

国际卫星电视

与宽带

04-05
2009

B 9318 E

关于公司的报道
阿罗卫视
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TOPFIELD
卫星和互联网的合并

测试报告

AB-COM

试看Modern Linux HD PVR接收机功能强大几许？



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AB IPBox 910HD

TMS

SRM-2100



Start the New year with Topfield Media Solution.

PVR



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

GAME



Featuring on-line game 'BATTLE TANK'.

UCC



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DivX



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

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

www.i-topfield.com

专为
《国际卫星电视》
读者编制的
SatcoDX
“卫星世界”

的”卫星世界”软件包含全
世界各个卫星转发器的技术
数据



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国际卫星电视
1234邮箱
85766 慕尼黑 Ufg
德国 欧盟

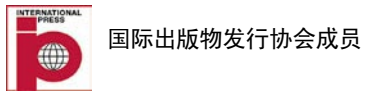
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alex@TELE-satellite.com

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国际卫星电视匈牙利公司
耐曼提·巴拿·阿泰拉
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国际广告
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SatcoDX 06/2009
卫星世界

全球卫星节目信息数据库

Software V3.12 man sdx Creator

全球卫星图表
每个卫星的每个频道

输出SatcoDX数据库
为你的 SatcoDX兼容接收机
载入程序

卫星向导：用你的接收机在你的所在地能够接收到什么频道

天线指导：你能接收到什么节目

节目寻找：找到你所需要的节目

在线升级：随时在线升级

接收机程序：分类编组，然后载入你的 SatcoDX兼容接收机

卫星场强图：看看卫星波束覆盖哪里

输出并打印图表数据：
保存你的个性化目录

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

《国际卫星电视及宽带》出品
仅供单个私人使用
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SatcoDX.com



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从这里下载SatcoDX软件：
www.TELE-satellite.com/cd/0906/man

全球所有卫星频道完整数据列表

自动显示所有可接收的卫星频道

Position Code and Satellite	Type	Ch	Freq	P	Channel Name	Coverage
3150 PANAMSAT 1R (315.0E - 45.0W)	R-DIG	4	3.760	V	Telefuturo (left audio)	PAN01RLW
3150 PANAMSAT 1R (315.0E - 45.0W)	R-DIG	4	3.760	V	Radio Futuro (right audio)	PAN01RLW
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4	3.764	V	Canal 5 El Lider	PAN01RLW
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4	3.764	V	Telecadena 7 y 4	MPG2
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4	3.781	V	Teletcentro	MPG2
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4	3.786	V	Feeds	MPG2
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	5E	3.825	H	Deus e Amor	MPG2
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	7E	3.869	H	Gamavison	MPG2
3150 PANAMSAT 1R (315.0E - 45.0W)	R-DIG	7E	3.869	H	Radio Sonorama	MPG2
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	9E	3.882	H	Feeds	MPG2
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	18	4.040	V	CTC-Mundo	MPG2
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	18	4.071	V	UCV TV	MPG2
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	19	4.096	H	TNP - Television Nacional	MPG2
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	19	4.096	H	Education A Distancia	MPG2
3150 PANAMSAT 1R (315.0E - 45.0W)	R-DIG	19	4.096	H	Radio Nacional del Peru	MPG2
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4	4.106	V	WLIH-TV	MPG2

自动载入卫星频道数据到与SatcoDX兼容的接收机中

通过互联网连接主服务器及备份服务器进行频道数据库更新

以HTML格式打印包含卫星场强图的频道列表



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والاتصالات
& الإنترنت فائق السرعة

قريباً اختيار
TOPFIELD
رئيسي نموذجي للاستخدام مع تليفزيونات البلازما

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

العربية

DiZiPiA

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

DiZiPiA DS4H-9160

رئيسي للاستقبال التليفزيون فائق التفاصيل

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Majalah Satelit FTA Terbesar di Dunia
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Receiver Ideal untuk TV Plasma

Laporan Perusahaan
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Memberikan Gambar yang Jernih

Bahasa Indonesia

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Laporan Uji
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HDTV PVR dengan Dua Tuner

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Нови продукти
TOPFIELD
Идеалният приемник за плазмени телевизори

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

Български

DiZiPiA

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

DiZiPiA DS4H-9160

HDTV PVR приемник с двоен тунер

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Největší časopis o satelitní technice na světě
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Recenze
TOPFIELD
Ideální přijímač pro plazmové TV

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

Česky

DiZiPiA

Recenze
VENUS 4-Segmentová síťová satelitní parabola
Inováce z Indonésie

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HDTV PVR se dvěma tunery

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Idealer Receiver für Plasma TV

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

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

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Test Report
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Ideal Receiver for Plasma TVs

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

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Le récepteur idéal pour des TV plasma

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Filtres de qualité pour bande C qui procurent des images claires

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Nouveauté d'Indonésie

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Ιδανικός Δέκτης για Τηλεοράσεις Πλάσμα

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

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In Prova DiZiPiA DS4H-9160
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Eszményi beltéri vevőegység a plazma tévékhez

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

Magyar

DiZiPiA

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Újdonság Indonéziából

Teszt beszámoló DiZiPiA DS4H-9160
HDTV PVR iker hangoló egységgel

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高性能C波段微波过滤器提供洁净的画面

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Ideale ontvanger voor plasma TV's

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Hoge kwaliteit C-band filters geven schoon beeld

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Идеальный приемник для плазменных телевизоров

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

Русский

DIZIP A

Тестируем VENUS Четырех сегментная сеточная спутниковая антенна Инновация из Индонезии

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

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Perfekt mottagare för platt-TV

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Högkvalitativa C-bandsfilter ger bra bild

Svenska

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Testrapport Venus
Nätantenn i fyra segment Innovation från Indonesien

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Plazma TV'ler için ideal Uydu Alıcısı

Şirket Raporu MFC ABD
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Türkçe

DIZIP A

Test 4 Parçalı VENUS
Endonezya'dan Yenilikçi Ağ Anteni

Test DIZIPiA
DS4H-9160
Çift Tunerli HDTV PVR

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Technomate

The New!

TM-5000 Super Series

with USB PVR for Recording



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

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

USB Features:

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

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

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

TM-5200 D USB
super

Free-To-Air Satellite Receiver

TM-5300 D+ USB
super

with Built-in Smart Card Reader

TM-5400 CI+ USB
super

with Card Reader + Common Interface

TM-5600 CI USB
super

with Common Interface

High-Definition

Satellite & Terrestrial Receiver

TM-6900 HD COMBO Super



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

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



3500 HDMI PVR

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



3000 CRCI PVR

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



3500CI HDMI PVR

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



3000 CR PVR

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



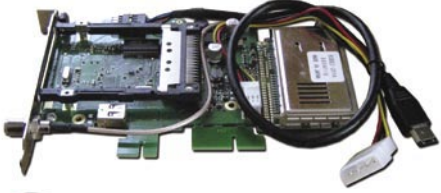
AB IPBOX 910HD

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亲爱的读者们



目前的全球金融危机将会波及到卫星工业吗? 看来有两种不同看法。有一些人甚至预料说会有增长,因为他们确信那些时间不确定的人们更有可能呆在家里,于是就会关注到底有多少、有哪类卫星电视节目可以看。如果你担心工作稳定、担心银行帐户里的资金,如果你对于花销很在意,那么就会更愿意呆在家里闲着,并欣赏喜爱的卫星电视节目。

但是事物总有其另一面。另一些人引证相同的理由但却得出相反的结论:如果你正在储蓄,那就不太可能花钱买个新的卫星接收机。对于后者,他们没有看到这一点:卫星电视实际上是接收电视的诸多方式中性价比最高的,在卫星系统上的投入是物有所值的。

这些争论与能够接收到多少免费节目有关,大家都知道 FTA (免费电视)和付费电视毕竟还是有所不同。就我而言,总是质疑个人怎样才能付钱看电视,而现在的金融危机可能会使更多的人斟酌这个问题。付费电视节目供应商应该体察这种情况。

那么卫星产品的制造厂商应该如何应

对呢? 如果银行对于授信给我们还犹豫的话,那么制造厂商还要大量生产产品吗? 如果你看了《国际卫星电视》本期和前几期关于公司的报道,你就会知道现在制造厂商都在都由职业经理人在谨慎地经营着。财务制度健全的公司总是有很好的信用,因此金融危机还没有影响到这些公司。

形势究竟会怎样发展呢? 对于卫星业来说目前还没有问题。我们很高兴地看到新的一群免费卫星电视观众加入进来了:这就是来自纽约华尔街和伦敦金丝雀码头金融区的银行经理们。他们现在必须卖掉法拉利和第二辆保时捷,并取消付费电视服务,他们现在需要为其公寓客厅里的大平板电视配上一个牌子新的高清PVR卫星接收机。现在,这些从前的财务经理们肯定有充足的时间来看电视。

您的

亚历山大 维思

附注: 本月我喜爱的广播电台是: 19.2° E 上 ASTRA 卫星的 NRJ(12.207V),它在连续播放着法国流行歌曲。精心选择的歌曲在不断重播,现在就可以欣赏它。

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HD2.0

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



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

Dolby Digital Down-Mix Output Support (*Optional)

Conax CAS 7 Embedded Chipset Pairing

Cable HD Ready Support (for Cable STB only)

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

Software Upgrade via USB 2.0

YPbPr, CVBS, HDMI, SCART Video Output Support

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

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

Easy and Fast Auto Programming, Intuitive User Interface

Multi Language Support(Customer Option)

HD2.0 Slim



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TOPFIELD **NEW** Topfield Media Solution



Features available at launch

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



PVR
Playing recorded programmes up to 64 times speed at maximum



GAME
Featuring a double-player game „Battle Tank“



UCC
Playing media contents of YouTube



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

Experience the future of digital receiver

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

Features will be available by firmware updates

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



TOPFIELD TF 5050CI HDMI



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



Measuring Instruments

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



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

ALSO AVAILABLE:

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

DIGISAT PRO ACCU

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

With DiSEqC tester.



ALSO AVAILABLE:

- Digisat
- Digisat+
- Digisat Pro
- Digisat Multi

DIGIAIR dB

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

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



Satlook Micro G2



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

ALSO AVAILABLE:

Upgrade-KIT for Satlook Micro

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

Satlook Micro G2 upgrade contains:

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

Satlook NIT Color



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

TOPFIELD

TF 6500T HDMI



DVB-T Receiver

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

TF 6000 FE

Digital satellite Receiver

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

PCMCIA-Modules

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



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

Boca **NEW**

DSL 250 / DSL 250-T



Digital satellite / terrestrial Receiver

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

DSL 350 1CI



Digital satellite Receiver

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

DSL 500 PVRready



Digital satellite Receiver PVR-ready

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

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



HDTV Receiver Selection

TOPFIELD

TF-7700 HD PVR



HDTV digital satellite Receiver with personal video recorder

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

TOPFIELD

TF-7700 HSCI / TF-7700 HCCI



HDTV for satellite and cable reception

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

Boca

NEW

HD 200 CI PVR



HDTV digital satellite Receiver PVR-ready

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

Motors

Aktuatoren/ Actuators

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



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

LNBS

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



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

Inverto

NEW



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

All available as:

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



Full LNB range INVERTO available from stock

Multiswitches / DiSEqC - Switches

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



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

sa SPAUN Full Range

Parts

Multifeederholder for 2, 3, or 4 LNB



Wallmounts

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



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

Remotesystems

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



Koaxialcable

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



invacom QDH 031



AVAILABLE AS:

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

Full LNB range INVACOM available from stock

MICROELECTRONICS TECHNOLOGY INC.

High-Line-Series



AVAILABLE AS:

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

Full LNB range MTI available from stock

Inverto

digital-labs

IDLP UST110-CUO10-8PP

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



Balcony mounting parts

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



120 cm length – Ø 6 cm

ALSO AVAILABLE:

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

Dishes

CIBERTINI TRIAX Emme esse



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

Big Dishes directly from our warehouse!

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

Flat-Dishes

NEW

SELSAT H10D / H10D2



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

MAXIMUM Flat-1



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

Multifocus Dish

MAXIMUM

E-85 Multifocus 48° Dish



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

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

by Thomas Haring

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

Creating a DVD

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

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

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

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

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

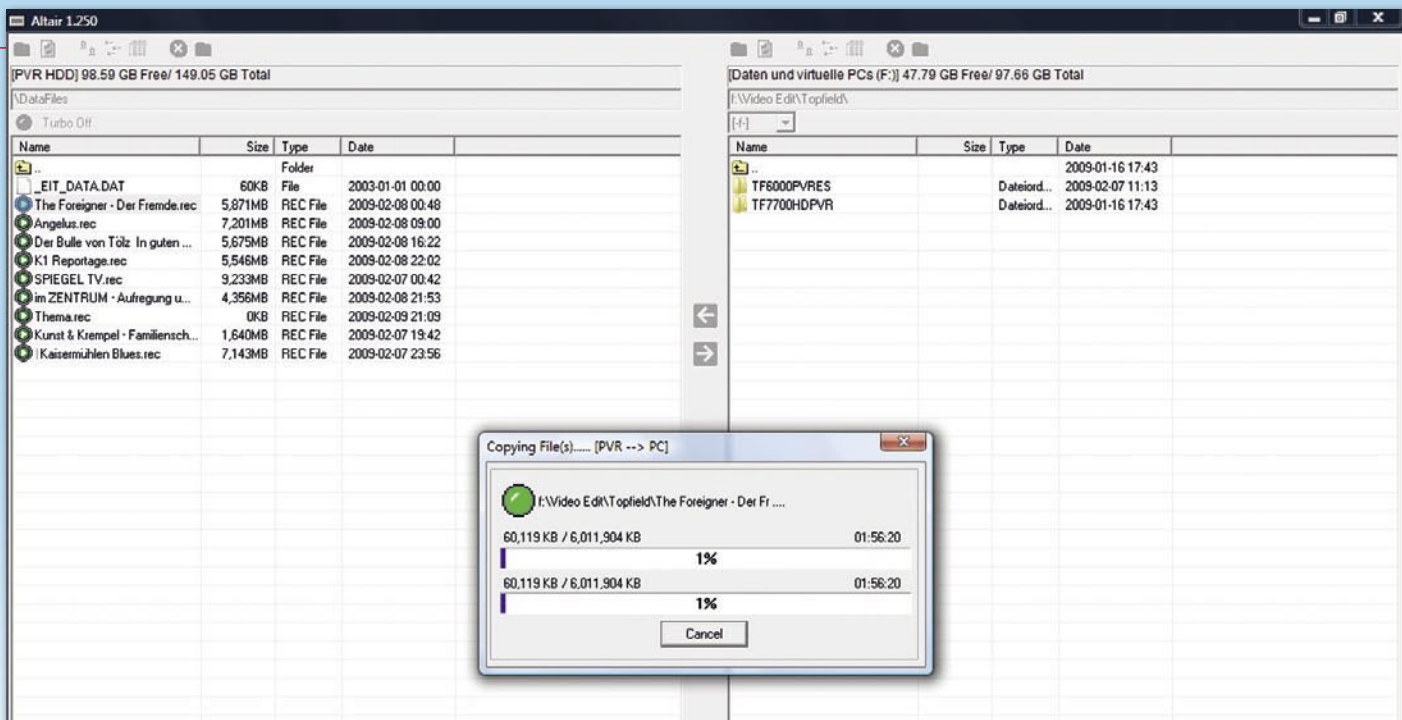
it as a removable disk drive after a few moments and then you're all set for copying files to the local disk.

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

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

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





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

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

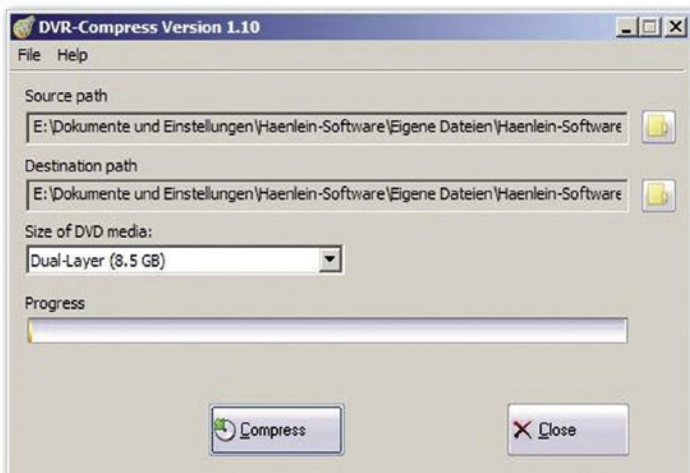
All this is not only available in the local network, but also via the Internet, if required. This means you are able to check right from your hotel room whether your Topfield receiver at home has recorded all events you had set in the timer. Or if you find out a blockbuster movie is on TV that night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

Transferring a recording from the receiver to the PC

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

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

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



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



TOPFIELD®



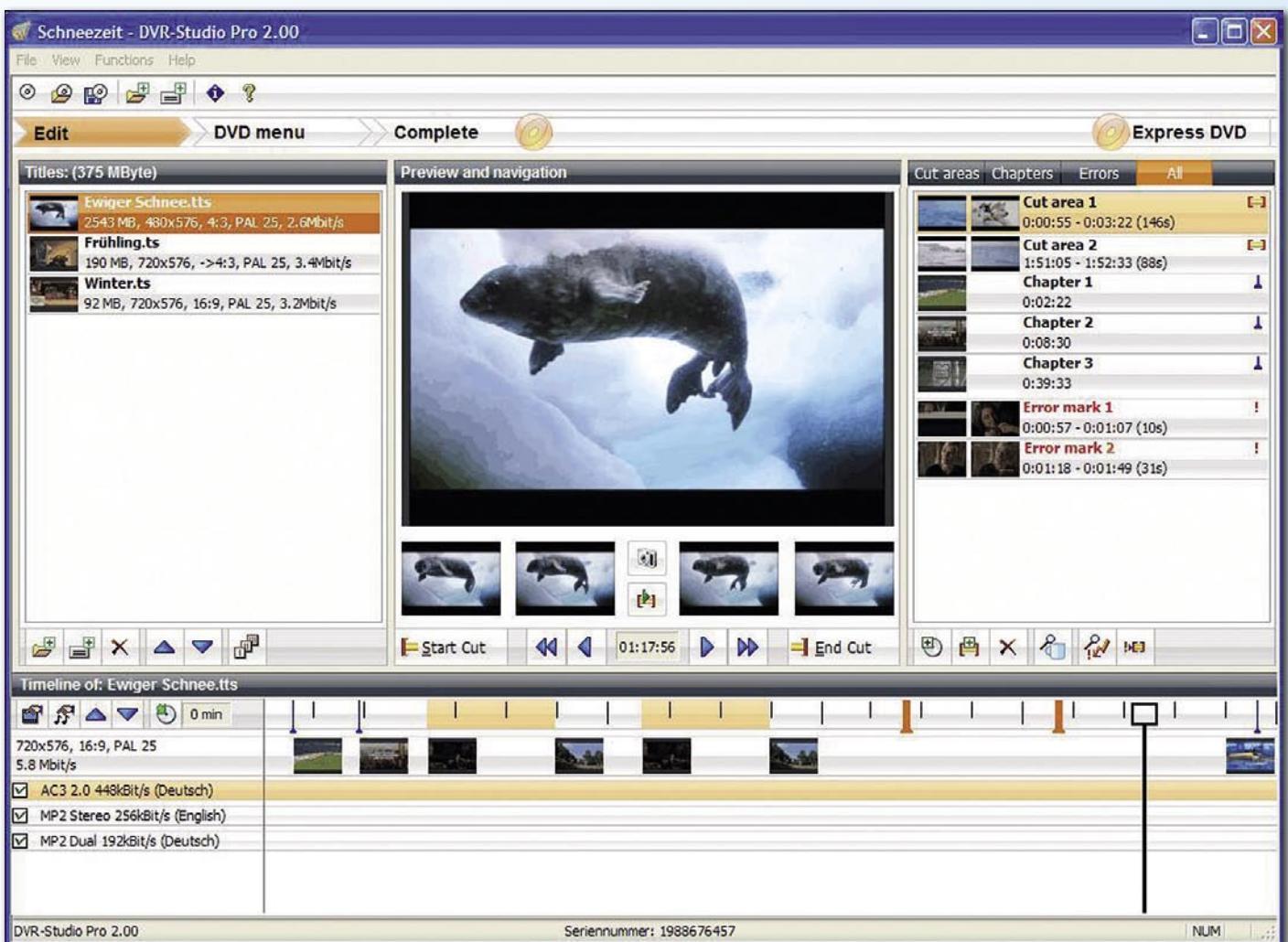
DVR Studio HD creates DVDs or Blu-ray discs from HD material

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

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

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

Once all required drivers are installed



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

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FORTIS ► *the new HD era.*

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



FS-9000HD

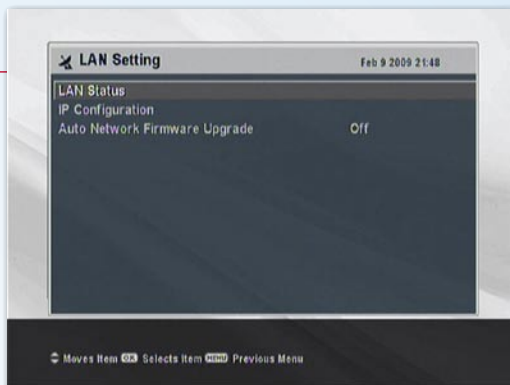
MPEG4 - HD,SD / H.264 / DVB-S2 Twin Tuner
Micro SD slot for external memory
Supporting DivX file play back



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FORTIS



Network menu of the TF6000PVRE



Network status displaying assigned IP addresses



DHCP for automatic retrieval for required settings



Manual IP assignment



Software update via satellite

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

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

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

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

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

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

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

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

The following comparison clearly shows how the transfer rate changes:

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

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

Editing recordings on the PC

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

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

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

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

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

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

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

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



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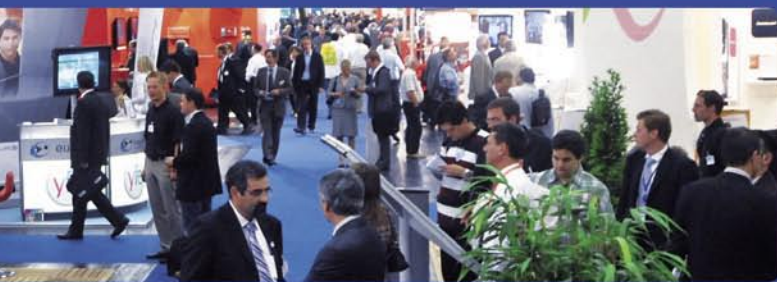
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Software update via PC using a USB or serial connection

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

Editing the channel list

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

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

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

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

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

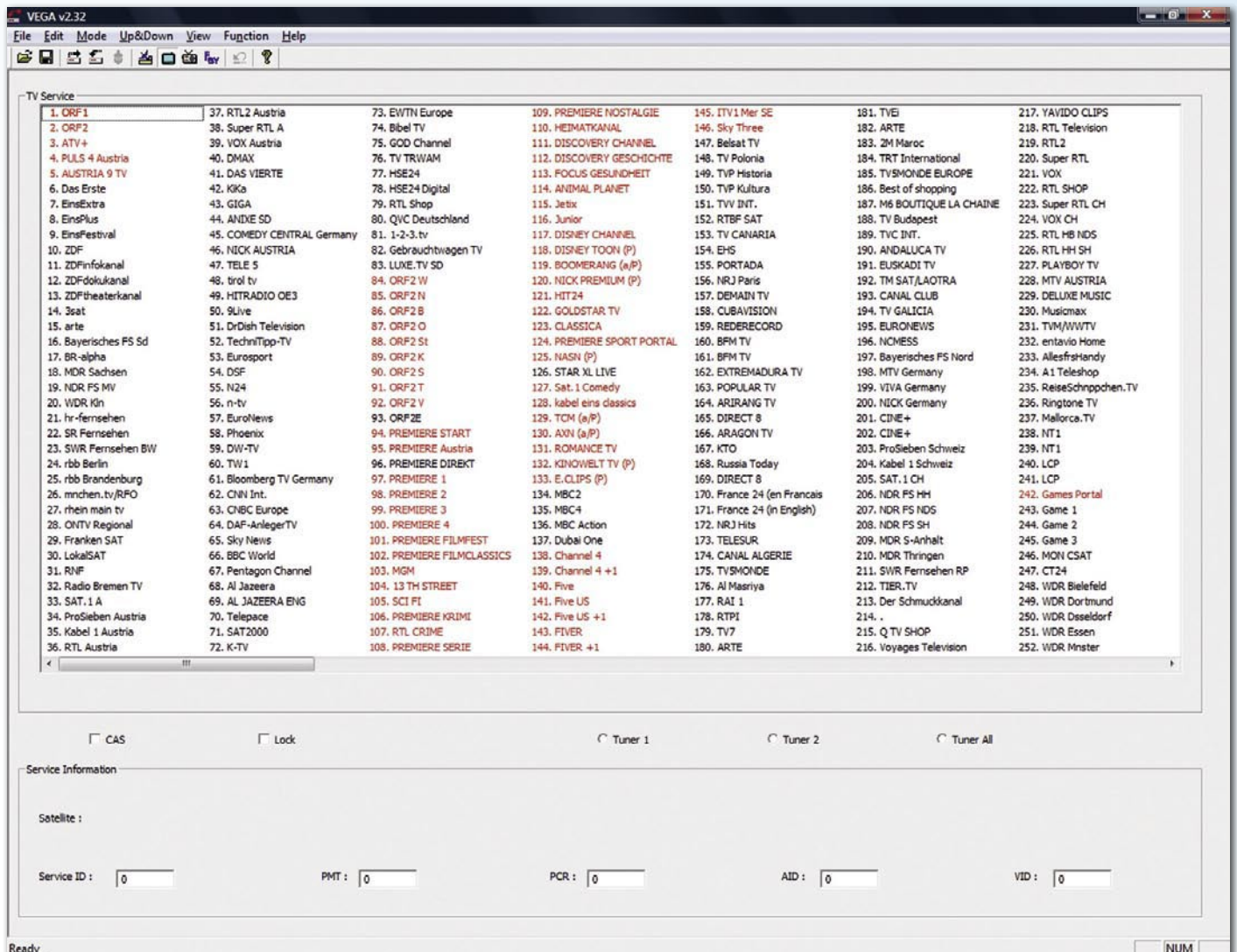
In a first step you need to make sure

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

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

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

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



Vega channel list editor



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

Software update

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

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

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

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

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

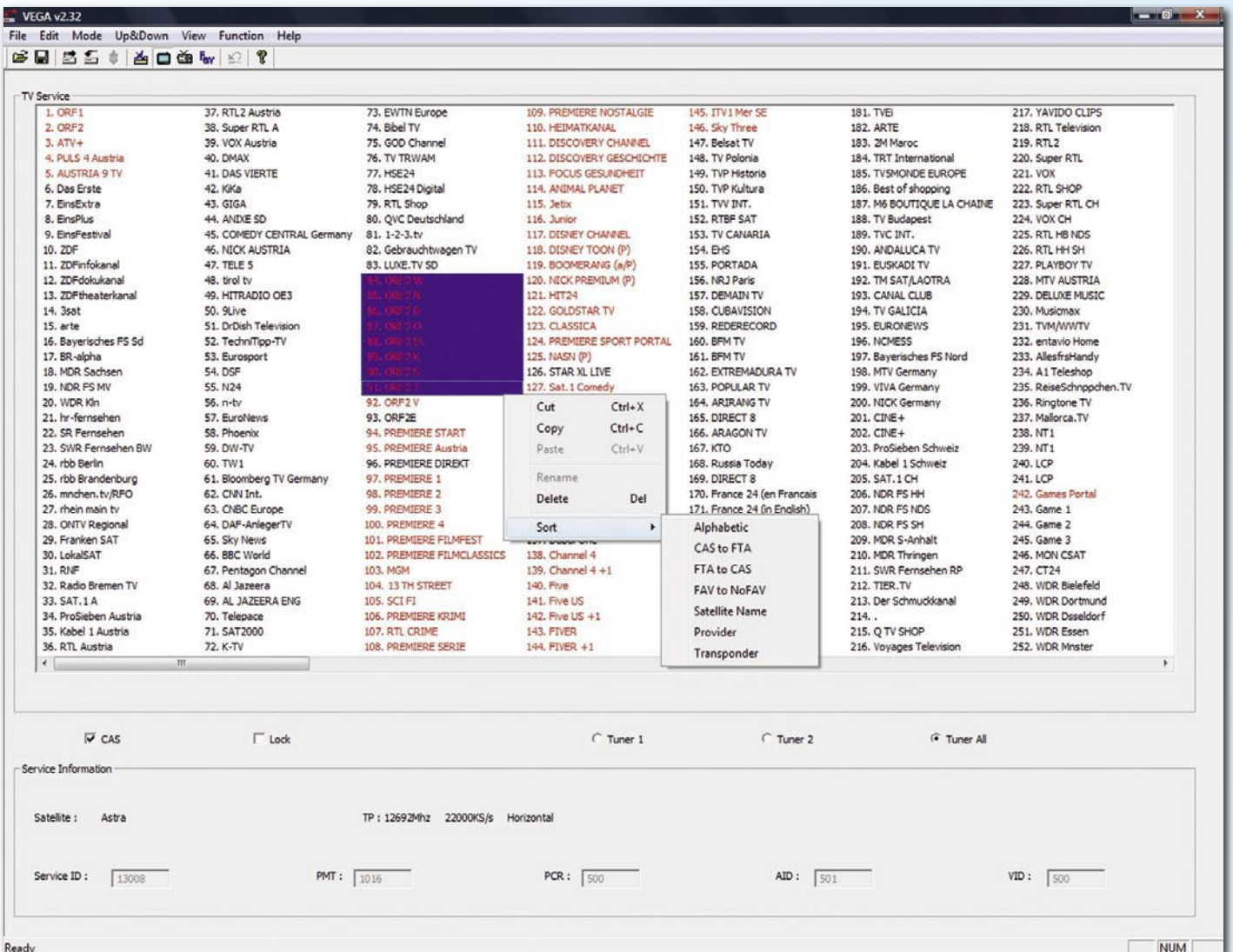
In such a configuration the Topfield TF7700HDPVT, for example, can automatically obtain all information (like standard gateway or DNS server) thanks to DHCP. Alternatively, all settings can also be entered manually. As soon as a connection to the Internet can be established the receiver connects to the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

field server and checks whether new updates have been released.

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

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

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



Various sorting modes of Vega

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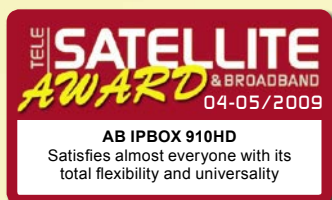
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AB IPBox 910HD

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接收机制作水平的进步实在是令人惊奇！就在几年以前，当我们不断努力改进模拟接收机的时候，难以想像今天的情景，看似简单的机顶盒，不仅仅带给我们前所未有的靓丽色彩和难以置信的清晰图像，而且还能播放音乐和视频节目、发送电子邮件、玩游戏！计算机和接收机之间的边界正在消失。各种不断出现的产品-还可能给很多高级的用户们提供更多的家庭服务。

至于 ABCom 公司,它曾经以其功能强大的 Linux 接收机闻名,也正在加速这种趋势。他们一直坚持不懈地致力于硬件和软件的开发。令人高兴的是他们早先的一些型号也已经得到改进。今天我们终于有了一个机会来测试 AB IPBox 910 高清录像接收机,这是900HD 的一个姊妹产品,后者在我们以前的杂志(《国际卫星电视及宽带》08-09/2008)里作过介绍。

新款型号继承了早先产品的所有优点。两者都采用 DVB-S 和 DVB-S2 方式,兼容接收 MPEG-2 和 MPEG-4 标准的

ab-com



标清和高清信号。如果你要帮助你的老奶奶继续收看地面电视里播放的没完没了的连续剧，即使当模拟广播停止的时候也不要紧，910HD也能帮助你。把 DVB-S 的调谐器更换成 DVB-T 的用不了几分钟，它还真的配有一个 DVB-C 的有线电视调谐器。

你从远处看不到 900HD 和 910HD 之间的任何差别，但还是略有不同。前面板保持了 900HD 的高雅风格，这也与其内部的强大功能相配。除了 2 个 CI 插频道之外，在带有磁性的舱门后面，还有一个明亮的容易读取的 VFX 显示窗，同时还有 8 个按钮，能够让你操控接收机的几乎所有基本功能。

后面板和前面板一样精彩，而且比以前还有改进。在我们测试的型号中，如果是安装了 DVB-S 的调谐器，那左边就会有一进一出的接口。所有的计算机和网络数据都

可通过 USB、RS-232 和网卡接口接入。通过 HDMI、S/PDIF 和 Y/Pb/Pr 接口，可以输出非常清晰的图像和声音。1 个 Scart 和 3 个 RCA 插口，具有向下兼容的能力，因为它们几乎无法让你领略高清电视的魅力。它还有一个 SATA 接口和一个供电接口，910HD 接收机内也可以让你安装 SATA 硬盘！当接收机启动的时候，它也将启动，其接口不会发生冲突。但是现在你得选好，如果你想把节目录像随身携带的话，还是用移动硬盘为妙。

主电源开关旁边是一个换气风扇口，它可以保护大功率工作的接收机免于过热。增加这个功能是很明智的！然而，有些敏感的用户会觉得它的声音稍稍有一点大。不要紧，就去电脑商店找一个安静一点的电机换上吧。

遥控器和前一款完全一样。实际上，在我们的实验室

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Available online starting from 27 March 2009

中甚至还引起了一些混乱，因为我们还仍然用着 900HD。操作的信号是一样的，而且如果你有早先的 IPBox，900HD/910HD 的遥控器也能通用。用它来操控你的电视机也很容易，在使用手册的最后一页，有数以百计的型号可供选择。至于它的设计，我们不为在 900HD 的测试报告中所说的那些话感到遗憾，它布满按钮，但是却非常合乎逻辑地进行编排，所以你很快就会熟练使用它。而且和其他多数接收机相比，它的特殊按钮，非常令人难忘。

初始安装

看来 ABCOM 的固件都是一样的，至少在第一个步是相同的。首先是同样的安装向导引导你选择屏幕菜单的语言 (OSD 的显示语言有：英语、俄语、法语、意大利语、荷兰语、德语、丹麦语、捷克语、斯洛伐克语、匈牙利语、挪威语、波兰语、葡萄牙语、西班牙语、瑞典语、希腊语、土耳其语、韩语、克罗埃西亚语、波士尼亚语、塞尔维亚语、保加利亚语、罗马尼亚语和芬兰语，也可以选择声音、字幕





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和电图文电视文件的语言), 然后是在屏幕上设定本地时间。接着是一大堆选项, 如手动设定时间, 或让接收机从数据码流中自动对时, 还有时间模式以及夏令时设定。

下一步, 就需要连接你的天线了。对于一个卫星调谐器, 首先要按下红色的按钮一个, 一个地将你所要看的所有卫星都加上。每个卫星都可以很方便地在相同屏幕页面设置不同的 LOF 频率。它支持 DiSEqC 所有的版本(1.0, 1.1, 1.2 和 1.3), 这使 AB IPBox 910HD 接收机成为你的多卫星系统控制中心。当所有需要的卫星都找到后, 按下“退出”按钮回到安装向导界面。

按下“黄色”按钮让你直接进入下一个步的频道搜索。屏幕上会出现两个选项: 自动

和手动搜索。名称就已经说明了它们的功能。前者就会自动在预选的频率里寻找相应的 NIT 码直到找到相应频道, 而后者则需要你手动输入相关参数。当然, 对于 DVB-S2 方式来说, 调制方式和和特别 FEC 是必不可少的。

虽然普通的自动或手动频道搜索并不十分有趣, 但是对于我们一般的用户来说已经足够快了。我们用了 9 分钟扫描了一个具有 105 个转发器的卫星。对于急着先要在屏幕上看到图像的人来说, 有一个“快速载入”功能, 它只是载入预先储存的频道目录。而如果你宁愿要看到一个比较实际的频道目录, 就需要忍耐一下。

所有下一步的功能选项都按逻辑排列在主画面上, 这

会让你有一种似曾相识的感觉。但是我们知道程序设计师们都在努力工作中, 因此, 必定会有新的东西出现! 完全正确! 在这里, 我们可以选择所有的屏幕参数, 像长宽比、电视制式、杜比、Scart、HDMI 和 S/PDIF 等。在这里, 我们也能通过一个子菜单, 把 910HD 接入到当地的网络或互联网里, 可以检查硬盘的参数或者作一个恢复出厂设置。啊哈! 现在还有 DivX 图像播放器, 整个多媒体部分确实值得夸赞, 保持进取吧!

我们这是在哪里呀? 啊! 它毕竟只是一个卫星接收机呀! 那就在我们进行 Linux、远程登录和 FTP 等令人发狂的测试之前, 让我们抓过遥控器领略一下它的基本功能吧, 接收一些数字频道看看。

日常使用

频道目录看来和 900HD 相同, 所有优点历历在目。有各种书架一样的选择项, 你可以按照字母顺序、免费/加密、卫星或节目供应商们来将频道分类。按下黄色的按钮, 可以启动“越过”功能, 这很有用处, 它可以帮助你从数以千计的卫星频道里尽快找到相应的分类, 举例来说, 如果你选择字母分类频道的时候, 它可以帮你越过当前跳到下一个字母。而要更好地进行编排, 不要忘了还有 FAV 按钮, 它可以让你直达喜爱的频道。有 5 个预置的喜好分组- 运动、戏剧、新闻、电影和音乐。按下“i”按钮, 能让你产生新的想法, 如: 删除、重新命名、移动、编辑或锁定。

在主频道目录里按下“i”按钮, 能让你直接进行简单的编辑, 包括在我们的 900HD 里, 逐一对喜爱的频道音量加以编辑。这就很好地解决了一个老问题 - 有多少次我们在不看广告时去浏览其他频道, 有时会突然发出振动房间的刺耳音量? 现在只需在频道目录中设定音量即可! 再也没有人会抱怨你的电视机声音太大了!

说到快速换台, 910HD 不会使快速换台狂们满意, 而频道之间的切换大约为 1 秒, 这对于一般的观众来说就很好。相对于在 DVB-S 和 DVB-S2 之间或者在标清和高清电视频道之间的切换, 它在相同转发器的频道之间的切换可能要稍快一些。但是至少你能确定几乎没有频道会离开你的视野! 甚至在 HELLAS 2号卫星上的卡拉布里亚频道也能接收得到, 要知道这个 SCPC 广播的 SR 只有 1425! 它还有一个特别的比特速率核实功能, 帮助你检查频道的图像和声音指标是否真的像广播公司承诺的一样。

PIP 也和从前一样。来自相同转发器的 2 个频道能在同样大小的视窗中显示出来, 第二个视窗也可以比第一个主视窗稍小些, 两个频道而后就绑定在一起了。由于其遥控器和 900HD 相同, 所以该按钮都在顶上的第二行。

值得称道的是其界面友好的双模式 EPG。EPG 按钮按一次为所选频道即将播出的节目索引, 第二次按下则进入真正的节目向导, 只要节目供应商们能够提供, 它就会显示周围频道的全部 EPG 信息。只要你按下遥控器上一



Difference from your competitors



Colorful Mesh Dish as you need

- Antenna Dish size : 4.5', 5.0', 5.5', 6.0', 7.0', 7.5', 10' ➔ As you need
- Made from Aluminum material, ➔ Anti-Rusted
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Integrated LNB CKU Band
with DiSEqC Switch
LNB CKU-01 Model

个标有红圈的按钮,你当前所看的节目就会被录制并标上记号。

这真是令人惊奇的录像功能。910HD 不仅可以让你把一台移动硬盘通过 USB 或者SATA 接口连接上,它已经内建一个硬盘了。在我们试验的这一款机器里就有一个 500 GB的硬盘,它不仅可装载节目录像,也可以拷入 DivX 电影和 MP3 音乐节目。当我们把精力集中在录像的时候,值得注意的是“开封”按钮,它让你直接进入录像节目里,而只伴有两声滴答响,它还有令人惊奇的时间转换功能选项。在“高级设置”里启动“硬盘设置”,你就能感受到其功能的魔力 - 可以在任何时刻中止实况转播,例如你在观看喜爱的电影时有意外的打搅或遇任何紧急情况,稍后它还会从刚才

中断的地方接续下去!“重放”功能使得回放也很容易。而你使用所有功能时,并不需要超光速的火箭,只需要 1~2声滴答响!

多媒体选项

因为 900HD/910HD 的固件正在不变升级,两款机器现在在报价都可以播放音频和视频文件、浏览照片,或将其存储于外接硬盘或者 U 盘上,也可以存储在 910HD 的内部硬盘上,或通过 FTP 上传到“媒体”目录(设置接收机的 IP连接方式要从“高级设置”- 进入“IP 安装”菜单,用“根”作为用户名,用“ipbox”作为密码)。

“多媒体”子菜单也包括一些 PVR 功能,这些储存有录像的文件在“录像目录”里,“录制时间表”是用于

过去录制节目的定时记录。对于提到的“之外”文件可以单独保持三个选项。用“OK”按钮点击两下它们的名字就可以预览全部照片,也可以直接单独显示,也可以按黄色的按钮来放映幻灯。屏幕上也有 MP3 播放器,显示为一般音乐

播放器按钮,同时也会显示播放时间及其比特速率。

至于下面的并不需要说太多,视频/DivX 播放器仍然需要一些改进。在一次测试电影播放时,就在我们的个人计算机上进行,910HD 的声音和



影像不能同步, 图像滞后 1~2 秒。相信公司经过努力会在升级后改进这一点。

升级固件

对于功能如此强大而且通用性极强的接收机来说,

不断保持软件升级是非常重要的, 因为它还蕴藏着巨大的潜力有待于进一步开发。ABCCom 努力尝试过, 通过下载将接收机的软件升级。但是, 遗憾的是还是有点纰漏。我们得到的 910HD接收机软件为 8340 版, 而根据生产厂家网站上的显示, 最新

的是 8360版。最明显的增加了是“高级设置”和“网络更新”菜单。可我们这里却不行? 完全是落伍的软件版本! 这期杂志生产厂家一定要看看。我们只得选择另外的一个途径: 使用 U 盘来升级接收机固件。

从硬件观点看, AB IPBox 910 HD 几乎不需要任何改动, 如: 所有的接口, 即插即用可转换的调谐器, 接收 DVB-S 和 DVB-S2、MPEG-2 和 MPEG-4、高清和标清电视的能力。你甚至能把所有喜爱的电影、音乐和相片拷贝到它的硬式上, 可以玩游戏或者看天气预报, 可以容易地安装数以百计的可用软件, 还可以将接收机装入另一种操作软件。

ABCCom 在继续努力, 而且大多数基础工作已经在 910HD 中完成, 这是一个很好地、有前途的选择!



ab-com



专家的结论

+

由于它可以采用两种不同的操作软件，几乎受到每个人的喜爱。

借助其正式的软件系统，操控是如此简单，即使是孩子也能轻松找到他们喜爱的动画片频道。

两种不同的操作软件让发烧友们爱不释手。

其接收 DVB-S, DVB-S2, MPEG-2, MPEG-4, HDTV 和 SDTV 的总体适应性和广泛性得到公认，而且还可以更换高频头收看地面数字电视。

不仅可以内置 HDD 硬盘，而且还可以外接 HDD 硬盘。

是一款真正的多媒体机器，整合了卫星、有线、地面数字电视接收功能，还可以播放音乐、观看 DivX 电影和浏览照片。



Nickolas Ovsyadovsky
TELE-satellite
Test Center
Hungary



频道目录 |



子菜单里的 PIP 功能 |

-

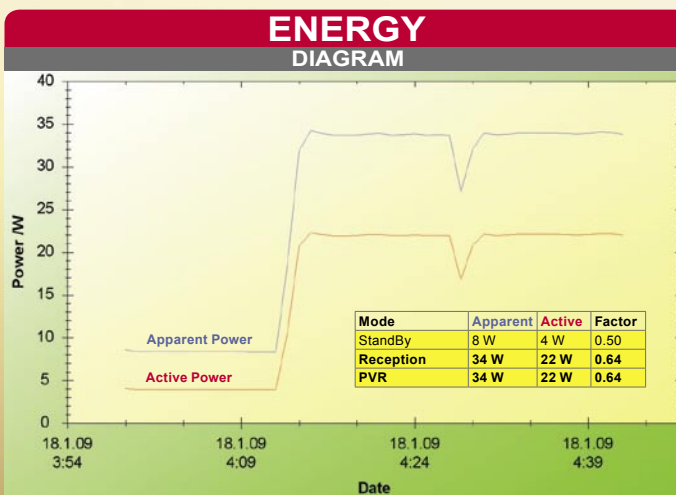
频道搜索和切换速度应该再快一点。

DivX 播放应该解决不同步的问题。冷却风扇应该换成更好一点的型号。



SR 只有1425的 SCPC 信号接收 |

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



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

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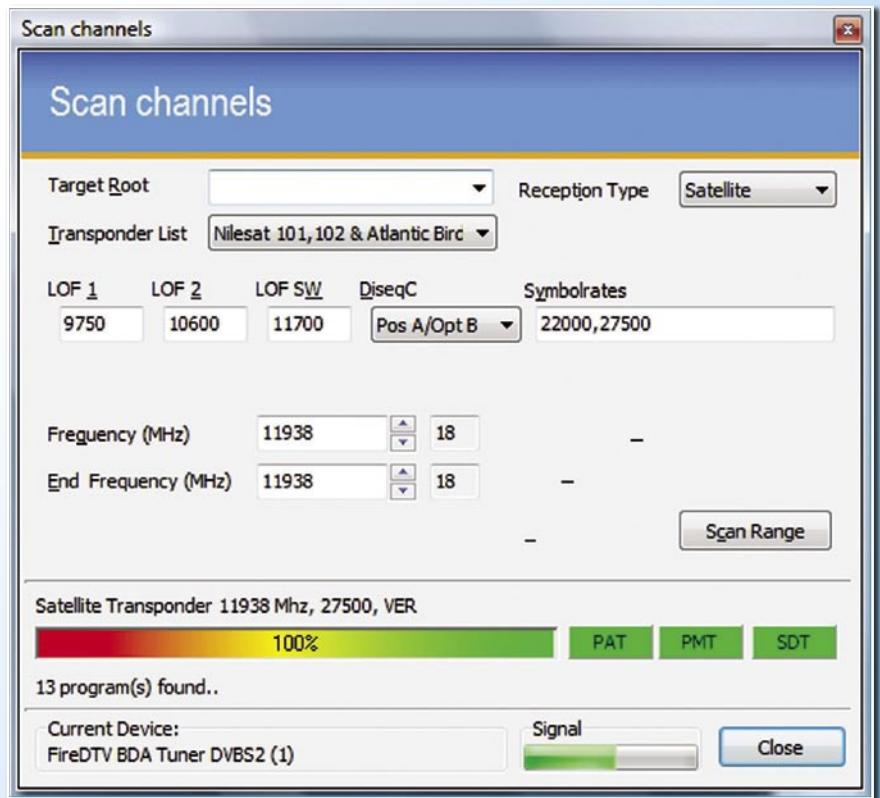


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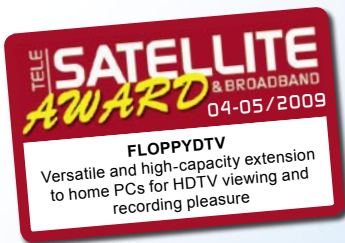
FloppyDTV Perfect DVB-S/2 Solution for the PC

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

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



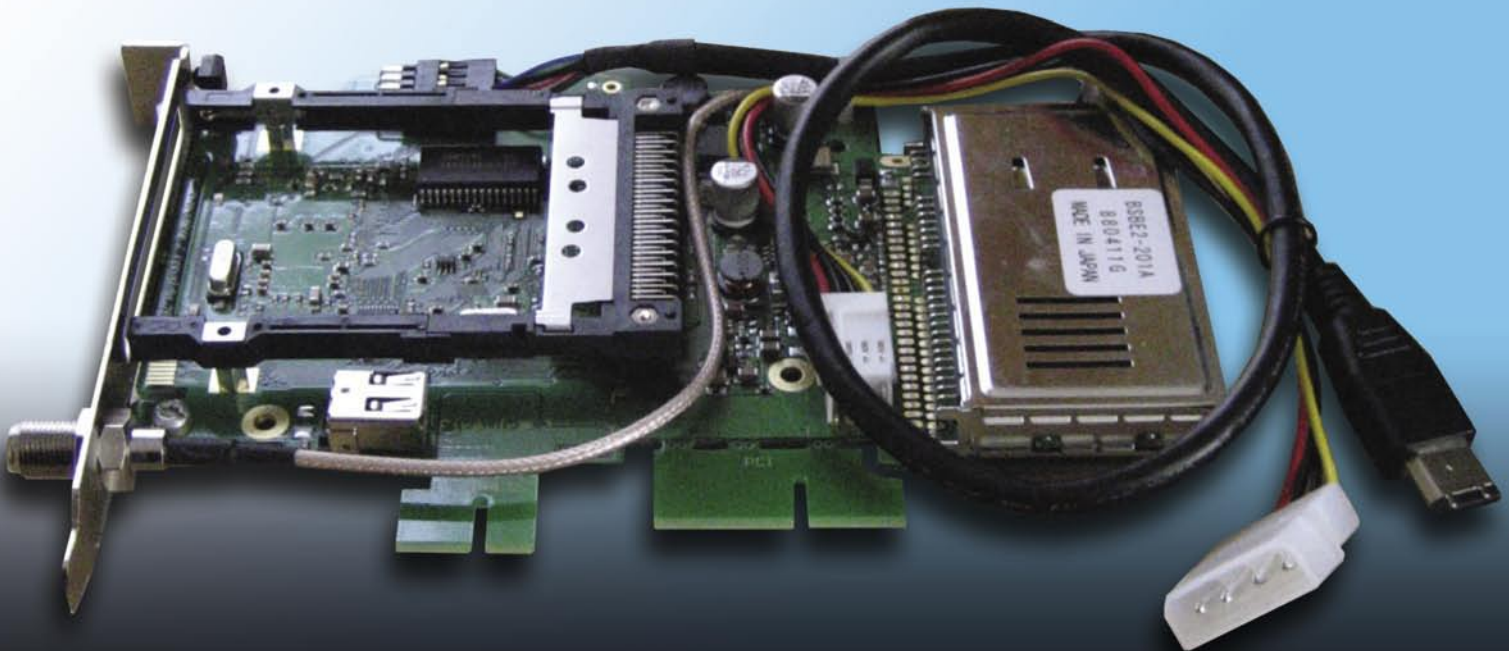
Transponder scan on NILESAT 7° West |



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

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

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



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MP880

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- 3 Digit LED Display
- Software Limit Protection



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satellite
Electronic Systems



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

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

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

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

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

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

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

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

Installation

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



Channel list sorted according to providers |



Channel list sorted alphabetically |



Channel 4 HD with info bar |

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

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

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

Apart from the provided FireDTV Viewer you may also

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

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

Everyday use

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

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

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

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

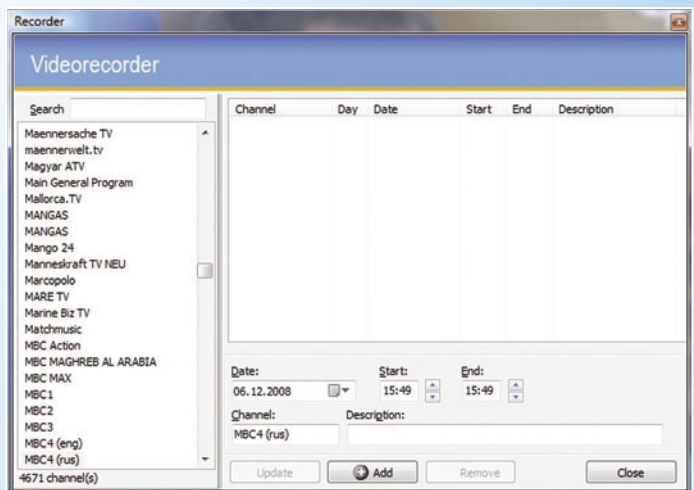
Once the installation process is finished the software is ready to perform its first channel scan. The FireDTV Viewer comes with a pre-stored list of 153 European, Asian and American satellite positions which is quite up-to-date and well sorted. Any required LOF can be used which means that the good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

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

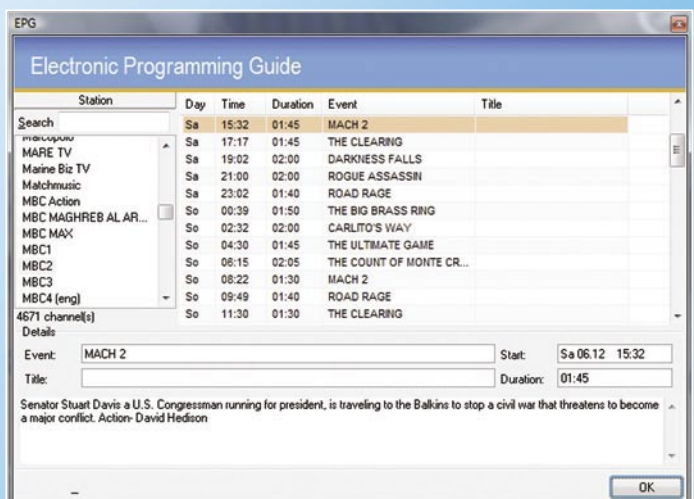
The pre-stored transponder list allows performing a channel scan either across the full frequency range of a satellite or for a restricted range. Alternatively, a single transponder can be chosen for a scan as well. Each scan result is saved separately with an individual time stamp by the software and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



CI menu |



PVR timer function |



Extended EPG |

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

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

Now that the channel list is

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

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

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

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

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

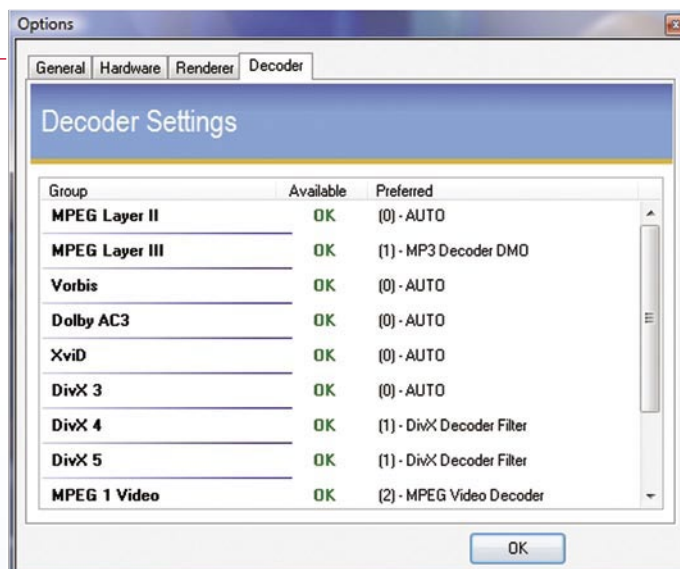
for up to a week in advance, if provided for the selected channel. Naturally you can mark EPG entries for recording with a simple touch of a button – we would not have expected anything less for a premium product anyway.

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

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

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

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



Selection of different codecs!

Expert Opinion



+

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

-

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

TECHNIC

DATA

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

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

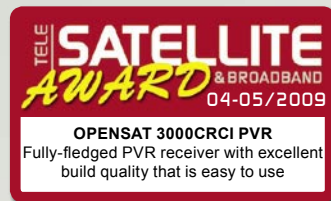
This proved once more that HDTV solutions for PCs require an enormous amount of processing power as well

as an equally capable graphics board.

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

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USB接口。背面设计得也很不错，既有一进一出的IF接口，也有两组欧插，4个RCA插口可以接驳立体声音频和视频，还可以接驳0/12V切换，一个数码音频输出接口，一个UHF输出接口，一个RS-232接口和一个总电源开关。

用起来很便利，而且标注得也很清晰。即使OPENSAT接收机的屏幕菜单没有过多的解释，厂家提供的用户手册也可以回答可能出现问题。它最大可能地涵盖了接收机的所有功能以及如何在屏幕上进行操作。

日常使用

该接收机没有预装安装向导，这就是说你也不用在屏幕菜单里选择适用的语言。当你看到分类条目时就有下列语言可用：英语、法语、德语、意大利语、土耳其语、波兰语、波斯语、斯洛伐克语、斯洛文尼亚语、捷克语和匈牙利语。

遥控器设计得很好，手感不错，可以说使

该接收机的质量非常好，直到测试结束也没有挑出什么毛病。

主菜单结构非常鲜明，共分



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可以手动选择PAL, PAL-M, PAL-N, SECAM 和NTSC等彩色图像制式, 或者让接收机来自动调整。

视频信号可以采用RGB 或 CVBS, S端子及 YUV等方式接入。而UHF调谐器的使用也可以通过一个菜单根据实际需要需要从第21 到 69频道之中选取。

和所有DVB接收机一样, OPENSAT 3000CRCI接收机也具有通过卫星同步显示当地时间的功能。如果你要正确设定时间, 必须选择好GMT的时区。其它接收机都要求用户设定GMT +/- 多少小时, 而该机则显示出一系列的都市名称来代表时区, 这样就可以轻易选对时区了, 这样即使你不知道和GMT时间相差几小时也能搞定了。

还有一个夏时制菜单来自动调整时差, 这样你就不用一年里再次调整时间了。而一些附加的设置如OSD或频道切换功能也在这个菜单里。

接下来, 接收机要和天馈系统衔接。它预置了44个欧洲卫星并预存了最新的接收数据用遥控器上的彩色按钮可以轻松地添加新的卫星, 也可以进行编辑、删除过时的数据和无用的数据。

该接收机支持DiSEqC协议的 1.0, 1.1, 1.2 和 1.3 版(USALS), 可以接驳极轴或固定天线。而由于支持DiSEqC 1.1协议, OPENSAT接收机也可接驳具有复合馈源的天线。而用USALS时, 它会天线精确地对准所需的卫星。

它预置了各种LOF频率, 也可以选择接收C或Ku波段信号。对于圆极化的LNBF, 也可以接收和设置。总之, LOF的设置非常周全, 甚至可以手动输入特殊的LOF数值。

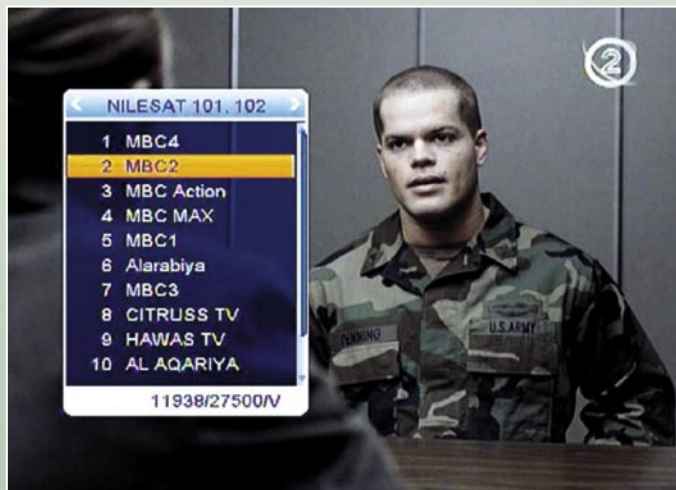
3000CRCI接收机具有存储4000个频道的能力, 它可以让你对一个或数个卫星进行自动的频道搜索, 也可以让你手动搜索某个转发器。对于各种方式, 你都可以选择只要免费频道、电视频道或广播频道,



7° W 的NILESAT 卫星上的转发器目录。 |



EPG |



频道目录 |



OPENSAT



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

HORIZON

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THE HORIZON DIGITAL SATELLITE METER USB & USB PLUS



HDSM USB

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- New nylon F connectors for maximum durability
- Faster processor with recall of last selection used
- New manual carrier configuration mode
- Twice the satellite setting capacity with 64 selections available
- Lock indication within 100ms of acquiring the satellite
- Custom program files available on request (e.g. VSAT)
- L-Band, C-Band, Ku-Band and Ka-Band capability
- Quality indicator (Pre BER) displayed alongside RF Level (dBuV)
- Pre and Post BER can be displayed with their actual values (setup option)
- Toggle to display Post BER and Carrier to Noise (dB)

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

HDSM USB PLUS (additional features)

- Easy to use Spectrum Display Mode
- QPSK Constellation Diagram (with zoom function)
- Histogram display with up to 9 simultaneous carrier measurements for single cable installations (SCR)
- Data Logging (upload installation measurement data to your PC)

HORIZON DIGITAL TERRESTRIAL METER (HDTM)



- Displays Signal Strength (RF level) with DVB-T indicator.
- Fast and accurate Pre BER readings in real time for easier antenna pointing using the built in CODFM indicator for quality of service.
- Can store up to 32 transmitter selections (via our web site downloads) a default of UHF 21 – 69 step through is preloaded.
- Built in intelligent universal mains charger 100 – 240V AC (CE approved) with V delta detection for fast and then trickle charging.
- Minimum run time of 5 hours with a full charge on the 2400 mAh NiMH battery.
- Computer interface: Serial Port (Com 1-4) for upgradeable software on transmitters.

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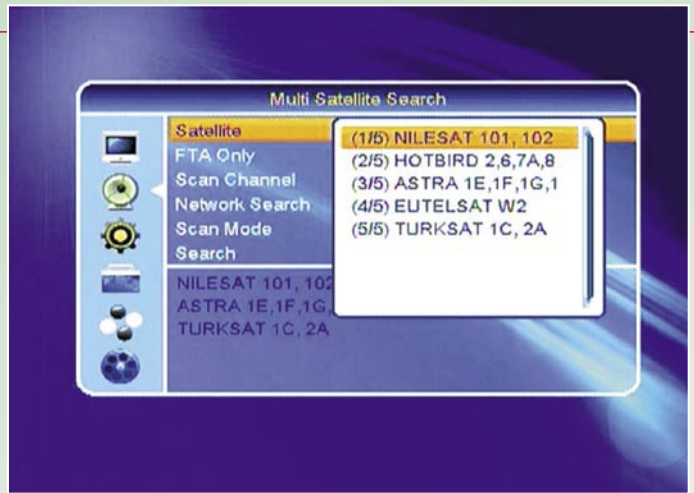
or visit our website

www.horizonhge.com

email: sales@horizonhge.com



主菜单—安装 |



频道目录编辑 |



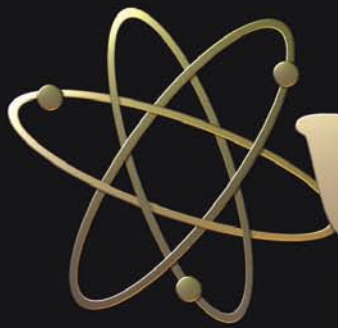
多卫星搜索 |



信息条 |



OPENSAT 



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Anti Rust Material

Galvalume[®]

by BlueScope Steel



SS **PT. Subur Semesta**
AN ELECTRONIC COMPANY

Jl: Kamal Raya No.8A RT.14/09
Tegal Alur, Jakarta Barat 11820
Tel: (62-21)-5559733 Fax:(62-21)-5559805
email: subursmt@gmail.com
<http://subursmt.com>
INDONESIA



就可以操作, 这里有全部的菜单操作功能。当然, 不仅有电视频道目录, 同样也有广播频道目录。

令爱好者们高兴的是: 你可以用一个按钮删除频道目录上的全部内容, 而无需重新设置接收机的其它事项。当你进入编辑模式里, 目录里不仅有全部频道, 而且根据需要, 还可以按照不同卫星来分开显示。

还有, 遥控器上的彩色按钮还可以用来向喜爱节目目录里来增添频道(它可以单独命名), 也可以删除, 可以用PIN锁住来防止未成年的家庭成员看到屏幕上不适当的节目。

目录上的频道可以标记成越过, 这样可以在跳过广告时越过去。当你编辑频道时, 当

9个频道的画面浏览 |

或者只要广播和电视频道, 也可以执行网络搜索。

而完善的盲扫功能更是不错, 可以发现并搜索到那些还没有预置的转发器。

我们用这款OPENSAT接收机试验接收过13° E 的HOTBIRD卫星, 它用了3 分20秒搜索到1235 个电视频道和456个广

播频道。而对同一颗卫星采用盲扫方式则用了不到5分钟就找到了1132 个电视频道和431个广播频道。两个结果都十分令人满意, 要知道我们用的是自动方式啊。

只用一个按钮就可以以手动方式对个别转发器可以进行选择、编辑、存储、增添和删除。也就是说, 遥控器上的

彩色按钮可以让小孩也能轻松操作。令我们遗憾的是没有看到它有PID密码输入, 看来它不支持。

我们知道它存储频道的数量限制是4000个, 所以就要按照个人需要调整频道目录, 而最重要的是要认真考虑好要删除那些你从不去看的频道。这在第一个菜单里



前的频道会在屏幕右侧的角落里正常播放。

遥控器上的红色按钮可以打开一个搜索窗口,此时,你可以直接输入想要看的频道名称就行,而屏幕左侧就会有一个相应的软键盘显示。

这项功能对于用户来说,是OPENSAT接收机独家奉献的,是非常迎合他们需要的。

对于这款接收机完美的总体印象,最后是以其变焦功能、图文电视功能和9画面浏览功能而综合形成的。

OPENSAT使用一款门限极低,可以接收到7° W的NILESAT和28° E的ASTRA2D卫星上非常微弱信号的高频头。

接收SCPC信号的测试也非

常成功,在接收TURKSAT卫星上SR只有2400KS/s的信号时,3000CRCI表现得很出色。

内建的CI接口在我们的测试过程中用各种模块也都很顺畅,而机内自带的Conax读卡解码功能更是用我们的测试卡工作良好。

而RS-232接口可以用来更新操作软件或直接增加频道目录。OPENSAT公司还提供专门的编辑软件,用来使PC兼容SatcoDX,从个人可以使接收机获得实时的频道转发器数据。

录像

令你感到惊奇的是,OPENSAT 3000CRCI PVR这款具有录像功能的接收机是这样定义的:通过前面板上的

USB 2.0接口,这款OPENSAT接收机就成为了真正意义上的录像接收机。

任何移动硬盘、存储卡或者U盘,都可以接驳这个接口,片刻之后接收机就会识别并接收其为存储介质。于是,录像功能立刻启动,诸如录制当前播放节目、重放已有录像便可以实施了。

而当你正在观看黄金时段的电影时,突然有电话打进来,你也可以按下暂停键拿起电话接听。当你放下听筒时,又会从刚才暂停那一刻继续观看。

当然,我们测试录像功能的过程中也都很顺利。有8个定时功能用来预定每天甚至每周的节目而从不混淆。

除了具有录像和重放电视

及广播节目功能之外,它还可以播放MP3和浏览照片,这样下次你还可以用它在电视屏幕上欣赏你的假日照片。你也可以用接收机在聚会上进行娱乐。

软件的更新可以通过USB接口进行。你可以从厂家的网站上下载文件,把它拷贝到U盘上,再装入接收机。事实上,OPENSAT 3000CRCI PVR接收机的缺点是存储介质只能在前面板上接入。这就意味着其漂亮的仓盖就得一直开着,并露出全部按钮和插口。

我们所钟爱的是,它还能将录像节目在PC上进行编辑或刻录成DVD光盘。由于有了移动硬盘,所有这一切都轻而易举,而无需担心在电脑和接收机之间传输容量巨大的数据了。



OPENSAT

专家的意见



Thomas Haring
TELE-satellite
Test Center
Austria

+

OPENSAT 3000CRCI PVR接收机是一款完美的录像接收机,它适合于任何家庭的客厅环境,也因为使用简单适于任何家庭成员。操作系统的设计方便于用户,在我们的测试过程中工作顺畅。OPENSAT硬件也都满足需要。由于可以录像、播放MP3和浏览照片,这款3000CRCI接收机称得上是很超值的接收机,由于体积较小,看起来很精致

-

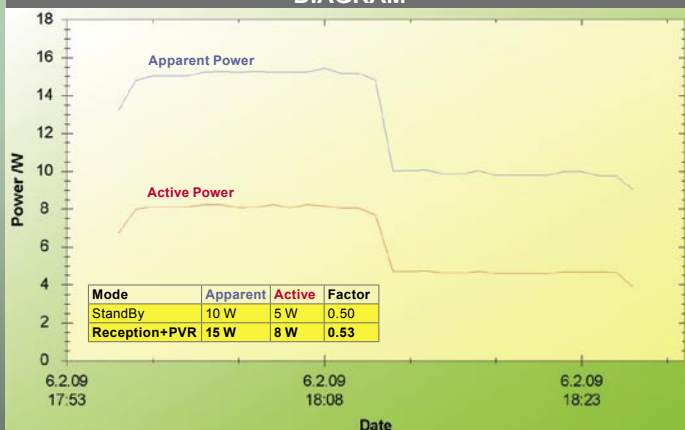
USB接口设在前面似乎有些不便。如果移到后面也许会更好些-或者在后面再增加一个USB接口也不错。

TECHNIC

DATA

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

ENERGY DIAGRAM



前15分钟:接收节目并切换到录像状态。后15分钟:待机。



主菜单—PVR |



PVR管理器 |



MP3 Jukebox |



42° E的TURKSAT 卫星上的SCPC信号接收



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VIA analogue



DTT

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DTTV

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- Fast and accurate dish installation
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- Customizable through software and USB port

AWARD WINNING

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21ST CENTURY**





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

TELE SATELLITE AWARD & BROADBAND
02-03/2009

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

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TOPFIELD



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

TELE SATELLITE AWARD & BROADBAND
02-03/2009

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

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

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DIZIPIA



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



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



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



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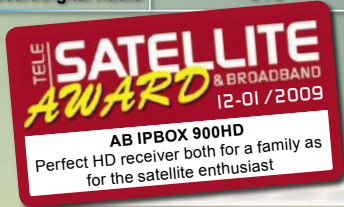
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Greek	Ελληνικά	www.TELE-satellite.com/TELE-satellite-0901/hel/opensat.pdf
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Italian	Italiano	www.TELE-satellite.com/TELE-satellite-0901/ita/opensat.pdf
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Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0901/sve/opensat.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0901/tur/opensat.pdf





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



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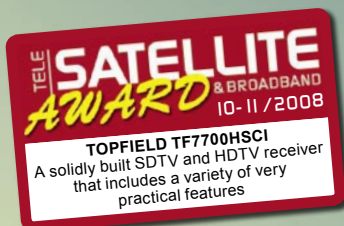
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Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0901/sve/abcom.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0901/tur/abcom.pdf



AB-COM



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



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Read Indepth Review of This Product Directly on the Internet:

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



TOPFIELD



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



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Portuguese	Português	www.TELE-satellite.com/TELE-satellite-0811/por/sonicview.pdf
Romanian	Românesc	www.TELE-satellite.com/TELE-satellite-0811/rom/sonicview.pdf
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0811/tur/sonicview.pdf



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



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





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

TELE SATELLITE AWARD & BROADBAND
08-09/2008

ABCOM IPBOX 9000 HD PLUS
A huge range of connection options make this box a true all-rounder – yet it remains easy to use as a family receiver.

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English	English	www.TELE-satellite.com/TELE-satellite-0809/eng/abcom.pdf
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Farsi	فارسی	www.TELE-satellite.com/TELE-satellite-0809/far/abcom.pdf
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Dutch	Nederlands	www.TELE-satellite.com/TELE-satellite-0809/ned/abcom.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-0809/pol/abcom.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-0809/por/abcom.pdf
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0809/tur/abcom.pdf



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

TELE SATELLITE AWARD & BROADBAND
06-07/2008

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

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





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

TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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



NANOXX



Manufacturer	ABC Biznis
Website	www.opensat.info
Function	DVB-S/S2 MPEG2/4 HD Receiver with Single Tuner
DVB-S2/LAN	• / —
Channel Memory	4000
DiSEqC	1.0 / 1.2
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

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04-05/2008

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

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



OPENSAT



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

TELE SATELLITE AWARD & BROADBAND
02-03/2008

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

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



TOPFIELD



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

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02-03/2008

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

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Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-0803/bid/abcom.pdf
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AB-COM



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

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



ARION

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

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



INFOSAT

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

Main Menu
 >>Channel Search
Digital Video Broadcasting

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

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



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JIUZHOU

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



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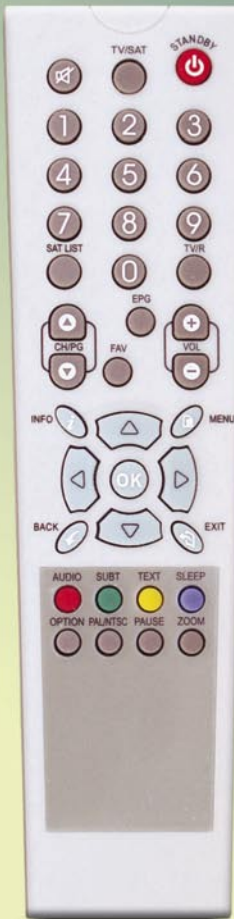
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JIUZHOU



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

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OPENSAT



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

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■ 斯洛伐克AB-COM公司的正面。可以看到门前正停放着一辆送货车。

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严格来讲，今年是AB-COM公司的20周岁，但实际上公司在过去的历程里经历了巨大的变化，而直到1992年才真正开始从事卫星接收机业务。

那时公司是由两个合伙人合开的一家计算机经销商。1992年，Juraj Masaryk加入进来。他成为卫星器材的销售经理，此前他是一个完全按照自己意愿做事的人。

Juraj Masaryk从最初的原始股东那里得到了AB-COM公司25%的股份，并将卫星接收机业务纳入公司，从而开始了他将公司不断拓展的职业生涯。当时公司从事地面电视的



■ 身为总经理掌管AB-COM公司的Juraj Masaryk也是一名称职的质量工程师。他总是自谦为销售经理，正是他不断地寻找出公司发展的正确方向。照片中他正在介绍AB-COM公司29名员工的分工。有一些人身兼数职，从图中也可以看出他们肩负多项任务。Juraj解释说，每周所有人的工作报告都要总结一次。这个高效的组织，确保了AB-COM公司取得更大的发展。





■ AB-COM店面一瞥。零售用户可以在这里直接购买AB-COM的产品。销售经理Peter Hrnko是5名门市销售人员之一，在这里还可以看见陈列出的AB-COM接收机。营业额的70%是生产接收机，此外，AB-COM公司还向斯洛伐克和捷克共和国的3000个代理商供应卫星元件。

MMDS业务，今天这块业务依然存在，但是对于整体业务来讲已经不是很主要的了。

今天，Juraj Masaryk拥有了AB-COM公司两名原始股东60%的股份，而这两名股东也放手将业务全盘交给了Juraj。“AB-COM公司现在只专做卫星接收机业务，”Juraj Masaryk告诉我们，由此可以看出公司未来的走向还将延续他的想法。

开始的时候，AB-COM公司从不同的厂商那里进口接收机，“但是性能达不到我们的标准，”Juraj Masaryk回忆说，“我要让自己的梦想变成现实”。

不过，这只是成为接收机制造厂家的原因之一。“我坚信Linux终究会成为



■ 即使进行最严格的检验，也不能完全避免维修服务。René Hubinský是4名软件支持工程师之一。

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接收机的标准配置，”Juraj Masaryk说道，而他也积极地将其关于Linux的想法付诸实施。主要内容之一就是接收机的软件系统，这是AB-COM公司的软件工程师们自行开发的。标清接收机的软件早已经开发完毕，而高清接收机的软件则正在调试。不久，AB-COM公司高清接收机都将装载AB版本的具有神奇功能的高清版软件系统。

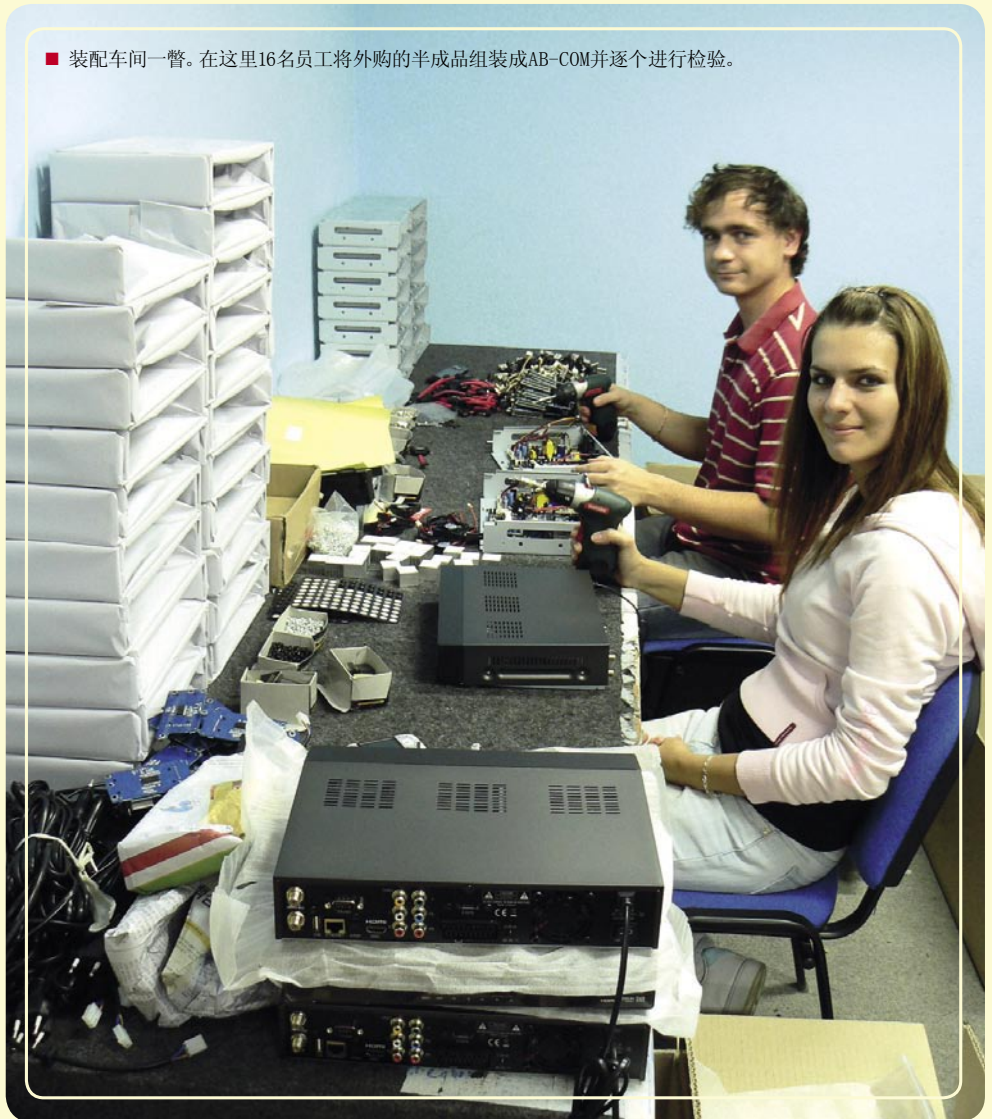
还有，也是最后一点，具有决定性的理由是AB-COM接收机那个著名的“Q”字（英文质量的首写字母）。“质量是我们关注的焦点，”Juraj阐述说，而如何保持质量的稳定呢？当然，Juraj有自己的解决办法。由一家韩国厂家提供SKD方式的半成品，再由AB-COM公司进行组装和测试检验。

Juraj给我们看了AB-COM接收机的背面，“在这里你可以看到标着：经欧洲测试合格，”这就是AB-COM公司使每件产品都符合其严格标准的方法。

了解完生产的情况之后，我们想知道AB-COM接收机销往哪里呢？Tom Kopeck是欧洲销售业务经理，他向我们介绍说：“我们在欧洲的每个国家都有代理商，”看着世界地图，Tom自豪地补充说：“我们甚至在北美也有代理。”

当然，地图上还有很多空白处，例如法国、葡萄牙、土耳其、英国和北非。“我们正在这些市场寻求代理，”Tom又用流利的英语说，“我和这些国家的一些经销商一直保持着联系。”Juraj解释说：“当然我们要使自己的接收机符合这些市场的要求。现在我们就正在搞乌克兰市场的项目。”

“现在30%是标清产品，而70%将主要是高清电视产品。”指着AB-COM 200S型接收机，Tom解释说，从严格的经济效益角度来说这是我们最好的产品。它质高价宜，Juraj赞许道“这是非常对路的，因而



■ 装配车间一瞥。在这里16名员工将外购的半成品组装成AB-COM并逐个进行检验。



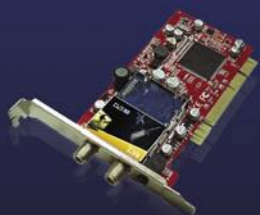
■ 库房经理Michal Valent正忙于往仓库存放刚刚组装完毕的AB-COM接收机，并准备将其按照订单发运。



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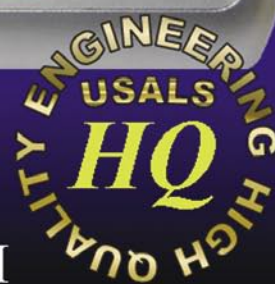
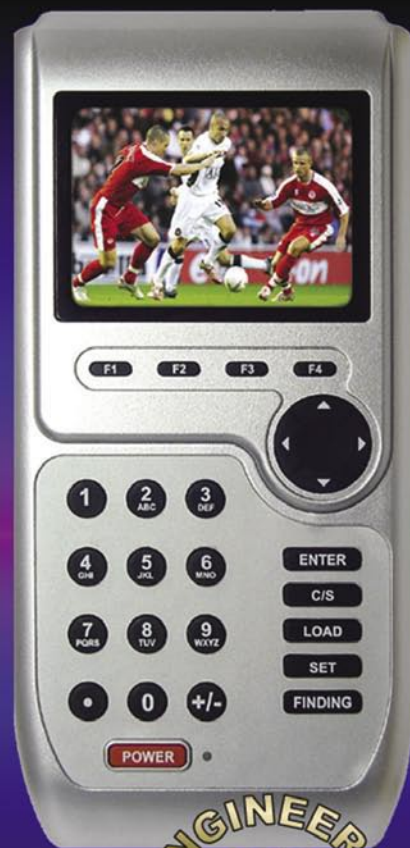
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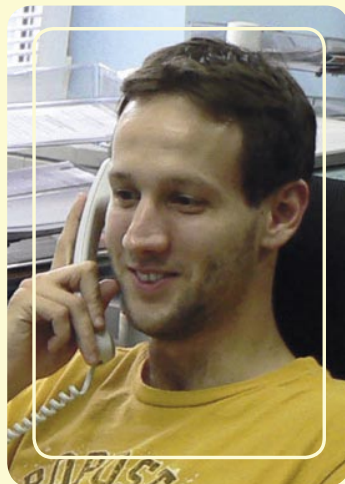
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■ 销售经理Radovan Cifra负责斯洛伐克的代理商客户。



■ Halo Juraj 是捷克的代理商客户经理。



■ 欧洲销售业务经理Tomáš Kopecký是公司在斯洛伐克和捷克以外业务的核心。“我们非常欢迎有新的国家的客户加入到我们的销售网”



■ Juraj Bobula也负责斯洛伐克的代理商客户。

我们也按照同样的思路准备推出“高清型号。”

当你们读到本期杂志的时候，其产品推向市场的时间就快临近了。预计这款产品体积较小，内置读卡器，并且装载具有AB公司自己特点的高清版操作系统。

“预计2009会计年度我们高清接收机的销售份额将占到80%，而2010年将达到90%。” Tom介绍了销售计划。“带有可切换高频头的AB-COM 350 Prime接收机很受有线电视业者的欢迎，” Juraj又着重介绍了另一款产品的开发。

“而DVB-C 业务也是AB-COM关注的重点之一，” Juraj对未来做了展望，他还透露说：“待高清产品完成后，下一个开发目标就是IPTV AB接收机”

Juraj Masaryk对于取得的成就很高兴：“从2007年到 2008年，我们的营业额增长了30%，预计2009年将增长20%，” Juraj对于公司软件在将来的应用也充满自信。

“2008年营业额将达到1000万欧元，而2009年将超越这个水平，” Juraj满怀乐观，谈话中还告诉我们将易地扩建。“这



■ Juraj Masaryk业余时间是一个真正的卫视爱好者。在这里可以看到他站在他那装有复合LNB天线的阳台。

样才能满足业务不断扩展的需要。”

可以肯定：AB-COM公司正在谋划未来，这也就意味着将来会有更大的发

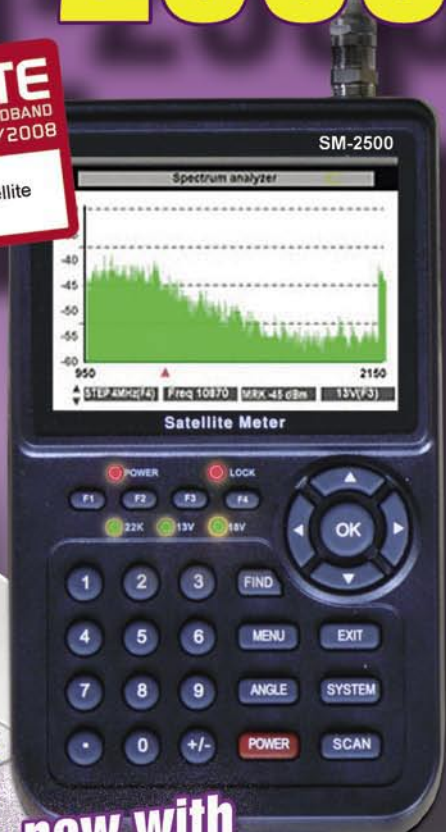
展。将以创新来赢得优质，两者是统一的。

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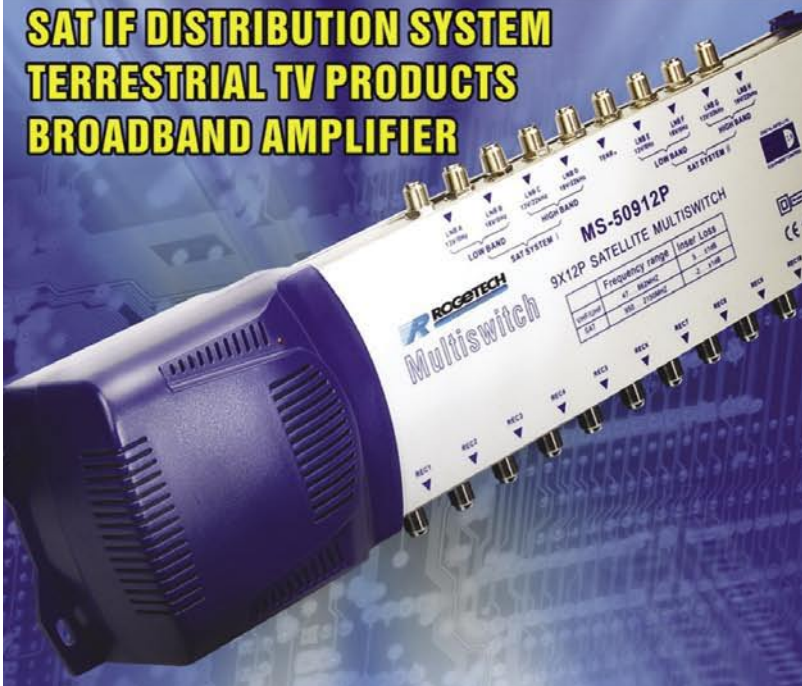
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■ AB-COM公司非常重视培训工作。每年经销商都要进行短训，介绍最新出产的产品。这一天的活动由AB-COM公司主办，受到经销商们的欢迎，而AB-COM公司也和他们增进了了解

技术服务工程师Martin Durinský通过讲座介绍AB-COM接收机的性能。 ■



2009年10月，AB-COM公司将要迁入新楼，图片显示的是建筑图。“我们将离开现在的楼房，”Juraj解释说：“人员都将集中在一起，生产车间足有6米高，而办公区会很快建成。” ■



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亚历山大·维思

Topfield公司已经在高端卫星接收机市场立足多年了。新型TMS接收机的问世则会使Topfield公司的这一地位更加稳固。《国际卫星电视》将介绍该公司未来的发展战略和Topfield公司销售团队里董洪石先生的想法。

总之，Topfield为各种细分市场量身定做了超过200种不同的接收机。当然，公司的高管们知道，销量并不代表成功。“我们必须证明我们能够达到最

Marketing manager Dong Hoon Suk ■
standing in front of a show wall
featuring Topfield receivers.

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170 members of staff are employed by Topfield in this seven-storey office building in southern Seoul. 100 employees work in the software and hardware department, while 70 people take care of administration, sales and marketing. The actual production facilities are based outside Seoul. Many satellite antennas are installed on the roof of the building, which is owned by Topfield. ■



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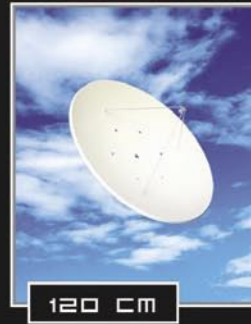
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优。”董洪石诠释了Topfield公司的战略，“借助新型的TMS，我们不仅要展示我们能够达到的技术水平，而且还要在实用性上达到新的高度。”这将代表我们想象力的最高水平。“TMS可以应用于商业服务，”董洪石强调说，“在接入互联网之后，它还会以崭新的面貌拓宽应用领域。”由于TMS是做为Topfield公司的



■ TMS的项目经理吉米·李用图示来说明其创新式的TMS连接方式。



■ 马特·钱不仅是TMS的策划，而且也是8人软件开发组的负责人，他们在不断改进TMS软件。

尖端产品，因此会选择合适的市场进行首发。“德国、荷兰、比利时还有瑞士是首选，”董洪石接着说，“这些地区市场的用户很苛刻，”让我们感到惊奇的是Topfield公司也接到了俄国的TMS订货：“我们相信那里的需求也会很强劲，”董洪石证明说。

吉米·李是TMS的项目经理。他的工作就是协调软件、硬件和产品工程师，一起研究市场部对于这款产品所需性能提出的要求。他透露出一些产品的细节：“我们先期向市场投放3000台TMS接收机，”吉米·李解释道，“这样便于我们对市场进行评估。”

不同市场上的TMS会有所不同。“比如说，预装的软件会有所不同，”吉米·李接



■ Topfield 公司希望《国际卫星电视及宽带》的总编亚历山大·维思先生对其TMS加以介绍。

着说，“到2009年2季度，TMS预装的浏览界面会成为具有接入某些功能的成熟浏览界面，”吉米·李还透露了下一步TMS软件开发的一些细节。

我们对TMS究竟能够给我们带来什么充满了期待。根据软件工程师马特·钱的介绍，他在2008年2月引入了多种使用方式的新概念。他率领一个有8名软件工程师的团队在2008年8月推出了原型机。这个TMS小组被与公司其他业务完全隔离，并做为公司的最高机密。当首款原型

机推出时，他们才被介绍给公司内部人和一些大的批发商。普通公众用户将在今年的ANGA展览会上领略TMS的芳容。

TMS将在韩国生产，并且在Topfield公司的展示窗里展出，做为卫星接收机技术发展水平的实证。此外，Topfield 公司还会提出他们将努力赢得‘多媒体家庭领袖’的口号，也将展示Topfield对于完美技术的不懈追求。



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Worldwide Satellites in Toronto

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

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

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

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

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



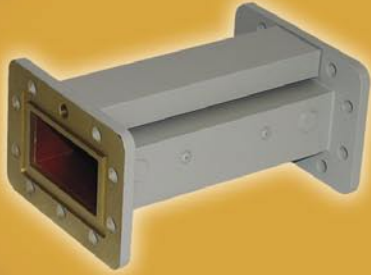
■ GTA Electronics can be found here in this office complex as a satellite dealer for end users and Worldwide Satellites as a satellite wholesaler. Pearson International Airport is located roughly 1 km behind the office.



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

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

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

We also wanted to know more about

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

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

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

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



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尽人皆知的 阿罗卫视

活跃在中国卫视圈的人早早晚晚都会认识罗世刚。这不仅是因为他多年以来就在中国经销《国际卫星电视》杂志，而且是因为他在卫星的其它领域也展露身影。2009年，中国将要进入直播卫星年代，这正是在罗世刚深圳办公室里采访他的好时机。

罗世刚将他的公司命名为阿罗原因很简单：中国南方的广东话里面，常在人名的前面加上一个“阿”字。于是，罗世刚也就成了阿罗。

罗世刚1983年毕业于成都电讯工程学院（电子科技大学）。他毕业后在中国西北的兰州市学习电子工程专业，并在那里一家为军方生产电子产品的企业上班。很特别的是，这家企业也生产卫星设备。

罗世刚真正积累起丰富的卫视经验还要从接收99° E的EKARAN 卫星说起。那

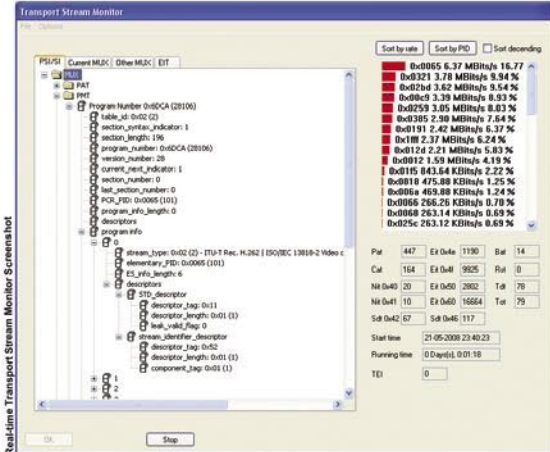
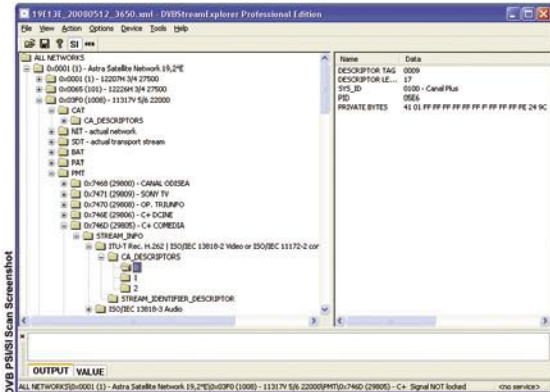
阿罗团队的成员委军（左）和罗世刚（右）站在楼顶。为什么罗世刚把办公室选在楼顶层呢？想必你们也都猜到了：他想要让天馈系统的线缆最短。还有就是周围的护墙。因为私人的卫星接收在中国还未开放，这样旁边楼上就看不到他这里的天线了。从图中可以看出有两面C波段天线，后面是电动极轴的，前面是固定的。

DVBStreamExplorer™

MPEG2/DVB Transport Stream Analyzer

Feature Summary

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



DVB PSI/SI Scanning

- Scanning of PSI/SI information as defined in ISO13818-1 and EN 300 468.
- Parsing of PAT, CAT, BAT, NIT, SDT, EIT, TDT, TOT, RST, AIT (MHP), PMT and INT tables, including most descriptors.
- Display SI information in tree/list view.
- Unattended scanning of multiple MUXes, i.e. multiple transponders on multiple satellites.

DVB Service Viewer

- View DVB service information of collected PSI/SI data.
- Organize service view by satellite position, network ID, provider and alphabetic.
- Apply filter to easily locate services with interesting properties, such as MHP, AC3 and H.264 streams.

ATSC PSI/PSIP Scanning

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

DVB DSMCC scanning

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

DVB MPE scanning

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

Real-time Transport Stream Monitor

- Full parsing of PAT, PMT, CAT, NIT, SDT, BAT, TOT, TDT and EIT PSI/SI tables.
- Summary of services on current MUX including key parameters.
- Summary of services on other MUXes.
- Logging of MPEG2 A/V, H.264 and AC3 elementary stream key parameters.
- List of MUXes from NIT including key parameters.
- Summary of CA (EMM/ECM) information including key parameters.

... and much more! **

* For a list of supported devices please visit our website at www.dvbstreamexplorer.com.
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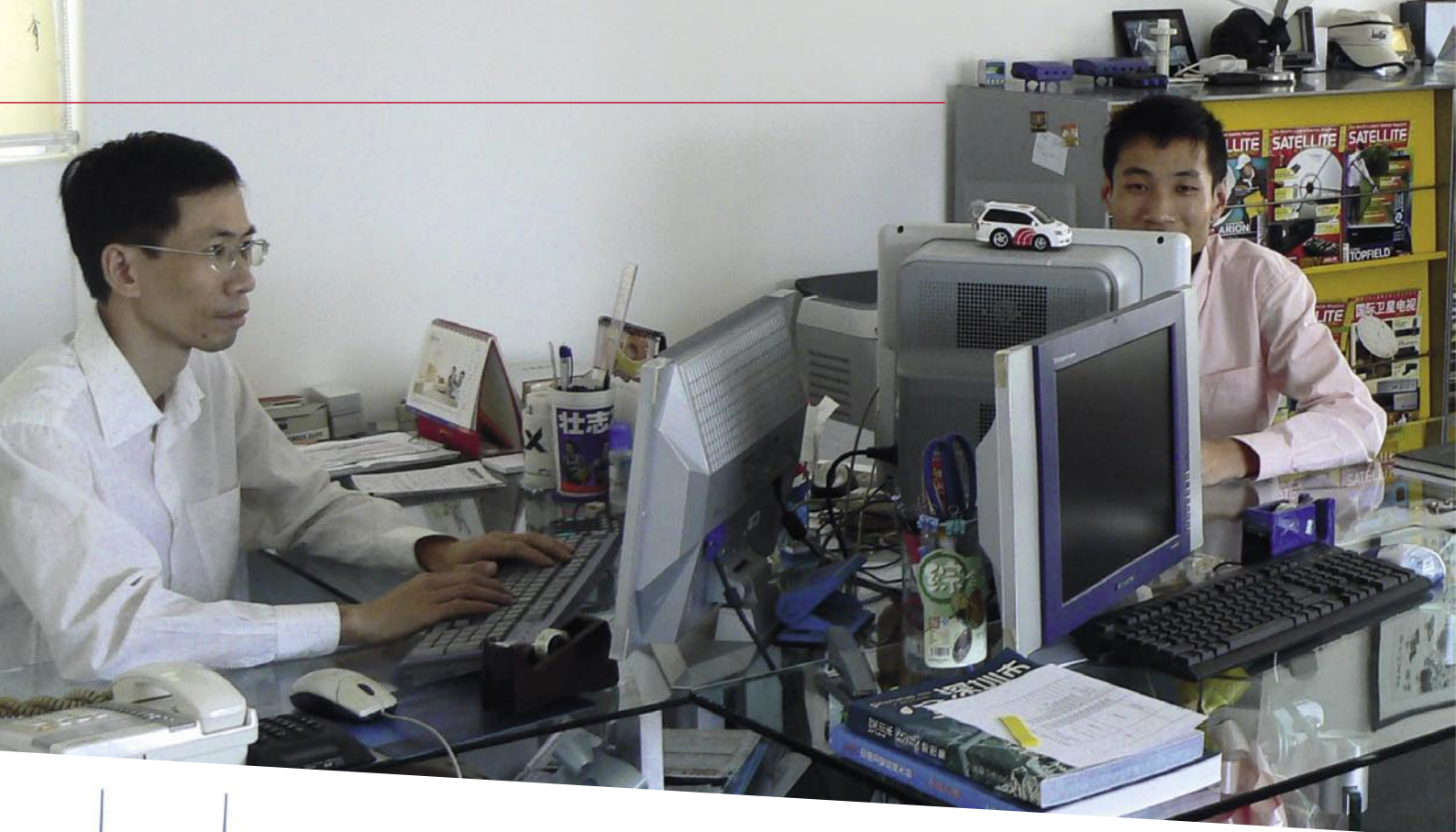


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时俄国在UHF频段上以714 MHz 的频率传输电视信号。从那时起，他就迷上了卫星接收。不久，他就开始为《电子报》撰稿，那也是当时唯一刊登卫星技术专题的出版物。随着时间的推移，

他的贡献也越来越大，而他的工作也让他结识了越来越多的业内人士。后来，他于1995 年在深圳和爱人一道，开始了自己的事业：“我在1995 年创办了阿罗卫视”。除了技术性工作，他还开始做咨询顾问工作。

TELE-satellite World

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Available online starting from 27 March 2009

今天，他的员工队伍已经有7个人了：“我爱人负责财务，有3名工程师负责技术支持，有一个人负责香港的卫星器材商店业务，其他人负责销售和渠道。”

阿罗卫视还有选择地开始经销诸如长虹等品质优秀的制造厂商的产品，长虹也生产地面数字电视(DMB-TH)设备，这些在香港播放的频道，在深圳也可以接收得到。

“我们的服务既面向终端客户，也面向

罗世刚在位于深圳市中心一套单元房间的办公室里。毫无疑问，他就是这个地区《国际卫星电视》的正式发行人。■



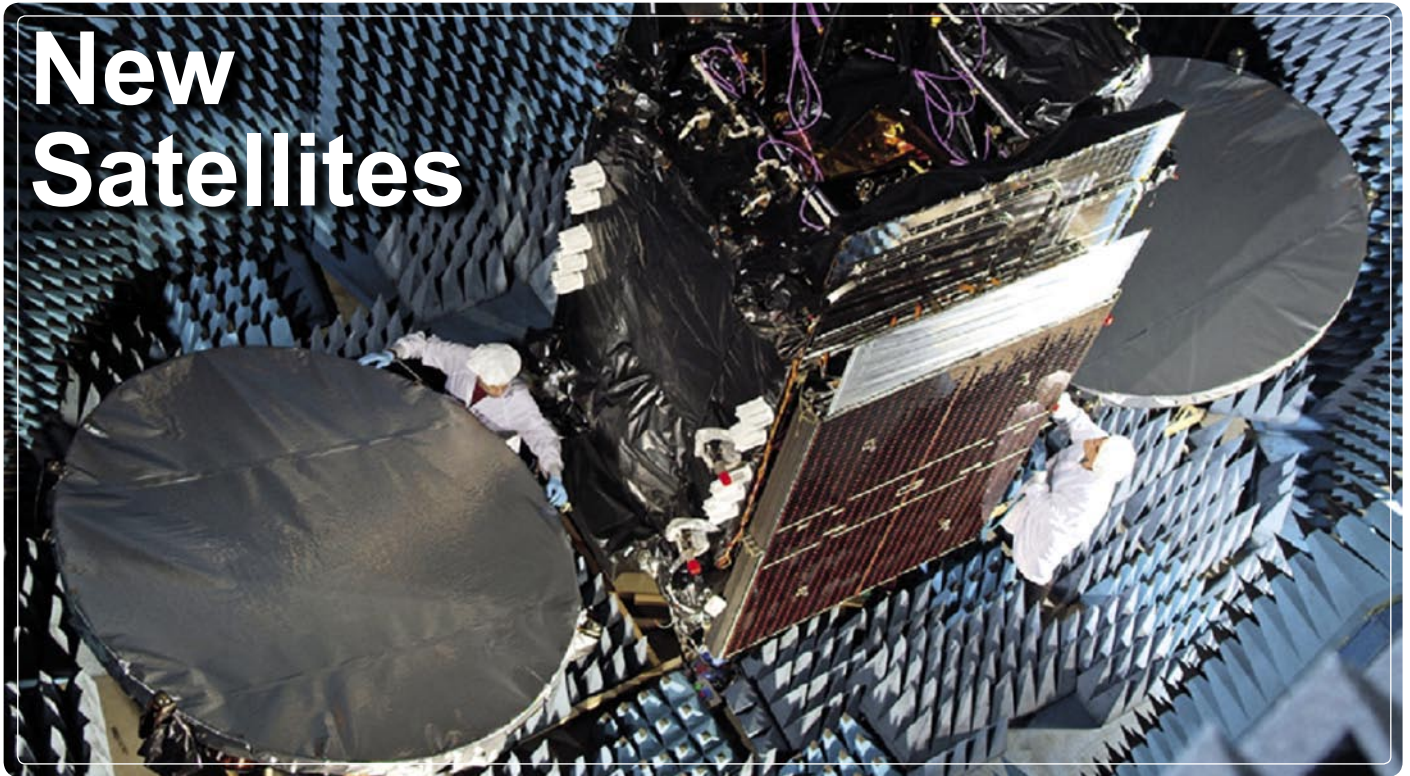
批发商。”对于事业上的想法，罗世刚这样说：“我最喜欢的工作还是做一名咨询顾问。”罗世刚走过很多的地方，也参观了很多与卫星有关的市场和展览会。“这样，我就结交了很多重要人物，也增添了我的人脉资源。”他解释说。

罗世刚在很多方面称得上是一个杰出的人物。“我只是喜欢为那些想要在中国从事卫视事业的人们提供一些帮助”。

护墙挡住了天线。背景画面里可以看见深圳的城际轮廓。■



New Satellites



Edited by
Sylvain Oscul

EUTELSAT W2A

April-May 2009

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

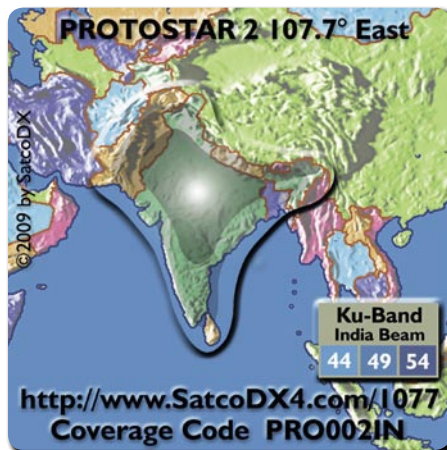
This satellite is also a special joint venture with ASTRA, The S-band (2.0 and 2.2 GHz), which represents a new frequency band for both SES and Eutelsat, provides a set of frequencies optimized for supporting a wireless distribution network for delivering video and other services to mobile devices, including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



PROTOSTAR 2

May 2009

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

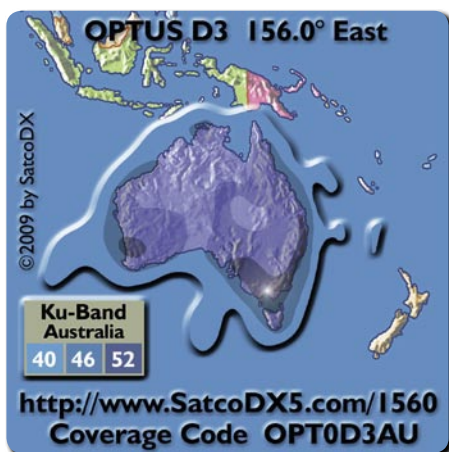




OPTUS D3

May-June 2009

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



INTELSAT 15

June 2009

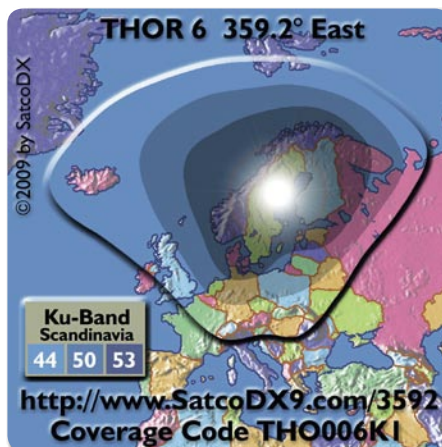
This satellite will replace INTELSAT 709 at 85.2 EAST; launched by a Zenith 3 vehicle, this satellite will embed 22 Ku-BAND Transponders (and 8 for backup). The INTELSAT 15 high power Ku-band payload will provide video and data services for the Middle East, Indian Ocean Regions and Russia. INTELSAT 15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



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

THOR 6

June 2009



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

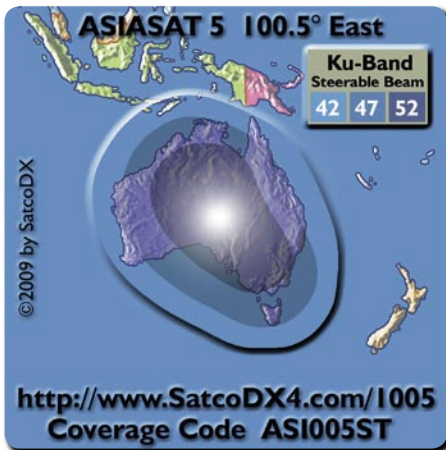
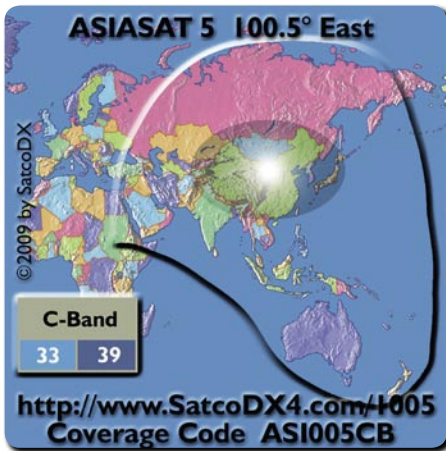


ASIASAT 5

June 2009

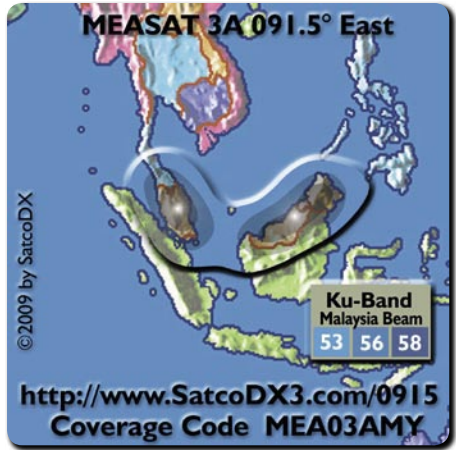
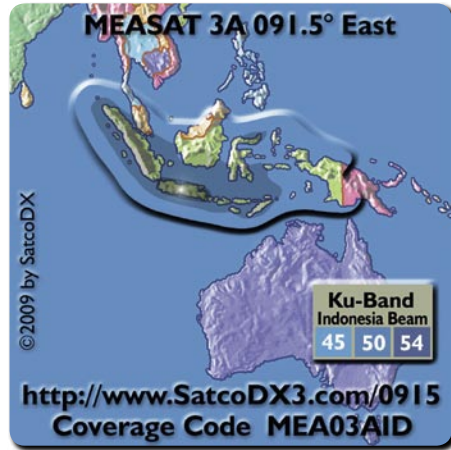
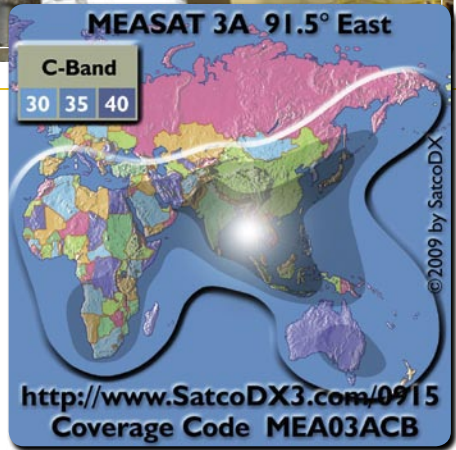
ASIASAT 5 C-band footprint will offer an extensive pan-Asian coverage and its high power Ku-band beams will focus on both East and South Asia, with a steerable beam that will cover anywhere within ASIASAT 5 geographic coverage. ASIASAT 5 has a sophisticated Ku-band inter-beam switching which provides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

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



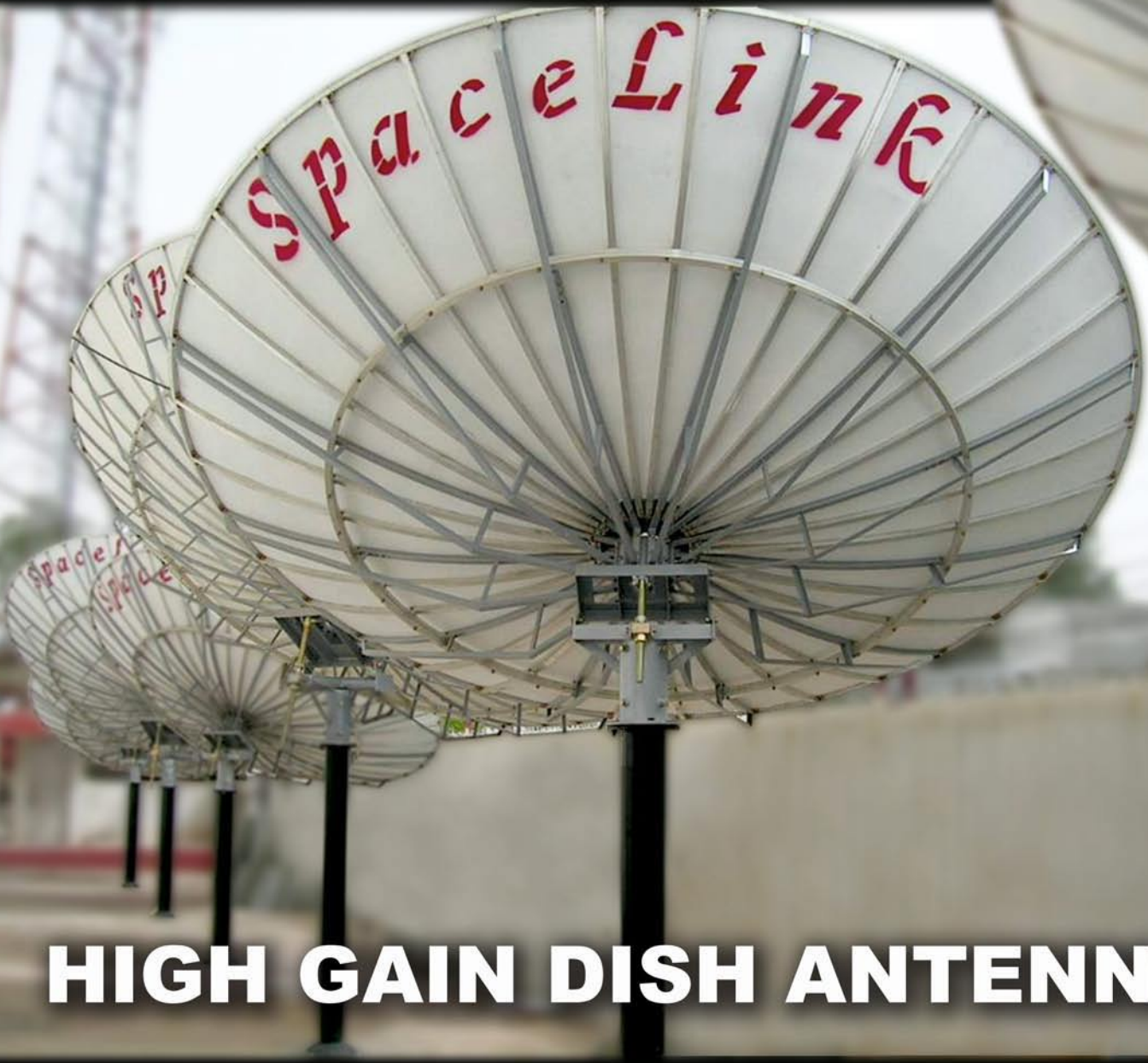
MEASAT 3A
June 2009

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





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Edited by
Branislav Pekic

EUROPE

EUROPE

NSS-9 SATELLITE SUCCESSFULLY LAUNCHED

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

ASTRA 1M READY FOR OPERATION

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

170 MILLION HDTV EUROPEAN HOUSEHOLDS BY 2013

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

AUSTRIA

TELEKOM AUSTRIA TOPS 63.800 IPTV SUBSCRIBERS

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

BOSNIA-HERZEGOVINA

BH TELECOM SIGNS IPTV/VOIP DEAL

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

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

FRANCE

SES ASTRA AND GLOBECAST DISTRIBUTE ORANGE TV

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

FRENCH IPTV HOUSEHOLDS TOP 5.64 MILLION

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

GERMANY

GERMANY CLOSES 2008 WITH 536.000 IPTV SUBSCRIBERS

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

ITALY

TISCALI CANCELS IPTV SERVICE

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

RUSSIA

PLATFORMAHD BOOSTS CAPACITY ON EUROBIIRD 9

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

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

ARIANE TO LAUNCH YAMAL SATELLITES

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

EXPRESS SATELLITES SUCCESSFULLY LAUNCHED

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

SPAIN

TV3 and IB3 STUDY JOINT IPTV CHANNEL

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

TURKEY

MEDIA REGULATOR PREPARES GROUND FOR IPTV

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

UNITED KINGDOM

BBC, ITV AND BT TO DEVELOP IPTV STANDARD

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

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

VIRGIN MEDIA TO LAUNCH FOUR HDTV CHANNELS

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

AVANTI TO LAUNCH SATELLITE

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

UK LEADS HDTV TAKE-UP

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

HD TERRESTRIAL TESTS LAUNCH IN LONDON

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

NORTH AMERICA

CANADA

SASKTEL TO DEPLOY MARINER'S IPTV PLATFORM

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

BELL TV OFFERS NEW BOXES FOR HD SUBSCRIBERS

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

UNITED STATES

RAINBOW DROPS VOOM HD SERVICE

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

ZCOM NETWORKS TO INTEGRATE IPTV WITH SATELLITE

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

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DISH NETWORK INTRODUCES SLINGBOX TECHNOLOGY

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

NEULION LAUNCHES NEW IPTV HD BOX

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

VERIZON FIOS WITH 1.9 MILLION IPTV SUBSCRIBERS

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

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

TIME WARNER WITH 100 HD CHANNEL IN NY

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

17 MILLION HDTV HOUSEHOLDS DO NOT WATCH HD

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

SPACE SYSTEMS/LORAL TO BUILD INTELSAT 17 SATELLITE

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

LATIN AMERICA

ARGENTINA

TELEFONICA LAUNCHES VOD TESTS

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

TELPIN LAUNCHES IPTV SERVICE

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

COLOMBIA

UNE ENDS 2008 WITH 30.000 IPTV SUBSCRIBERS

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



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Galaxy 19 Ku-Band (formerly Galaxy 25, Telstar 5 and IA 5)
Transponder: 23
Polarity: Vertical (V)
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Colombia, including Bucaramanga and Cartagena, as well as focusing on the capital of Bogota.

NETHERLAND ANTILLES

UTS CURACAO DELIVERS MORE HD WITH RGB NETWORKS

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

URUGUAY

ANTEL TO LAUNCH IPTV

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

ASIA

MIDDLE EAST SATELLITE REVENUES TOP US\$ 752 MILLION

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

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

JAPAN HDTV LEADER IN ASIA

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

SMARTSAT FIRST PRIVATE SATELLITE COMPANY

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

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

ASTRIUM AND THALES TO DELIVER NEW ARABSAT SATELLITES

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

CHINA

ZHUJIANG DIGITAL OPTS FOR MICROSOFT MEDIAROOM

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

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

IPTV SUBSCRIBERS UP 100 PERCENT IN 2008

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

INDIA

BHARTI AIRTEL LAUNCHES IPTV SERVICES

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

BSNL ANNOUNCES INTERACTIVE TV ON IPTV

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

INDONESIA

RUSSIAN COMPANY TO BUILD TELKOM 3 SATELLITE

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

MOROCCO

MAROC TELECOM WITH 10,000 IPTV SUBSCRIBERS

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

THE PHILIPPINES

PLDT TO LAUNCH DTH SERVICE

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

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

SOUTH KOREA

LG DACOM LAUNCHES IPTV SERVICE

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

SK BROADBAND SEEKS IPTV LEADERSHIP SPOT

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

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CHINA MARKET IS OPENING!

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

TAIWAN

CHT MOD ENDS 2008 WITH 600.000 IPTV SUBSCRIBERS

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

VIETNAM

VTC LAUNCHES HDTV CHANNELS VIA SATELLITE

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

AUSTRALIA & PACIFIC

AUSTRALIA

MYKP TO TRIAL IPTV SERVICES

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

NEW ZEALAND

SKY SELLS 54.000 HD BOXES IN 2008

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

AFRICA

INTELSAT TO LAUNCH NEW DAWN IN 2010

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

WORLD

HDTV INTEROPERABILITY TESTS TO START IN JUNE

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



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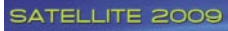
- **21 - 23 March: CCBN 2009**

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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**

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

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www.angacable.com



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

SatcoDX - Global Satellite Chart

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

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

Table listing satellite channels for EUBOIRD 4, EUBOIRD 4.0.8 East, EUBOIRD 4 004.0° East, SIRIUS 4, SIRIUS 4 005.0° East, and SIRIUS 4 000S. Includes channel names, IDs, and website links.

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THE INSIDE EDGE

SatCoDX Global Satellite Chart 04/2009

Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz
12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad

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● 11.449 H SuperSport 1 27500	11.596 H EuroSport 2 30000	11.534 H TMC 27500	11.797 H PREMIERE 4 27500	12.012 V A LA CARTE 10 27500	12.574 H NL-Radio 6 22000	12.110 H MDR S-Anhalt 27500
● 11.449 H SuperSport 2 27500	● 11.596 H EVENTS 30000	11.534 H TRACE 30000	11.797 H PREMIERE KRIMI 27500	12.012 V A LA CARTE 11 27500	12.574 H Radio Veronica 22000	12.110 H MDR Sachsen 27500
● 11.449 H SuperSport 3 27500	11.596 H EXTREME SPORTS 30000	11.534 H TV 5 30000	11.817 V C CINEMA EMOTION 27500	12.012 V CINE+ 27500	12.574 H RadioGold 22000	12.110 H MDR Thüringen 27500
● 11.449 H SuperSport 4 27500	11.596 H Hokirow 30000	11.534 H VOYAGE 30000	11.817 V C CINEMA FRONTS 27500	12.012 V A LA CARTE 12 27500	12.574 H Radio538 22000	12.110 H MDR'S HH 27500
● 11.449 H SuperSport 5 27500	11.596 H Infosport 30000	11.575 H ANTEENNE REUNION 30000	11.817 V HISTOIRE 27500	12.031 H 13 TH STREET 27500	12.574 H RNW1 22000	12.110 H NDR FS MV 27500
● 11.449 H TVSH 27500	11.596 H KANAL AUSTRAL 30000	11.575 H BBC WORLD 30000	11.817 V I TELE 27500	● 12.031 H BIG BROTHER 27500	12.574 H RNW2 22000	12.110 H NDR FS NDS 27500
East Africa	11.596 H LCI 30000	11.575 H CANAL+ FAMILY 30000	11.817 V JIMMY 27500	12.031 H BLUE MOVIE 27500	12.574 H RNW3 22000	12.110 H NDR FS 27500
EUTELSAT W2	11.596 H M6 Music Black 30000	11.575 H CUISINE TV 30000	11.817 V LA CHAINE METEO 27500	12.031 H MGM 27500	11.778 H Sky Radio 22000	12.110 H rbb Berlin 27500
TEL-111	11.596 H M6 Music Hits 30000	11.575 H DISNEY CINEMAGIC 30000	11.817 V PARIS PREMIERE 27500	12.031 H SCI FI 27500	12.604 H WDR Aachen 22000	12.110 H rbb Brandenburg 27500
EU70WZ2E	11.596 H NATIONAL GEO 30000	11.575 H EURONEWS 30000	11.817 V SEASONS 27500	12.031 H PREMIERE DIREKT 27500	12.604 H WDR Bonn 22000	12.110 H SWR Fernsehen RP 27500
EU70WZ2E	11.596 H TV Breizh 30000	11.575 H GAME ONE 30000	11.817 V SPORT+ 27500	12.305 H Animal Planet 27500	12.604 H WDR Duisburg 22000	● 12.110 H ARD-Data-2 27500
EU70WZ2E	11.596 H USHUAIA TV 30000	11.575 H HCP 30000	11.817 V EUPONEWS 27500	12.305 H Discovery Channel 27500	12.604 H WDR Huppertal 22000	12.129 V A LA CARTE 1 27500
● 11.596 H PLANETE JNR/THAL 30000	● 11.596 H Wdr 50M 30000	11.575 H MCM POP 30000	11.817 V MEZZO 27500	● 12.605 H Extreme Sports 27500	● 12.605 H WDR HD 22000	12.129 V A LA CARTE 13 27500
● 11.596 H Planete Je 30000	11.596 H PRIVATE SPICE 30000	11.575 H MCM TV 30000	11.817 V AXN 27500	12.305 H Hallmark 27500	12.605 H EUROSPORT HD 22000	12.129 V A LA CARTE 14 27500
11.596 H TFS 30000	11.596 H TFS FOOT 30000	11.575 H MTV 30000	● 11.876 H AXN Action 27500	12.305 H HBO Comedy 27500	12.605 H USHUAIA TV HD 22000	12.129 V A LA CARTE 2 27500
11.596 H TFS Star 30000	11.596 H TRAC TROPICAL 30000	11.575 H TEST 30000	11.876 H BOOMERANG (a/P) 27500	11.778 H MTVNHD 27500	11.778 V Sky Radio 22000	12.129 V A LA CARTE 3 27500
11.596 H TV Breizh 30000	11.596 H USHUAIA TV 30000	11.575 H TV 24 30000	11.876 H DISNEY PLAYHOUSE 27500	11.778 V Boomranga 27500	11.778 H Cartoon Network 27500	12.129 V A LA CARTE 4 27500
11.596 H USHUAIA TV 30000	11.596 H ZEE CINEMA 30000	11.575 H TEVA 30000	11.876 H DISNEY TOON (P) 27500	11.778 H Boomerang 27500	11.778 V TCM 27500	12.129 V A LA CARTE 5 27500
11.596 H ZEE TV 30000	11.575 H TCM a/P 27500	11.575 H XFL 30000	11.876 H STAR XL LIVE 27500	12.305 H Zone Reality 27500	11.778 V TCM 27500	12.129 V A LA CARTE 6 27500
11.596 H Europe 1 30000	11.876 H STAR XL LIVE 27500	11.575 H XFL 30000	● 11.895 H BOOMERANG (a/P) 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 7 27500
11.596 H Wdr 50M 30000	● 11.895 H BOOMERANG (a/P) 27500	11.575 H XFL 30000	11.895 H CINEMA CLUB 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 8 27500
11.596 H Nostalgie 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 9 27500
11.596 H Radio Classique 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 10 27500
11.596 H Radio Plus 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 11 27500
11.596 H Radio Reunion 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 12 27500
11.596 H Radio Tana 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 13 27500
11.596 H RTA Gasy Radio 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 14 27500
11.596 H RTL 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 15 27500
11.596 H Sport O FM 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 16 27500
11.596 H Top FM 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 17 27500
11.596 H MIM Mayotte 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 18 27500
11.596 H RCF 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 19 27500
● 11.658 H CANAL+ 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 20 27500
11.658 H CANAL+ CINEMA 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 21 27500
11.658 H CANAL+ SPORT 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 22 27500
11.658 H CINEMA EMOTION 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 23 27500
11.658 H CINEMA FRONTS 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 24 27500
11.658 H CINEMA PREMIER 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 25 27500
11.658 H EQUIDIA 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 26 27500
11.658 H EUROSPORT 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 27 27500
11.658 H LCI 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 28 27500
11.658 H M6 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 29 27500
11.658 H PLAYHOUSE DISNEY 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 30 27500
11.658 H RCF 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 31 27500
● 11.658 H TELE MAISON 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 32 27500
11.658 H CANAL+ 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 33 27500
11.658 H CANAL+ CINEMA 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 34 27500
11.658 H CANAL+ SPORT 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 35 27500
11.658 H CINEMA EMOTION 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 36 27500
11.658 H CINEMA FRONTS 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 37 27500
11.658 H CINEMA PREMIER 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 38 27500
11.658 H EQUIDIA 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 39 27500
11.658 H EUROSPORT 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 40 27500
11.658 H LCI 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 41 27500
11.658 H M6 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 42 27500
11.658 H PLAYHOUSE DISNEY 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 43 27500
11.658 H RCF 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 44 27500
● 11.658 H TELE MAISON 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 45 27500
11.658 H CANAL+ 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 46 27500
11.658 H CANAL+ CINEMA 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 47 27500
11.658 H CANAL+ SPORT 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 48 27500
11.658 H CINEMA EMOTION 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 49 27500
11.658 H CINEMA FRONTS 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 50 27500
11.658 H CINEMA PREMIER 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 51 27500
11.658 H EQUIDIA 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 52 27500
11.658 H EUROSPORT 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 53 27500
11.658 H LCI 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 54 27500
11.658 H M6 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 55 27500
11.658 H PLAYHOUSE DISNEY 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A LA CARTE 56 27500
11.658 H RCF 30000	11.895 H M6 27500	11.575 H XFL 30000	11.895 H M6 27500	12.305 H Nova Sport 27500	11.778 V TCM 27500	12.129 V A

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

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

ASTIKRUK Astra 1K R 019.2° East. Includes a map of Europe, Ku-Band details, and a list of channel names and symbol rates.

AST30AKU Astra 3A 023.5° East. Includes a map of Europe, Ku-Band details, and a list of channel names and symbol rates.

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

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

North Africa, Middle East
EUROIRD 2
23.5 East

● 11.075 H AL RIYADYIYAH	27500
● 11.075 H AMERICA PLUS	27500
● 11.075 H C-SPAN	27500
● 11.075 H CNBC-US	27500
● 11.075 H FOX NEWS	27500
● 11.075 H MUSIC NOW	27500
● 11.075 H ORBIT NEWS 2	27500
● 11.075 H Ptfest	27500
● 11.075 H SUPER COMEDY	27500
● 11.075 H Al Habeeb TV	27500
● 11.075 V Al Hayat Series	27500
● 11.075 V Al Lubnania 128	27500
● 11.075 V Atlas 128	27500
● 11.075 V Awal TV	27500
● 11.075 V DM TV 128	27500
● 11.075 V Family One	27500
● 11.075 V Harmony TV	27500
● 11.075 V MARIABA	27500
● 11.075 V NOJOOM 4	27500
● 11.075 V Sajaja	27500
● 11.075 V Talemah	27500
● 11.075 V WATANI	27500
● 11.075 V WTV 128	27500

EUROIRD 2
23.5 East

● 11.012 H BLOOMBERG	27500
● 11.012 H CINEMA CITY	27500
● 11.012 H FASHION TV	27500
● 11.012 H MGM	27500
● 11.012 H SERIES	27500
● 11.012 H SPACE TOON	27500
● 11.012 H SUPER MOVIES	27500
● 11.012 H TVMAX	27500
● 11.012 H TV MAX PROMO	27500
● 11.055 H AL RIYADYIYAH	27500
● 11.055 H AMERICA PLUS	27500
● 11.055 H C-SPAN	27500
● 11.055 H CNBC-US	27500
● 11.055 H FOX NEWS	27500
● 11.055 H MUSIC NOW	27500
● 11.055 H ORBIT NEWS 2	27500
● 11.055 H Ptfest	27500
● 11.055 H SUPER COMEDY	27500
● 11.055 H MARHABA	27500
● 11.055 H BBC ARABIC	27500
● 11.055 H BBC ENGLISH	27500
● 11.055 H CLASSICAL	27500
● 11.055 H COUNTRY OF BLUES	27500
● 11.055 H DANCE	27500
● 11.055 H GMA DZBB	27500
● 11.055 H HITS	27500
● 11.055 H JAZZ	27500
● 11.055 H KHALIYATV	27500
● 11.055 H LITE FM	27500
● 11.055 H LOVE SONGS	27500
● 11.055 H MONAWAT	27500
● 11.055 H MONTE CARLO	27500
● 11.055 H MOTOWN	27500
● 11.055 H POP	27500
● 11.055 H R&B	27500
● 11.055 H ROCK	27500
● 11.055 H SUPER GOLD	27500
● 11.055 H VIRGIN RADIO	27500

● 11.075 H CNNI	27500
● 11.604 H DISCOVERY CHANNEL	27500
● 11.604 H DISCOVERY T&L	27500
● 11.604 H FOX SPORTS	27500
● 11.604 H SUPER COMEDY *2	27500
● 11.604 H TOON DISNEY	27500
● 11.604 H e-GMA DZBB	27500
● 11.604 H e-KHALIYATV	27500
● 11.604 H e-MONAWAT	27500
● 11.604 H e-TARABYATV	27500
● 11.623 V test	27500
● 11.623 V Al Athar 156	27500
● 11.623 V Al-Khaa	27500
● 11.623 V ALKHET TV	27500
● 11.623 V Auto one TV	27500
● 11.623 V Bin-Othaimen	27500
● 11.623 V Jasco	27500
● 11.623 V MART	27500
● 11.623 V NOOR AL HODA	27500
● 11.623 V Oscar Drama	27500
● 11.623 V Sada Al Islam	27500
● 11.623 V Salwa	27500
● 11.623 V SANA	27500
● 11.623 V Tour Al-Janah	27500
● 11.623 V WESAL	27500
● 11.635 H Fann	14468
● 11.635 H Mkis Feed	14468
● 11.635 H Music Now	14468
● 11.635 H Salwa	14468
● 11.682 V AlSamar	27500
● 11.682 V Arrai	27500
● 11.682 V Auto One	27500
● 11.682 V Bahrain TV	27500
● 11.682 V HADI TV	27500
● 11.682 V IRAQ Economic	27500
● 11.682 V Karbala	27500
● 11.682 V Mthah-ART video	27500
● 11.682 V Nour TV	27500
● 11.682 V Shabbabek	27500
● 11.682 V Stock TV	27500
● 11.682 V Supreme master	27500
● 11.682 V E1 Nour Radio	27500
● 11.681 H AL SAFWA	27500
● 11.681 H AL YAWM	27500
● 11.681 H CINEMA 1	27500
● 11.681 H CINEMA 2	27500
● 11.681 H CINEMA 3	27500
● 11.681 H CINEMA 4	27500
● 11.681 H GMA LIFE TV	27500
● 11.681 H GMA Pinoy TV	27500
● 11.681 H HISTORY CHANNEL	27500
● 11.681 H HOLLYWOOD	27500
● 11.681 H HEMA TV	27500
● 11.681 H PINOY EXTREME	27500
● 11.681 H SERIES+4	27500
● 11.681 H SUPER MOVIES+1	27500
● 11.681 H TCM	27500
● 11.681 H GMA DZBB FM	27500

● 11.727 H Algeria	27500
● 11.727 H Booyut Mothmaena	27500
● 11.727 H Enteria	27500
● 11.727 H Mauritania	27500
● 11.727 H Hannibal	27500
● 11.727 H Libya Sport (Riadia)	27500
● 11.727 H Libya TV	27500
● 11.727 H Morocco TV	27500
● 11.727 H Tunisia	27500
● 11.727 H Tunisia Z1	27500
● 11.727 H Algeria R1	27500
● 11.727 H Algeria R2	27500
● 11.727 H Enteria R1	27500
● 11.727 H Mauritania R1	27500
● 11.727 H R-Tunisie-Culture	27500
● 11.727 H R-Tunisie-Internat	27500
● 11.727 H R-Tunisie-National	27500
● 11.727 H Zitouna Tunisie	27500
● 11.747 V A Thuraya	27500
● 11.747 V AAKAR	27500
● 11.747 V Al Jawhar TV	27500
● 11.747 V Alkafthar	27500
● 11.747 V ANShop	27500
● 11.747 V Oman	27500
● 11.747 V Ouyun Jeddah	27500
● 11.747 V Saudi 1	27500
● 11.747 V Saudi 2	27500
● 11.747 V Tayba TV	27500
● 11.747 V RFI Radio	27500
● 11.747 V OMAN ENGLISH PROG	27500
● 11.747 V OMAN GENERAL PROG	27500
● 11.747 V OMAN YOUTH PROGRA	27500
● 11.747 V Radio RMC	27500
● 11.747 V Saudi 2 R1	27500
● 11.747 V Saudi 2 R2	27500
● 11.785 V Al Shop	27500
● 11.785 V E1 Emrah	27500
● 11.785 V Future USA	27500
● 11.785 V Ghinwa	27500
● 11.785 V Sahn TV	27500
● 11.785 V Strike	27500
● 11.785 V Test 10	27500
● 11.785 V Test 11	27500
● 11.785 V Test 12	27500
● 11.785 V Test 13	27500
● 11.785 V Test 15	27500
● 11.785 V Test 16	27500
● 11.785 V Test 6	27500
● 11.785 V Test 8	27500
● 11.804 H Al Shop	27500
● 11.804 H ABU DHABI-	27500

● 11.804 H ABU DHABI-E	27500
● 11.804 H AD Sports	27500
● 11.804 H Al Emrah	27500
● 11.804 H AlQuds TV	27500
● 11.804 H AlKhad TV	27500
● 11.804 H Future USA	27500
● 11.804 H SHARAJAH TV	27500
● 11.804 H Strike	27500
● 11.804 H Post	27500
● 11.804 H Sahn TV	27500
● 11.804 H SHARAJAH TV	27500
● 11.804 H Strike	27500
● 11.804 H Test 1	27500
● 11.804 H Test 10	27500
● 11.804 H Test 11	27500
● 11.804 H Test 12	27500
● 11.804 H Test 13	27500
● 11.804 H Test 15	27500
● 11.804 H Test 2	27500
● 11.804 H Test 3	27500
● 11.804 H Test 4	27500
● 11.804 H Test 5	27500
● 11.804 H Test 6	27500
● 11.804 H Test 8	27500
● 11.804 H Training	27500
● 11.804 H ABU DHABI RADIO	27500
● 11.804 H AD RADIO 1	27500
● 11.804 H ALAN Athaan	27500
● 11.804 H ALATHAN Radio	27500
● 11.804 H EMARAT FM	27500
● 11.804 H Fajarah Athaan	27500
● 11.804 H Liwa Athaan	27500
● 11.804 H QURAN QARIM	27500
● 11.804 H SHARAJAH RADIO	27500
● 11.804 H SOWT ALMUSICA	27500
● 11.843 H Infia Mohammad	27500
● 11.843 H Rotana Cinema	27500
● 11.843 H Rotana Film	27500
● 11.843 H Rotana Khalijiya	27500
● 11.843 H Rotana Music	27500
● 11.843 H Rotana Tarab	27500
● 11.843 H Rotana Zaman	27500
● 11.843 H test	27500
● 11.862 V A lpha Shop	27500
● 11.862 V AL JAZEERA CHILD	27500
● 11.862 V Montada	27500
● 11.862 V Najah	27500
● 11.862 V Oman TV2	27500
● 11.862 V Rawee	27500
● 11.862 V Scope TV	27500
● 11.862 V Sharya TV	27500
● 11.862 V Test 4	27500
● 11.862 V Test 12	27500
● 11.862 V Test 2	27500
● 11.862 V Saudi Radio-1	27500
● 11.862 V Saudi Radio-2	27500
● 11.862 V Yara TV	27500
● 11.862 V ALKAWATHAR Radio	27500
● 11.862 V Oman Quran Karim	27500
● 12.015 V AL-EKHBARIA	27500
● 12.015 V Saudi Sport	27500
● 12.015 V Saudi TV	27500
● 12.015 V Saudi-2	27500
● 12.015 V European	27500
● 12.015 V Holy Quran	27500
● 12.015 V Radio-5	27500
● 12.015 V Saudi Radio-1	27500
● 12.015 V Saudi Radio-2	27500
● 11.937 H Al Hurra	27500
● 11.937 H Al Hurra Iraq	27500
● 11.937 H AlManar TV	27500
● 11.937 H Ameen	27500
● 11.937 H AutoOne	27500
● 11.937 H Bab El Mawada	27500
● 11.937 H Hamaa TV	27500
● 11.937 H DiEl Promo 3	27500
● 11.937 H Done Deal TV	27500
● 11.937 H Fanoos	27500
● 11.937 H Radio Sawa Sudan	27500
● 11.937 H Mubaraqat Al Quran a	27500
● 11.937 H OTV	27500
● 11.937 H Rayhanaa TV	27500
● 11.937 H Romanya TV	27500
● 11.937 H Shida TV	27500
● 11.937 H TEST	27500
● 11.937 H U-Mark	27500
● 11.937 H El Nour Radio	27500
● 11.937 H Radio Fardis	27500
● 11.937 H Radio Iraq north and	27500
● 11.937 H Radio Sawa Iraq	27500
● 11.937 H Radio Sawa Levant	27500
● 11.937 H Radio Sawa Sudan	27500
● 11.937 H HD VISION TV	27500
● 11.937 H LUXE TV HD	27500
● 11.937 H Melody Zen HD	27500
● 11.937 H HD VISION TV2	27500
● 11.937 H Huma TV	27500
● 11.937 H Radio Sawa Iraq	27500
● 11.937 H Radio Sawa Levant	27500
● 11.937 H Radio Sawa Sudan	27500
● 11.937 H HD VISION TV	27500
● 11.937 H LUXE TV HD	27500
● 11.937 H Melody Zen HD	27500
● 11.937 H HD VISION TV2	27500
● 11.937 H Huma TV	27500
● 11.937 H Radio Sawa Iraq	27500
● 11.937 H Radio Sawa Levant	27500
● 11.937 H Radio Sawa Sudan	27500
● 11.937 H HD VISION TV	27500
● 11.937 H LUXE TV HD	27500
● 11.937 H Melody Zen HD	27500
● 11.937 H HD VISION TV2	27500
● 11.937 H Huma TV	27500
● 11.937 H Radio Sawa Iraq	27500
● 11.937 H Radio Sawa Levant	27500
● 11.937 H Radio Sawa Sudan	27500
● 11.937 H HD VISION TV	27500
● 11.937 H LUXE TV HD	27500
● 11.937 H Melody Zen HD	27500
● 11.937 H HD VISION TV2	27500

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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
12.0292 V AL HRMAIN	27500	3.882 H Al Bahrain	27500	11.739 V Bravo	27500	12.461 H Vegas Pyramid	27500	10.738 V BBC 1 E Mids	20000	11.261 H SportsXbabes	27500	11.508 H Games Slot 16	27500
12.0292 V AL MOUATAA	27500	3.882 H Al Jawhara	27500	11.739 V Bravo+1	27500	12.461 H WAP Brower+1	27500	10.788 V BBC 1 East	20000	11.261 H Zone Horror	27500	11.508 H Games Slot 17	27500
12.0292 V ALDFARM Music	27500	3.882 H Family TV	27500	11.739 V Bravo+2	27500	12.461 H WML HighPicos	27500	10.788 V BBC 1 West	20000	11.261 H Zone Reality+1	27500	11.508 H Games Slot 18	27500
12.0292 V EBONY TV	27500	3.882 H Ouyun Jeddah	27500	11.739 V Challenge	27500	12.461 H WonderSpots	27500	10.788 V BBC 1 Yrds	20000	11.261 H Newstalk	27500	11.508 H Games Slot 19	27500
12.0292 V Fairplay Media 12	27500	3.882 H Al Eagle	27500	11.739 V Vivid	27500	11.739 V LIVE	27500	10.787 V BBC 1 Midlands	20000	11.261 H NCTV	27500	11.508 H Games Slot 20	27500
12.0292 V orient	27500	3.882 H Sehriya	27500	11.739 V V-LIVING	27500	11.973 V Sony TV Asia	27500	10.788 V ETV5	20000	11.307 H Brava 2	27500	11.527 V Eden+1	27500
12.0292 V QRANNI TV	27500	3.882 H Test	27500	11.739 V V-LIVING+1	27500	12.031 H bid tv	27500	10.788 V ETV6	20000	11.307 H Challenge+1	27500	11.527 V Extreme Sports	27500
12.0292 V SAHAR TV	27500	3.882 H Test1	27500	11.739 V V-LIVING+2	27500	12.031 H Ideal World	27500	10.803 H BBC 1 Wales	20000	11.307 H LIVING	27500	11.527 V ParaComedy 1	27500
12.0292 V Star FM Rasoul	27500	3.882 H Thrana TV	27500	11.739 V V-LIVING+3	27500	12.031 H Live-drop TV	27500	10.803 H BBC 1 West	20000	11.307 H LIVING+1	27500	11.527 V ParaComedy 2	27500
12.0292 V TEAM TV	27500	3.882 H Thuraaya TV	27500	11.739 V V-LIVING+4	27500	12.031 H Mosaik Test	27500	10.803 H BBC 2 Wales	20000	11.307 H Motors TV	27500	11.527 V Channel M	27500
12.0292 V Zoal TV	27500	3.882 H Yara TV	27500	11.739 V Trouble	27500	12.031 H QVC Miss Test	27500	10.803 H BBC 2 East	20000	11.307 H MUTV	27500	11.527 V GayDateTV	27500
12.0292 V Fairplay Radio	27500	4.040 H Al Esbarria	27500	11.817 V Abul	27500	12.031 H QVC IMAK Test	27500	11.307 H Virgin 1	27500	11.307 H UKTV Hory+1	27500	11.527 V Live TV	27500
12.111 H Al Eqtisada TV	27500	4.040 H DubaiTV	27500	11.817 V Dave	27500	12.031 H QVC TSNOW	27500	10.803 H BBC RSS	20000	11.307 H Virgin+1	27500	11.527 V Thomas Cook	27500
12.111 H ALAAAN TV	27500	4.040 H Ethiopia	27500	11.817 V Eden	27500	12.031 H speedupdateTV	27500	10.818 V BBC 1 NE & C	20000	11.307 H Virgin+2	27500	11.546 H ARCLIT Digital	27500
12.111 H ARIRANG	27500	4.040 H HORA	27500	11.817 V El Clasico	27500	12.031 H UKTV Sports 3	27500	10.818 V BBC 1 Oxford	20000	11.307 H 9X	27500	11.546 H WAGO	27500
12.111 H ASHOROQTV	27500	4.040 H IPTV	27500	11.817 V UKTV Food	27500	12.110 H UKTV Sports 2	27500	10.818 V BBC 1 South	20000	11.307 H 9X	27500	11.546 H WAGO Comedy+1	27500
12.111 H Decision Makers Tv	27500	4.040 H IPRESS TV	27500	11.817 V UKTV History	27500	12.110 H UKTV Sports 3	27500	10.818 V BBC 1 S West	20000	11.307 H BET	27500	11.546 H WAGO	27500
12.111 H Dubai Sports 2	27500	4.040 H IREDA	27500	11.817 V UKTV Food	27500	12.110 H UKTV Sports 3	27500	10.818 V BBC 1 West	20000	11.307 H High Street TV	27500	11.546 H AVaTest	27500
12.111 H INFINITY 2	27500	4.040 H J Saud-1	27500	11.817 V UKTV Food	27500	12.110 H UKTV Sports 2	27500	10.818 V BBC 1 South	20000	11.307 H Info World 3	27500	11.546 H Beverly Hills TV	27500
12.111 H Jawa	27500	4.040 H J Saud-2	27500	11.817 V UKTV Style	27500	12.110 H UKTV Sports 2	27500	10.818 V ETV6	20000	11.307 H Jewelry Ch.	27500	11.546 H HomeMade	27500
12.111 H SHARQIYA	27500	4.040 H SHARQIYA R1	27500	11.817 V UKTV Style	27500	12.110 H UKTV Sports 3	27500	10.832 H GAG	20000	11.307 H My Channel	27500	11.546 H Cinema Movies	27500
12.130 V 4FUN	27500	4.094 H BT15	4340	11.876 H Animal Planet	27500	10.832 H HTV1 Border	20000	10.832 H HTV1 Border	20000	11.307 H NigeriaMovies	27500	11.546 H Gate 1	27500
12.130 H AlHubayb	27500	11.876 H dis+	27500	11.876 H dis+	27500	10.832 H HTV1 Central S	20000	10.832 H HTV1 Central S	20000	11.307 H NTAI	27500	11.546 H Monte Carlo TV	27500
12.130 H Al Eqtisada TV	27500	11.876 H Disc-Knowledge	27500	11.876 H Disc-Knowledge	27500	10.832 H HTV1 Central E	20000	10.832 H HTV1 Central E	20000	11.307 H propper	27500	11.546 H Show On TV	27500
12.130 H ALAAAN TV	27500	11.876 H Disc-Turbo	27500	11.876 H Disc-Turbo	27500	10.832 H HTV1 Centre 1	20000	10.832 H HTV1 Centre 1	20000	11.307 H Raia TV	27500	11.546 H Hub TV	27500
12.130 H ARIRANG	27500	11.876 H Disc-Discovery	27500	11.876 H Disc-Discovery	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.307 H Premier	27500	11.565 V AUS Pre Live Sky G	27500
12.130 H ASHOROQTV	27500	11.876 H Disc+Y+	27500	11.876 H Disc+Y+	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Decision Makers Tv	27500	11.876 H HL1	27500	11.876 H HL1	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai One	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai Racing	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai Sport	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai Sports 2	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai TV	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H INFINITY 2	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H ALAAAN TV	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H ARIRANG	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H ASHOROQTV	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Decision Makers Tv	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai One	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai Racing	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai Sport	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai Sports 2	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai TV	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H INFINITY 2	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H ALAAAN TV	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H ARIRANG	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H ASHOROQTV	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Decision Makers Tv	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai One	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai Racing	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai Sport	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai Sports 2	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai TV	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H INFINITY 2	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H ALAAAN TV	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H ARIRANG	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H ASHOROQTV	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Decision Makers Tv	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai One	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai Racing	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai Sport	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai Sports 2	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H Dubai TV	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H INFINITY 2	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H ALAAAN TV	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H ARIRANG	27500	11.876 H Home & Health	27500	11.876 H Home & Health	27500	10.832 H HTV1 Wales	20000	10.832 H HTV1 Wales	20000	11.343 V NickToons	27500	11.565 V Ford Ka Dal	27500
12.130 H ASHOROQTV	27500	11.876 H Home & Health	27500	1									

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Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists various satellite channels like SAT1, ZDF, adhoc2, etc.

INTO10CH INTELSAT 10 068.6° East. Includes a map of the satellite's footprint and a list of channels such as 3745 H 525 English, 3745 H 525 Japanese, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like KHYBER NEWS, Real Africa, Reality TV, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like TV1000 East (FSS), TV1000 Ru Kine, TV1000 Explorer, etc.

ABS-1 075.0° East. Includes a map of the satellite's footprint and a list of channels such as 12519 V TV1000 East (FSS), 12519 V TV1000 Ru Kine, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like EBC, ABS1, ABS001N, ABS-1 075.0° East, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like EBC, ABS1, ABS001N, ABS-1 075.0° East, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 3745 H 525 English, 3745 H 525 Japanese, etc.

TELSTAR 10 076.5° East. Includes a map of the satellite's footprint and a list of channels such as 3745 H 525 English, 3745 H 525 Japanese, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 3745 H 525 English, 3745 H 525 Japanese, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 3745 H 525 English, 3745 H 525 Japanese, etc.

ABS001N ABS-1 075.0° East. Includes a map of the satellite's footprint and a list of channels such as 12519 V TV1000 (+21), 12519 V TV1000 East (FSS), etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 12519 V TV1000 (+21), 12519 V TV1000 East (FSS), etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 12519 V TV1000 (+21), 12519 V TV1000 East (FSS), etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 3745 H 525 English, 3745 H 525 Japanese, etc.

EDUSAT 074.0° East. Includes a map of the satellite's footprint and a list of channels such as 10553 H DESERT/VIDEVAHANI, 10553 H EDUSAT-VTU, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 10553 H DESERT/VIDEVAHANI, 10553 H EDUSAT-VTU, etc.

ABS-1 075.0° East. Includes a map of the satellite's footprint and a list of channels such as 12519 V TVRUS Asia, 12519 V TVRUS Asia, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 12519 V TVRUS Asia, 12519 V TVRUS Asia, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 12519 V TVRUS Asia, 12519 V TVRUS Asia, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 12519 V TVRUS Asia, 12519 V TVRUS Asia, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 3745 H 525 English, 3745 H 525 Japanese, etc.

INTO10CV INTELSAT 7 068.6° East. Includes a map of the satellite's footprint and a list of channels such as 3745 H 525 English, 3745 H 525 Japanese, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 3745 H 525 English, 3745 H 525 Japanese, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 3745 H 525 English, 3745 H 525 Japanese, etc.

ABS001B ABS-1 075.0° East. Includes a map of the satellite's footprint and a list of channels such as 12519 V TVRUS Asia, 12519 V TVRUS Asia, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 12519 V TVRUS Asia, 12519 V TVRUS Asia, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 12519 V TVRUS Asia, 12519 V TVRUS Asia, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 3745 H 525 English, 3745 H 525 Japanese, etc.

INTO10CV INTELSAT 7 068.6° East. Includes a map of the satellite's footprint and a list of channels such as 3745 H 525 English, 3745 H 525 Japanese, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 3745 H 525 English, 3745 H 525 Japanese, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 3745 H 525 English, 3745 H 525 Japanese, etc.

ABS001C ABS-1 075.0° East. Includes a map of the satellite's footprint and a list of channels such as 12519 V TVRUS Asia, 12519 V TVRUS Asia, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 12519 V TVRUS Asia, 12519 V TVRUS Asia, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists channels like 12519 V TVRUS Asia, 12519 V TVRUS Asia, etc.

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
12120 V HHD	7234	4109 V DDK AGARTALA	4250	11510 V ETC Punjabi	27500	11682 V Star News	9500	11635 H DMC	27500	3675 R Dubai-1RDR1	31100
12120 V HGO	7234	4132 V RTA Hindustani	4000	11510 V ETC TV	27500	11510 H BHNDAS MOVIES	47000	11635 R For Mankind TV	27500	3675 R FN2	31100
12120 V PHDC	7234	4132 V RTA Sports	4000	11510 V ETV TELUGU	27500	11510 H CHANNEL V	47000	11635 H Nation Channel	27500	3675 R Orbita-1Mayak	34689
12120 V SUVA	7234	4137 V RTA Service	4000	11510 V Gemini Music	27500	11510 H CNBC AAJAZZ	47000	11635 H News 1	27500	3675 R Orbita-3R-Mayak	34689
12120 V TEST	7234	4141 V ARIANA HTV	5148	11510 V Gemini News	27500	11510 H CNNIBN	47000	11635 H PEAK CHANNEL	27500	3675 R Kultura-1	31100
12120 V TBS	7234	4141 V ARIANA TV	5148	11510 V TV5	27500	11510 H DISCOVERY CHANNEL	47000	11635 H Suvannabhumi Ch.	27500	3675 R Kultura-Vesti	31100
12120 V VAAN	7234	4141 V ARIANA FM	5148	11510 V Maa TV	27500	11510 H ETV2	47000	11635 H TCC	27500	3675 R MuTV Love	31100
12120 V WLT	7234			11510 V Sun Music	27500	11510 H ETV BANGLA	47000	11676 H Body and Mind	27500	3675 R TRKS Kamchaka	34689
12120 V PPP Portal (home t	7234			11510 V Sun News	27500	11510 H ETV GUJARATI	47000	11676 H E-Sun Discovery	27500	3675 R TRKS MSK	34689
6120 E MEASAT 3				11510 V TV5 Telugu	27500	11510 H ETV KANNADA	47000	11676 H For the Earth TV	27500	3675 R Russian Radio	34689
INS30AC				11510 V Sun Music 2	27500	11510 H ETV ORIYA	47000	11676 H H Suvannabhumi Channel	27500	3675 R Russian Radio	34689
INSAT 3A 093.5° East				11510 V Sun News	27500	11510 H ETV TELUGU	47000	11676 H Variety	27500	3675 R ASTV Radio 1	27500
MEAD03CG				11510 V World Movies	27500	11510 H ETV UP	47000	3675 R Data SMR 96.5	34689	3675 R DOBRYE PESNI	34689
				11510 V Zee Telugu	27500	11510 H HISTORY URDU	47000	3675 R Radio A1-5	34689	3675 R Radio A1-6	34689
				11510 V Zee Telugu 2	27500	11510 H HISTORY CHANNEL	47000	3675 R Radio A1-7	34689	3675 R Radio A1-8	34689
				11510 V Zee Bangla	27500	11510 H HISTORY HUNGAMA	47000	3675 R Radio A1-9	34689	3675 R Radio A1-10	34689
				11510 V Zee Bangla 2	27500	11510 H INDIA NEWS	47000	3675 R Radio A1-11	34689	3675 R Radio A1-12	34689
				11510 V Zee Telugu 3	27500	11510 H INDIA NEWS 2	47000	3675 R Radio A1-13	34689	3675 R Radio A1-14	34689
				11510 V Zee Telugu 4	27500	11510 H KHNACTIVE	47000	3675 R Radio A1-15	34689	3675 R Radio A1-16	34689
				11510 V Zee Bangla 3	27500	11510 H HAT GOLF	47000	3675 R Radio A1-17	34689	3675 R Radio A1-18	34689
				11510 V Zee Bangla 4	27500	11510 H HAT GOLF 2	47000	3675 R Radio A1-19	34689	3675 R Radio A1-20	34689
				11510 V Zee Bangla 5	27500	11510 H HAT GOLF 3	47000	3675 R Radio A1-21	34689	3675 R Radio A1-22	34689
				11510 V Zee Bangla 6	27500	11510 H HAT GOLF 4	47000	3675 R Radio A1-23	34689	3675 R Radio A1-24	34689
				11510 V Zee Bangla 7	27500	11510 H HAT GOLF 5	47000	3675 R Radio A1-25	34689	3675 R Radio A1-26	34689
				11510 V Zee Bangla 8	27500	11510 H HAT GOLF 6	47000	3675 R Radio A1-27	34689	3675 R Radio A1-28	34689
				11510 V Zee Bangla 9	27500	11510 H HAT GOLF 7	47000	3675 R Radio A1-29	34689	3675 R Radio A1-30	34689
				11510 V Zee Bangla 10	27500	11510 H HAT GOLF 8	47000	3675 R Radio A1-31	34689	3675 R Radio A1-32	34689
				11510 V Zee Bangla 11	27500	11510 H HAT GOLF 9	47000	3675 R Radio A1-33	34689	3675 R Radio A1-34	34689
				11510 V Zee Bangla 12	27500	11510 H HAT GOLF 10	47000	3675 R Radio A1-35	34689	3675 R Radio A1-36	34689
				11510 V Zee Bangla 13	27500	11510 H HAT GOLF 11	47000	3675 R Radio A1-37	34689	3675 R Radio A1-38	34689
				11510 V Zee Bangla 14	27500	11510 H HAT GOLF 12	47000	3675 R Radio A1-39	34689	3675 R Radio A1-40	34689
				11510 V Zee Bangla 15	27500	11510 H HAT GOLF 13	47000	3675 R Radio A1-41	34689	3675 R Radio A1-42	34689
				11510 V Zee Bangla 16	27500	11510 H HAT GOLF 14	47000	3675 R Radio A1-43	34689	3675 R Radio A1-44	34689
				11510 V Zee Bangla 17	27500	11510 H HAT GOLF 15	47000	3675 R Radio A1-45	34689	3675 R Radio A1-46	34689
				11510 V Zee Bangla 18	27500	11510 H HAT GOLF 16	47000	3675 R Radio A1-47	34689	3675 R Radio A1-48	34689
				11510 V Zee Bangla 19	27500	11510 H HAT GOLF 17	47000	3675 R Radio A1-49	34689	3675 R Radio A1-50	34689
				11510 V Zee Bangla 20	27500	11510 H HAT GOLF 18	47000	3675 R Radio A1-51	34689	3675 R Radio A1-52	34689
				11510 V Zee Bangla 21	27500	11510 H HAT GOLF 19	47000	3675 R Radio A1-53	34689	3675 R Radio A1-54	34689
				11510 V Zee Bangla 22	27500	11510 H HAT GOLF 20	47000	3675 R Radio A1-55	34689	3675 R Radio A1-56	34689
				11510 V Zee Bangla 23	27500	11510 H HAT GOLF 21	47000	3675 R Radio A1-57	34689	3675 R Radio A1-58	34689
				11510 V Zee Bangla 24	27500	11510 H HAT GOLF 22	47000	3675 R Radio A1-59	34689	3675 R Radio A1-60	34689
				11510 V Zee Bangla 25	27500	11510 H HAT GOLF 23	47000	3675 R Radio A1-61	34689	3675 R Radio A1-62	34689
				11510 V Zee Bangla 26	27500	11510 H HAT GOLF 24	47000	3675 R Radio A1-63	34689	3675 R Radio A1-64	34689
				11510 V Zee Bangla 27	27500	11510 H HAT GOLF 25	47000	3675 R Radio A1-65	34689	3675 R Radio A1-66	34689
				11510 V Zee Bangla 28	27500	11510 H HAT GOLF 26	47000	3675 R Radio A1-67	34689	3675 R Radio A1-68	34689
				11510 V Zee Bangla 29	27500	11510 H HAT GOLF 27	47000	3675 R Radio A1-69	34689	3675 R Radio A1-70	34689
				11510 V Zee Bangla 30	27500	11510 H HAT GOLF 28	47000	3675 R Radio A1-71	34689	3675 R Radio A1-72	34689
				11510 V Zee Bangla 31	27500	11510 H HAT GOLF 29	47000	3675 R Radio A1-73	34689	3675 R Radio A1-74	34689
				11510 V Zee Bangla 32	27500	11510 H HAT GOLF 30	47000	3675 R Radio A1-75	34689	3675 R Radio A1-76	34689
				11510 V Zee Bangla 33	27500	11510 H HAT GOLF 31	47000	3675 R Radio A1-77	34689	3675 R Radio A1-78	34689
				11510 V Zee Bangla 34	27500	11510 H HAT GOLF 32	47000	3675 R Radio A1-79	34689	3675 R Radio A1-80	34689
				11510 V Zee Bangla 35	27500	11510 H HAT GOLF 33	47000	3675 R Radio A1-81	34689	3675 R Radio A1-82	34689
				11510 V Zee Bangla 36	27500	11510 H HAT GOLF 34	47000	3675 R Radio A1-83	34689	3675 R Radio A1-84	34689
				11510 V Zee Bangla 37	27500	11510 H HAT GOLF 35	47000	3675 R Radio A1-85	34689	3675 R Radio A1-86	34689
				11510 V Zee Bangla 38	27500	11510 H HAT GOLF 36	47000	3675 R Radio A1-87	34689	3675 R Radio A1-88	34689
				11510 V Zee Bangla 39	27500	11510 H HAT GOLF 37	47000	3675 R Radio A1-89	34689	3675 R Radio A1-90	34689
				11510 V Zee Bangla 40	27500	11510 H HAT GOLF 38	47000	3675 R Radio A1-91	34689	3675 R Radio A1-92	34689
				11510 V Zee Bangla 41	27500	11510 H HAT GOLF 39	47000	3675 R Radio A1-93	34689	3675 R Radio A1-94	34689
				11510 V Zee Bangla 42	27500	11510 H HAT GOLF 40	47000	3675 R Radio A1-95	34689	3675 R Radio A1-96	34689
				11510 V Zee Bangla 43	27500	11510 H HAT GOLF 41	47000	3675 R Radio A1-97	34689	3675 R Radio A1-98	34689
				11510 V Zee Bangla 44	27500	11510 H HAT GOLF 42	47000	3675 R Radio A1-99	34689	3675 R Radio A1-100	34689
				11510 V Zee Bangla 45	27500	11510 H HAT GOLF 43	47000	3675 R Radio A1-101	34689	3675 R Radio A1-102	34689
				11510 V Zee Bangla 46	27500	11510 H HAT GOLF 44	47000	3675 R Radio A1-103	34689	3675 R Radio A1-104	34689
				11510 V Zee Bangla 47	27500	11510 H HAT GOLF 45	47000	3675 R Radio A1-105	34689	3675 R Radio A1-106	34689
				11510 V Zee Bangla 48	27500	11510 H HAT GOLF 46	47000	3675 R Radio A1-107	34689	3675 R Radio A1-108	34689
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				11510 V Zee Bangla 51	27500	11510 H HAT GOLF 49	47000	3675 R Radio A1-113	34689	3675 R Radio A1-114	34689
				11510 V Zee Bangla 52	27500	11510 H HAT GOLF 50	47000	3675 R Radio A1-115	34689	3675 R Radio A1-116	34689
				11510 V Zee Bangla 53	27500	11510 H HAT GOLF 51	47000	3675 R Radio A1-117	34689	3675 R Radio A1-118	34689
				11510 V Zee Bangla 54	27500	11510 H HAT GOLF 52	47000	3675 R Radio A1-119	34689	3675 R Radio A1-120	34689
				11510 V Zee Bangla 55	27500	11510 H HAT GOLF 53	47000	3675 R Radio A1-121	34689	3675 R Radio A1-122	34689
				11510 V Zee Bangla 56	27500	11510 H HAT GOLF 54	47000	3675 R Radio A1-123	34689	3675 R Radio A1-124	34689
				11510 V Zee Bangla 57	27500	11510 H HAT GOLF 55	47000	3675 R Radio A1-125	34689	3675 R Radio A1-126	34689
				11510 V Zee Bangla 58	27500	11510 H HAT GOLF 56	47000	3675 R Radio A1-127	34689	3675 R Radio A1-128	34689
				11510 V Zee Bangla 59	27500	11510 H HAT GOLF 57	47000	3675 R Radio A1-129	34689	3675 R Radio A1-130	34689
				11510 V Zee Bangla 60	27500	11510 H HAT GOLF 58	47000	3675 R Radio A1-131	34689	3675 R Radio A1-132	34689
				11510 V Zee Bangla 61	27500	11510 H HAT GOLF 59	47000	3675 R Radio A1-133	34689	3675 R Radio A1-134	34689
				11510 V Zee Bangla 62	27500	11510 H HAT GOLF 60	47000	3675 R Radio A1-135	34689	3675 R Radio A1-136	34689
				11510 V Zee Bangla 63	27500	11510 H HAT GOLF 61	47000	3675 R Radio A1-137	34689	3675 R Radio A1-138	34689
				11510 V Zee Bangla 64	27500	11510 H HAT GOLF 62	47000	3675 R Radio A1-139	34689	3675 R Radio A1-140	34689
				11510 V Zee Bangla 65	27500	11510 H HAT GOLF 63	47000	3675 R Radio A1-141	34689	3675 R Radio A1-142	34689
				11510 V Zee Bangla 66	27500	11510 H HAT GOLF 64	47000	3675 R Radio A1-143	34689	3675 R Radio A1-144	34689
				11510 V Zee Bangla 67	27500	11510 H HAT GOLF 65	47000	3675 R Radio A1-145	34689	3675 R Radio A1-146	34689

Table with 3 columns: Freq Pol Channel Name, Symbol rate, and GHz. Lists various satellite channels including Computer Music, D-Navi Station, and Eurobeat.

Table with 3 columns: Freq Pol Channel Name, Symbol rate, and GHz. Lists various satellite channels including 3.960 V 35 KF, 3.960 V 36 Cristal and Piano Mu, and 3.960 V 37 Fashion Music.

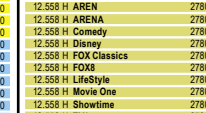
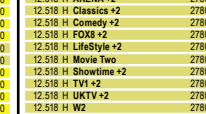
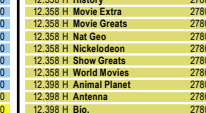
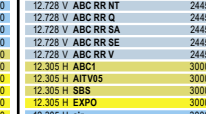
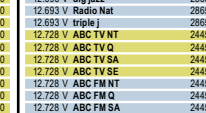
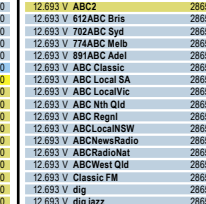
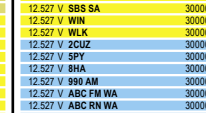
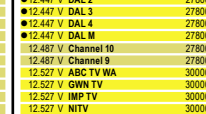
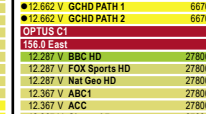
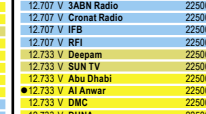
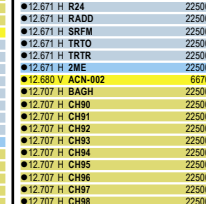
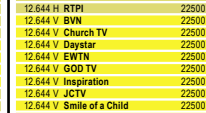
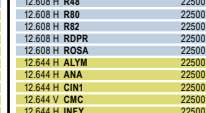
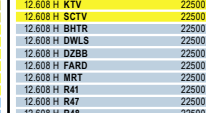
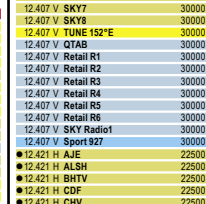
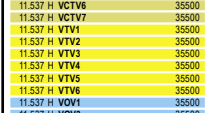
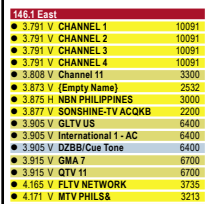
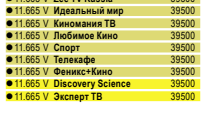
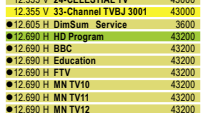
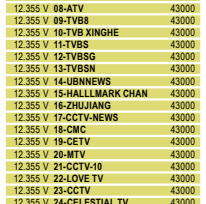
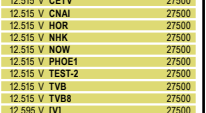
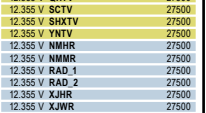
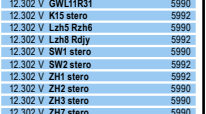
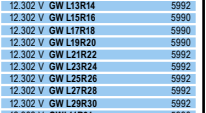
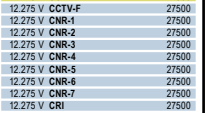
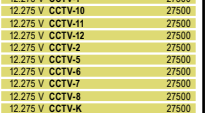
Table with 3 columns: Freq Pol Channel Name, Symbol rate, and GHz. Lists various satellite channels including 12.595 V EUROS, 12.595 V MAS, and 12.595 V MTR.

Table with 3 columns: Freq Pol Channel Name, Symbol rate, and GHz. Lists various satellite channels including C-Band EXPRESS AM3, EXP3AM3, and EXPRESS AM-3 140.0° East.

Table with 3 columns: Freq Pol Channel Name, Symbol rate, and GHz. Lists various satellite channels including C-Band BCC World, C-Band DMAL, and C-Band MKTV.

Table with 3 columns: Freq Pol Channel Name, Symbol rate, and GHz. Lists various satellite channels including 12.644 H R103, 12.644 H R109, and 12.644 H SOUT.

Table with 3 columns: Freq Pol Channel Name, Symbol rate, and GHz. Lists various satellite channels including 12.627 V SMA BUS6, 12.627 V SMA BUS7, and 12.627 V Teambus.



SatcoDX Global Satellite Chart 04/2009

Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz
12.598 H SKY News	27800		12.594 H Sky Box Office	22500		12.311 R Antenna Satellite	20000		3.740 H HBO Signature West	19510		C-Band: AMC 11			3.800 V Caracol TV (Audio On)	27690	
12.598 H TCM	27800		12.594 H (Empty Name)	22500		12.311 R ART Sat	20000		3.740 H Lowe Stars West	19510		AMC11 (23.0 West)			North America		
12.598 H VH1	27800		12.421 H AR TV	22500		12.311 R Mega Cosmos	20000		3.740 H Mystery West	19510		GALAXY 18			23.0 East (12.3 West)		
12.598 H BOX	27800		12.421 H Artis Channel	22500		12.311 R KKTU-TV	20000		3.740 H ShowTime West	19510		AMC 11 229.0 East			11788 H DAYSTAR	26657	
12.598 H Box Office	27800		12.421 H Star Plus	22500		12.311 R MTV Plus	20000		3.740 H Start Theater West	19510		AMC 11 229.0 East			11788 H KARZ	26657	
12.598 H Channel YJ2	27800		12.421 H CNBC	22500		12.311 R International Pro	20000		3.740 H The History Channel	19510		C-Band			11788 H KATV	26657	
12.598 H Country Music	27800		12.421 H Documentary	22500		12.311 R KDTN-TV	20000		3.740 H The Movie Channel West	19510		AMC 11 229.0 East			11788 H KCBU	26657	
12.598 H Disc Health	27800		12.421 H Fashion TV	22500		12.311 R KFWD-TV	20000		3.740 H Westerns West	19510		AMC 11 229.0 East			11788 H KDEVL	26657	
12.598 H Disc Science	27800		12.421 H Star Plus Hindi	22500		12.311 R KUHV-TV	20000		3.740 H Hall of Fame USA	19510		AMC 11 229.0 East			11788 H KKYK	26657	
12.598 H Disc Travel	27800		12.421 H Star Plus	22500		12.311 R KMPX-TV	20000		3.740 H Galavision USA Oeste	29200		AMC 11 229.0 East			11788 H KQJW	26657	
12.598 H EI	27800		12.421 H Hi TV	22500		12.311 R KSTR-TV	20000		3.780 H Telemundo	29200		AMC 11 229.0 East			11788 H KTCV	26657	
12.598 H Eurotopnews	27800		12.456 H C4	22500		12.311 R KUVN-TV	20000		3.780 H Universo Este	29200		AMC 11 229.0 East			11788 H KUTC	26657	
12.598 H FTV	27800		12.456 H CNews	22500		12.311 R KXII-TV	20000		3.780 H The California Chann	30000		AMC 11 229.0 East			11788 H KUVF	26657	
12.598 H NG Adventure	27800		12.456 H Parliament TV	22500		12.311 R WZPX-TV	20000		3.800 V Black Starz West	19510		AMC 11 229.0 East			11788 H KWFO	26657	
12.598 H Nick Jr	27800		12.456 H STRATOS	22500		12.341 R EDTV Channel West	19510		3.800 V Encore West	19510		AMC 11 229.0 East			11788 H KWVO	26657	
12.598 H AIR1	27800		12.456 H Te Reo	22500		12.341 R ESC 1 USA	20000	12.341 R ESC 1 USA	20000	3.800 V MovieFlex West	19510	12.341 R ESC 1 USA	20000	3.800 V Starz Cinema East	19510	3.800 V Starz Family East	19510
12.598 H AIR2	27800		12.456 H H News	22500		12.428 R HD Plus	20000	12.428 R HD Plus	20000	3.800 V Starz Theater West	19510	12.428 R HD Plus	20000	3.800 V Starz Theater East	19510	3.800 V Starz Theater West	19510
12.598 H AIR3	27800		12.456 H BaseFM	22500		3.908 V Nick & Radio	5632	3.908 V Nick & Radio	5632	3.800 V Starz Kids West	19510	12.428 R HD Plus	20000	3.800 V Starz Kids East	19510	3.800 V Starz Kids West	19510
12.598 H AIR4	27800		12.456 H GeorgeFM	22500		3.815 V AirringTV W2	4400	3.815 V AirringTV W2	4400	3.800 V Starz Home West	19510	12.428 R HD Plus	20000	3.800 V Starz Home East	19510	3.800 V Starz Home West	19510
12.598 H AIR5	27800		12.456 H RNZ Concert	22500		3.833 V TVBS	17500	3.833 V TVBS	17500	3.800 V Starz Theater West	19510	12.428 R HD Plus	20000	3.800 V Starz Theater East	19510	3.800 V Starz Theater West	19510
12.598 H AIR6	27800		12.456 H RNZ National	22500		3.833 V TVBS Asia	17500	3.833 V TVBS Asia	17500	3.800 V Starz Kids East	19510	12.428 R HD Plus	20000	3.800 V Starz Kids West	19510	3.800 V Starz Kids East	19510
12.598 H AIR7	27800		12.456 H (Empty Name)	22500		3.833 V TVBS-M	17500	3.833 V TVBS-M	17500	3.800 V Starz Home East	19510	12.428 R HD Plus	20000	3.800 V Starz Home West	19510	3.800 V Starz Home East	19510
12.598 H AIR8	27800		12.456 H Maori TV	22500		3.833 V TVBS-N	17500	3.833 V TVBS-N	17500	3.800 V Starz Theater West	19510	12.428 R HD Plus	20000	3.800 V Starz Theater East	19510	3.800 V Starz Theater West	19510
12.598 H AIR9	27800		12.483 H Reserved 4	22500		3.833 V TVBS-N	17500	3.833 V TVBS-N	17500	3.800 V Starz Kids East	19510	12.428 R HD Plus	20000	3.800 V Starz Kids West	19510	3.800 V Starz Kids East	19510
12.598 H AIR10	27800		12.483 H Reserved 5	22500		3.833 V TVBS-N	17500	3.833 V TVBS-N	17500	3.800 V Starz Home East	19510	12.428 R HD Plus	20000	3.800 V Starz Home West	19510	3.800 V Starz Home East	19510
12.598 H AIR11	27800		12.483 H TV ONE	22500		3.833 V TVBS-N	17500	3.833 V TVBS-N	17500	3.800 V Starz Theater West	19510	12.428 R HD Plus	20000	3.800 V Starz Theater East	19510	3.800 V Starz Theater West	19510
12.598 H AIR12	27800		12.483 H TV 2	22500		3.833 V TVBS-N	17500	3.833 V TVBS-N	17500	3.800 V Starz Kids East	19510	12.428 R HD Plus	20000	3.800 V Starz Kids West	19510	3.800 V Starz Kids East	19510
12.598 H AIR13	27800		12.483 H TVN 6	22500		3.880 V A copy of ANC satio	28700	3.880 V A copy of ANC satio	28700	3.800 V Starz Home West	19510	12.428 R HD Plus	20000	3.800 V Starz Home East	19510	3.800 V Starz Home West	19510
12.598 H AIR14	27800		12.483 H TVNZ SPORT EXTRA	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Theater West	19510	12.428 R HD Plus	20000	3.800 V Starz Theater East	19510	3.800 V Starz Theater West	19510
12.598 H AIR16	27800		12.519 H 63	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Kids East	19510	12.428 R HD Plus	20000	3.800 V Starz Kids West	19510	3.800 V Starz Kids East	19510
12.598 H AIR17	27800		12.519 H Cartoon Network	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Home East	19510	12.428 R HD Plus	20000	3.800 V Starz Home West	19510	3.800 V Starz Home East	19510
12.598 H AIR18	27800		12.519 H CTV 1	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Theater West	19510	12.428 R HD Plus	20000	3.800 V Starz Theater East	19510	3.800 V Starz Theater West	19510
12.598 H AIR19	27800		12.519 H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Kids East	19510	12.428 R HD Plus	20000	3.800 V Starz Kids West	19510	3.800 V Starz Kids East	19510
12.598 H AIR20	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Home East	19510	12.428 R HD Plus	20000	3.800 V Starz Home West	19510	3.800 V Starz Home East	19510
12.598 H AIR21	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Theater West	19510	12.428 R HD Plus	20000	3.800 V Starz Theater East	19510	3.800 V Starz Theater West	19510
12.598 H AIR22	27800		12.519 H SKY Movies	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Kids East	19510	12.428 R HD Plus	20000	3.800 V Starz Kids West	19510	3.800 V Starz Kids East	19510
12.598 H AIR23	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Home East	19510	12.428 R HD Plus	20000	3.800 V Starz Home West	19510	3.800 V Starz Home East	19510
12.598 H AIR24	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Theater West	19510	12.428 R HD Plus	20000	3.800 V Starz Theater East	19510	3.800 V Starz Theater West	19510
12.598 H AIR25	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Kids East	19510	12.428 R HD Plus	20000	3.800 V Starz Kids West	19510	3.800 V Starz Kids East	19510
12.598 H AIR26	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Home East	19510	12.428 R HD Plus	20000	3.800 V Starz Home West	19510	3.800 V Starz Home East	19510
12.598 H AIR27	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Theater West	19510	12.428 R HD Plus	20000	3.800 V Starz Theater East	19510	3.800 V Starz Theater West	19510
12.598 H AIR28	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Kids East	19510	12.428 R HD Plus	20000	3.800 V Starz Kids West	19510	3.800 V Starz Kids East	19510
12.598 H AIR29	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Home East	19510	12.428 R HD Plus	20000	3.800 V Starz Home West	19510	3.800 V Starz Home East	19510
12.598 H AIR30	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Theater West	19510	12.428 R HD Plus	20000	3.800 V Starz Theater East	19510	3.800 V Starz Theater West	19510
12.598 H AIR31	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Kids East	19510	12.428 R HD Plus	20000	3.800 V Starz Kids West	19510	3.800 V Starz Kids East	19510
12.598 H AIR32	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Home East	19510	12.428 R HD Plus	20000	3.800 V Starz Home West	19510	3.800 V Starz Home East	19510
12.598 H AIR33	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Theater West	19510	12.428 R HD Plus	20000	3.800 V Starz Theater East	19510	3.800 V Starz Theater West	19510
12.598 H AIR34	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Kids East	19510	12.428 R HD Plus	20000	3.800 V Starz Kids West	19510	3.800 V Starz Kids East	19510
12.598 H AIR35	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Home East	19510	12.428 R HD Plus	20000	3.800 V Starz Home West	19510	3.800 V Starz Home East	19510
12.598 H AIR36	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Theater West	19510	12.428 R HD Plus	20000	3.800 V Starz Theater East	19510	3.800 V Starz Theater West	19510
12.598 H AIR37	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Kids East	19510	12.428 R HD Plus	20000	3.800 V Starz Kids West	19510	3.800 V Starz Kids East	19510
12.598 H AIR38	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Home East	19510	12.428 R HD Plus	20000	3.800 V Starz Home West	19510	3.800 V Starz Home East	19510
12.598 H AIR39	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Theater West	19510	12.428 R HD Plus	20000	3.800 V Starz Theater East	19510	3.800 V Starz Theater West	19510
12.598 H AIR40	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Kids East	19510	12.428 R HD Plus	20000	3.800 V Starz Kids West	19510	3.800 V Starz Kids East	19510
12.598 H AIR41	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Home East	19510	12.428 R HD Plus	20000	3.800 V Starz Home West	19510	3.800 V Starz Home East	19510
12.598 H AIR42	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A copy of TFC 1 cabl	28700	3.800 V Starz Theater West	19510	12.428 R HD Plus	20000	3.800 V Starz Theater East	19510	3.800 V Starz Theater West	19510
12.598 H AIR43	27800		12.519 H H Preview	22500		3.880 V A copy of TFC 1 cabl	28700	3.880 V A									

Table with columns: Freq Pol Channel Name, Symbol rate GHz, Freq Pol Channel Name, Symbol rate GHz. Includes channels like ImaginAsian TV, OS Download, Soap East, etc.

Table with columns: Freq Pol Channel Name, Symbol rate GHz, Freq Pol Channel Name, Symbol rate GHz. Includes channels like KING-TV, KMGH-TV, KXII-TV, etc.

Table with columns: Freq Pol Channel Name, Symbol rate GHz, Freq Pol Channel Name, Symbol rate GHz. Includes channels like 80's Hits, Beach Jazz, Classical Ambiance, etc.

Table with columns: Freq Pol Channel Name, Symbol rate GHz, Freq Pol Channel Name, Symbol rate GHz. Includes channels like KMGH, WBBM, WLS, etc.

AMC 16 275.0 East. Coverage Code: DXK016K. Includes a map showing the satellite's coverage area over the Americas.

ECHOSTAR 7 241.0 East. Coverage Code: AMX16K. Includes a map showing the satellite's coverage area over the Americas.

ECHOSTAR 9 239.0 East. Coverage Code: ECH097K. Includes a map showing the satellite's coverage area over the Americas.

ECHOSTAR 9 239.0 East. Coverage Code: ECH099K. Includes a map showing the satellite's coverage area over the Americas.

ECHOSTAR 9 239.0 East. Coverage Code: ECH099K. Includes a map showing the satellite's coverage area over the Americas.

SATELITES

Table listing satellite details: Satellite Name, Launch Date, Status, Frequency, and other technical specifications.

AMERICAS

Table listing satellite details for the Americas region: Satellite Name, Launch Date, Status, Frequency, and other technical specifications.

EUROPE

Table listing satellite details for the Europe region: Satellite Name, Launch Date, Status, Frequency, and other technical specifications.

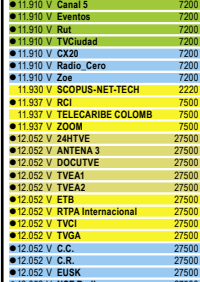
ASIA

Table listing satellite details for the Asia region: Satellite Name, Launch Date, Status, Frequency, and other technical specifications.

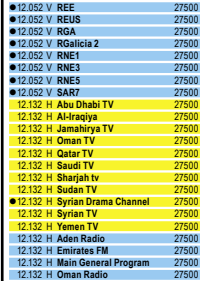
Main table containing satellite data with columns for Freq Pol Channel Name, Symbol rate, GHz, and various channel details. Includes sub-sections for HISPASAT 1C 330.0° East, INTELSAT 801 328.5° East, and HISPASAT 1D 330.0° East.



Ku-Band 45.49 51



Ku-Band 45.49 51



Ku-Band 45.49 51



Ku-Band 45.49 51



Ku-Band 45.49 51



Ku-Band 45.49 51

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

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

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

SatcoDX Global Satellite Chart 04/2009

Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate
12.169 H McBox 28000		11.785 H Nat Geo Wild RO 28000		4.025 R BBC English (W Af. 7324		12.456 V Discov Science 28000	
12.169 H Planet TV 28000		11.785 R BBC English Mid-Ea 28000		4.025 R BBC English News 7324		12.456 V World Carnival 28000	
12.169 H SKAT 28000		11.785 H TV 6 28000		4.025 R BBC English News 7324		12.456 V DVTV (Cable) 28000	
12.169 H Telesat TV 28000		11.785 H Music Channel 28000		4.025 R BBC French 7324		12.456 V Jazz Classics 28000	
12.169 H TV LUX 28000		11.785 R Radio Gaga 28000		4.025 R BBC Pashto 7324		12.456 V Just Chill Out 28000	
12.169 H Alpha 3 28000		11.785 H BBC HUL HD 28000		4.025 R BBC Portuguese 7324		12.456 V Nick!WHC TS 28000	
12.169 H Alpha Radio 28000		● 11.538 H CANAL+ SPORT HD 28000		4.025 R BBC Somali 7324		12.456 V Rock Anthems 28000	
12.169 H BG Radio 28000		● 11.538 R SVT HD 28000		4.025 R BBC Swahili 7324		12.456 V Sky News 28000	
12.169 H ENERGY 28000		● 12.015 H Eurosport HD 30000		● 12.015 R CANAL+ HD 28000		12.456 V Soul Classics 28000	
12.169 H Focus Prima 28000		12.128 H History Chnl HD 30000		● 12.128 H History Chnl HD 30000		12.456 V Strictly 60s 28000	
12.169 H Focus Sofia 28000		12.128 H L.V4 HD 30000		12.128 H TVNorge HD 30000		12.456 V The Alternative 28000	
12.169 H Focus Varna 28000		12.188 H Silver HD 28000		12.188 H Voom HD 28000		12.456 V Total Hits Italy 28000	
12.169 H HIT FM 28000		12.188 H SVT Extra 28000		12.188 V NRK1 Reserve 28000		12.456 V Total Hits Nordi 28000	
12.169 H HORNET Radio 28000		12.188 H Voom HD 28000		12.188 V NRK1 TV Finland 28000		12.456 V Urban 28000	
12.169 H Njoy 28000		12.188 H DR1 Syd 28000		12.188 V NRK1 TV Sweden 28000		12.456 V VH1 Classic 28000	
12.169 H OMV ROMANIA 28000		12.188 H DR2 Syd 28000		12.188 V NRK1 TV Denmark 28000		12.456 V World Circus 28000	
12.169 H Radio 1 28000		12.188 H DTV2 (Cable) 28000		12.188 V NRK1 TV Norway 28000		12.456 V Xmas & Kids 28000	
12.169 H Radio City 2 28000		12.188 H NRK1 Reserve 28000		12.188 V NRK2 Syd 28000		12.476 H Eurosport 27800	
12.169 H Radio FM+ 28000		12.188 H TV Finland 28000		12.188 V NRK2 Syd 28000		12.476 H Eurosport 2 27800	
12.169 H Radio Fresh 28000		12.188 H Nautilus 28000		12.188 V NRK3 Syd 28000		12.476 H TV-bijlet 1 27800	
12.169 H Radio Mix 28000		12.188 H The Poker Channel 28000		12.188 V NRK4 Syd 28000		12.476 H TV-bijlet 2 27800	
12.169 H Radiol Rock 28000		12.188 H TV Patriot 28000		12.188 V NRK5 Syd 28000		12.476 H TV-bijlet 3 27800	
12.169 H STAR FM 28000		12.188 H DR Klassisk Syd 28000		12.188 V NRK6 Syd 28000		12.476 H TV4 Guid 27800	
12.169 H Test Radio 28000		12.188 H DR P1 Syd 28000		12.188 V NRK7 Syd 28000		12.476 H TV4 Komedi 27800	
12.169 H Veronica 28000		12.188 H DR P2 Syd 28000		12.188 V NRK8 Syd 28000			
12.169 H Z-ROCK 28000		12.188 H DR P3 Syd 28000		12.188 V NRK9 Syd 28000			
● 12.226 V ESPN America 28000		12.188 H DR P4 Syd 28000		12.188 V NRK10 Syd 28000			
● 12.226 V ESPN Classic 28000		12.188 H EKPRFS mp2 28000		12.188 V NRK11 Syd 28000			
● 12.226 V TV 2 Sport 2 28000		12.188 H KISS 28000		12.188 V NRK12 Syd 28000			
● 12.226 V TV (N) 28000		12.188 H NRK AN Reserve 28000		12.188 V NRK13 Syd 28000			
● 12.226 V TV8 28000		12.188 H NRK P1 Reserve 28000		12.188 V NRK14 Syd 28000			
● 12.226 V Scandinavian Satelli 28000		12.188 H Radio One 28000		12.188 V NRK15 Syd 28000			
● 12.245 H Antena 1 28000		● 12.428 H Scandinavian Satelli 28000		12.188 V NRK16 Syd 28000			
12.245 H Favorit TV 28000		12.428 H Ylesat 1 28000		12.188 V NRK17 Syd 28000			
12.245 H Hallmark 28000		12.428 H Ylesat 2 28000		12.188 V NRK18 Syd 28000			
12.245 H Hustler TV 28000		12.428 H DR1 Syd 28000		12.188 V NRK19 Syd 28000			
12.245 H Minimax 28000		12.428 H DR2 Syd 28000		12.188 V NRK20 Syd 28000			
12.245 H MTV Romania 28000		● 12.428 H DTV2 (Cable) 28000		12.188 V NRK21 Syd 28000			
12.245 H National TV 28000		12.428 H NRK1 Reserve 28000		12.188 V NRK22 Syd 28000			
12.245 H Prima TV 28000		12.428 H TV Finland 28000		12.188 V NRK23 Syd 28000			
12.245 H Realitatea TV 28000		12.428 H Nautilus 28000		12.188 V NRK24 Syd 28000			
12.245 H Romanica 28000		12.428 H The Poker Channel 28000		12.188 V NRK25 Syd 28000			
12.245 H Telesport 28000		12.428 H TV Patriot 28000		12.188 V NRK26 Syd 28000			
12.245 H TVR 1 28000		12.428 H DR Klassisk Syd 28000		12.188 V NRK27 Syd 28000			
12.245 H TVR 2 28000		12.428 H DR P1 Syd 28000		12.188 V NRK28 Syd 28000			
12.245 H TVR Cultural 28000		12.428 H DR P2 Syd 28000		12.188 V NRK29 Syd 28000			
● 12.245 H FocusSat 28000		12.428 H DR P3 Syd 28000		12.188 V NRK30 Syd 28000			
12.303 V SVT1 27800		12.428 H DR P4 Syd 28000		12.188 V NRK31 Syd 28000			
12.303 V SVT1 Gävle 27800		12.428 H EKPRFS mp2 28000		12.188 V NRK32 Syd 28000			
12.303 V SVT1 Gävleådal 27800		12.428 H KISS 28000		12.188 V NRK33 Syd 28000			
12.303 V SVT1 Jämtland 27800		12.428 H NRK AN Reserve 28000		12.188 V NRK34 Syd 28000			
12.303 V SVT1 Jönköping 27800		12.428 H NRK P1 Reserve 28000		12.188 V NRK35 Syd 28000			
12.303 V SVT1 MittiNytt 27800		12.428 H NRK2 Reserve 28000		12.188 V NRK36 Syd 28000			
12.303 V SVT1 Nordnytt 27800		● 12.428 H Scandinavian Satelli 28000		12.188 V NRK37 Syd 28000			
12.303 V SVT1 SmlandNytt 27800		12.428 H Ylesat 1 28000		12.188 V NRK38 Syd 28000			
12.303 V SVT1 SydNytt 27800		12.428 H Ylesat 2 28000		12.188 V NRK39 Syd 28000			
12.303 V SVT1 Talande Textrem 27800		● 12.428 H INTERSAT 10-02 28000		12.188 V NRK40 Syd 28000			
12.303 V SVT1 TrävnNytt 27800		● 4.025 R BBC Afr Feed 1 7323		12.188 V NRK41 Syd 28000			
12.303 V SVT1 VästerbottenNytt 27800		● 4.025 R BBC Afr Feed 2 7323		12.188 V NRK42 Syd 28000			
12.303 V SVT1 VästNytt 27800		● 4.025 R BBC Afr Feed 3 7323		12.188 V NRK43 Syd 28000			
12.303 V SVT1 ÖstNytt 27800		● 4.025 R BBC Afr Feed 4 7323		12.188 V NRK44 Syd 28000			
12.303 V SVT2 27800		● 4.025 R BBC Afr Feed 5 7323		12.188 V NRK45 Syd 28000			
12.303 V SVT2 Gävle 27800		● 4.025 R BBC Afr Feed 6 7323		12.188 V NRK46 Syd 28000			
12.303 V SVT2 Jämtland 27800		● 4.025 R BBC Afr Feed 7 7323		12.188 V NRK47 Syd 28000			
12.303 V SVT2 Jönköping 27800		● 4.025 R BBC Arabic 7323		12.188 V NRK48 Syd 28000			
12.303 V SVT2 MittiNytt 27800		● 4.025 R BBC Dari 7323		12.188 V NRK49 Syd 28000			
12.303 V SVT2 Nordnytt 27800		● 4.025 R BBC English (E Af. 7323		12.188 V NRK50 Syd 28000			
12.303 V SVT2 SmlandNytt 27800		● 4.025 R BBC English (Europe) 7323		12.188 V NRK51 Syd 28000			
12.303 V SVT2 SydNytt 27800		● 4.025 R BBC English (W Af. 7323		12.188 V NRK52 Syd 28000			
12.303 V SVT2 Talande Textrem 27800		● 4.025 R BBC English Mid-Ea 7323		12.188 V NRK53 Syd 28000			
12.303 V SVT2 TrävnNytt 27800		● 4.025 R BBC English News 7323		12.188 V NRK54 Syd 28000			
12.303 V SVT2 VästerbottenNytt 27800		● 4.025 R BBC Farsi 7323		12.188 V NRK55 Syd 28000			
12.303 V SVT2 VästNytt 27800		● 4.025 R BBC French 7323		12.188 V NRK56 Syd 28000			
12.303 V SVT2 ÖstNytt 27800		● 4.025 R BBC Pashto 7323		12.188 V NRK57 Syd 28000			
12.322 H TV 2 Norge 27800		● 4.025 R BBC Portuguese 7323		12.188 V NRK58 Syd 28000			
12.322 H Alhazera English 27800		● 4.025 R BBC Swahili 7323		12.188 V NRK59 Syd 28000			
12.322 H JIM 27800		● 4.025 R BBC TV 28000		12.188 V NRK60 Syd 28000			
12.322 H Playhouse Disney 27800		4.175 R AFN Family 28000		12.188 V NRK61 Syd 28000			
12.322 H Rikstoto Direkte 27800		4.175 R AFN Freedom 28000		12.188 V NRK62 Syd 28000			
12.322 H Subtv 27800		4.175 R AFN News 28000		12.188 V NRK63 Syd 28000			
12.322 H TV Norge 27800		4.175 R AFN Prime Atlantic 28000		12.188 V NRK64 Syd 28000			
12.322 H P4 27800		4.175 R AFN Prime Pacific 28000		12.188 V NRK65 Syd 28000			
12.322 H Radio Oslo 27800		4.175 R AFN Prime 28000		12.188 V NRK66 Syd 28000			
● 12.399 H Nelonen HD 28000		4.175 R AFN Sports 28000		12.188 V NRK67 Syd 28000			
● 12.399 H Nautilus 28000		4.175 R AFN Xtra 28000		12.188 V NRK68 Syd 28000			
12.399 H ToGo-TV 28000		4.175 R Atlantic 2 28000		12.188 V NRK69 Syd 28000			
12.456 V Discov Science 28000		4.175 R Atlantic 3 28000		12.188 V NRK70 Syd 28000			
12.456 V Discov TralLiv 28000		4.175 R Atlantic 4 28000		12.188 V NRK71 Syd 28000			
12.456 V Discov World 28000		4.175 R Atlantic 5 28000		12.188 V NRK72 Syd 28000			
12.456 V Motors TV 28000		4.175 R Atlantic 6 28000		12.188 V NRK73 Syd 28000			
12.456 V Nick!(S)-Nick!CTS 28000		4.175 R Atlantic 7 28000		12.188 V NRK74 Syd 28000			
12.456 V Nick!(S)-VHVC TS 28000		4.175 R Atlantic 8 28000		12.188 V NRK75 Syd 28000			
12.456 V Nickelodeon 28000		4.175 R Engineering Channel 28000		12.188 V NRK76 Syd 28000			
12.456 V Nickelodeon (S) 28000		4.175 R Fox Sports Talk 28000		12.188 V NRK77 Syd 28000			
12.476 H Eurosport 27800		4.175 R HA AC 28000		12.188 V NRK78 Syd 28000			
12.476 H Eurosport 2 27800		4.175 R Interruptible Voice 28000		12.188 V NRK79 Syd 28000			
12.476 H TV-bijlet 1 27800		4.175 R Mainstream Country 28000		12.188 V NRK80 Syd 28000			
12.476 H TV-bijlet 2 27800		4.175 R NRK International 28000		12.188 V NRK81 Syd 28000			
12.476 H TV Guid 27800		4.175 R Oldies 28000		12.188 V NRK82 Syd 28000			
12.476 H TV Komedi 27800		4.175 R SMART Time Code 28000		12.188 V NRK83 Syd 28000			
12.476 H TV4 Science Fiction 27800		4.175 R The Pentagon Channel 28000		12.188 V NRK84 Syd 28000			
12.476 H SVT1 24500		4.175 R The Touch 28000		12.188 V NRK85 Syd 28000			
12.476 H SVT1 Gävle 24500		4.175 R UPI Sport NUovices 28000		12.188 V NRK86 Syd 28000			
12.476 H SVT1 Gävleådal 24500		4.175 R USA Sports 28000		12.188 V NRK87 Syd 28000			
12.476 H SVT1 Jämtland 24500		4.175 R Variabile Voice 28000		12.188 V NRK88 Syd 28000			
12.476 H SVT1 Jönköping 24500		4.175 R WDR 3 28000		12.188 V NRK89 Syd 28000			
12.476 H SVT1 MittiNytt 24500		4.175 R ESPN Plus 28000		12.188 V NRK90 Syd 28000			
12.476 H SVT1 Nordnytt 24500		12.188 H egypt tv net feed-1 21050		12.188 V NRK91 Syd 28000			
12.476 H SVT1 SmlandNytt 24500		● 4.180 H egypt tv net feed-2 21050		12.188 V NRK92 Syd 28000			
12.476 H SVT1 VästNytt 24500		4.180 H ElMarry 21050		12.188 V NRK93 Syd 28000			
12.476 H SVT1 ÖstNytt 24500		● 4.180 H ElMarry-USA 21050		12.188 V NRK94 Syd 28000			
12.476 H SV2 24500		4.180 H Monwa't 21050		12.188 V NRK95 Syd 28000			
12.476 H SV2 Gävle 24500		4.180 H Nite Drama 21050		12.188 V NRK96 Syd 28000			
12.476 H SV2 Gävleådal 24500		4.180 H Nite News 21050		12.188 V NRK97 Syd 28000			
12.476 H SV2 Jämtland 24500		4.180 H Nite TV Int 21050		12.188 V NRK98 Syd 28000			
12.476 H SV2 Jönköping 24500		3.855 R RTG 1 10000		12.188 V NRK99 Syd 28000			
12.476 H SV2 MittiNytt 24500		3.855 R RTG 2 10000		12.188 V NRK100 Syd 28000			
12.476 H SV2 Nordnytt 24500		3.855 R TV+ 10000					
12.476 H SV2 SmlandNytt 24500		3.917 R RTV 1777					
12.476 H SV2 SydNytt 24500		3.917 R NCVTV 1777					
12.476 H SV2 TrävnNytt 24500		3.917 R 1khZInfo 1777					
12.476 H SV2 VästerbottenNytt 24500		3.917 R CH7/OMULUNGA 1777					
12.476 H SV2 VästNytt 24500		3.917 R CH7/OWA 1777					
12.476 H SV2 ÖstNytt 24500		3.917 R ENERGY/WAVE 1777					
12.476 H SVT1 Talande Textrem 24500		3.917 R FREE 10 1777					
● 11.434 V KinoTV 24500		3.917 R FREE 8 1777					
● 11.434 V MTV 24500		3.917 R FREE 9 1777					
11.434 V Nelonen 24500		3.917 R GER/DOVA 1777					
11.434 V YLEFST 24500		3.917 R HER/DIN 1777					
11.434 V YLE Treema 24500		3.917 R KOSMOS/LV 1777					
11.434 V YLE TV1 24500		3.917 R KOSMOS/TV 1777					
11.434 V YLE TV2 24500		3.917 R OKUSTIWANA 1777					
11.434 V YLEMONDO 24500		3.917 R RAD99/KUDD 1777					
11.434 V YLE Puh 24500		3.917 R REM/W 1777					
11.434							

SatcoDX World Statistics



Alexandru Porosanu
TELE-satellite
Statistics Center
Romania

Top 60 Video PIDs Worldwide

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

Top 60 Audio PIDs Worldwide

Audio PID	Feb 2008	Jan 2009	Feb 2009	2009/2008
256	328	300	-8.54%	
1120	296	262	-11.49%	
4131	181	175	-3.31%	
100	163	171	4.91%	
660	163	154	-5.52%	
640	126	154	22.22%	
1220	183	152	-16.94%	
650	157	146	-7.01%	
80	142	133	-6.34%	
84	135	126	-6.67%	
1320	146	125	-14.38%	
34	144	118	-18.06%	
104	106	116	9.43%	
36	132	112	-15.15%	
88	116	112	-3.45%	
700	107	111	3.74%	
108	101	102	0.99%	
5923	98	102	4.08%	
102	105	101	-3.81%	
4195	123	99	-19.51%	
1420	114	99	-13.16%	
92	102	95	-6.86%	
680	104	94	-9.62%	
96	102	93	-8.82%	
670	155	92	-40.65%	
112	95	90	-5.26%	
4387	75	90	20.00%	
400	112	89	-20.54%	
202	78	88	12.82%	
6179	60	87	45.00%	
4643	77	87	12.99%	
641	83	84	1.20%	
258	88	84	-4.55%	
1620	89	81	-8.99%	
4899	68	81	19.12%	
402	78	79	1.28%	
116	82	78	-4.88%	
644	86	78	-9.30%	
5155	66	78	18.18%	
1520	88	77	-12.50%	
651	81	76	-7.32%	
690	70	75	7.14%	
302	70	75	7.14%	
5667	71	73	5.63%	
5411	65	73	12.31%	
652	60	72	20.00%	
642	61	70	14.75%	
502	53	70	32.08%	
6435	53	70	32.08%	
120	76	67	-11.84%	
664	68	66	-2.94%	
710	69	65	-5.80%	
668	45	64	42.22%	
6691	45	62	37.78%	
648	47	62	31.91%	
1720	64	62	-3.12%	
1920	71	60	-15.49%	

Transmission Types Worldwide

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

Transponder Polarization Worldwide

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

Top 100 Ku band Frequencies Worldwide

Frequency	Feb 2008	Jan 2009	Feb 2009	2009/2008
12.226	188	206	9.57%	
12.149	150	171	14.00%	
11.823	104	152	46.15%	
12.399	138	142	2.90%	
12.360	89	132	48.31%	
12.341	86	131	52.33%	
11.938	92	126	36.96%	
12.418	99	122	23.23%	
12.428	54	121	124.07%	
11.804	63	120	90.48%	
12.092	82	120	46.34%	
11.747	59	118	100.00%	
12.523	120	116	-3.33%	
12.643	92	113	22.83%	
12.303	127	107	-15.75%	
12.628	106	106	0.00%	
12.661	72	103	43.06%	
11.785	143	102	-28.67%	
11.766	80	101	26.25%	
12.355	93	100	7.53%	
12.265	17	100	488.24%	
12.407	98	97	-1.02%	
11.727	76	97	27.63%	
12.207	200	97	-51.50%	
12.253	61	96	57.38%	
11.470	53	96	81.13%	
12.574	132	96	-27.27%	
12.282	79	94	18.99%	
12.053	51	94	84.31%	
11.919	59	93	57.63%	
12.647	76	93	22.37%	
12.688	87	92	5.75%	
11.996	95	91	-4.21%	
11.843	95	91	-4.21%	
12.015	42	88	109.52%	
11.010	83	87	4.82%	
11.283	77	87	12.99%	
11.630	33	86	160.61%	
12.268	58	85	46.55%	
12.472	53	84	58.49%	
11.635	83	84	1.20%	
12.284	34	83	144.12%	
12.311	76	83	9.21%	
12.486	37	83	124.32%	
11.550	27	83	207.41%	
12.012	97	83	-14.43%	
12.370	63	80	26.98%	
12.302	34	80	135.29%	
12.545	59	80	35.59%	
12.516	56	80	42.86%	
11.130	15	79	426.67%	
12.130	32	78	143.75%	
12.726	19	78	310.53%	
12.322	92	77	-19.79%	
12.476	82	77	-6.10%	
12.604	181	75	-58.56%	
10.970	84	75	-10.71%	
11.170	58	74	27.59%	
12.723	34	74	117.65%	
12.224	65	74	13.85%	
12.729	19	74	289.47%	
12.034	42	73	73.81%	
12.608	15	72	380.00%	
12.169	70	71	1.43%	
12.380	93	70	-24.73%	
12.563	61	70	14.75%	
11.604	67	70	4.48%	
12.501	57	69	21.05%	
12.603	74	69	-6.76%	
12.414	99	69	-30.30%	
11.642	76	69	-9.21%	
11.596	25	68	172.00%	
11.862	55	68	23.64%	
12.443	64	66	3.12%	
11.954	53	66	24.53%	
12.519	63	66	4.76%	
12.565	65	66	1.54%	
12.607	45	65	44.44%	
12.581	49	65	32.65%	
11.617	65	64	-1.54%	
11.778	14	64	357.14%	
12.644	26	63	142.31%	
12.683	47	63	34.04%	
11.900	69	63	-8.70%	
10.972	64	62	-3.12%	
11.623	47	62	31.91%	
11.150	48	62	29.17%	
12.456	82	62	-24.39%	
11.075	40	61	52.50%	

Top 40 Symbol Rate Usage Worldwide

Symbol Rate	Feb 2008	Jan 2009	Feb 2009	2009/2008
27500	9849	8537	-13.32%	
30000	2292	2768	20.77%	
20000	1840	2310	25.54%	
22000	1350	1045	-22.59%	
28000	545	518	-4.95%	
28500	246	491	99.59%	
19510	459	456	-0.65%	
22500	316	434	37.34%	
21096	410	410	0.00%	
29270	276	286	3.62%	
27800	277	276	-0.36%	
28800	51	265	419.61%	
29950	206	217	5.34%	
24500	136	197	44.85%	
26000	153	189	23.53%	
27684	175	175	0.00%	
26470	128	108	-15.62%	
21300	54	106	96.30%	
28100	74	104	40.54%	
30800	106	104	-1.89%	
22425	124	102	-17.74%	
20600	81	96	18.52%	
26667	115	92	-20.00%	
3428	64	92	43.75%	
40700	22	90	309.09%	
33483	19	89	368.42%	
25000	48	89	85.42%	
27489	85	Inf	Inf	
26480	76	77	1.32%	
26652	29	74	155.17%	
25600	70	70	0.00%	
28125	94	67	-28.72%	
27690	87	62	-28.74%	
24440	55	61	10.91%	
26657	66	61	-7.58%	
27700	62	60	-3.23%	
5000	34	58	70.59%	
10000	50	57	14.00%	
28062	54	57	5.56%	

Top 80 C band Frequencies Worldwide

Frequency	Feb 2008	Jan 2009	Feb 2009	2009/2008
4.000	120	115	-4.17%	
4.060	193	103	-46.63%	
4.175	70	100	42.86%	
4.040	100	91	-9.00%	
4.080	78	86	10.26%	
4.180	47	80	70.21%	
4.120	71	80	12.68%	
4.100	55	64	16.36%	
4.140	54	64	18.52%	
4.020	68	61	-10.29%	
4.055	148	58	-60.81%	
4.160	51	57	11.76%	
4.025	23	48	108.70%	
4.071	2	34	1600.00%	
4.085	10	33	230.00%	
4.083	34	32	-5.88%	
4.106	29	29	0.00%	
4.042	9	23	155.56%	
4.067	22	22	0.00%	
4.151	16	20	25.00%	
4.004	20	20	0.00%	
4.043	19	17	-10.53%	
4.087	17	17	0.00%	
4.041	17	17	0.00%	
4.185	35	16	-54.29%	
4.005	19	16	-15.79%	
4.125	10	14	40.00%	
4.062	13	13	0.00%	
4.113	9	12	33.33%	
4.064	17	12	-29.41%	
4				



Edited by Alexander Wiese

20 Years Ago

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



... zeigt wie immer richtungweisende Technik

CHEYENNE™ INTERNATIONAL Satellite Receiver

The leading product from USA!

- Satellitenempfänger und Motorsteuerung in einem
- Alle Funktionen werden über die IR-Fernbedienung gesteuert
- Anzeige aller Daten auf dem TV-Schirm
- Fernsteuerbar aus allen Räumen
- Auto-Tune-Taste
- ZF-Bandbreite einstellbar auf 14, 20, 28 oder 36 MHz
- Hörfunkempfangstauglich (Subtrahierempfang)
- Komplett für 4, 11 und 12 GHz Empfang
- Lock IN/OUT Funktion

SUPER-rauscharmer HEMT-Konverter DSA 528 C

Technische Daten:
- Frequenz: 10,95 bis 11,7 GHz
- Bandbreite: 500 MHz
- Gewinn: 18 bis 20 dBm
- Rauschtemp.: 1 bis 2 dBm
- Typischer Nf: 1,2 bis 1,8 dB
- Rauschmaß: 3 bis 4 dB
- Temperatur: 0 bis +65°C

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Die neue Zeit bricht an: Mit Satellit und vollkommener Kommunikation. BEU-Receiver liefert Subtrahierempfangs-Geräte für empfindlicheren Empfang. Unterhaltung, Sport, Sie sind für und dank Sie mit auf der Welt. 50 Jahre!

Bewegung

Eine Vielzahl attraktiver Fernsehprogramme problemlos empfangbar!

KATHREIN Antennen + Electronic
KATHREIN-SatAn
Das Fernsehen hat Flügel bekommen. Mit KATHREIN-SatAn

Satelliten-Empfang

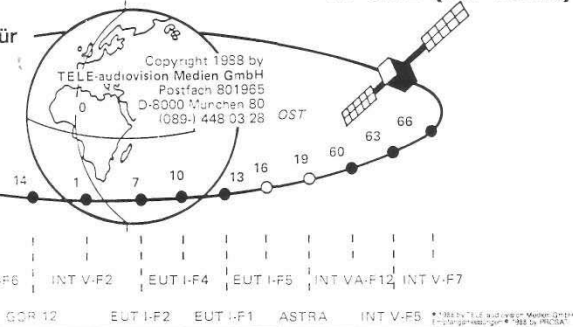
Nur in TELE-satellit: die aktuellsten, nachgeprüften Satelliten-Tabellen für Europa

Europas Satelliten

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

Stand: April 1988

11 GHz (Ku-Band)



Fernsehen über Satellit

Satellit	Position	Programme	Sendeland	Sprache	Frequenz	Polarisation	Beim	Bildformat	Videofmt.	Transm.	Standard	Empfang	Leistung	Zeiten	Bemerkungen
INTELSAT VA-F11	0 Grad	MTV Europe	USA/Griech.	englisch	10,98	Horz.	West	PAL/NEG	-	Mhz	-	Free	48	24	Videotext, Bildfassung Stereo, Sendeform
INTELSAT VA-F10	24,5 W	Tedesco	Italien	italien.	10,98	Vertikal	West	PAL/NEG	-	6,65	-	Free	46	-	... nur Testsendungen
		Tedesco	Italien	italien.	11,13	Vertikal	West	PAL/NEG	-	6,65	-	Free	46	-	... nur Testsendungen
		Tedesco	Italien	italien.	11,17	Vertikal	West	PAL/NEG	-	6,65	-	Free	46	-	... nur Testsendungen
		TELECOM	Spanien	spanisch	11,51	Horz.	West	PAL/NEG	-	6,65	-	Free	46	-	... nur Testsendungen
		NET 1	Neuseeland	englisch	11,51	Horz.	West	PAL/NEG	-	6,65	-	Free	46	-	... nur Testsendungen
		NET 2	Neuseeland	englisch	11,51	Horz.	West	PAL/NEG	-	6,65	-	Free	46	-	... nur Testsendungen
INTELSAT I-F4	10,0 Ost	Worland	USA	englisch	11,07	Vertikal	West	PAL/NEG	-	6,65	-	Free	46	-	Information
		Worland	USA	englisch	11,46	Vertikal	West	PAL/NEG	-	6,65	-	Free	46	-	Information
		SAT 1	BRD	deutsch	11,52	Vertikal	West	PAL/NEG	-	6,65	-	Free	46	-	Information

11 GHz (Ku-Band)

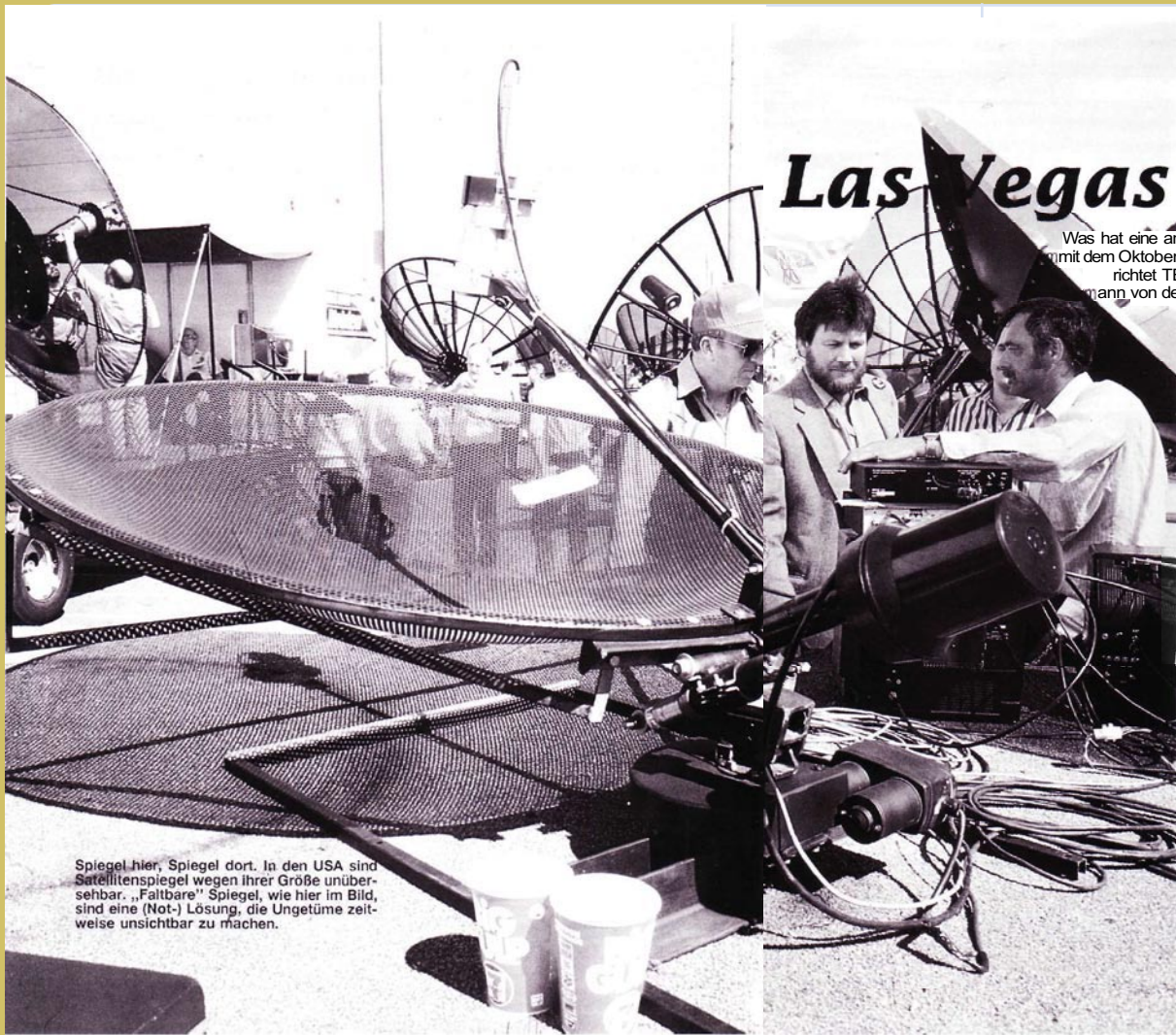
Satellit	Position	Programme	Sendeland	Sprache	Frequenz	Polarisation	Beim	Bildformat	Videofmt.	Transm.	Standard	Empfang	Leistung	Zeiten	Bemerkungen
INTELSAT VA-F12	80 Ost	3SAT	BRD	deutsch	10,97	Horz.	West	PAL/NEG	-	7,02 & 7,20	WEGENER-System	Free	46	24	Mono / Kurzwelle
INTELSAT VA-F5	83,0 Ost	Star	BRD	deutsch	11,07	Horz.	West	PAL/NEG	-	6,65	-	Free	46	24	Mono - Auslandsprogramme
		Wiel 3	BRD	deutsch	11,07	Horz.	West	PAL/NEG	-	6,65	-	Free	46	24	Mono - Auslandsprogramme
		Thales	BRD	deutsch	11,13	Horz.	West	PAL/NEG	-	6,65	-	Free	46	24	Mono - Auslandsprogramme
		BBC Werkspek	BRD	deutsch	11,17	Horz.	West	PAL/NEG	-	6,65	-	Free	46	24	Mono - Auslandsprogramme
		APN-TV	BRD	deutsch	11,51	Vertikal	West	PAL/NEG	-	6,65	-	Free	46	24	Mono - Auslandsprogramme
		Euro Plus	BRD	deutsch	11,51	Vertikal	West	PAL/NEG	-	6,65	-	Free	46	24	Mono - Auslandsprogramme
INTELSAT V-F7	86,0 Ost	IRIB Radio 1	Iran	pers.	10,99	Vertikal	West	PAL/NEG	-	6,65	-	Free	46	24	Testsendungen - DX
		IRIB Radio 2	Iran	pers.	11,15	Vertikal	West	PAL/NEG	-	6,65	-	Free	46	24	Testsendungen - DX
		ASTIS-E2	USA	englisch	11,57	Horz.	West	PAL/NEG	-	6,65	-	Free	46	24	Testsendungen - DX

Radio über Satellit

Satellit	Position	Programme	Sendeland	Sprache	Frequenz	Polarisation	Beim	Bildformat	Videofmt.	Transm.	Standard	Empfang	Leistung	Zeiten	Bemerkungen
INTELSAT VA-F11	0 Grad	BBC Werkspek	BRD	deutsch	11,18	Horz.	West	PAL/NEG	-	7,02	-	Free	48	24	Mono / Kurzwelle
INTELSAT V-F2	1 West	SAT 1	BRD	deutsch	11,52	Vertikal	West	PAL/NEG	-	6,65	-	Free	46	24	Mono - Auslandsprogramme
EUTELSAT I-F4	10,0 Ost	NRK P1	Neuseeland	norweg.	11,16	Vertikal	West	PAL/NEG	-	6,65	-	Free	46	24	Mono - Auslandsprogramme
		NRK P2	Neuseeland	norweg.	11,17	Vertikal	West	PAL/NEG	-	6,65	-	Free	46	24	Mono - Auslandsprogramme
		NRK P3	Neuseeland	norweg.	11,18	Vertikal	West	PAL/NEG	-	6,65	-	Free	46	24	Mono - Auslandsprogramme
		BBC Werkspek	BRD	deutsch	11,17	Horz.	West	PAL/NEG	-	6,65	-	Free	46	24	Mono - Auslandsprogramme
		Digital Music	BRD	deutsch	11,01	Horz.	West	PAL/NEG	-	6,65	-	Free	46	24	Mono - Auslandsprogramme
		Digital Text	BRD	deutsch	11,01	Horz.	West	PAL/NEG	-	6,65	-	Free	46	24	Mono - Auslandsprogramme

11 GHz (Ku-Band)

Satellit	Position	Programme	Sendeland	Sprache	Frequenz	Polarisation	Beim	Bildformat	Videofmt.	Transm.	Standard	Empfang	Leistung	Zeiten	Bemerkungen
INTELSAT VA-F12	80 Ost	3SAT	BRD	deutsch	10,97	Horz.	West	PAL/NEG	-	7,02 & 7,20	WEGENER-System	Free	46	24	Mono / Kurzwelle
INTELSAT VA-F7	86,0 Ost	IRIB Radio 1	Iran	pers.	10,99	Vertikal	West	PAL/NEG	-	6,65	-	Free	46	24	Testsendungen - DX
		IRIB Radio 2	Iran	pers.	11,15	Vertikal	West	PAL/NEG	-	6,65	-	Free	46	24	Testsendungen - DX
		ASTIS-E2	USA	englisch	11,57	Horz.	West	PAL/NEG	-	6,65	-	Free	46	24	Testsendungen - DX
		Star	BRD	deutsch	11,07	Horz.	West	PAL/NEG	-	6,65	-	Free	46	24	Mono - Auslandsprogramme
		Wiel 3	BRD	deutsch	11,07	Horz.	West	PAL/NEG	-	6,65	-	Free	46	24	Mono - Auslandsprogramme
		Thales	BRD	deutsch	11,13	Horz.	West	PAL/NEG	-	6,65	-	Free	46	24	Mono - Auslandsprogramme



USAT

Las Vegas 1988

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

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

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



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

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

Desolate Verkaufslage des US Marktes

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

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

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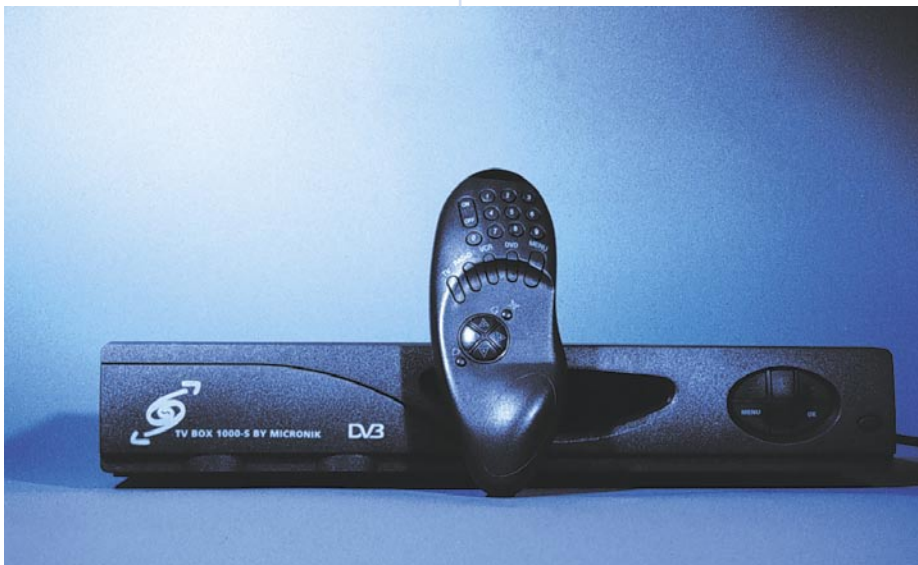
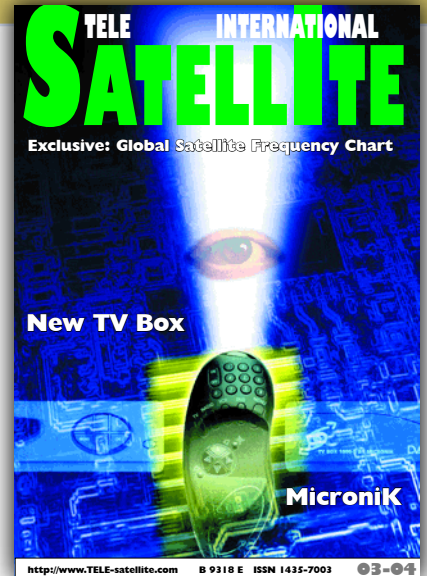
Edited by
Alexander Wiese

Mikronik TV-Box 1000-S

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

10 Years Ago

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



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

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

Telecontrol's i-Box

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





FSM 204 SAT-TV Spektrum-Analyser

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

Antennas in Poltava

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



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

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

Echostar & S.C.I.

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



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

SCI

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

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

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

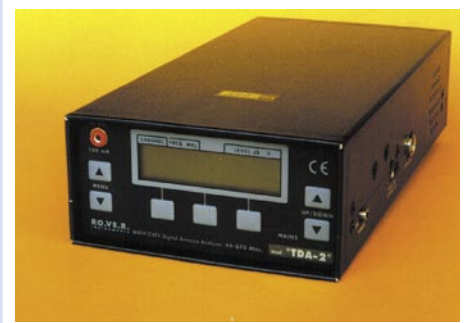


Sagem ISD 3100

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

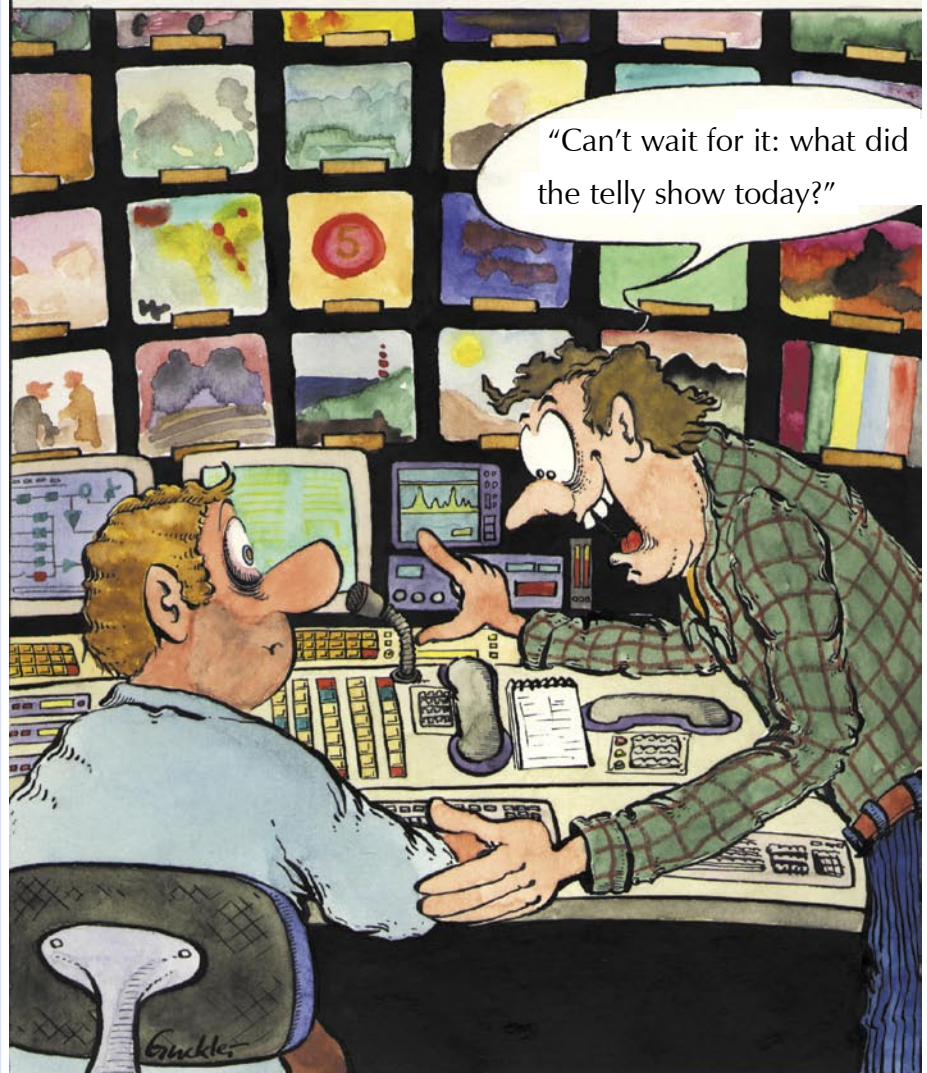
Measuring analog and digital, now and in the future

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



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

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



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