad Jammu and Kashmir, and will be expanded to 144 other cities shortly. Initially, 100 TV channels are available and the IPTV service is free of charge until February 2009.

SINGAPORE

VOOM TEAMS UP WITH IFW FOR 2009 LAUNCH

Voom HD Holdings has signed a co-production and distribution deal with Singapore's Infinite Frameworks (IFW), in a bid to ramp up high-definition programming over the next five years. The deal sees each partner investing US\$ 10 million in production and post-production, in collaboration with productions worldwide, to develop an HD slate across sports, art, lifestyle, fashion and music. All post-production will be handled at IFW's Singapore facilities, and the company also receives support from the Media Development Authority of Singapore (MDA).

STARHUB LAUNCHES NEW HD DVR

Pay-TV operator Starhub has launched a new HD DVR - HubStation HD - which enables customers to watch and record both SD and HD programmes. The HubStation HD also provides access to free broadband Internet service and StarHub's Digital Voice service. Starhub launched the first com-

mercial HD service in Southeast Asia in January 2007. Since then, the number of HD channels offered by StarHub TV has grown to five - HD5, NGC HD, Discovery HD, The History Channel HD and Sports HD. HD5 is offered to all StarHub TV customers at no extra cost while Sports HD is made available free to Sports Group customers. The other three channels are packaged together under the Education HD group.

SOUTH KOREA

KT TO OFFER NATIONAL TV CHANNELS ON IPTV

KT has reached agreements with KBS and SBS over the retransmission of their content for Web-based television. The company said it was also close to reaching an agreement with MBC, meaning that the programs of all three terrestrial broadcasters will be available on Mega TV, the company's IPTV brand. Other IPTV operators, SK Broadband and LG Dacom, are also in talks with the television networks for similar arrangements.

SK BROADBAND SELECTS TANDBERG FOR IPTV

SK Broadband is deploying a Tandberg Television IPTV head end, which includes HD and SD MPEG-4 AVC encoding. This solution will enable SK Broadband to launch linear broadcast television services in 2009, following the recent granting of regulatory approval for Korean IPTV providers to introduce broadcast services to complement existing VOD content. SK Broadband intends to introduce 30 SD and 10 HD channels initially.

TAIWAN

CHUNGWA TELECOM ENDS Q3 WITH 591,000 SUBSCRIBERS

Chunghwa Telecom reached 591,000 subscribers for its 'Multimedia On Demand' (MOD) IPTV service at the end of the third quarter of this year, of which 82,000 were new subscriptions added during the period, representing a 65.2% increase year-on-year. The operator had a total of 4.32 million broadband subscribers as of the end of last September, including ADSL and fibre-to-the-building (FTB) subscribers, an increase of 2.4% from the same time last year.

UNITED ARAB EMIRATES

AL ROSTAMANI PARTNERS WITH NAGRAVISION ON IPTV PLATFORM

Al Rostamani Communications has partnered with Nagravision to offer telecoms operators in the Middle East a complete end-to-end IPTV/Video on Demand platform. The Nagravision platform provides access control, rights management, EPG and content protection, while Al Rostamani Communications will provide the system integration services to assist telecoms operators to deliver their digital TV services, including HD content and on-demand programming, to any of the three screens of TV, PC and mobile device.

DU SURPASSES 50,000 IPTV SUBSCRIBER MARK

du has passed 50,000 subscribers for its IPTV service, a multilingual offering offering both local and international channels, secured by content protection technology from UK firm Latens. du selected Latens IPCAS, a software-based CAS for IPTV, replacing traditional smart cards with Secure Software Modules and removing the cost of additional hardware while decreasing time to launch.

AUSTRALIA & PACIFIC

NEW ZEALAND

FREEVIEW LAUNCHES HD BOX

The free-to-air equivalent of Sky's Television's MySky HDi set-top box has gone on sale in New Zealand, allowing Freeview viewers record simultaneous programmes and pause and rewind "live" television at the touch of a button. The boxes are selling for around \$1000, but prices are likely to fall relatively quickly. The box can store 80 hours of high definition TV programmes or 240 hours of SD programmes, and double as a digital receiver. Sky TV announced in November that 31,000 of its subscribers were renting its MySky HDi personal video recorders.

AFRICA

ARIANESPACE TO LAUNCH RASCOM SATELLITE IN 2010

Arianespace and Thales Alenia Space have signed a launch service and solutions contract for the pan-African communications satellite, Rascom-QAF 1R which is scheduled for launch into geostationary transfer orbit in 2010. It will be launched by an Ariane 5 or Soyuz rocket from Europe's Spaceport in French Guiana. Rascom-QAF 1R will provide telecommunication services in rural areas of Africa over a period of 15 years, along with domestic and international connections, direct TV broadcast services and internet access. It will be equipped with 12 Ku-band transponders and eight C-band transponders. Replacing Rascom-QAF 1, it will be positioned at 2.85 degrees east.

NIGERIA

TECHNICAL PROBLEMS SHUT DOWN NIGERIAN SATELLITE

A Nigerian satellite - which was launched to provide phone, broadband Internet and broadcasting services to rural Africa - was switched off in December due to technical problems. The US\$ 257 million Chinese-built satellite was launched into space from China in May 2007. It was expected to boost Nigeria's communications revolution and further the drive to make Internet technology accessible to the remote rural villages of the continent.

SOUTH AFRICA

SECUREMEDIA SELECTED FOR IPTV CONTENT PROTECTION

Goal Technology Solutions, based in Johannesburg, is to launch a triple-play service including IPTV across its GoalNet Network, secured by SecureMedia's Encryptonite ONE CA/DRM system. Goal Technology Solutions operates a fibre-to-the-kiosk (FTTK) and Powerline Communication access network for the delivery of its triple-play service, which it is reportedly planning on expanding to other major population centres in South Africa and neighbouring territories.

WORLD

ATIS RELEASES NEW IPTV STANDARD

The Alliance for Telecommunications Industry Solutions (ATIS) has released a new standard created by the ATIS IPTV Interoperability Forum (IIF) specifying the initial set of activities that prepare devices in the consumer domain to receive and consume IPTV services. The new Network Attachment and Initialization of Devices and Client Discovery of IPTV Services (AIS-0800017) standard is described by ATIS as a foundation specification addressing fundamentals such as the initialisation

and attachment phases for the Delivery (home) Network Gateway (DNG) and the IPTV Terminal Function (ITF), which includes the set-top box. Specifically, the new release covers network attachment, service provider discovery, service provider attachment and services discovery procedures.

INTELSAT RETIRES MARISAT-F2 SATELLITE

After 32 years of serving ships at sea and scientists at the South Pole, an aging communications satellite owned by Intelsat has been retired. The Marisat-F2 satellite, manufactured by Hughes Aircraft and launched in 1976, had only a five-year design life, yet until the end, the communications payload continued operating within its original specifications, Intelsat engineers said. Once dubbed "The Little Satellite That Could," Marisat-F2 is believed to have been the oldest commercial communications satellite still actively operating in space. The final assignment of Marisat-F2 had been to provide Internet service to research scientists stationed at the Amundsen-Scott South Pole Station.

MTVNHD SET FOR GLOBAL ROLL OUT

MTV Networks (MTVN) is set to roll out its high-definition channel MTVNHD on the UK's Sky platform and Israel's Hot, and across Latin America. MTVNHD will be available in the UK, Israel, Argentina, Chile, Colombia, Venezuela, Peru, Ecuador, the Caribbean Islands and Uruguay by the end of 2008.

GLOBAL IPTV SUBSCRIBERS TO REACH 89.6 MILLION IN 2012

The number of global IPTV subscribers will hit 89.6 million in 2012, up from 20.4 million this year, according to Multimedia Research Group's latest IPTV Global Forecast. By region, Europe is expected to be ahead of Asia in 2012, with a 41.5 per cent share of the global IPTV market, followed by Asia with 35.8 per cent. North America will have just a 17 per cent share of total worldwide subscribers. It will, however, lead the market in terms of gross service revenues, raking in about US\$ 13 billion, thanks to a higher ARPU.

MORE THAN 1500 NEW TRANSPONDER LEASES IN NEXT TEN YEARS

NSR's latest multi-client market research report, the "Global Assessment of Satellite Demand, 5th Edition," projects that the commercial satellite transponder leasing market should emerge relatively unscathed from the current global economic crisis. Between 2007 and 2017, NSR forecasts that global demand for commercial C- and Ku-band transponders will increase by more than 1,500 36 MHz transponder equivalents, and revenues will grow at the average annual rate of 4.5%. NSR anticipates that the majority of transponder demand growth in the coming ten years will be generated by various video services. In fact, 83% of the newly leased transponders will be for video distribution, DTH and video contribution & occasional use television services. On the revenues side of the picture, NSR estimated that the industry generated US\$ 8.33 billion in 2007 from commercial C- and Ku-band capacity leasing, and this should grow to US\$ 12.90 billion in 2017.

BNS LAUNCHES HD VOD VIA IPTV

BNS has launched an advanced in-room entertainment, room control and A/V solution for hotels and multi dwelling unit (MDU) developers looking to meet their customers' expectations for HD content delivered to their room. Part of the offering includes state-of-the-art room automation and A/V facility design and installation that are based on IP delivery. Connected via an IP network, the system is centrally programmed and controlled via an easy to operate management software. It is easy to operate and integrates seamlessly with existing Property Management Systems (PMS).



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Exhibition Preview

● **3 - 5 March 2009: CABSAT 2009**

Middle East's Electronic Media & Satellite Communications
Dubai World Trade Center, UAE
www.cabsat.com



● **18 - 20 March 2009: Convergence India 2009**

17th International Exhibition & Conference
Pragati Maidan, New Delhi, India
www.convergenceindia.org



● **21 - 23 March: CCBN 2009**

The 17th China Content Broadcasting Network Exhibition
China International Exhibition Center, Beijing, China
www.ccbn.tv



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

Exhibition for Satellite Enabled Communication
Walter E. Washington Convention Center, Washington, USA
www.satellite2009.com



● **25 - 27 May 2009: MECOM 2009**

Middle East Communications Exhibition, Forum, TV
Abu Dhabi National Exhibition Centre, Abu Dhabi, UAE
www.mecomexpo.com



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

Tradefair for Cable, Broadband and Satellite
Koelnmesse, Cologne, Germany
www.angacable.com



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

20th International Communications and Information
Technology Exhibition & Conference
Singapore Expo, 1 Expo Drive, Singapore 486150
www.communicasia.com



● **26 - 28 August 2009: SET 2009**

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



● **6 - 11 October 2009: CeBIT Eurasia**

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Tüyap Fuar ve Kongre Merkezi
E5 Karayolu, Gürpınar Kavşağı, 34522 Büyükçekmece
İstanbul, Turkey

TELE-satellite Deadlines

Editorial Deadlines, Magazine Publishing Dates

<i>Number</i>	<i>Issue</i>	<i>Deadline</i>	<i>Hardcopies</i>	<i>Available Online</i>
#210	04/2009	6 February 2009	13 March 2009	27 March 2009
#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	12/2009	2 October 2009	13 November 2009	27 November 2009
#214	02/2010	4 December 2009	15 January 2010	29 January 2010

SatcoDX Global Satellite Chart

Compiled by the Worldwide SatcoDX Monitoring Stations, exclusively for TELE-satellite Magazine
New Channels Since Last Issue of TELE-satellite Magazine are marked with a ●

EUROBIRD 4

12410 V DVB-S2	27500
12300 V Standard TV	27500
12100 V DVB-S2	27500
12300 V Standard TV	27500

EUROBIRD 4 004.0° East

11160 H APELENZ-S	27500
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11725 H Ebs Europe By Satell	27500
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12418 H LADROKES IP DATA	27500
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12418 H SIS BTC-Vision a	27500
12418 H SIS Racing -Data	27500
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12418 H SIS UK BTC	27500
12418 H SIS+	27500
12418 H SPECIAL LADROKES	27500
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12418 H TEMP LADROKES EI	27500
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12418 H TOTE-SIRIUS	27500
12418 H TOTE SIS AUDIO AN	27500
12418 H VIDEO AUDIO AND	27500
12418 H WHIS IN CLEAR	27500
12418 H WILLIAM HILL -SI	27500
12418 H ALT VC 11	27500
12418 H ALT VC 140	27500
12418 H ALT VC 145	27500
12418 H ALT VC 20	27500
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12418 H TEST CHANNEL 135	27500
12608 H TV 1000 Ru Kino FSS	27500
12608 H TV1000 Action East	27500
12608 H TV1000 East FSS	27500
12608 H TV Hungary FSS	27500
12608 H Viassa Sport FSS	27500
12608 H Viassa FSS	27500
12637 H Explorer/Spice FSS	14463
12637 H WILLIAM HILL -SI	14463
12637 H TV1000 Poland (FSS)	14463
12637 H Viassa History (FSS)	14463

EUROBIRD 4 004.0° East

11160 H APELENZ-S	27500
11160 H APELENZ-S	27500
11160 H APELENZ-S	27500
11160 H APELENZ-S	27500

EUROBIRD 4 005.0° East

11725 H Ebs Europe By Satell	27500
11725 H EU Test	27500
11725 H EU Test	27500
11725 H EU Test	27500

EUROBIRD 4 005.0° East

11725 H Ebs Europe By Satell	27500
11725 H EU Test	27500
11725 H EU Test	27500
11725 H EU Test	27500

EUROBIRD 4 005.0° East

11725 H Ebs Europe By Satell	27500
11725 H EU Test	27500
11725 H EU Test	27500
11725 H EU Test	27500

EUROBIRD 4 005.0° East

11725 H Ebs Europe By Satell	27500
11725 H EU Test	27500
11725 H EU Test	27500
11725 H EU Test	27500

EUROBIRD 4 005.0° East

11725 H Ebs Europe By Satell	27500
11725 H EU Test	27500
11725 H EU Test	27500
11725 H EU Test	27500

EUROBIRD 4 005.0° East

11725 H Ebs Europe By Satell	27500
11725 H EU Test	27500
11725 H EU Test	27500
11725 H EU Test	27500

EUROBIRD 4 005.0° East

11725 H Ebs Europe By Satell	27500
11725 H EU Test	27500
11725 H EU Test	27500
11725 H EU Test	27500

EUROBIRD 4 005.0° East

11725 H Ebs Europe By Satell	27500
11725 H EU Test	27500
11725 H EU Test	27500
11725 H EU Test	27500

EUROBIRD 4 005.0° East

11725 H Ebs Europe By Satell	27500
11725 H EU Test	27500
11725 H EU Test	27500
11725 H EU Test	27500

EUROBIRD 4 005.0° East

11725 H Ebs Europe By Satell	27500
11725 H EU Test	27500
11725 H EU Test	27500
11725 H EU Test	27500

EUROBIRD 4 005.0° East

11725 H Ebs Europe By Satell	27500
11725 H EU Test	27500
11725 H EU Test	27500
11725 H EU Test	27500

EUROBIRD 4 005.0° East

11725 H Ebs Europe By Satell	27500
11725 H EU Test	27500
11725 H EU Test	27500
11725 H EU Test	27500

EUROBIRD 4 005.0° East

11725 H Ebs Europe By Satell	27500
11725 H EU Test	27500
11725 H EU Test	27500
11725 H EU Test	27500

EUROBIRD 4 005.0° East

11725 H Ebs Europe By Satell	27500
11725 H EU Test	27500
11725 H EU Test	27500
11725 H EU Test	27500

EUROBIRD 4

11881 H TV1000 Plus One	27500
11881 H TV1K1	27500
11881 H GOD Channel	27500
11881 H Kanal 10	27500
11881 H SIS Channel	27500
11900 V MTV Ballics LV	27500
11900 V MTV Ballics LV	27500
11900 V MTV Ballics LV	27500
11900 V MTV Ballics LV	27500
11900 V TV6 Estonia	27500
11900 V TV6 Latvia	27500
11900 V Viasat Sport	27500
11900 V RTR Planeta Baltic	27500
11900 V Radio Pukas	27500
11919 H MTV3 Avo	27500
11919 H MTV3 Fina	27500
11919 H MTV3 Fina	27500
11919 H MTV3 Fina	27500
11919 H MTV3 Sarja	27500
11919 H Planeta Sport	27500
11919 H Sub Junior	27500
11919 H Sub Luffa	27500
11919 H TV2 Nyhetskanalen	27500
11919 H TV1000 Premium	27500
11919 H TV1000 Premium	27500
11938 V Canal+ EE	27500
11938 V Discovery EE	27500
11938 V Nat Geo CNBC	27500
11938 V RTR Planeta	27500
11938 V TV3 Est	27500
11938 V TV3 Norr	27500
11938 V TV3 Syd	27500
11938 V TV3 Väst	27500
11938 V TV3 Väst	27500
11938 V Bandit Rock	27500
11938 V Club/Dance	27500
11938 V Disco	27500
11938 V Golden Oldies	27500
11938 V Jazz	27500
11938 V Lugna Favoriter	27500
11938 V Soul R&B	27500
11938 V Star FM	27500
11938 V Star FM EE	27500
11938 V Classic	27500
11958 H 3+ Baltica E	27500
11958 H 3+ Baltica E	27500
11958 H Lithuanian TV1	27500
11958 H LNT Latvia	27500
11958 H LTV1	27500
11958 H TV3 Estonia	27500
11958 H TV3 Latvia	27500
11958 H TV3 Lithuania	27500
11958 H TV6 Lithuania	27500
11958 H PowerRadio	27500
11958 H Star FM EE	27500
11958 H Star FM LV	27500
11977 V BBC World	27500
11977 V Baltic Channel	27500
11977 V MTV SE	27500
11977 V Nature/Crime/Playboy	27500
11977 V TV1000 East	27500
11977 V TV4 Fakta	27500
11977 V Viasat 4	27500
11977 V Viasat Sport Sverige	27500
11996 H TV1000	27500
11996 H KTS NORDEN	27500
11996 H Kanal 5	27500
11996 H Sport	27500
11996 H TV1000	27500
11996 H TV1000	27500
12015 H NRK Super/NRK3	27500
12015 H NRK1	27500
12015 H NRK2	27500
12015 H NRK3	27500
12015 H NRK4	27500
12015 H NRK5	27500
12015 H NRK6	27500
12015 H NRK7	27500
12015 H NRK8	27500
12015 H NRK9	27500
12015 H NRK10	27500
12015 H NRK11	27500
12015 H NRK12	27500
12015 H NRK13	27500
12015 H NRK14	27500
12015 H NRK15	27500
12015 H NRK16	27500
12015 H NRK17	27500
12015 H NRK18	27500
12015 H NRK19	27500
12015 H NRK20	27500
12015 H NRK21	27500
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12015 H NRK40	27500
12015 H NRK41	27500
12015 H NRK42	27500
12015 H NRK43	27500
12015 H NRK44	27500
12015 H NRK45	27500
12015 H NRK46	27500
12015 H NRK47	27500
12015 H NRK48	27500
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12015 H NRK56	27500
12015 H NRK57	27500
12015 H NRK58	27500
12015 H NRK59	27500
12015 H NRK60	27500
12015 H NRK61	27500
12015 H NRK62	27500
12015 H NRK63	27500
12015 H NRK64	27500
12015 H NRK65	27500
12015 H NRK66	27500
12015 H NRK67	27500
12015 H NRK68	27500
12015 H NRK69	27500
12015 H NRK70	27500
12015 H NRK71	27500
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SatcoDX Global Satellite Chart 02/2009

Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate
12.074 H Sex Planet	27500	10.992 H The Word Network	27500
12.074 H Sex Spice	27500	10.992 H Wind Int'l	27500
12.074 H Sex Top	27500	10.992 H Wind Int'l	27500
12.074 H Sex Youver	27500	10.992 H VLC SAT	27500
12.074 H Sex World	27500	10.992 H Multilingua 1	27500
12.074 H Musicam 1	27500	10.992 H Multilingua 2	27500
12.074 H Musicam 2	27500	10.992 H Nawa Kurd Radio	27500
12.074 H Musicam 3	27500	10.992 H Rajamawar_KSDP	27500
12.074 H Musicam 4	27500	10.992 H Radio OM unica	27500
12.074 H Musicam 5	27500	10.992 H Radio 24/7	27500
12.074 H Musicam 6	27500	10.992 H Radio3 mono	27500
12.092 H Sex Back	27500	10.992 H Radio2+2 (TRT FM)	27500
12.092 H Sex Erotic	27500	10.992 H SatelliteRadio	27500
12.092 H Sex Girls	27500	10.992 H Thrift FM+Tamil	27500
12.092 H Sex Hot	27500	10.992 H TSR Turkey	27500
12.092 H Sex Infinity	27500	10.992 H Turizm Radyosu	27500
12.092 H Sex Italy	27500	10.992 H VOT West	27500
12.092 H Sex Mixx	27500	10.992 H VOT West	27500
12.092 H Sex Planet	27500	10.992 H VOT West	27500
12.092 H Sex Spice	27500	10.992 H VOT West	27500
12.092 H Sex Top	27500	10.992 H VOT West	27500
12.092 H Sex World	27500	10.992 H VOT West	27500
12.092 H Musicam 1	27500	10.992 H VOT West	27500
12.092 H Musicam 2	27500	10.992 H VOT West	27500
12.092 H Musicam 3	27500	10.992 H VOT West	27500
12.092 H Musicam 4	27500	10.992 H VOT West	27500
12.092 H Musicam 5	27500	10.992 H VOT West	27500
12.092 H Musicam 6	27500	10.992 H VOT West	27500

Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate
11.200 V Sport Channel	27500	11.200 V Sport Channel	27500
11.200 V STARZ	27500	11.200 V STARZ	27500
11.200 V Teleshop	27500	11.200 V Teleshop	27500
11.200 V TLC SAT	27500	11.200 V TLC SAT	27500
11.200 V Trending TV	27500	11.200 V Trending TV	27500
11.200 V Eurovision Grandstand	27500	11.200 V Eurovision Grandstand	27500
11.200 V McDonalds	27500	11.200 V McDonalds	27500
11.200 V R.DI per DI	27500	11.200 V R.DI per DI	27500
11.200 V RONDA D'OPERTO	27500	11.200 V RONDA D'OPERTO	27500
11.200 V Radio 5	27500	11.200 V Radio 5	27500
11.200 V Duplex	27500	11.200 V Duplex	27500
11.200 V Radio Intesa	27500	11.200 V Radio Intesa	27500
11.200 V Radio Metro	27500	11.200 V Radio Metro	27500
11.200 V Radio Stand	27500	11.200 V Radio Stand	27500
11.200 V RADIO ZAINET	27500	11.200 V RADIO ZAINET	27500
11.200 V Radioshora	27500	11.200 V Radioshora	27500
11.566 H Church Channel	27500	11.566 H Church Channel	27500
11.566 H DYNASTY	27500	11.566 H DYNASTY	27500
11.566 H EL SHAFEA	27500	11.566 H EL SHAFEA	27500
11.566 H Inspiration	27500	11.566 H Inspiration	27500
11.566 H JACTV	27500	11.566 H JACTV	27500
11.566 H NEAR TV	27500	11.566 H NEAR TV	27500
11.566 H Smile of a Child	27500	11.566 H Smile of a Child	27500
11.566 H TBN Europe	27500	11.566 H TBN Europe	27500
11.566 H TBN ITALIA	27500	11.566 H TBN ITALIA	27500
11.566 H TBN USA	27500	11.566 H TBN USA	27500
11.566 H TBN Spain	27500	11.566 H TBN Spain	27500
11.585 V TIVO GLOBE	27500	11.585 V TIVO GLOBE	27500
11.585 V WorldStar Channel	27500	11.585 V WorldStar Channel	27500
11.585 V Ariana TV	27500	11.585 V Ariana TV	27500
11.585 V Ayngan TV	27500	11.585 V Ayngan TV	27500
11.585 V BFM TV	27500	11.585 V BFM TV	27500
11.585 V Emilia Romagna	27500	11.585 V Emilia Romagna	27500
11.585 V EWTV UK	27500	11.585 V EWTV UK	27500
11.585 V Hope Channel	27500	11.585 V Hope Channel	27500
11.585 V Hope Channel 2	27500	11.585 V Hope Channel 2	27500
11.585 V NRJ 12	27500	11.585 V NRJ 12	27500
11.585 V NRJ 12 HQ	27500	11.585 V NRJ 12 HQ	27500
11.585 V Payam	27500	11.585 V Payam	27500
11.585 V Test Radio Globo	27500	11.585 V Test Radio Globo	27500
11.585 V Cherie FM	27500	11.585 V Cherie FM	27500
11.585 V Hostalgia	27500	11.585 V Hostalgia	27500
11.585 V NRJ 12	27500	11.585 V NRJ 12	27500
11.585 V Payam Duran	27500	11.585 V Payam Duran	27500
11.585 V Rire & Chansons	27500	11.585 V Rire & Chansons	27500
11.585 V Hot Arab Sex	27500	11.585 V Hot Arab Sex	27500
11.585 V r16 Love Girls	27500	11.585 V r16 Love Girls	27500
11.585 V Arabi	27500	11.585 V Arabi	27500
11.585 V 48ArabMoms	27500	11.585 V 48ArabMoms	27500
11.585 V 7Armanat Nar	27500	11.585 V 7Armanat Nar	27500
11.585 V Alag TV	27500	11.585 V Alag TV	27500
11.585 V Arab 48	27500	11.585 V Arab 48	27500
11.585 V Arab-48	27500	11.585 V Arab-48	27500
11.585 V Arab-Jins	27500	11.585 V Arab-Jins	27500
11.585 V Arab-48 Erbia	27500	11.585 V Arab-48 Erbia	27500
11.585 V Arab Sat	27500	11.585 V Arab Sat	27500
11.585 V TV Arabi Blanc	27500	11.585 V TV Arabi Blanc	27500
11.585 V TVA Victoria	27500	11.585 V TVA Victoria	27500
11.585 V Al maeqhat	27500	11.585 V Al maeqhat	27500
11.585 V Chaine 1	27500	11.585 V Chaine 1	27500
11.585 V Chaine 2	27500	11.585 V Chaine 2	27500
11.585 V Chaine 3	27500	11.585 V Chaine 3	27500
11.585 V Chaine 4	27500	11.585 V Chaine 4	27500
11.585 V El Sheik El Awlat	27500	11.585 V El Sheik El Awlat	27500
11.585 V AL ZAJERA CHLOV	27500	11.585 V AL ZAJERA CHLOV	27500
11.585 V EDUSAT	27500	11.585 V EDUSAT	27500
11.585 V POLONIA 1	27500	11.585 V POLONIA 1	27500
11.585 V R. P. P. P. P. P.	27500	11.585 V R. P. P. P. P. P.	27500
11.585 V TELES	27500	11.585 V TELES	27500
11.585 V TELETOU	27500	11.585 V TELETOU	27500
11.585 V M6	27500	11.585 V M6	27500
11.585 V Orange cine choc	27500	11.585 V Orange cine choc	27500
11.585 V Orange cine giants	27500	11.585 V Orange cine giants	27500
11.585 V Orange cine happy	27500	11.585 V Orange cine happy	27500
11.585 V Orange cine max	27500	11.585 V Orange cine max	27500
11.585 V Orange cine movie	27500	11.585 V Orange cine movie	27500
11.585 V Orange cinema serie	27500	11.585 V Orange cinema serie	27500
11.585 V Orange Sport	27500	11.585 V Orange Sport	27500
11.585 V JSTV1	27500	11.585 V JSTV1	27500
11.585 V JSTV2	27500	11.585 V JSTV2	27500
11.585 V TVRUS Europe	27500	11.585 V TVRUS Europe	27500
11.585 V ARM 1	27500	11.585 V ARM 1	27500
11.585 V BBC World News	27500	11.585 V BBC World News	27500
11.585 V CNN	27500	11.585 V CNN	27500
11.585 V Euronews	27500	11.585 V Euronews	27500
11.585 V Planet Sport	27500	11.585 V Planet Sport	27500
11.585 V AWR Radio 128kbit	27500	11.585 V AWR Radio 128kbit	27500
11.585 V Family 1 TV	27500	11.585 V Family 1 TV	27500
11.585 V Family 2 TV	27500	11.585 V Family 2 TV	27500
11.585 V GBTS1	27500	11.585 V GBTS1	27500
11.585 V GBTS2	27500	11.585 V GBTS2	27500
11.585 V KsatKhatChanceTV	27500	11.585 V KsatKhatChanceTV	27500
11.585 V GBTS4	27500	11.585 V GBTS4	27500
11.585 V GBTS5	27500	11.585 V GBTS5	27500
11.585 V GBTS6	27500	11.585 V GBTS6	27500
11.585 V GBTS7	27500	11.585 V GBTS7	27500
11.585 V GBTS8	27500	11.585 V GBTS8	27500
11.585 V GBTS9	27500	11.585 V GBTS9	27500
11.585 V IBC TAMIL RADIO	27500	11.585 V IBC TAMIL RADIO	27500
11.585 V PECO 3 RI 3	27500	11.585 V PECO 3 RI 3	27500
11.585 V PRA Radio	27500	11.585 V PRA Radio	27500
11.585 V New Hope	27500	11.585 V New Hope	27500
11.585 V RC11	27500	11.585 V RC11	27500
11.585 V RC12	27500	11.585 V RC12	27500
11.585 V RC13	27500	11.585 V RC13	27500
11.585 V RC14	27500	11.585 V RC14	27500
11.585 V RC15	27500	11.585 V RC15	27500
11.585 V RC16	27500	11.585 V RC16	27500
11.585 V RC17	27500	11.585 V RC17	27500
11.585 V RC18	27500	11.585 V RC18	27500
11.585 V RC19	27500	11.585 V RC19	27500
11.585 V RC20	27500	11.585 V RC20	27500
11.585 V RC21	27500	11.585 V RC21	27500
11.585 V RC22	27500	11.585 V RC22	27500
11.585 V RC23	27500	11.585 V RC23	27500
11.585 V RC24	27500	11.585 V RC24	27500
11.585 V RC25	27500	11.585 V RC25	27500
11.585 V RC26	27500	11.585 V RC26	27500
11.585 V RC27	27500	11.585 V RC27	27500
11.585 V RC28	27500	11.585 V RC28	27500
11.585 V RC29	27500	11.585 V RC29	27500
11.585 V RC30	27500	11.585 V RC30	27500
11.585 V RC31	27500	11.585 V RC31	27500
11.585 V RC32	27500	11.585 V RC32	27500
11.585 V RC33	27500	11.585 V RC33	27500
11.585 V RC34	27500	11.585 V RC34	27500
11.585 V RC35	27500	11.585 V RC35	27500
11.585 V RC36	27500	11.585 V RC36	27500
11.585 V RC37	27500	11.585 V RC37	27500
11.585 V RC38	27500	11.585 V RC38	27500
11.585 V RC39	27500	11.585 V RC39	27500
11.585 V RC40	27500	11.585 V RC40	27500
11.585 V RC41	27500	11.585 V RC41	27500
11.585 V RC42	27500	11.585 V RC42	27500
11.585 V RC43	27500	11.585 V RC43	27500
11.585 V RC44	27500	11.585 V RC44	27500
11.585 V RC45	27500	11.585 V RC45	27500
11.585 V RC46	27500	11.585 V RC46	27500
11.585 V RC47	27500	11.585 V RC47	27500
11.585 V RC48	27500	11.585 V RC48	27500
11.585 V RC49	27500	11.585 V RC49	27500
11.585 V RC50	27500	11.585 V RC50	27500
11.585 V RC51	27500	11.585 V RC51	27500
11.585 V RC52	27500	11.585 V RC52	27500
11.585 V RC53	27500	11.585 V RC53	27500
11.585 V RC54	27500	11.585 V RC54	27500
11.585 V RC55	27500	11.585 V RC55	27500
11.585 V RC56	27500	11.585 V RC56	27500
11.585 V RC57	27500	11.585 V RC57	27500
11.585 V RC58	27500	11.585 V RC58	27500
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11.585 V RC67	27500	11.585 V RC67	27500
11.585 V RC68	27500	11.585 V RC68	27500
11.585 V RC69	27500	11.585 V RC69	27500
11.585 V RC70	27500	11.585 V RC70	27500
11.585 V RC71	27500	11.585 V RC71	27500
11.585 V RC72	27500	11.585 V RC72	27500
11.585 V RC73	27500	11.585 V RC73	27500
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11.585 V RC86	27500	11.585 V RC86	27500
11.585 V RC87	27500	11.585 V RC87	27500
11.585 V RC88	27500	11.585 V RC88	27500
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11.585 V RC92	27500	11.585 V RC92	27500
11.585 V RC93	27500	11.585 V RC93	27500
11.585 V RC94	27500	11.585 V RC94	27500
11.585 V RC95	27500	11.585 V RC95	27500
11.585 V RC96	27500	11.585 V RC96	27500
11.585 V RC97	27500	11.585 V RC97	27500
11.585 V RC98	27500	11.585 V RC98	27500
11.585 V RC99			

Main table containing satellite coverage data with columns for Freq Pol Channel Name, Symbol rate, GHz, and Symbol rate. Includes sub-sections for North Africa, Middle East, and various satellite coverage areas like ASTRA 3A, ASTRA 3B, and ASTRA 3C.



http://www.SatcoDX.com/0260 Coverage Code BADR03KB

11.823 V Algeria 27500

11.823 V Bouyouf Moulamena 27500

11.823 V Enteria 27500

11.823 V Enteria 27500

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http://www.SatcoDX.com/0215 Coverage Code AST03AKU

11.803 H STV 3 22000

11.803 H STV 22000

11.803 H ANIXE SD 28500

11.803 H CH BT + KT 27500

11.803 H CH2 BRK 27500

11.803 H CH3 BR 27500

11.803 H CH4 MAZ 27500

11.803 H Comedy Central 28500

11.803 H Dna 28500

11.803 H DELUXE 28500

11.803 H Eurosport 28500

11.803 H Eurosport 28500

http://www.SatcoDX.com/0255 Coverage Code EUB027B

11.012 H BLOOMBERG 27500

11.012 H CINEMA CITY 27500

11.012 H CINEMA CITY 27500

11.012 H CINEMA CITY 27500

11.012 H CINEMA CITY 27500

11.012 H CINEMA CITY 27500

11.012 H CINEMA CITY 27500

11.012 H CINEMA CITY 27500

11.012 H CINEMA CITY 27500

http://www.SatcoDX.com/0260 Coverage Code BADR04KB

11.823 V Allmanar 27500

11.823 V Allmanar 27500

11.803 H STV 3 22000

11.803 H STV 22000

SatcoDX Global Satellite Chart 02/2009

Freq Pol Channel Name	Symbol rate	GHz
12.130 H ALBAN TV	27500	
12.130 H ARIRANG	27500	
12.130 H ASHOROQ TV	27500	
12.130 H Decision Makers TV	27500	
12.130 H Dubai One	27500	
12.130 H Dubai Racing	27500	
12.130 H Dubai Sport	27500	
12.130 H Dubai Sports 2	27500	
12.130 H Dubai TV	27500	
12.130 H INFINITY Z	27500	
12.130 H IQRA	27500	
12.130 H Jawa	27500	
12.130 H Marasil	27500	
12.130 H Niat	27500	
12.130 H Sama Dubai	27500	
12.130 H SHARAJIA	27500	
12.130 H Al Mirbad Radio	27500	
12.130 H Al Adhah	27500	
12.149 H ALBHADIA	27500	
12.149 H Alhayat	27500	
12.149 H AlRwaad	27500	
12.149 H Amwaj	27500	
12.149 H Al Ardya	27500	
12.149 H Bedayah Neesaya TV	27500	
12.149 H Dafeel	27500	
12.149 H FUMoon Plus	27500	
12.149 H Hala TV	27500	
12.149 H Hayatouna TV	27500	
12.149 H Safta TV	27500	
12.149 H Whtanya	27500	
12.167 H MOOR DUBAI	27500	
12.167 H Ghiras TV	27500	
12.167 H MTV ARABIA	27500	
12.167 H Nickelodeon	27500	
12.167 H MOOR DUBAI	27500	
12.182 H AL-EMAN	16200	
12.182 H SHEBA	16200	
12.182 H YAMANIA	16200	
12.182 H YEMEN R1	16200	
12.182 H YEMEN R2	16200	
12.182 H YEMEN R3	16200	
12.182 H YEMEN R4	16200	
12.206 V Aslam Hawaa	27500	
12.206 V Al-Iraqia	27500	
12.206 V Al-majd	27500	
12.206 V Al-Madina Duran	27500	
12.206 V PEACE TV	27500	
12.206 V PSC	27500	
12.206 V Qatar TV	27500	
12.206 V RTD DUBOIT	27500	
12.206 V Sahara	27500	
12.206 V Shada	27500	
12.206 V Sudan TV	27500	
12.206 V Taba TV	27500	
12.206 V Al-Iraqia Duran	27500	
12.206 V Djibouti Radio	27500	
12.206 V PSC Radio	27500	
12.206 V Qatar Radio	27500	
12.206 V Radio Baghdad	27500	
12.206 V Sudan R1	27500	
12.206 V Sudan R2	27500	
12.206 V Tayba Radio	27500	
12.226 H Bahrain S5	27500	
12.226 H Bahrain Sport	27500	
12.226 H Bahrain TV	27500	
12.226 H Test 1	27500	
12.226 H Test 2	27500	
12.226 H Test 3	27500	
12.226 H Test 4	27500	
12.226 H Test 5	27500	
12.226 H Test 6	27500	
12.226 H Test 7	27500	
12.226 H Test 8	27500	
12.226 H Arab Classical Music	27500	
12.226 H Bahrain FM	27500	
12.226 H Bahrain Radio genera	27500	
12.226 H Holy Quran Channel	27500	
12.226 H News Channel	27500	
12.226 H Radio Bahrain	27500	
12.226 H Test 1	27500	
12.226 H Traditional Music	27500	
12.284 V Aamal	27500	
12.284 V AL-SENAEA I -	27500	
12.284 V DAWA	27500	
12.284 V Entria	27500	
12.284 V Ethiopia	27500	
12.284 V Futura USA	27500	
12.284 V Mauritania TV	27500	
12.284 V Montada	27500	
12.284 V RAMATTAN MOBASHER	27500	
12.284 V Rawas TV	27500	
12.284 V Roayah	27500	
12.284 V Scope TV	27500	
12.284 V Syrian Education	27500	
12.284 V EMARAT FM	27500	
12.284 V Entria R1	27500	
12.284 V Entria R2	27500	
12.284 V Entria R3	27500	
12.284 V Entria R4	27500	
12.284 V Ethiopia R2	27500	
12.284 V Mauritania R	27500	
12.284 V Radio Orient	27500	
12.523 H ETHRAA	27500	
12.523 H KTV CH1	27500	
12.523 H KTV CH2	27500	
12.523 H KUWAIT QHD	27500	
12.523 H KUWAIT FEED	27500	
12.523 H SPORT PLUS	27500	
12.523 H YOUTH SPORT	27500	
12.302 H Aamal	27500	
12.302 H Montada	27500	
12.302 H Pula Maker	27500	
12.302 H Rawas TV	27500	
12.302 H Roayah	27500	
12.302 H Scope TV	27500	

Freq Pol Channel Name	Symbol rate	GHz
11.759 H 1383	27500	
11.759 H Disc:Knowledge	27500	
11.759 H 1385	27500	
11.759 H 1386	27500	
11.759 H 1387	27500	
11.759 H 1388	27500	
11.759 H 1389	27500	
11.759 H 1481	27500	
11.759 H 1482	27500	
11.759 H 1483	27500	
11.759 H 1484	27500	
11.759 H 1485	27500	
11.759 H 1486	27500	
11.759 H 1487	27500	
11.759 H 1488	27500	
11.759 H 1489	27500	
11.759 H Music Choice	27500	
11.778 H 70s	27500	
11.778 H 90s	27500	
11.778 H All Day Party	27500	
11.778 H Boomerang+1	27500	
11.778 H Bass, Breaks & Beats	27500	
11.778 H Blues	27500	
11.778 H Bollywood Hits	27500	
11.778 H Chillout	27500	
11.778 H Classic R'n'B & Soul	27500	
11.778 H Classic Rock	27500	
11.778 H Classical Greats	27500	
11.778 H Classical Orchestral	27500	
11.778 H Cocktail Lounge	27500	
11.778 H Country	27500	
11.778 H DanceFloor Fillers	27500	
11.778 H Drive	27500	
11.778 H Disco	27500	
11.778 H Groove Disco & Funk	27500	
11.778 H Hard Than Hell	27500	
11.778 H Hip Hop	27500	
11.778 H Jazz Classics	27500	
11.778 H Jazz	27500	
11.778 H Kids	27500	
11.778 H New Age	27500	
11.778 H Ragga	27500	
11.778 H Revival (60s-70s)	27500	
11.778 H Rewind (80s-90s)	27500	
11.778 H Rock'n'Roll	27500	
11.778 H Rock Anthems	27500	
11.778 H Schlager	27500	
11.778 H Slik (Love Songs)	27500	
11.778 H The Alternative - UK	27500	
11.778 H The Alternative-GER	27500	
11.778 H Total Hits - France	27500	
11.778 H Total Hits - Germany	27500	
11.778 H Total Hits - Italy	27500	
11.778 H Total Hits - Nl	27500	
11.778 H Total Hits - Spain	27500	
11.778 H Total Hits - UK	27500	
11.778 H Turk Muziki	27500	
11.778 H World Music	27500	
11.778 H EPG Background Audio	27500	
11.778 H IEPG data 1	27500	
11.836 H Sky Classics	27500	
11.836 H Sky Drama	27500	
11.836 H Sky Family	27500	
11.836 H Sky Indie	27500	
11.836 H Sky SciFi/Horror	27500	
11.856 H New	29500	
11.856 H Sky Family HD	29500	
11.856 H Sky Screen 2HD	29500	
11.915 H TV	27500	
11.934 V Cust Chan Active	27500	
11.934 V Sky Cust Ch	27500	
11.954 H 6736	27500	
11.954 H BBC News	27500	
11.954 H BBC PARLMT	27500	
11.954 H IT France	27500	
11.954 H IT STRM-1	27500	
11.954 H 1Xtra BBC	27500	
11.954 H BBC London	27500	
11.954 H FOX Sports 1	27500	
11.954 H BBC7	27500	
11.954 H BBC Asian N	27500	
11.954 H BBC Cybern	27500	
11.954 H Sky Sports 2	27500	
11.954 H BBC Sport	27500	
11.954 H BBC R Usiter	27500	
11.954 H BBC Wales	27500	
11.954 H Sky Sports - France	27500	
11.954 H BBC R2	27500	
11.954 H BBC R3	27500	
11.954 H BBC R4	27500	
11.954 H BBC News	27500	
11.954 H BBC WS	27500	
11.954 H ETV3	27500	
11.954 H EuroSport 2 UK	27500	
11.954 H HNR Lowr	27500	
11.954 H EuroComedy 2	27500	
11.954 H ST1test	27500	
11.954 H Sky Sports 1	27500	
11.954 H Sky Sports News	27500	
11.954 H Sky Spis Xtra	27500	
11.954 H SP News	27500	
11.954 H SP Xtra	27500	
11.954 H CAL Test 1	27500	
11.954 H Channel 4	27500	
11.954 H 1837	27500	
11.954 H 1840	27500	
11.954 H 1871 - OSM Test	27500	
11.954 H 1888 - Gael	27500	
11.954 H Q	27500	
11.954 H Sky One	27500	
11.954 H Sky Three	27500	
11.954 H Sky TV	27500	
11.954 H The Box	27500	
11.954 H CommunityChnl	27500	
11.954 H Movie Quiz	27500	
11.954 H Vegas Monty	27500	
11.954 H Sky Bet, Vegas & Sky	27500	
11.954 H Vegas Pyramid	27500	
11.954 H Vegas Rainbow Riches	27500	
11.954 H WAP Browser-1	27500	
11.954 H WAP Browser 2	27500	
11.954 H WAP Browser 3	27500	
11.954 H WAP Browser 4	27500	
11.954 H WAP Browser 5	27500	
11.954 H WAP Browser 6	27500	
11.954 H WAP Browser 7	27500	
11.954 H WAP Browser 8	27500	
11.954 H WAP Browser 9	27500	
11.954 H WAP Browser 10	27500	
11.954 H WAP Browser 11	27500	
11.954 H WAP Browser 12	27500	
11.954 H WAP Browser 13	27500	
11.954 H WAP Browser 14	27500	
11.954 H WAP Browser 15	27500	
11.954 H WAP Browser 16	27500	
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11.954 H WAP Browser 39	27500	
11.954 H WAP Browser 40	27500	
11.954 H WAP Browser 41	27500	
11.954 H WAP Browser 42	27500	
11.954 H WAP Browser 43	27500	
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11.954 H WAP Browser 91	27500	
11.954 H WAP Browser 92	27500	
11.954 H WAP Browser 93	27500	
11.954 H WAP Browser 94	27500	
11.954 H WAP Browser 95	27500	
11.954 H WAP Browser 96	27500	
11.954 H WAP Browser 97	27500	
11.954 H WAP Browser 98	27500	
11.954 H WAP Browser 99	27500	
11.954 H WAP Browser 100	27500	

Freq Pol Channel Name	Symbol rate	GHz
11.876 H Disc:Knowledge	27500	
11.876 H Disc:RealTime	27500	
11.876 H Disc:Europe UK	27500	
11.876 H Disc:Travel&L	27500	
11.876 H Disc:Turco	27500	
11.876 H Disc:Parody	27500	
11.876 H Disc:Discovery+1	2750	

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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
11.892 H NTV	12800	11.859 V KIBIRI BENC TV	2960	11.980 V Z TV	4150	11.766 H TURKAST TEST 7	27500	11.843 H ESPN CLASSIC	27500	11.973 V HALY	27500
11.892 H NTV Sport	12800	11.859 V MNC TURK	2960	11.980 V ZAZANTEP OLAY	2200	11.766 H UNIA	27500	11.843 H SHOWMOVIES	27500	11.973 V Kanal Avrupa	27500
11.892 H NTV Radyo	12800	11.859 V CYS FREQ	2960	11.103 V KANAL 55	2175	11.766 H Abu Dhabi Radio	27500	11.843 H TRAVEL & LIVING	27500	11.973 V BERAT	27500
11.892 H NTV Eksen	12800	11.859 V FIRST FM	2960	11.102 V D COÇUK	30000	11.766 H POLIS RADYOSU	27500	11.843 H WORLD	27500	11.973 V HALY	27500
11.905 H KANAL D	6666	11.973 V KONTY	2200	11.102 V D YAGILGAM	30000	11.778 V AL SHARJAH	27500	11.843 H CNN INTERNATIONAL	27500	11.973 V Kanal Avrupa	27500
11.905 H SMART HITS	6666	11.956 V AS10	26000	11.102 V D YAGILGAM	30000	11.778 V AL SHARJAH	27500	11.843 H D SHOPPING	27500	11.973 V TGRTR FM	27500
11.905 H SMART JAZZ	6666	11.956 V DEM	26000	11.102 V D FOX	30000	11.778 V RAYO 7	4800	11.843 H FASHION TV	27500	11.973 V TGRTR FM	27500
11.905 H SMART OLDSIES	6666	11.956 V DugumTV	26000	11.102 V D LOKA1	30000	11.778 V RAYO 7	4800	11.843 H KANAL D	27500	11.973 V (Empty Name)	5200
11.905 H SMART ROCK	6666	11.956 V Genc TV	26000	11.102 V D LOKA2	30000	11.778 V AL SHARJAH	27500	11.843 H TV 35	27500	11.973 H NIKEDOL	27500
11.905 H SMART SLOW	6666	11.956 V GERCEK TV	26000	11.102 V D LOKA3	30000	11.778 V CNC-ARABYA	27500	11.843 H Kanal 5	27500	11.973 H TURK TURK	27500
11.905 H IRADYO PORTAL	6666	11.956 V HAYAT TV	26000	11.102 V D MARC DORCEL	30000	11.778 V Dubai One	27500	11.844 V Clup TV	4444	11.973 H Radio-5	27500
11.905 H RADYO D	6666	11.956 V KANAL 12	26000	11.102 V D MOVIES 24	30000	11.778 V Dubai Racing Channel	27500	11.844 V Tarafar TV	4444	11.973 H YON FM	27500
11.920 H ANKA TV	3333	11.956 V KANAL 10	26000	11.102 V D MOVIES 24 EROTICA	30000	11.778 V Dubai Sports	27500	11.844 V AKILLI TV	4444	11.973 H ShowMovies	27500
11.970 H EUROSPORT HD	17900	11.956 V M-ON	26000	11.102 V D MOVIESMART	30000	11.778 V Dubai TV	27500	11.844 V Smart	4444	11.973 H ShowMovies 2	27500
11.970 H HDTV SMART	17900	11.956 V Manolya TV	26000	11.102 V D PEMBESMART	30000	11.778 V MusicPlus	27500	11.844 V Clup TV	4444	11.973 H ShowMovies 2	27500
11.970 H DISCOVERY HD	17900	11.956 V MAVI KARADENIZ	26000	11.102 V D YESILGAM XXX	30000	11.778 V NOJOM 1	27500	11.844 V Tarafar TV	4444	11.973 H ShowMovies Extra	27500
11.970 H KANAL D HD	17900	11.956 V Genc TV	26000	11.102 V D SMART PROM	30000	11.778 V Sams Dubai	27500	11.845 V AKILLI TV	4444	11.973 H ShowMovies Com	27500
11.970 H Nickelodeon	4000	11.956 V TURKISHWORLD	26000	11.102 V D Z TV	27500	11.778 V Space Toon Arabic	27500	11.845 V AKILLI TV	4444	11.973 H ShowMovies Fam	27500
11.984 H MTV TURKEY	4000	11.956 V TV 5 Int	26000	11.102 V D SMART HITS	30000	11.778 V Space Toon Arabic	27500	11.845 V TGRTR FM	3150	11.973 H ShowSeries	27500
12.002 H atv	4800	11.956 V TURKISHOP	26000	11.102 V D SMART JAZZ	30000	11.778 V AL SHARJAH RADIO	27500	11.857 V ANIMAL PLANET	27500	11.973 H ShowSeries Extra	27500
12.008 H KANAL 1	4400	11.956 V YoTV	26000	11.102 V D SMART OLDSIES	30000	11.778 V EDTV Radio E	27500	11.857 H ANIMAL PLANET	27500	11.973 H ShowSports 1	27500
12.008 H Intercom	4400	11.956 V DEM RADYO	26000	11.102 V D SMART ROCK	30000	11.778 V ANIMAL PLANET	27500	11.857 H CNN INTERNATIONAL	27500	11.973 H ShowSports 2	27500
12.008 H MARMARA RADYO	4400	11.956 V KUFE FM	26000	11.102 V D SMART SLOW	30000	11.785 H ARV	27500	11.862 H COMEDY SMART	27500	11.973 H ShowSports 3	27500
12.015 H TGRTR Haber	4800	11.956 V Metro FM	26000	11.104 V D YESILGAM	2050	11.785 H ASIA	27500	11.862 H DISCOVERY CHANNEL	27500	11.973 H BASKET-FAB TV	27500
12.015 H TGRTR Pazartama	4800	11.956 V Super FM	26000	11.106 V D FASHIONCANE	30000	11.785 H ASIA	27500	11.862 H Disney Channel	27500	11.973 H BASKET-FAB TV	27500
12.020 H ANKA TV	3333	12.126 V KANAL INT	6666	11.106 V D FASHIONCANE	30000	11.785 H BAUM	27500	11.862 H CNN INTERNATIONAL	27500	11.973 H BASKET-FAB TV	27500
12.022 H FOX	5380	12.126 V tv	6666	11.106 V D DA VINCI LEARNING	30000	11.785 H BAUM	27500	11.862 H ESPN CLASSIC	27500	11.973 H BUSINESS CHANNEL	27500
12.028 H samanyolu tv	4557	12.126 V ULKE TV	6666	11.106 V D FANTASY	30000	11.785 H Discovery Science	27500	11.862 H EUROSPORT	27500	11.973 H HUB TV	27500
12.028 H Bure FM	4557	12.126 V ...	6666	11.106 V D FOX	30000	11.785 H FOXN	27500	11.862 H JimJam/Extreme	27500	11.973 H MORA TV	27500
12.028 H NTV Radyo	4557	12.126 V ...	6666	11.106 V D LOKA1	30000	11.785 H FOXN	27500	11.862 H Nasa TV	27500	11.973 H MORA TV TEST 1	27500
12.028 H Shaber Radyo	4557	12.126 V RADYO 7	6666	11.106 V D LOKA2	30000	11.785 H JAXA	27500	11.862 H SCIENCE	27500	11.973 H MORA TV TEST 2	27500
12.127 H Blnko TV	7400	12.134 V BUSINESS	3333	11.106 V D LOKA3	30000	11.785 H RTV	27500	11.862 V ShowComedy Xtra	27500	11.973 H TURKAST TEST 4	27500
12.127 H Denge TV	7400	12.140 V NUMBER ONE TV	4444	11.106 V D MARC DORCEL	30000	11.785 H S-ONE	27500	11.862 V ShowShasha	27500	11.973 H TURKAST TEST 5	27500
12.127 H Ekin TV	7400	12.140 V TURKAST ANITIM	4444	11.106 V D MOVIES 24	30000	11.785 H SKY TV	27500	11.862 V ShowShasha	27500	11.973 H TURKAST TEST 6	27500
12.127 H Ekin TV	7400	12.140 V NUMBER ONE FM	4444	11.106 V D MOVIES 24 EROTICA	30000	11.785 H STARN	27500	11.862 H TRAVEL & LIVING	27500	11.973 H TURKAST TEST 7	27500
12.127 H ILAN TV	7400	12.140 V POLIS RADYOSU	4444	11.106 V D MOVIESMART	30000	11.785 H TENSP	27500	11.862 H WORLD	27500	11.973 H TURKAST TEST 8	27500
12.127 H IMAN TV	7400	12.140 V RADYO KLAS	4444	11.106 V D PEMBESMART	30000	11.785 H UKTV	27500	11.862 V Al Waha	27500	12.015 H BASKET-FAB TV	27500
12.127 H Piny	7400	12.140 V RADYO MYDONOSE	4444	11.106 V D SMART PROM	30000	11.785 H AL SHARJAH	27500	11.862 V Cartoon Network	27500	12.015 H BASKET-FAB TV	27500
12.127 H Kanal 6	7400	12.140 V AZAD AZERBAJAN	2800	11.106 V D Z TV	27500	11.785 H CNC-ARABYA	27500	11.862 V Chato	27500	12.015 H BASKET-FAB TV	27500
12.135 H ASTRO	3703	12.140 V Z TV	4150	11.106 V D SMART HITS	30000	11.785 H Dubai One	27500	11.862 V City 7 TV	27500	12.015 H BUSINESS CHANNEL	27500
12.135 H FASIL	3703	12.140 V Dunya Radyo	4400	11.106 V D SMART JAZZ	30000	11.785 V Dubai Racing Channel	27500	11.862 H D SHOPPING	27500	12.015 H HALY	27500
12.135 H ALJAZEER	2222	12.140 V Dunya Radyo	4400	11.106 V D SMART OLDSIES	30000	11.785 V Dubai Sports	27500	11.862 H FASHION TV	27500	12.015 H Kanal Avrupa	27500
		12.140 V SHOPPING	3125	11.106 V D SMART ROCK	30000	11.785 V Dubai TV	27500	11.862 H KANAL D	27500	12.015 V MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART SLOW	30000	11.785 V MusicPlus	27500	11.862 V Nojom 3	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART PROM	30000	11.785 V NOJOM 1	27500	11.862 V ShowToday	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART ROCK	30000	11.785 V SKYTRUK	27500	11.862 H TV 35	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART SLOW	30000	11.785 V SHARQYA	27500	11.862 V TXT	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART PROM	30000	11.785 V Space Toon Arabic	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART ROCK	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART SLOW	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART PROM	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART ROCK	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART SLOW	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART PROM	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART ROCK	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART SLOW	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART PROM	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART ROCK	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART SLOW	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART PROM	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART ROCK	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART SLOW	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART PROM	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART ROCK	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART SLOW	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART PROM	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART ROCK	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART SLOW	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART PROM	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART ROCK	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART SLOW	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART PROM	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART ROCK	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV	27500
		12.140 V SKYTRUK	4444	11.106 V D SMART SLOW	30000	11.785 V TURKAST ANITIM	27500	11.862 V Arabie EPG	27500	12.015 H MORAL TV</	

Freq Pol Channel Name	Symbol rate GHz	Freq Pol Channel Name	Symbol rate GHz	Freq Pol Channel Name	Symbol rate GHz	Freq Pol Channel Name	Symbol rate GHz	Freq Pol Channel Name	Symbol rate GHz	Freq Pol Channel Name	Symbol rate GHz
12.553 H Viva	8888	11.977 H DISCOVERY	27500	11.996 V Mjude Akdeniz	26000	11.591 V Star Movies	27689	11.044 V Radio CH53	44950	4.055 R Sawa N. Africa Radio	26000
12.553 H Nesali TURK	8888	11.977 H NIGEL	27500	11.996 V Mjude Radyo Faga	26000	11.591 V Star World	27689	11.044 V Radio CH53	44950	4.055 R Sawa Sudan Radio 455	26000
12.553 H Radyo Viva	8888	11.977 H NICKLEODEON	27500	11.996 V Oqsur Radyo Ankara	26000	11.591 V Star World	27689	11.095 V NTN	6400	4.055 R VOJ Dibouti/Farda	26000
12.553 H Show Radyo	8888	11.977 H KANAL 7	27500	11.996 V RADYO	26000	11.591 V Zee Cinema	27689	11.095 V RUTR	6400	4.055 R VOA Sawa Iradi	26000
12.553 H Rastko 2	27500	11.977 H NTV	27500	11.996 V RADYO SAHIN	26000	11.591 V Zee Cinema	27689	11.095 V UER	6400	4.055 R VOA Sawa Levant Ra	26000
12.559 V BERAT	27500	12.008 H ATV Turkiye	4800	11.996 V RADYO TATLISES	26000	11.591 V Zee Cinema	27689	11.161 V STV	5785	4.055 R RTI Kabon	27500
12.559 V HALAY	27500	12.008 H Kanal 1	4400	11.996 V Radyo Time	26000	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.597 V Kanal Avrupa	27500	12.008 H Turc K	4400	11.996 V Radyo Vatn	26000	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.601 H KANAL A	4400	12.017 H NIGEL	27500	11.996 V RAYO SAHIN	26000	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.601 H Radyo A	4400	12.017 H TRT Haber TV	8150	11.996 V RAYO SAHIN	26000	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.602 H KANAL A	4400	12.017 H TRT Pazarlama TV	8150	11.996 V RAYO SAHIN	26000	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.602 H KANAL A	4400	12.017 H Blank audio channel	8150	11.996 V RAYO SAHIN	26000	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.607 H OLAY TV LF M	2650	12.017 H TRT FM	8150	11.996 V RAYO SAHIN	26000	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.609 V IMEDI TV	3700	12.028 H Samanyolu TV	4557	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.615 V atv Avrupa	4800	12.134 V Audio tests	4557	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.615 V TURKUVAZ	4800	12.141 V EAS PROMO	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.615 V	4800	12.141 V NUMBER ONE TV TES	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.615 V atv radyo	4800	12.141 V TURKAS TEST 2	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.620 V YENI ASIR TV	2400	12.141 V NUMBER ONE FM	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.620 V MPTV	2222	12.141 V RADYO KLAS	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.620 V MPR RADIO	2222	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.620 V KANAL BIZ	2222	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.620 V BERAT	2300	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.620 V HALAY	2300	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.620 V Kanal Avrupa	2300	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.620 V EGE TV	2300	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.624 H Kral Avrupa	4800	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.624 H NTV Bati	4800	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.624 H Intercom	4800	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.624 H AKSU TV	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.624 V LALEGUL FM	2960	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.624 V KAKAR TV	3333	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.624 V Rze TV	3600	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.624 V TEST	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.624 V TravelTurk	3600	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.624 V YILDIZ TV	3333	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.624 V KAKAR FM	3333	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.624 V RIJZENIN SESI	3333	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.624 V TEST	3333	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.625 H SKYTURK	4250	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.625 V HABERTURK TV	3900	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.625 V YABAN TV	3900	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.625 V Intercom	3900	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.625 H SHOW TV	4444	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.625 V D MACK	9150	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.625 V DNA FEED	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.625 V MARC DORCEL	9150	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.625 V PEMBE SMART	9150	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.626 V BERAT	2344	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.626 V HALAY	2344	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.626 V Kanal Avrupa	2344	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.627 V 24	8888	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.627 V STR	8888	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.627 V Radyo ABC	8888	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.627 V AKSU TV	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H G. ANTEP OLAY TV	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H HILAL TV	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H KANAL 35	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H KANAL 7	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H MAVI KARADENIZ	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H TEMPO TV	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H TURKAS TEST 1	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H TURKAS TEST 2	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H TURKAS TEST 3	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H TURKAS TEST 4	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H TURKAS TEST 5	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H TV 58	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H VATAN TV	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H GOZYASI FM	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H SEYR FM	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H AKSU TV	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H G. ANTEP OLAY TV	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H HILAL TV	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H KANAL 35	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H KANAL 7	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H MAVI KARADENIZ	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	
12.628 H TEMPO TV	3000	12.141 V RADYO MYDONOSE	4442	12.126 V NIGEL	27500	11.632 V CH 18	27689	12.639 V TV	26929	6.0 East	

Main table containing satellite data with columns for Freq Pol Channel Name, Symbol rate, GHz, and various satellite names like ASIASAT 2, ASIASAT 35, and ASIASAT 100.5 East.

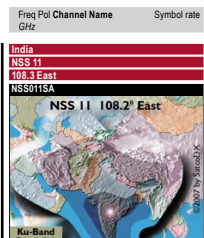


Table listing satellite channels for the ASIASAT 100.5 East satellite, including channel names like NSS10A, NSS II 108.2 East, and BSAT 1A.2A.

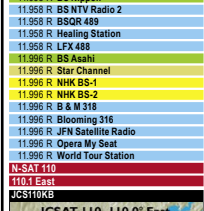


Table listing satellite channels for the ASIASAT 108.0 East satellite, including channel names like TELKOM 108.0 East, BSAT 1A.2A, and NSS10A.



Table listing satellite channels for the ASIASAT 107.7 East satellite, including channel names like CAKRAWARTA 107.7 East, NSS10A, and NSS II 108.2 East.



Table listing satellite channels for the ASIASAT 108.2 East satellite, including channel names like NSS II 108.2 East, NSS10A, and NSS II 108.2 East.

Table listing satellite channels for the ASIASAT 108.2 East satellite, including channel names like NSS II 108.2 East, NSS10A, and NSS II 108.2 East.

SatcoDX Global Satellite Chart 02/2009

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
4.067 V Lnh Rzhd	5990	3.840 H CCTV-11	27500	4.375 V zht-2Stereo	5990	11558 R Skywave Info	24440	12.688 V Cinema R	21096	3.414 V VTV3	9768
4.067 V Lnh Rzhd	5990	3.840 H CCTV-12	27500	4.192 V Hebei TV	6000	11558 R Sport Channel	24440	12.688 V Kinokan	21096	3.414 V VTV4	9768
4.067 V SW1 stereo	5990	4.192 V Hebei Radio2	27500	4.192 V Hebei Radio2	6000	11558 R Goal 2	24440	12.688 V Korea Pop	21096	3.414 V VTV5	9768
4.067 V SW2 stereo	5990	3.840 H CCTV-MUSIC	27500	4.192 V Hebei Radio3	6000	11727 R Happy Together	24437	12.688 V Korean Songs	21096	C-Band: APSTAR 6	
4.067 V ZH1 stereo	5990	3.840 H CCTV-News date	27500	4.192 V HebeiRadio2	6000	11727 R Sky	24437	12.688 V Latin	21096	133.4 East	
4.067 V ZH2 stereo	5990	3.846 V SHANXI SAT TV	5950	4.192 V HebeiRadio3	6000	11727 R ANIMAX	24437	12.688 V MuzoTalk	21096	AP5006CB	
4.067 V ZH3 stereo	5990	3.846 V SHANXI TV	5950	KOREASAT 3 116.0° East		11727 R AXN	24437	12.688 V Okinawa Music	21096	APSTAR 6 134.0° East	
4.067 V ZH4 stereo	5990	3.854 V Henan TV	4420	11727 R BBC	24437	11727 R RCTV	24437	12.688 V Oldies	21096	C-Band	
4.067 V zht-2Stereo	5990	3.854 V HN Radio5	4420	11727 R Bloomberg	24437	11727 R CCTV-9	24437	12.688 V R&B & Soul	21096	31 36 40	
C-Band: CHINAPAC-2		3.854 V HN Radio2	4420	11727 R CCTV-4	24437	11727 R ETV Asia	24437	12.688 V Rock/Pop Artists 5	21096	132.0 East	
3.765 H TVRI JKT	5555	3.854 V HN Radio4	4420	11727 R CCTV-9	24437	11727 R ETV Asia	24437	12.688 V Rock/Pop Artists 6	21096	132.0 East	
3.774 H rcti	6520	3.854 V HN Radio5	4420	11727 R ETV Asia	24437	11727 R ETV Asia	24437	12.688 V Rock/Pop Artists 7	21096	132.0 East	
3.774 H rcti	6520	3.861 V Ningxia Radio	4800	11727 R ETV Asia	24437	C-Band: ASIATASAT 4		12.688 V Rock/Pop Artists 8	21096	132.0 East	
3.774 H Trijaya Network	6520	3.871 V NLTV	9080	11727 R ETV Asia	24437	122.1 East		12.688 V Rock/Pop Artists 9	21096	132.0 East	
3.925 H Service 1	4208	3.871 V SKTVS	9080	11727 R ETV Asia	24437	3.827 H Guangxi TV	5720	12.688 V Rock/Pop Artists 10	21096	132.0 East	
3.934 H PT SCTV IDJKT	6620	3.871 V SK-NG/IGS-BC	9080	11727 R ETV Asia	24437	3.845 H Guangdong	17800	12.688 V Rock/Pop Artists 11	21096	132.0 East	
3.935 H rcti	3000	3.871 V SK-XiJiao-BC	9080	11727 R ETV Asia	24437	3.853 H HLJ	6800	12.688 V Rock/Pop Artists 12	21096	132.0 East	
3.935 H rcti	3000	3.871 V SK-XiJiao-BC	9080	11727 R ETV Asia	24437	3.909 H JMR	8934	12.688 V Rock/Pop Artists 13	21096	132.0 East	
3.936 V Trijaya Network	3000	3.871 V SK-XiJiao-BC	9080	11727 R ETV Asia	24437	3.922 H Yunnan	7250	12.688 V Rock/Pop Artists 14	21096	132.0 East	
4.000 H PT SCTV IDJKT	6620	3.871 V SK-NG/IGS-BC	9080	11727 R ETV Asia	24437	3.933 H Travel TV	6590	12.688 V Rock/Pop Artists 15	21096	132.0 East	
4.000 H rcti	6620	3.871 V SK-SHao-BC	9080	11727 R ETV Asia	24437	3.989 H KZTV	5600	12.688 V Rock/Pop Artists 16	21096	132.0 East	
4.000 H rcti	6620	3.871 V SK-XiJiao-BC	9080	11727 R ETV Asia	24437	3.990 H Hui	21096	12.688 V Rock/Pop Artists 17	21096	132.0 East	
4.000 H Trijaya Network	6620	3.871 V SK-XiYun-BC	9080	11727 R ETV Asia	24437	4.000 H CTCTV	27500	12.688 V Rock/Pop Artists 18	21096	132.0 East	
4.053 V ANTEVE	6510	3.880 H CCTV-3	27500	11727 R ETV Asia	24437	4.120 H Xinjiang	27500	12.688 V Rock/Pop Artists 19	21096	132.0 East	
4.053 H ASIANLINK	5640	3.880 H CCTV-6	27500	11727 R ETV Asia	24437	4.160 H CCTV	27500	12.688 V Rock/Pop Artists 20	21096	132.0 East	
4.053 V ANTEVE	6510	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	128.0 East		12.688 V Rock/Pop Artists 21	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-8	27500	11727 R ETV Asia	24437	12.268 V Green Channel	21096	12.688 V Rock/Pop Artists 22	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V Kit Maxx Club	21096	12.688 V Rock/Pop Artists 23	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 24	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 25	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 26	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 27	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 28	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 29	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 30	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 31	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 32	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 33	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 34	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 35	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 36	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 37	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 38	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 39	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 40	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 41	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 42	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 43	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 44	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 45	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 46	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 47	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 48	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 49	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 50	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 51	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 52	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 53	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 54	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 55	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 56	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 57	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 58	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 59	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 60	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 61	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 62	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 63	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 64	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 65	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 66	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 67	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 68	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096	12.688 V Rock/Pop Artists 69	21096	132.0 East	
4.074 V rcti	6500	3.880 H CCTV-9	27500	11727 R ETV Asia	24437	12.268 V The University of th	21096				

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
12.355 V 04-FASHION TV	43000	12.643 H JS3	21096	12.421 H CHV	22500	12.733 V DMC	22500	12.728 V ABC FM NT	24450
12.355 V 05-SUN TV	43000	12.643 H KSD	21096	12.421 H DSPT	22500	12.733 V FGA	22500	12.728 V ABC FM Q	24450
12.355 V 06-MASTV	43000	12.643 H NBC	21096	12.421 H DTV	22500	12.733 V ERT	22500	12.728 V ABC FM SA	24450
12.355 V 07-ATV	43000	12.643 H SHP	21096	12.421 H KAN7	22500	12.733 V Kurdist	22500	12.728 V ABC FM SE	24450
12.355 V 08-ATV	43000	12.643 H VSC	21096	12.421 H MAZZ	22500	12.733 V Oman TV	22500	12.728 V ABC JJJ	24450
12.355 V 09-TVBS	43000	12.643 H FOX Japan	21096	12.421 H M20	22500	12.733 V Russia Today	22500	12.728 V ABC KQ	24450
12.355 V 10-TV XINGHE	43000	12.305 V Feed	5275	12.421 H CTV	22500	12.733 V TGN	22500	12.728 V ABC RN CT	24450
12.355 V 11-TVBS	43000	12.597 V Radio	21096	12.421 H PACE	22500	12.733 V TVRI	22500	12.728 V ABC RN Q	24450
12.355 V 12-TVBS	43000	12.628 V Test Card	21096	12.519 V MPT India	22500	12.733 V Suryan FM	22500	12.728 V ABC RR V	24450
12.355 V 13-CTVNEWS	43000	12.718 V Dream FM 107	21096	12.519 V Star Gold	22500	12.733 V ABC RR X	24450	12.728 V ABC RR Y	24450
12.355 V 14-UBNEWS	43000	12.718 V The Mahabuy Channel 2	21096	12.519 V Star One	22500	12.733 V ABC RR Z	24450	12.728 V ABC RR AA	24450
12.355 V 15-HALLMARK CHAN	43000	12.718 V The Mahabuy Channel 3	21096	12.519 V Star Plus	22500	12.733 V ABC RR BB	24450	12.728 V ABC RR CC	24450
12.355 V 16-ZHUJIANG	43000	12.718 V The Mahabuy Channel 4	21096	12.519 V Zee TV	22500	12.733 V ABC RR DD	24450	12.728 V ABC RR EE	24450
12.355 V 17-CTVNEWS	43000	12.686 V Da Ai	2900	12.519 V Al Hayat	22500	12.733 V ABC RR FF	24450	12.728 V ABC RR GG	24450
12.355 V 18-OC	43000	12.686 V DAAITV	3400	12.519 V Sun	22500	12.733 V ABC RR HH	24450	12.728 V ABC RR II	24450
12.355 V 19-CTV	43000	12.686 V CTS IQ Channel	2000	12.519 V SMTV	22500	12.733 V ABC RR JJ	24450	12.728 V ABC RR KK	24450
12.355 V 20-MTV	43000	12.686 V CTS 180	1700	12.546 V IAC	22500	12.733 V ABC RR LL	24450	12.728 V ABC RR MM	24450
12.355 V 21-CTV HD	43000	12.686 V DAAITV	3400	12.546 V nba3_Thai	22500	12.733 V ABC RR NN	24450	12.728 V ABC RR OO	24450
12.355 V 22-LIVE TV	43000	12.686 V CTS IQ Channel	2000	12.546 V nba3_Thailand	22500	12.733 V ABC RR PP	24450	12.728 V ABC RR QQ	24450
12.355 V 23-CTV	43000	12.686 V CTS 180	1700	12.546 V nba3_Thailand	22500	12.733 V ABC RR RR	24450	12.728 V ABC RR SS	24450
12.355 V 24-CELESTIAL TV	43000	12.686 V CTS 180	1700	12.546 V nba3_Thailand	22500	12.733 V ABC RR TT	24450	12.728 V ABC RR UU	24450
12.355 V 25-Channel TVB3 3001	43000	12.686 V CTS 180	1700	12.546 V nba3_Thailand	22500	12.733 V ABC RR VV	24450	12.728 V ABC RR WW	24450
C-Band [153734.3]									
153.8 East									
3.599 V 13 亞洲本港台	30000	3.645 H Test	1171	3.725 V GMT Manila	13432	12.546 V nba3_Thai	22500	12.518 H COMEY+2	27800
3.599 V 15 PTS DIMCO 公視	30000	3.671 V Feeds	1851	3.725 V International 1	13432	12.546 V nba3_Thailand	22500	12.518 H FOX+2	27800
3.599 V 16 MCCA 電影台	30000	3.715 V FOX Japan	3000	3.725 V International 2	13432	12.546 V nba3_Thailand	22500	12.518 H LIFESTYLE+2	27800
3.599 V 17 ETV-N 東森新聞台	30000	3.810 V Chat TV 1	4300	3.725 V International 3	13432	12.546 V nba3_Thailand	22500	12.518 H Showtime+2	27800
3.599 V 18 ETV-Asia 東森亞洲台	30000	3.810 V ST Channel	4300	3.725 V QTV	13432	12.546 V nba3_Thailand	22500	12.518 H TVI+2	27800
3.599 V 19 TVT WORLD 台灣國際台	30000	3.834 H Testing	2612	4.113 V VLNAT	2170	12.546 V nba3_Thailand	22500	12.518 H UKTV+2	27800
3.599 V 20 JET 日本台	30000	3.854 H NBN	2612	4.113 V BEAT	2170	12.546 V nba3_Thailand	22500	12.518 H MTV	27800
3.599 V 21 ETV-Yo 東森幼幼台	30000	3.837 V Channel 11	2612	4.113 V DZRH	2170	12.546 V nba3_Thailand	22500	12.518 H EURD	27800
3.599 V 22 Test1	30000	3.854 H TCT World	3000	4.113 V KIDS FM	2170	12.546 V nba3_Thailand	22500	12.518 H CESE	27800
3.599 V 23 Test2	30000	3.870 H ABC 5	3566	4.113 V LOVE	2170	12.546 V nba3_Thailand	22500	12.518 H COLM	27800
3.599 V 24 Test3	30000	3.951 H ABC 9	3566	4.113 V VELO	2170	12.546 V nba3_Thailand	22500	12.518 H ROLM	27800
3.599 V 25 Test4	30000	3.885 H RPN 9	3566	4.113 V YES FM	2170	12.546 V nba3_Thailand	22500	12.518 H RNL	27800
3.599 V 14 TUCHI 慈濟大愛	30000	3.892 H Channel 11	5425	4.113 V YES FM	2170	12.546 V nba3_Thailand	22500	12.518 H TRTV	27800
3.600 V 01 ATIS 華人商業電視台	30000	3.892 H Church Channel	5425	4.113 V YES FM	2170	12.546 V nba3_Thailand	22500	12.518 H TVE	27800
3.600 V 02 CTV 中視	30000	3.892 H ABC-RN	2200	4.113 V YES FM	2170	12.546 V nba3_Thailand	22500	12.518 H VTN	27800
3.600 V 03 CTV 華視	30000	3.892 H Kabanay TV	2000	4.113 V YES FM	2170	12.546 V nba3_Thailand	22500	12.518 H ZATN	27800
3.600 V 04 FTV 民視	30000	3.892 H apexcom1	2000	4.113 V YES FM	2170	12.546 V nba3_Thailand	22500	12.518 H ERAS	27800
3.600 V 05 FTV 民視新聞	30000	3.892 H apexcom2	2000	4.113 V YES FM	2170	12.546 V nba3_Thailand	22500	12.518 H COG	27800
3.600 V 06 Uplink 1	30000	3.892 H apexcom3	2000	4.113 V YES FM	2170	12.546 V nba3_Thailand	22500	12.518 H ERO	27800
3.600 V 07 Uplink 2	30000	3.892 H CH 1	2000	4.113 V YES FM	2170	12.546 V nba3_Thailand	22500	12.518 H FERA	27800
3.600 V 08 Uplink 3	30000	4.040 H TELETRIP TEST	3009	4.113 V YES FM	2170	12.546 V nba3_Thailand	22500	12.518 H MELO	27800
3.600 V 09 SETI 亞洲衛星	30000	4.092 H IBC13	9760	4.113 V YES FM	2170	12.546 V nba3_Thailand	22500	12.518 H MRL	27800
3.600 V 10 SEMI 三立衛星	30000	4.092 H Solar Sports	9760	4.113 V YES FM	2170	12.546 V nba3_Thailand	22500	12.518 H RAU	27800
3.600 V 11 CTV 中視	30000	4.092 H Solar Sports	9760	4.113 V YES FM	2170	12.546 V nba3_Thailand	22500	12.518 H RUS	27800
3.600 V 12 HollywoodMovie 好萊塢	30000	4.092 H DZAS	9760	4.113 V YES FM	2170	12.546 V nba3_Thailand	22500	12.518 H SHOS	27800
4.124 V BBC Arabic	3255	4.165 V ACQ TV TEST BROCS	3735	11.537 H AUSTRALIAN NW	35500	12.546 V nba3_Thailand	22500	12.518 H TVZ	27800
4.124 V BBC English (E Asi)	3255	4.165 V FAMILYLAND TV	3735	11.537 H BIBI	35500	12.546 V nba3_Thailand	22500	12.518 H VTN	27800
4.124 V BBC English (E Asi)	3255	4.165 V Empty Name	3735	11.537 H DISNEY	35500	12.546 V nba3_Thailand	22500	12.518 H WATN	27800
4.124 V BBC English Aus NZ	3255	4.165 V TEST BROCS TV	3735	11.537 H DISNEY	35500	12.546 V nba3_Thailand	22500	12.518 H WDRH	27800
4.124 V BBC English News	3255	4.165 V TV-ON-CHNL	2170	11.537 H DISNEY	35500	12.546 V nba3_Thailand	22500	12.518 H ALPH	27800
4.124 V BBC Mandarin	3255	4.165 V UMTV 37	2170	11.537 H DISNEY	35500	12.546 V nba3_Thailand	22500	12.518 H CESE	27800
4.124 V BBC Pac Feed 1	3255	4.165 V UMTV 37	2170	11.537 H DISNEY	35500	12.546 V nba3_Thailand	22500	12.518 H COLM	27800
4.124 V BBC Pac Feed 2	3255	4.165 V UMTV 37	2170	11.537 H DISNEY	35500	12.546 V nba3_Thailand	22500	12.518 H ROLM	27800
4.124 V BBC Pac Feed 3	3255	4.165 V UMTV 37	2170	11.537 H DISNEY	35500	12.546 V nba3_Thailand	22500	12.518 H RNL	27800
4.124 V BBC Pac Feed 4	3255	4.165 V UMTV 37	2170	11.537 H DISNEY	35500	12.546 V nba3_Thailand	22500	12.518 H TRTV	27800
C-Band [153734.3]									
150.0 East									
EXPRESS AM-3 140.0° East		12.301 H ABC 5	25600	11.537 H HALLMARK	35500	12.546 V nba3_Thailand	22500	12.518 H TVG	27800
EXPRESS AM-3 140.0° East		12.301 H ABS-CBN 2	25600	11.537 H HDTV	35500	12.546 V nba3_Thailand	22500	12.518 H WFLD	27800
EXPRESS AM-3 140.0° East		12.301 H IBC 13	25600	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H MTV Phil	25600	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H RPN 9	25600	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H Studio 23	25600	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H Mabuhay Channel	25600	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H ABC-RN	25600	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H BBC Radio	25600	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H CMN Radio	25600	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H Crossroads	25600	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H CROSROADS	25600	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H DWNI FM	25600	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H EDGE Radio	25600	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H IFM	25600	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H R 100	25600	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H RMN News AM	25600	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H Boss Uplink A	30000	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H CH-001	30000	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H CH-002	30000	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H CH-003	30000	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H CH-004	30000	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H CH-M01	30000	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H CH-M02	30000	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H CH-M03	30000	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H CH-M04	30000	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800
EXPRESS AM-3 140.0° East		12.301 H CH-ED1	30000	11.537 H INFO-TV	35500	12.546 V nba3_Thailand	22500	12.518 H WYFF	27800

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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	Freq Pol Channel Name	Symbol rate
12384 L Noggin	20000	12384 L UVE1	9666	12384 L UVE2	9666	12384 L ARDY	20000	12384 L BUBY	20000	12384 L WHFT	20000	12384 L WWHO	26000
12384 L Sunshyne Network	20000	12384 L UVE3	9666	12384 L UVE4	9666	12384 L BAUM	20000	12384 L BWTX	20000	12384 L WIKX	20000	12384 L WKAU	26000
12384 L The Weather Channel	20000	12384 L UVE5	9666	12384 L UVE6	9666	12384 L CACTV	20000	12384 L COLS	20000	12384 L WLSD	20000	12384 L WMEG	26000
12384 L Destinations Audio	20000	12384 L UVE7	9666	12384 L UVE8	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLED	20000	12384 L WPHX	26000
12384 L Latino Pop	20000	12384 L UVE9	9666	12384 L UVE10	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLEW	20000	12384 L WQTV	26000
12384 L Muzak	20000	12384 L UVE11	9666	12384 L UVE12	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WKXN	26000
12384 L Muzak 2	20000	12384 L UVE13	9666	12384 L UVE14	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WBOY	26000
12384 L Viva Marachi	20000	12384 L UVE15	9666	12384 L UVE16	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WDTV	26000
12384 L Animal Planet	20000	12384 L UVE17	9666	12384 L UVE18	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WFTS	26000
12384 L CNBC US	20000	12384 L UVE19	9666	12384 L UVE20	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WFTS	26000
12384 L Comedy Central	20000	12384 L UVE21	9666	12384 L UVE22	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WFTS	26000
12384 L Fox Sports Northwest	20000	12384 L UVE23	9666	12384 L UVE24	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WFTS	26000
12384 L HBO 2 West	20000	12384 L UVE25	9666	12384 L UVE26	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WFTS	26000
12384 L Lifetime	20000	12384 L UVE27	9666	12384 L UVE28	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WFTS	26000
12384 L MSNBC	20000	12384 L UVE29	9666	12384 L UVE30	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WFTS	26000
12384 L TBS Superstation (20000	12384 L UVE31	9666	12384 L UVE32	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WFTS	26000
12384 L TV Land	20000	12384 L UVE33	9666	12384 L UVE34	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WFTS	26000
12384 L VH1 US	20000	12384 L UVE35	9666	12384 L UVE36	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WFTS	26000
12384 L WGN Superstation	20000	12384 L UVE37	9666	12384 L UVE38	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WFTS	26000
12384 L Contemporary Christi	20000	12384 L UVE39	9666	12384 L UVE40	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WFTS	26000
12384 L Contemporary Instrum	20000	12384 L UVE41	9666	12384 L UVE42	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WFTS	26000
12384 L Contemporary Jazz F	20000	12384 L UVE43	9666	12384 L UVE44	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WFTS	26000
12384 L Easy Instrumentals	20000	12384 L UVE45	9666	12384 L UVE46	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WFTS	26000
12384 L Jazzy Traditions	20000	12384 L UVE47	9666	12384 L UVE48	9666	12384 L CDTV	20000	12384 L COLS	20000	12384 L WLVJ	20000	12384 L WFTS	26000
12414 L Black Starz East	20000	12414 L UVE49	9666	12414 L UVE50	9666	12414 L CDTV	20000	12414 L COLS	20000	12414 L WLVJ	20000	12414 L WFTS	26000
12414 L Encore East	20000	12414 L UVE51	9666	12414 L UVE52	9666	12414 L CDTV	20000	12414 L COLS	20000	12414 L WLVJ	20000	12414 L WFTS	26000
12414 L Exstasy	20000	12414 L UVE53	9666	12414 L UVE54	9666	12414 L CDTV	20000	12414 L COLS	20000	12414 L WLVJ	20000	12414 L WFTS	26000
12414 L Lifetime Movie Netwo	20000	12414 L UVE55	9666	12414 L UVE56	9666	12414 L CDTV	20000	12414 L COLS	20000	12414 L WLVJ	20000	12414 L WFTS	26000
12414 L Pas TV	20000	12414 L UVE57	9666	12414 L UVE58	9666	12414 L CDTV	20000	12414 L COLS	20000	12414 L WLVJ	20000	12414 L WFTS	26000
12414 L Starz Cinema East	20000	12414 L UVE59	9666	12414 L UVE60	9666	12414 L CDTV	20000	12414 L COLS	20000	12414 L WLVJ	20000	12414 L WFTS	26000
12414 L Starz East	20000	12414 L UVE61	9666	12414 L UVE62	9666	12414 L CDTV	20000	12414 L COLS	20000	12414 L WLVJ	20000	12414 L WFTS	26000
12414 L Starz Family East	20000	12414 L UVE63	9666	12414 L UVE64	9666	12414 L CDTV	20000	12414 L COLS	20000	12414 L WLVJ	20000	12414 L WFTS	26000
12414 L Starz Theater East	20000	12414 L UVE65	9666	12414 L UVE66	9666	12414 L CDTV	20000	12414 L COLS	20000	12414 L WLVJ	20000	12414 L WFTS	26000
12428 L Westerns East	20000	12428 L UVE67	9666	12428 L UVE68	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L KABC-TV	20000	12428 L UVE69	9666	12428 L UVE70	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L KCBS-TV	20000	12428 L UVE71	9666	12428 L UVE72	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L KNBC-TV	20000	12428 L UVE73	9666	12428 L UVE74	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L KSLA-TV	20000	12428 L UVE75	9666	12428 L UVE76	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L KTTV-TV	20000	12428 L UVE77	9666	12428 L UVE78	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L KWGN-TV	20000	12428 L UVE79	9666	12428 L UVE80	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L KPX-TV	20000	12428 L UVE81	9666	12428 L UVE82	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L KNSK-TV	20000	12428 L UVE83	9666	12428 L UVE84	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L WWOR-TV	20000	12428 L UVE85	9666	12428 L UVE86	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L WXTV-TV	20000	12428 L UVE87	9666	12428 L UVE88	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L 70's Songbook	20000	12428 L UVE89	9666	12428 L UVE90	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L Big Band Era	20000	12428 L UVE91	9666	12428 L UVE92	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L Classic Rock Alternat	20000	12428 L UVE93	9666	12428 L UVE94	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L Eurostyle	20000	12428 L UVE95	9666	12428 L UVE96	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L JukeBox Gold	20000	12428 L UVE97	9666	12428 L UVE98	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L Nonstop Hip Hop	20000	12428 L UVE99	9666	12428 L UVE100	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L ABC Family	20000	12428 L UVE101	9666	12428 L UVE102	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L Cartoon Network	20000	12428 L UVE103	9666	12428 L UVE104	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L CNN Headline News	20000	12428 L UVE105	9666	12428 L UVE106	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L CNN Entertainment TV	20000	12428 L UVE107	9666	12428 L UVE108	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L HGTV US	20000	12428 L UVE109	9666	12428 L UVE110	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L MTV East	20000	12428 L UVE111	9666	12428 L UVE112	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L Nickelodeon West	20000	12428 L UVE113	9666	12428 L UVE114	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L TCM - Turner Classic	20000	12428 L UVE115	9666	12428 L UVE116	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L The New TNN	20000	12428 L UVE117	9666	12428 L UVE118	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12428 L Travel Channel	20000	12428 L UVE119	9666	12428 L UVE120	9666	12428 L CDTV	20000	12428 L COLS	20000	12428 L WLVJ	20000	12428 L WFTS	26000
12443 L USA Network East	20000	12443 L UVE121	9666	12443 L UVE122	9666	12443 L CDTV	20000	12443 L COLS	20000	12443 L WLVJ	20000	12443 L WFTS	26000
12443 L Adult Alternative	20000	12443 L UVE123	9666	12443 L UVE124	9666	12443 L CDTV	20000	12443 L COLS	20000	12443 L WLVJ	20000	12443 L WFTS	26000
12443 L Hawaiian Music	20000	12443 L UVE125	9666	12443 L UVE126	9666	12443 L CDTV	20000	12443 L COLS	20000	12443 L WLVJ	20000	12443 L WFTS	26000
12443 L Hot Hits	20000	12443 L UVE127	9666	12443 L UVE128	9666	12443 L CDTV	20000	12443 L COLS	20000	12443 L WLVJ	20000	12443 L WFTS	26000
12443 L Kids tunes	20000	12443 L UVE129	9666	12443 L UVE130	9666	12443 L CDTV	20000	12443 L COLS	20000	12443 L WLVJ	20000		

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like DIRECTV 4S18, DIRECTV 4S19, DIRECTV 4S20.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 11960 H Feed, 12060 H Action West, 12060 H Cinemax West.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like GALAXY 25, GALAXY 26, GALAXY 27.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 11991 V M2 Morocco Radio, 11991 V RSSI TV, 11991 V Test243.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 12146 V Voice Of People, 12146 V Voice of Youth, 12153 H ARIA MEHR TV.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 11810 H ILL01B, 11810 H RTN3, 11810 H MT12.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like GALAXY 11, GALAXY 12, GALAXY 13.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 11554 V BVN, 11554 V CGN TV, 11554 V HRTV.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 11716 V AL Anwar, 11716 V Best Turk, 11716 V BIDAR GLOBAL TV.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 11716 V AL Anwar, 11716 V Best Turk, 11716 V BIDAR GLOBAL TV.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 12053 V RSC2 Romania, 12053 V RSC3 ROMANIA, 12053 V Alfort.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 12177 V CCN, 12177 V CHURCH CHANNEL, 12177 V EMMULUS TV.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 12050 H RTN26, 12050 H RTN27, 12050 H RTN28.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 3720 H The CW Central, 3720 H The CW East, 3720 H The CW West.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 11716 V AL Anwar, 11716 V Best Turk, 11716 V BIDAR GLOBAL TV.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 11716 V AL Anwar, 11716 V Best Turk, 11716 V BIDAR GLOBAL TV.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 11716 V AL Anwar, 11716 V Best Turk, 11716 V BIDAR GLOBAL TV.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 12053 V RSC2 Romania, 12053 V RSC3 ROMANIA, 12053 V Alfort.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 12177 V CCN, 12177 V CHURCH CHANNEL, 12177 V EMMULUS TV.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 12050 H RTN26, 12050 H RTN27, 12050 H RTN28.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 3720 H The CW Central, 3720 H The CW East, 3720 H The CW West.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 3742 V Adhoc Ch 1, 3742 V Adhoc Ch 2, 3742 V Adhoc Sig 1 Ch 2.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 11716 V AL Anwar, 11716 V Best Turk, 11716 V BIDAR GLOBAL TV.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 11716 V AL Anwar, 11716 V Best Turk, 11716 V BIDAR GLOBAL TV.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 12053 V RSC2 Romania, 12053 V RSC3 ROMANIA, 12053 V Alfort.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 12177 V CCN, 12177 V CHURCH CHANNEL, 12177 V EMMULUS TV.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 12050 H RTN26, 12050 H RTN27, 12050 H RTN28.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 3720 H The CW Central, 3720 H The CW East, 3720 H The CW West.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 11940 V America's Voice, 11940 V ESPN Extra PPV, 11940 V ESPN PPV 1.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 11716 V AL Anwar, 11716 V Best Turk, 11716 V BIDAR GLOBAL TV.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 11716 V AL Anwar, 11716 V Best Turk, 11716 V BIDAR GLOBAL TV.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 12053 V RSC2 Romania, 12053 V RSC3 ROMANIA, 12053 V Alfort.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 12177 V CCN, 12177 V CHURCH CHANNEL, 12177 V EMMULUS TV.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 12050 H RTN26, 12050 H RTN27, 12050 H RTN28.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes entries like 3720 H The CW Central, 3720 H The CW East, 3720 H The CW West.

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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
12.224	R	ISSUE	20000	12.370	R	NFLN	20000	12.516	R	Vu8	20000	12.661	R	COMDV	20000	11.960	H	32 - Hallmark	28800	11.845	H	Feed	17800
12.224	R	LONDY	20000	12.370	R	NHL-C	20000	12.516	R	Vu8	20000	12.661	R	NEL12	20000	11.960	H	23 - Discovery Scien	28800	11.845	H	Feed (Empty Name)	17800
12.224	R	MTV	20000	12.370	R	NHL-E	20000	12.516	R	Vu8	20000	12.661	R	NHL-N	20000	11.960	H	34 - Disc. Civilization	28800	11.845	H	Feed (Empty Name)	17800
12.224	R	NCA2	20000	12.370	R	PBS-E	20000	12.516	R	Vu8	20000	12.661	R	NHL-S	20000	11.960	H	35 - NatGeo	28800	11.845	H	Feed (Empty Name)	17800
12.224	R	RCV04	20000	12.370	R	PBS-V	20000	12.516	R	WEN	20000	12.661	R	OTDtv	20000	11.960	H	36 - TVE	28800	11.845	H	Feed (Empty Name)	17800
12.224	R	RCV05	20000	12.370	R	RCV04	20000	12.516	R	WEN	20000	12.661	R	RCV18	20000	11.960	H	37 - CNN Espanol	28800	11.845	H	Feed (Empty Name)	17800
12.224	R	TSC	20000	12.370	R	WEA	20000	12.516	R	GYX28	20000	12.661	R	RCV08	20000	12.000	H	02 - RIT Noticias	28800	11.845	H	Feed (Empty Name)	17800
12.224	R	TVLND	20000	12.370	R	WEA*	20000	12.516	R	GYX29	20000	12.661	R	SRC-A	20000	12.000	H	03 - SOS Espiritual	28800	11.845	H	Feed (Empty Name)	17800
12.224	R	Vu22	20000	12.370	R	WEA-1	20000	12.516	R	GYX39	20000	12.661	R	SUPRA	20000	12.000	H	04 - TV Escola	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	RF1	20000	12.384	R	CAN-H	20000	12.516	R	WUMAS	20000	12.661	R	LCN	20000	12.000	H	27 - Animal Planet	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	A-VIC	20000	12.384	R	CAN-Z	20000	12.516	R	WUMAS	20000	12.661	R	Wu7	20000	12.000	H	06 - DW-TV	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	CW11	20000	12.384	R	CAN-D	20000	12.516	R	METRO	20000	12.661	R	Vu26	20000	12.000	H	07 - TV Enlace	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	GAME	20000	12.384	R	CAN-E	20000	12.516	R	BTVM	20000	12.661	R	VuF2	20000	12.000	H	08 - Terra Viva	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	HLTH	20000	12.384	R	CAN-H	20000	12.516	R	NUMAS	20000	12.661	R	HDRE	20000	12.000	H	27 - Bandaterias	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	NCA4	20000	12.384	R	CAN-Z	20000	12.516	R	NUMAS	20000	12.661	R	ALERT	20000	12.000	H	10 - Fox Life	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	NHL8	20000	12.384	R	DRM	20000	12.530	L	CAN-E	20000	12.661	R	ALRT	20000	12.000	H	11 - Bloomberg	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	OLN	20000	12.384	R	SE	20000	12.530	L	CAN-S	20000	12.661	R	BFVSC	20000	12.000	H	12 - Boomerang	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	QUITV	20000	12.384	R	SE3	20000	12.530	L	CAN-S	20000	12.661	R	LCN	20000	12.000	H	13 - Discovery Chann	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	RA	20000	12.384	R	SE3	20000	12.530	L	CAN-S	20000	12.661	R	LOCK	20000	12.000	H	14 - Discovering Kids	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	Vicdv	20000	12.384	R	SE4	20000	12.530	L	TELEQ	20000	12.661	R	MOVHD	20000	12.000	H	15 - Disney Channel	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	Vu15	20000	12.384	R	SERIE	20000	12.530	L	TQS-M	20000	12.661	R	NETHD	20000	12.000	H	16 - ESPN Internatio	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	Vu24	20000	12.384	R	SRC-V	20000	12.530	L	TV-A-M	20000	12.661	R	SPLTY	20000	12.000	H	17 - TNT	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	Vu29	20000	12.384	R	VRK	20000	12.530	L	TV-A-M	20000	12.661	R	SPRTH	20000	12.000	H	18 - CNN Espanol	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	CBCT1	20000	12.384	R	WAHSA	20000	12.530	L	CC-M	20000	12.661	R	Wu*	20000	12.000	H	19 - Home & Health	28800	11.845	H	Feed (Empty Name)	17800
12.253	R	VNU50	20000	12.399	R	CBC-A	20000	12.530	L	CAJAD	20000	12.661	R	VuP*	20000	12.000	H	20 - 2IGD	28800	11.845	H	Feed (Empty Name)	17800
12.253	R	VNU51	20000	12.399	R	CBC-a	20000	12.530	L	CPAD	20000	12.661	R	Q10*	20000	12.000	H	21 - CJC	28800	11.845	H	Feed (Empty Name)	17800
12.253	R	VNU52	20000	12.399	R	CBC-b	20000	12.530	L	CPAD	20000	12.661	R	Q10*	20000	12.000	H	22 - RTM	28800	11.845	H	Feed (Empty Name)	17800
12.253	R	VNU53	20000	12.399	R	MCTV	20000	12.530	L	METO	20000	12.676	L	ADR	20000	12.000	H	23 - Climatempo	28800	11.845	H	Feed (Empty Name)	17800
12.253	R	VNU54	20000	12.399	R	MCTV*	20000	12.530	L	PC-M	20000	12.676	L	SROSH	20000	12.000	H	25 - Discovery Turbo	28800	11.845	H	Feed (Empty Name)	17800
12.253	R	VNU55	20000	12.399	R	NCA4	20000	12.545	R	CITY1	20000	12.676	L	TQS-Q	20000	12.000	H	26 - TCM	28800	11.845	H	Feed (Empty Name)	17800
12.253	R	VNU56	20000	12.399	R	NCA4*	20000	12.545	R	CITY2	20000	12.676	L	TQS-Q	20000	12.000	H	28 - ESPN Brasil	28800	11.845	H	Feed (Empty Name)	17800
12.253	R	VNU57	20000	12.399	R	NHL7	20000	12.545	R	FOXE	20000	12.676	L	TQSsS	20000	12.000	H	28 - ESPN Brasil	28800	11.845	H	Feed (Empty Name)	17800
12.253	R	VNU58	20000	12.399	R	NHLMH	20000	12.545	R	FOXE	20000	12.676	L	TQSsS	20000	12.000	H	29 - Travel & Living	28800	11.845	H	Feed (Empty Name)	17800
12.253	R	VNU59	20000	12.399	R	OMNH	20000	12.545	R	FOXE	20000	12.676	L	TQSsS	20000	12.000	H	30 - Woodoo	28800	11.845	H	Feed (Empty Name)	17800
12.253	R	VNU60	20000	12.399	R	OMNH	20000	12.545	R	FOXE	20000	12.676	L	TQSsS	20000	12.000	H	31 - TV Bumbum	28800	11.845	H	Feed (Empty Name)	17800
12.253	R	VNU61	20000	12.399	R	TRPDv	20000	12.545	R	MU4	20000	12.676	L	TVARN	20000	12.000	H	32 - Hallmark	28800	11.845	H	Feed (Empty Name)	17800
12.268	R	CTV1	20000	12.399	R	Vision	20000	12.545	R	RCV04*	20000	12.676	L	GX12	20000	12.000	H	33 - Discovery Scien	28800	11.845	H	Feed (Empty Name)	17800
12.268	R	CTV2	20000	12.399	R	Vision	20000	12.545	R	RCV04*	20000	12.676	L	GX13	20000	12.000	H	34 - Disc. Civilization	28800	11.845	H	Feed (Empty Name)	17800
12.268	R	FOXNC	20000	12.399	R	Vu25	20000	12.545	R	Vu10	20000	12.676	L	GX14	20000	12.000	H	35 - NatGeo	28800	11.845	H	Feed (Empty Name)	17800
12.268	R	GLB-T	20000	12.399	R	Vu27	20000	12.545	R	Vu11	20000	12.676	L	GX14	20000	12.000	H	36 - TVE	28800	11.845	H	Feed (Empty Name)	17800
12.268	R	GLBdv	20000	12.399	R	XRZ	20000	12.545	R	Vu10	20000	12.676	L	GX16	20000	12.000	H	37 - TV Mirante	28800	11.845	H	Feed (Empty Name)	17800
12.268	R	INTV1	20000	12.414	R	CBC-M	20000	12.545	R	Vu11	20000	12.676	L	GX16	20000	12.000	H	38 - TV Mirante	28800	11.845	H	Feed (Empty Name)	17800
12.268	R	SETNA	20000	12.414	R	CIVIL	20000	12.545	R	Vu15	20000	12.676	L	GX16	20000	12.000	H	39 - TV Mirante	28800	11.845	H	Feed (Empty Name)	17800
12.268	R	SPACE	20000	12.414	R	CPNc	20000	12.545	R	Vu15	20000	12.676	L	GX16	20000	12.000	H	40 - TV Mirante	28800	11.845	H	Feed (Empty Name)	17800
12.268	R	SPCd	20000	12.414	R	MUSMIX	20000	12.545	R	CRJT	20000	12.676	L	GX16	20000	12.000	H	41 - TV Mirante	28800	11.845	H	Feed (Empty Name)	17800
12.268	R	STAR	20000	12.414	R	CBC-T	20000	12.545	R	CRJT	20000	12.676	L	GX16	20000	12.000	H	42 - TV Mirante	28800	11.845	H	Feed (Empty Name)	17800
12.268	R	TVLND	20000	12.414	R	ONEV	20000	12.545	R	CRJT	20000	12.676	L	GX16	20000	12.000	H	43 - TV Mirante	28800	11.845	H	Feed (Empty Name)	17800
12.268	R	VuP32	20000	12.414	R	Prise	20000	12.545	R	CRJT	20000	12.676	L	GX16	20000	12.000	H	44 - TV Mirante	28800	11.845	H	Feed (Empty Name)	17800
12.268	R	GY18	20000	12.414	R	RCV03	20000	12.545	R	CRJT	20000	12.676	L	GX16	20000	12.000	H	45 - TV Mirante	28800	11.845	H	Feed (Empty Name)	17800
12.268	R	GY19	20000	12.414	R	RCV03	20000	12.545	R	CRJT	20000	12.676	L	GX16	20000	12.000	H	46 - TV Mirante	28800	11.845	H	Feed (Empty Name)	17800
12.268	R	GY20	20000	12.414	R	RCV03	20000	12.545	R	CRJT	20000	12.676	L	GX16	20000	12.000	H	47 - TV Mirante	28800	11.845	H	Feed (Empty Name)	17800
12.268	R	GY21	20000																				

Main table listing satellite channels with columns for Freq Pol Channel Name, Symbol rate, and GHz. Includes multiple maps of the Americas and Europe showing satellite coverage areas.

Supplemental table listing satellite channels, including specific coverage codes and additional channel details.

SatcoDX Global Satellite Chart 02/2009

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
1.0408 H COMSATION	14400	11.678 H NBA Path 2	28570	1.0408 H COMSATION	14400	1.0408 H COMSATION	14400	1.0408 H COMSATION	14400	1.0408 H COMSATION	14400	1.0408 H COMSATION	14400	1.0408 H COMSATION

SatcoDX World Statistics



Alexandru Porosanu
TELE-satellite
Statistics Center
Romania

Encryption Worldwide

Encryption	Dec 2007	Nov 2008	Dec 2008	2008/2007
POVU	934	841	888	-4.93%
VGRD	1188	728	806	-32.15%
NAGV	1547	805	791	-48.87%
IRDT	968	509	525	-45.76%
MLT2	287	287	287	0.00%
VICS	385	256	237	-38.44%
MGRD	588	211	192	-67.35%
CONX	465	221	188	-59.57%
BCNV	302	176	176	-41.72%
IRVG	178	174	174	-2.25%
CRYW	217	179	157	-27.65%
MDS_	64	63	63	-1.56%
BISS	92	62	58	-36.96%
VIMG	95	45	45	-52.63%
VVC+	54	44	44	-18.52%
IRMG	49	24	24	-51.02%
MGVC	110	24	24	-78.18%
MGCW	33	24	24	-27.27%
PVU+	23	23	23	0.00%
BCRT	38	17	14	-63.16%
NTL	7	9	9	28.57%
IRCW	11	9	9	-18.18%
NDS	6	6	6	0.00%
RAS	8	5	5	-25.00%
WCIR	7	5	5	-28.57%
IRDETO	13	4	4	-Inf
PVNV	3	3	3	0.00%
VISK	3	3	3	0.00%
WGNR	3	3	3	0.00%
CCGN	6	3	3	-50.00%
IRNV	4	3	3	-25.00%
CONV	2	2	2	0.00%
KEYF	2	2	2	0.00%
EBU (BISS-E)	1	1	1	0.00%
NTL	1	1	1	0.00%
DRMC	1	1	1	0.00%
CWVA	3	1	1	-66.67%
CODI	2	1	1	-50.00%
NTL2	1	1	1	0.00%

Transmission Types Worldwide

Type	Dec 2007	Nov 2008	Dec 2008	2008/2007
TV-DIG-CRYPT	10729	11149	11448	6.70%
TV-DIG	7656	7121	7131	-6.86%
R-DIG	4216	3961	4082	-3.18%
DATA	2083	2152	2161	3.74%
R-DIG-CRYPT	1472	1263	1304	-11.41%
TV-SD-CRYPT	143	448	438	206.29%
TV-HD-CRYPT	208	256	356	71.15%
TV-ANA	129	100	100	-22.48%
TV-SD	55	91	99	80.00%
TV-HD	60	83	67	11.67%
R-ANA	64	47	47	-26.56%
TV-ANA-CRYPT	57	45	45	-21.05%

Transponder Polarization Worldwide

Polarization	Dec 2007	Nov 2008	Dec 2008	2008/2007
V	11520	11827	11875	3.08%
H	11569	11291	11757	1.63%
R	2273	2087	2166	-4.71%
L	1584	1500	1477	-6.76%

Top 100 Ku band Frequencies Worldwide

Frequency	Dec 2007	Nov 2008	Dec 2008	2008/2007
12.226	184	185	184	0.00%
12.149	147	167	177	20.41%
11.823	71	163	176	147.89%
12.399	162	158	160	-1.23%
11.785	84	153	152	80.95%
12.355	96	151	151	57.29%
11.804	41	154	151	268.29%
11.938	92	129	139	51.09%
11.747	42	135	136	223.81%
12.302	36	95	135	275.00%
12.092	86	122	127	47.67%
12.322	96	99	126	31.25%
12.341	113	125	122	7.96%
12.418	91	117	121	32.97%
11.766	77	118	119	54.55%
12.661	64	120	118	84.38%
11.996	68	116	116	70.59%
12.523	95	112	115	21.05%
12.647	90	110	111	23.33%
12.643	70	107	109	55.71%
11.919	50	101	107	114.00%
12.628	106	106	106	0.00%
12.282	132	101	101	-23.48%
12.428	118	100	99	-16.10%
12.407	98	62	98	0.00%
12.265	75	97	97	506.25%
12.688	75	100	97	29.33%
12.253	72	96	96	33.33%
12.053	50	94	95	90.00%
12.015	40	91	95	137.50%
10.970	69	61	95	37.68%
12.224	79	96	95	20.25%
12.726	18	90	94	422.22%
11.843	79	92	93	17.72%
12.360	72	90	91	26.39%
11.836	62	87	90	45.16%
12.207	199	101	90	-54.77%
12.303	127	100	89	-29.92%
12.012	101	91	89	-11.88%
11.727	92	98	87	-5.43%
12.284	34	86	86	152.94%
11.283	77	65	86	11.69%
12.268	88	87	86	-2.27%
11.900	48	83	85	77.08%
11.862	32	84	84	162.50%
12.638	45	83	83	84.44%
12.516	78	83	83	6.41%
11.778	12	83	83	591.67%
11.635	68	81	82	20.59%
12.169	68	81	81	19.12%
12.476	71	94	80	12.68%
12.603	81	83	79	-2.47%
12.472	78	78	79	-12.22%
12.239	50	78	78	56.00%
12.574	219	76	78	-64.38%
12.311	101	70	76	-24.75%
12.632	72	73	75	4.17%
12.297	75	74	75	0.00%
12.545	88	73	75	-14.77%
12.501	70	74	74	5.71%
12.130	30	74	74	146.67%
12.380	98	73	73	-25.51%
12.414	109	88	73	-33.03%
11.170	58	49	72	24.14%
12.608	14	73	72	414.29%
11.604	64	71	72	12.50%
12.326	154	72	72	-53.25%
11.617	68	68	71	4.41%
12.604	182	71	70	-61.54%
12.034	29	76	69	137.93%
12.565	55	66	69	25.45%
11.596	31	60	68	119.35%
11.010	82	22	67	-82.29%
12.563	40	67	67	67.50%
12.607	45	67	66	46.67%
12.246	165	64	65	-60.61%
11.623	94	61	65	41.30%
12.370	46	69	65	-30.85%
12.723	64	64	64	Inf
11.554	25	65	64	156.00%
12.456	88	63	64	-27.27%
12.577	68	65	64	128.57%
12.644	56	65	63	Inf
12.384	82	63	63	-23.17%
12.443	111	68	62	-44.14%
11.642	76	53	62	-18.42%
12.581	24	50	62	158.33%
10.972	64	62	61	-4.69%
11.050	56	10	61	8.93%

Top 40 Symbol Rate Usage Worldwide

Symbol Rate	Dec 2007	Nov 2008	Dec 2008	2008/2007
27500	8963	9106	9306	3.83%
30000	2260	2450	2717	20.22%
20000	2801	2491	2451	-12.50%
22000	1276	1087	1036	-18.81%
28000	538	509	508	-5.58%
19510	446	456	456	2.24%
21096	410	410	410	0.00%
22500	71	379	396	457.75%
29270	276	286	286	3.62%
27800	267	289	277	3.75%
28500	215	276	276	28.37%
29950	193	238	238	23.32%
26000	127	212	201	58.27%
24500	130	210	196	50.77%
27684	175	175	175	0.00%
26480	76	113	141	85.53%
21300	106	106	106	Inf
30800	106	104	104	-1.89%
18000	7	100	100	1328.57%
26470	107	109	100	-6.54%
22425	83	93	93	12.05%
27690	62	83	92	48.39%
3428	51	89	90	76.47%
28800	25	86	89	256.00%
40700	19	89	89	368.42%
33483	15	85	86	-36.76%
26667	136	85	85	Inf
27489	85	85	85	Inf
20600	81	82	81	0.00%
25000	48	48	78	62.50%
29000	61	59	74	21.31%
26652	29	64	74	155.17%
28100	71	76	72	1.41%
25600	70	70	70	0.00%
28700	25	70	70	180.00%
28125	94	67	67	-28.72%
24440	284	66	63	-77.82%
26657	30	62	63	110.00%
3255	46	65	63	36.96%

Top 80 C band Frequencies Worldwide

Frequency	Dec 2007	Nov 2008	Dec 2008	2008/2007
4.000	128	117	114	-10.94%
4.060	193	103	103	-46.63%
4.175	70	71	101	44.29%
4.040	94	89	92	-2.13%
4.080	83	93	90	8.43%
4.055	113	63	90	-20.35%
4.180	47	71	72	53.19%
4.140	55	64	64	16.36%
4.100	47	60	63	34.04%
4.120	70	62	62	-11.43%
4.120	79	59	59	-25.32%
4.060	51	40	40	-21.57%
4.025	23	48	34	47.83%
4.071	2	33	34	1600.00%
4.179	23	32	32	39.13%
4.083	9	32	32	255.56%
4.177	29	22	31	Inf
4.106	29	29	29	0.00%
4.147	24	25	25	4.17%
4.067	22	22	22	0.00%
4.004	12	13	20	Inf
4.124	12	18	18	50.00%
4.151	17	17	17	0.00%
4.185	35	17	17	-51.43%
4.043	19	17	17	-10.53%
4.087	17	16	17	0.00%
4.041	17	17	17	0.00%
4.064	17	16	16	-5.88%
4.125	10	3	14	40.00%
4.005	18	20	14	-22.22%
4.113	8	8	13	62.50%
4.062	17	13	13	-23.53%
4.084	24	2	12	-64.17%
4.143	9	11	11	22.22%
4.149	4	10	11	175.00%
4.107	7	9	9	28.57%
4.168	9	9	9	0.00%
4.192	8	8	8	0.00%
4.110	12	8	8	-33.33%
4.189	4	8	8	100.00%
4.184	1	8	8	700.00%
4.159	8	8	8	0.00%
4.157	7	7	7	0.00%
4.091	6	7	7	16.67%
4.021	14	7	7	-50.00%
4.034	8	7	7	-12.50%
4.092	8	7	7	-12.50%
4.118	5	6	6	20.00%
4.065	5	6	6	20.00%
4.042	9	5	6	-33.33%
4.172	6	6	6	0.00%
4.054	5	5	6	20.00%
4.132	3	5	6	100.00%
4.130	4	6	6	50.00%
4.114	2	7	6	200.00%
4.166	7	6	6	-14.29%
4.126	5	6	6	20.00%
4.170	6	5	6	0.00%
4.137	4	6	6	50.00%
4.017	2	2	5	150.00%
4.097	4	4	5	



Edited by
Alexander Wiese

20 Years Ago

Travel into the Past
TELE-satellite Magazine
Issue 01/1988



BEL-TRONICS SATELLITEN-EMPFANGSSYSTEME

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Antenne
...
Receiver
...
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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: Februar 1988
Immer aktuell informiert mit TELE-satellit, der Satelliten-Fachzeitschrift von TELE-audiovision 089 - 448 03 28

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Professionelle Kunden werden direkt beraten von PROSAT Projektberatung Satellitenempfang Karlsruhe 0721 - 40 25 82

Fernsehen über Satellit

Satellit	Position Grad	Programm	Sendeland	Sprache	Frequenz GHz	Polarisation	Beam	Bitstrom	Videotext	Modul. MHz	Scrambl.	Empfang	Leistung dBW	Zeiten	Bemerkungen	
INTELSAT VA-F11	27.5 W	MTV Europe	USA	Engl.	10.28	Horiz	West	PAL	Neg	6.80	-	Free	45	24	Videotext	
		Canal 10	Grönland	spanisch	10.98	Vertikal	Ost	PAL	Neg	7.02 & 7.20 (WEGENER-System)	-	Free	45	24	Beginnton Stereo	
		Grönland	englisch	11.02	Horiz	West	PAL	Neg	ja	6.80	7.02 & 7.20 (WEGENER-System)	Free	45	24	Kinship / Spielfilm: Begliffen Stereo	
		Arts Channel / Litology / Showpart (Film Showings)	Grönland	englisch	11.59	Horiz	West	PAL	Neg	6.60	-	Pay-TV	46	24	Kinship / Hausrufen / Sport	
		CNN International	USA	Engl.	11.15	Vertikal	Ost	PAL	Neg	7.02 & 7.20 (WEGENER-System)	-	Free	45	24	Beginnton Stereo	
		BBC 1/2	Grönland	englisch	11.18	Horiz	West	SAT-TEL	ja	6.80	ja	Pay-TV	46	24	Nachrichten - Information	
		EPN-PVS	USA	Engl.	11.47	Vertikal	West	PAL	Neg	6.80	-	Free	46	24	Datenübertragung	
		Anglovision	USA	Engl.	11.51	Vertikal	Ost	PAL	Neg	6.80	-	Pay-TV	46	24	Videokübertragung	
		TV 2 / Satellite Information Service (Time Sharing)	Dän.	Schwed.	11.59	Horiz	West	B-MAC	-	ja	-	Free	45	24	Nachrichten - in Vorbereitung	
		(keine kein TV-Programme)	Grönland	englisch	11.59	Horiz	West	B-MAC	-	ja	-	Free	45	24	Unterhaltung / Pflanzentemen	
INTELSAT VA-F10	21.5 W	Telespazio	Italien	Italien	10.98	Vertikal	West	PAL	Neg	6.85	-	Free	45	24	nur Testsendungen	
INTELSAT V-F6	24.5 W	Telespazio	Italien	Italien	11.13	Vertikal	West	PAL	Neg	6.85	-	Free	45	24	nur Testsendungen	
		Telespazio	Italien	Italien	11.17	Vertikal	West	PAL	Neg	6.85	-	Free	45	24	nur Testsendungen	
GORZONT 12	14 West	TV Test	Schweden	russisch	11.51	Vertikal	Ost	SECAM	N	6.80	-	Free	45	24	nur Testsendungen	
INTELSAT V-F2	1 West	Norwegian Kanal 1	Norwegen	norwegisch	11.01	Horiz	West	PAL	Neg	6.80	-	Free	45	24	Unterhaltung - Kultur	
		STV2	Schweden	schwedisch	11.13	Horiz	West	C-MAC	ja	-	-	Free	44	24	Unterhaltung - Kultur	
		TV1	Israel	hebräisch	11.19	Vertikal	Ost	PAL	Neg	6.80	-	Free	43	24	nur Testsendungen - DX	
		TV2	Israel	hebräisch	11.56	Vertikal	Ost	PAL	Neg	6.80	-	Free	43	24	nur Testsendungen - DX	
		TV Test	Norwegen	engl./norwegisch	11.47	Horiz	West	PAL	Neg	6.80	-	Free	44	24	nur Testsendungen	
EUTELSAT I-F2	7 Ost	Worldnet	USA	englisch	11.59	Horiz	Ost	SECAM	N	6.80	-	Free	45	24	Radiogeb. Progr.	
EUTELSAT I-F4	10 Ost	NRK	Norwegen	norwegisch	11.20	Vertikal	West	C-MAC	ja	-	-	Free	45	24	Information	
EUTELSAT I-F1	13 Ost	Teleklub	Schweiz	deutsch	10.98	Vertikal	West	PAL	Neg	6.50	-	Pay-TV	45	24	Spielfilm	
		RAL UNO	Italien	Italien	11.00	Horiz	West	PAL	Neg	6.80	-	Free	45	24	(Schaltplan Kabelformat)	
		RTE plus	Luxemburg	französisch	11.08	Vertikal	Ost	PAL	Neg	6.85	-	Free	45	24	Unterhaltung - Kultur	
		Filmnet	Belgien	engl./holl.	11.14	Vertikal	West	PAL	Pos	ja	6.55	ja	Pay-TV	45	24	Spielfilm
		SSAT	BRD	deutsch	11.17	Horiz	West	PAL	Neg	6.80	-	Free	45	24	Beginnton schwedisch (Schaltplan Kabelformat)	
		TMS	Frankreich	französisch	11.47	Horiz	West	PAL	Neg	6.85	-	Free	45	8	Unterhaltung - Kultur	
		Worldnet	USA	englisch	11.48	Horiz	West	PAL	Neg	6.85	-	Free	45	8	Information	
		SAT 1	BRD	deutsch	11.50	Vertikal	West	PAL	Neg	6.85	-	Free	45	24	Unterhaltung	
		Sky Channel	Grönland	englisch	11.65	Horiz	West	PAL	Neg	ja	6.85	-	Free	45	24	Unterhaltung
		Suoz Channel	Grönland	englisch	11.67	Vertikal	West	PAL	Neg	ja	7.02 & 7.20 (WEGENER-System)	-	Free	45	24	Beginnton Stereo
INTELSAT VA-F12	60 Ost	SSAT	BRD	deutsch	10.97	Horiz	West	PAL	Neg	6.85	-	Free	46	24	Unterhaltung	
		AFN-TV	USA/BRD	deutsch	10.99	Vertikal	Ost	B-MAC	-	ja	-	Free	45	24	Unterhaltung	
		West 3	BRD	deutsch	11.01	Horiz	West	PAL	Neg	ja	6.85	-	Free	46	24	Unterhaltung
		Tele 5	BRD	deutsch	11.13	Horiz	West	PAL	Neg	ja	6.85	-	Free	46	24	Unterhaltung
		Bayerisches Fern	BRD	deutsch	11.17	Horiz	West	PAL	Neg	ja	6.85	-	Free	46	24	Unterhaltung
		Emis Plus	BRD	deutsch	11.45	Vertikal	West	PAL	Neg	ja	6.85	-	Free	46	24	Information
		Europa IV	BRD	deutsch	11.00	Horiz	West	PAL	Neg	ja	6.85	-	Free	46	24	Information
		IRB TV2	Iran	farsi	10.99	Vertikal	West	PAL	Neg	ja	6.80	-	Free	43	24	nur Testsendungen - DX
		IRB TV1	Iran	farsi	11.15	Vertikal	West	PAL	Neg	ja	6.80	-	Free	43	24	Kultur - DX
INTELSAT V-F5	63 Ost	AFRITS-E2	Iran	englisch	11.47	Horiz	West	NTSC	Neg	ja	6.80	-	Free	43	24	Unterhaltung - DX
INTELSAT V-F7	66 Ost	TRT 1	Türkei	türkisch	11.65	Horiz	West	PAL	Neg	ja	6.80	-	Free	43	24	Unterhaltung - DX
		TRT 2	Türkei	türkisch	11.68	Horiz	West	PAL	Neg	ja	6.80	-	Free	43	24	Unterhaltung - Testsendung - DX

Radio über Satellit

Satellit	Position Grad	Programm	Sendeland	Sprache	Frequenz GHz	Polarisation	Beam	TONorm	TONorm	Scram	Empfang	Leistung dBW	Zeiten	Bemerkungen
INTELSAT VA-F11	27.5 W	BBC Worldserv.	Grönland	englisch	11.18	Horiz	West	WEGENER	7.20	-	Free	45	24	Mono // Kurzweile
INTELSAT V-F2	1 West	BBC Worldserv.	Grönland	diverse	11.18	Horiz	West	WEGENER	7.20	-	Free	45	24	Mono - Auslandsprogramme
INTELSAT V-F4	10 Ost	NRK P1	Norwegen	norwegisch	11.20	Vertikal	West	Digital/MAC	-	-	Free	45	24	Landprogramm Stereo
EUTELSAT I-F1	13 Ost	Radio Luxemburg	Luxemburg	deutsch	11.08	Vertikal	Ost	WEGENER	7.02 & 7.20	-	Free	45	24	Stereo
		Radio Luxemburg	Luxemburg	deutsch	11.14	Vertikal	Ost	WEGENER	7.02 & 7.20	-	Free	45	24	Stereo
		Cable One	Niederl.	englisch	11.17	Horizontal	West	WEGENER	7.02 & 8.10	-	Free	45	24	Testsendungen
		Voice of America	USA	englisch	11.50	Vertikal	West	WEGENER	7.02 & 8.10	-	Free	45	24	Stereo
		BBC Worldserv.	Grönland	englisch	11.67	Vertikal	West	WEGENER	7.35	-	Free	45	24	Mono // Kurzweile
		BBC Worldserv.	Grönland	diverse	11.67	Vertikal	West	WEGENER	7.35	-	Free	45	24	Mono // Auslandsprogramme
INTELSAT VA-F12	60 Ost	Deutscherfunk	BRD	deutsch	11.87	Vertikal	West	WEGENER	7.56	-	Free	45	24	Stereo
		Radio Media	BRD	deutsch	11.17	Horizontal	West	WEGENER	7.02 & 7.20	-	Free	46	24	Stereo
		Digital Test	BRD	deutsch	11.45	Vertikal	Ost	Digital/MAC	-	-	Free	46	24	Unterhaltung
INTELSAT V-F5	63 Ost	IRB Radio 2	Iran	farsi	10.99	Vertikal	West	Standard	6.18	-	Free	46	24	Testsendungen - DX
		IRB Radio 1	Iran	farsi	11.17	Vertikal	West	Standard	6.18	-	Free	46	24	Landprogramm - DX



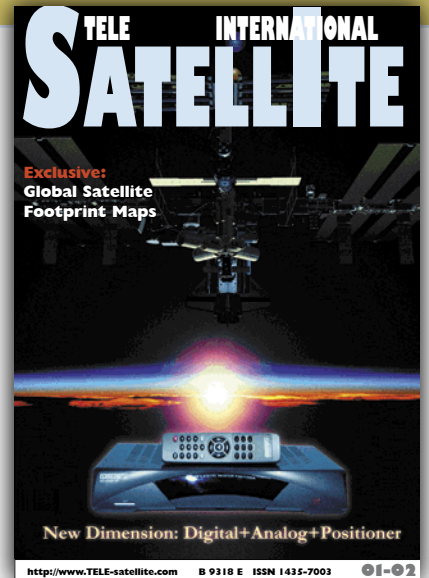
Edited by
Alexander Wiese

Echostar AD-2000 IP

So far, we have seen a reasonable amount of integrated analogue and digital receivers, one might call them universal receivers, and even with built-in positioners. But although the hardware often is comparable, the software controlling it is the most important issue. Whenever the software is of poor quality you can forget it. The box will crash, you cannot set it up the way you like, etc. These and many more flaws can make a receiver almost unusable. With this in mind, we started to look at the Echostar AD-2000IP. For over two weeks we have tested it in our labs and it was with a lot of regret that we had to send it back.

10 Years Ago

Travel into the Past
TELE-satellite Magazine
Issue 02/1999



Your first impression won't be that it is a superb receiver. It looks a little bit ordinary and does not have the high-tech looks Echostar's famous LT-8700 had. On the contrary, with only a four-digit display on the front you may not expect too much hi-tech in the box. But to start with, the display needs four figures because it can store up to 2.900 digital channels (1.500 for TV/1.400 for radio) plus 700 analogue ones. Its integrated positioner can cope with up to 50 satellite positions. Behind a coverlid there are two buttons for channel up and down and a card slot which may do its job in later versions. The receiver we tested did not have a conditional access interface.

Drake ESR 324 Earth Station Receiver

You don't know the ESR 324? Well, don't panic — it's not like you've missed the latest innovation in digital satellite technology. The ESR is a direct import from the U.S., a kind of 'first cry' of satellite reception technology. I was actually bargain-hunting for a digital receiver to use in combination with Echostar's DISH digital package when I discovered the ESR in a small country town somewhere in Montana. The unit was built in 1984 and set me back twenty bucks. Of course I knew that I would hardly be able to use this relic with my existing satellite system, but I was simply curious to find out how a 14 year old receiver would handle present-day satellite services. The first thing you notice about the ESR 324 is its weight. Used to light-weight plastic boxes the ESR 324's robust metal chassis has survived 14 years of doubtlessly heavy usage without any flaws

whatsoever. The 110 volt power unit contributed its share to the total weight of the unit. All control buttons are on the unit's front panel since there is no remote control available for the ESR 324 (after all, I'm travelling down the time tunnel all

the way to 1984). Next to the main power switch there is a scan button and two rotary switches to tune in the selected channel. It is not possible to enter a frequency directly (contrary to European products), neither is there such a thing as a program-store menu. In this respect not much has changed since the 1950s, as a matter of fact. Some may remember the rotary switches on television sets at the onset of the television age: you simply turned the knob into one direction or the other until a channel appeared on the screen. Some budget TV sets in North America still work that way even though Scan Up and Scan Down buttons on the remote control have long replaced rotary switches.

American satellites broadcast their signals according to a standardised channel grid. There are twelve channels each on the vertical and horizontal polarisation plane. Most American satellite receivers still come with a 500 MHz tuner used to scan the C-band between 3.7 and 4.2 GHz and the Ku-band between 11.7 and 12.2 GHz. That way only one control knob on the Drake ESR 324 is enough to use all the bandwidth available on U.S. satellites. The selected transponder is displayed on the front panel and a fine-tuning switch covers all the range between two channels. An additional switch is used to control the mechanic polariser. However a per-



manent polarisation can also be selected with the polarisation switch.

Once the channel is selected and tuned we have to adjust the audio parameters. With the flip of switch the standard frequency of 6.80 MHz can be selected, while a rotary switch allows the scanning of a range that must extend from 2 to 10 MHz (my estimate). Needless to say that that stereo sound was not a standard feature in 1984. On the back of the unit there is a switch that is used to choose either the C or the Ku band.

**MSK 33
Measuring QPSK and QAM**

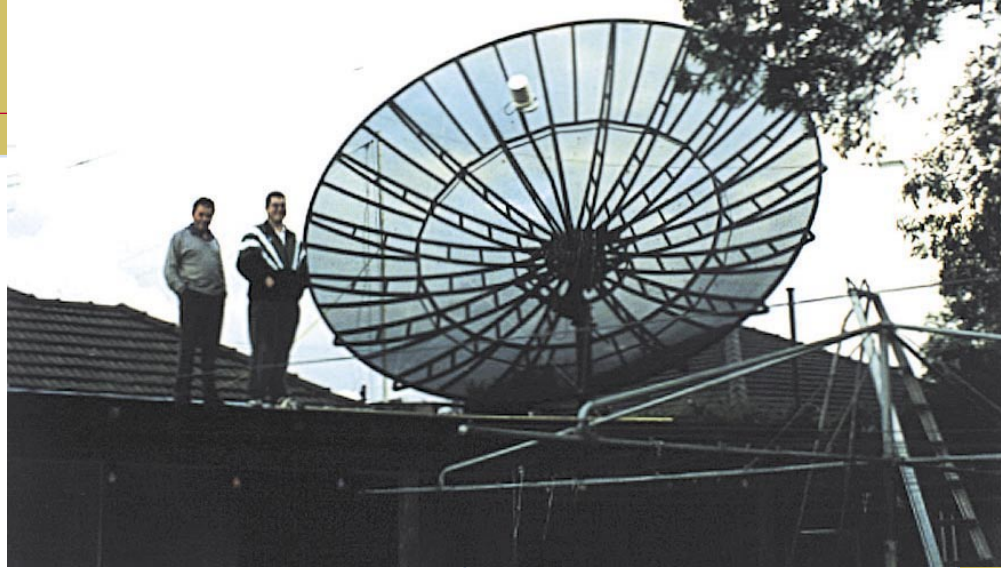
Good measuring equipment can always be recognised by its size and even more by its weight. You will see most professional engineers carrying around a heavy case. But out there, up on the roof, the heavier the tool to perfectly align the dish, the more dangerous it becomes for the one who is doing the job. Carrying around heavy stuff



on the roof of a house is not really sensible. The weight of those measuring instruments comes from the built-in cathode ray tube. Although most of the times still in black and white, the power requirements are high, increasing the weight of the batteries. Some use LC displays but most of the time, they also come with tiny buttons and a display that's hardly readable in bright sunshine. The new MSK 33 from Grundig and Kathrein weighs only 6 kg. Not very light-weighted but still a much better weight compared to the competition. It offers on-the-fly measuring and analysing digital signals, printing, LCD display, battery and power adapter. And investing in this measuring tool is a secure investment for the future, since it is built on a modular basis, making it possible to swap certain modules and upgrade to newer technologies. You might, for instance, later replace the MPEG II 4:2:0 board with an MPEG II 4:2:2 board. Many other tools can be thrown away as garbage after a few years, not the MSK 33. It will keep as valuable as it was even when newer technologies come around. The MSK 33 can also be upgraded with a graphic module making it the MSK 33/G, or the MSK 33/Q with a QPSK/QAM module.

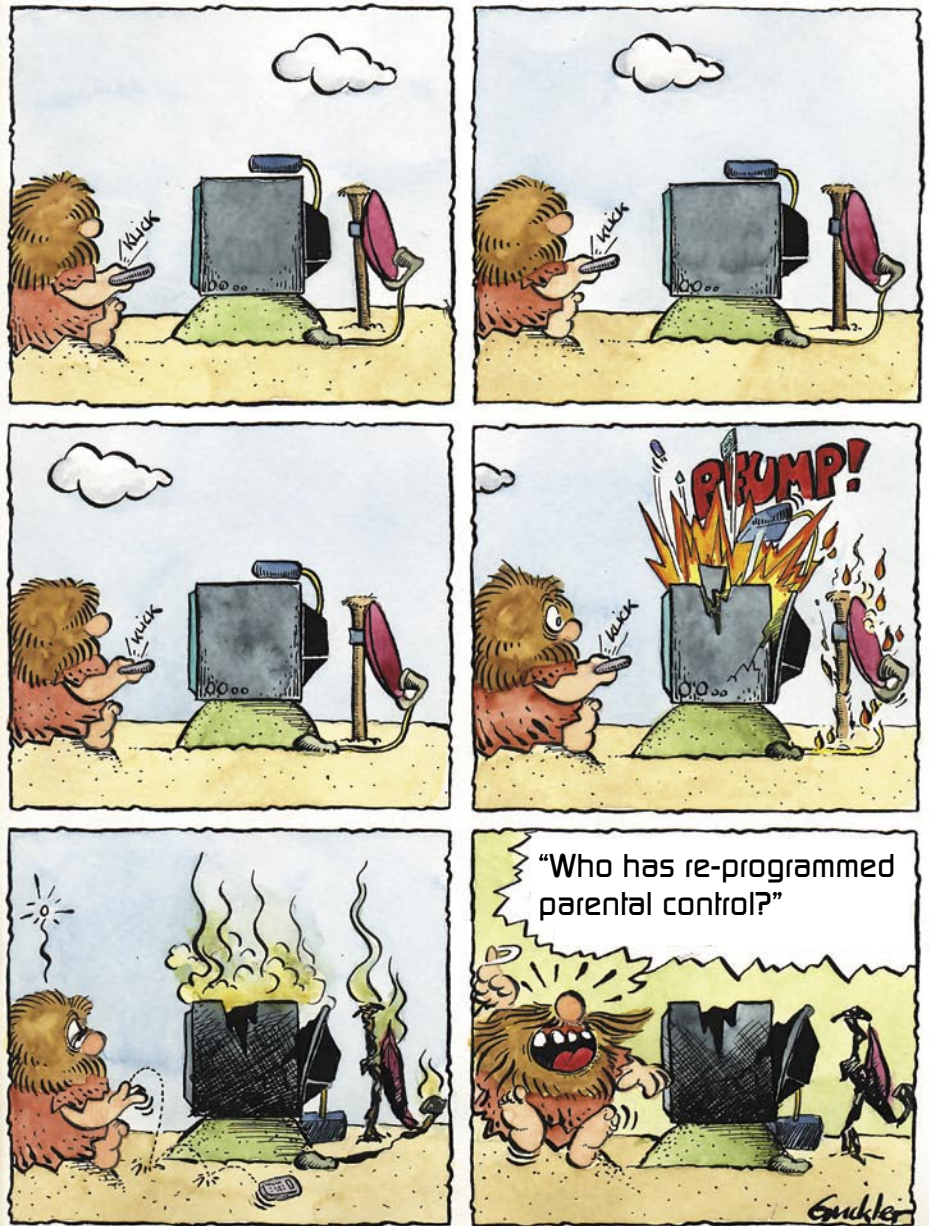
Australian Satellite DXer Bevin Boden

I attended a radio convention at Mt Gambier South Australia about three years ago. A fellow ham had a display of satellite TV on 12 GHz. The analogue receiver was fed by a 1.8 metre solid dish which I learnt later was for sale. Well, for A\$300 I made the dish and LNB mine. I was able to buy a Panasat analogue receiver for another A\$300, and when the convention was over I put this dish on the roof of the station wagon and headed for Adelaide 300 kilometres north. When I stopped to get petrol I was asked what it was that was strapped to the roof? Standard answer: a large wok as used for making lots of Chinese meals at charity functions. Oh, what a good idea, was the reply. We Australians are odd. I might add I also bought a C band LNB and polarotor as well because I knew I would get a little bored with one satellite and a couple of feeds all my life.



When I arrived home, it was up on the roof to set the dish up and watch a new world out there. News feeds, the odd movie and series transmitted for regional stations to record for later transmission and some sport. This enthusiasm lasted about a week. Time to make a couple of arms and mount up to look at C band. The Indonesian and Chinese

stations opened my eyes more than anything and I think any new enthusiast will tell you they get a tingly feeling just looking at all the life being lived by people out there. Your knowledge of the world immediately expands and you become familiar with various time zones around the world.



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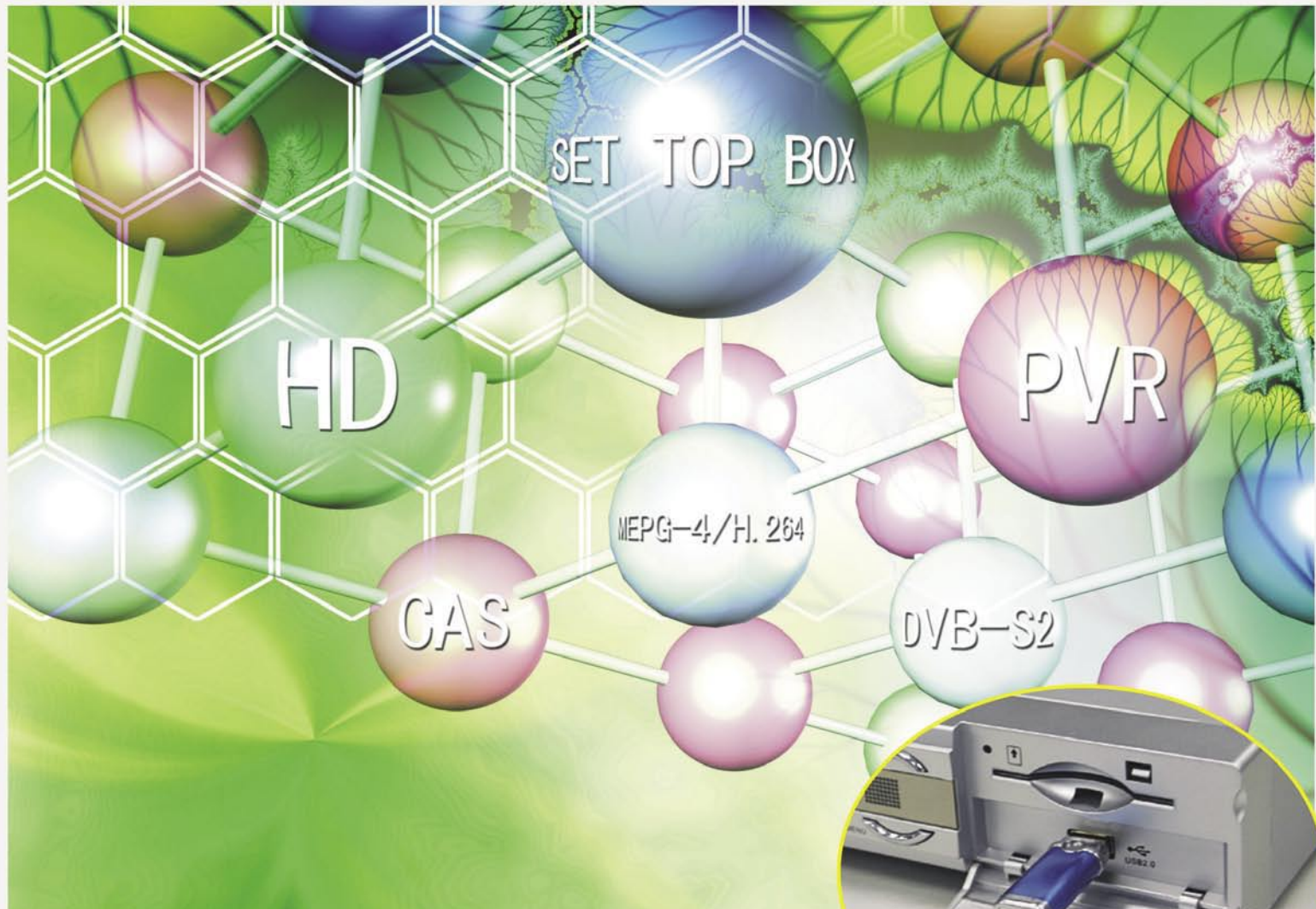
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