MAN
世界上发行量最大的卫星业界杂志
207
11-12 2008
TELE SATELLITE & BROADBAND

国际卫星电视与宽带

测试报告
Sonicview
SV-360 Elite PVR
使用便捷的PVR 接收机

测试报告
INFOSAT V055
Primary Focus Dish
轻盈的C波段天线

关于公司的报道
40 载的Spaun
高品质的配件制造商

发烧友的报道
接收试验
在20 GHz探索Ka波段的秘密

测试报告

TOPFIELD®

TF7700HSCI - 典雅的HDTV 接收机

TELE SATELLITE AWARD & BROADBAND 10-11/2008

TOPFIELD®
LEADER OF MULTIMEDIA HOME

See HD! Record HD!

HD PVR

TF7700HDPVR

Test winner

TELE SATELLITE AWARD & BROADBAND 02-03/200 8
TOPFIELD TF7700 HDPVR
Fully capable twin receiver with proven HDTV technology and outstanding picture quality.

DIGITAL fernsehen
1.2008
sehr gut
TOPFIELD TF7700HDPVR
www.digitalfernsehen.de

PREIS-/LEISTUNGSSIEGER
SATVISION
Topfield – TF7700HDPVR
GUT 83,5 %
3 HDTV-Receiver im Vergleich
Heft 01/2008

HD TV
Topfield 7700 HDPVR
SEHR GUT
AUSGABE 1.2008

DivX & mp3 Supported
HDMI Audio & Video output

- DVB-S and DVB-S2 Fully compliant
- Comfortable USB port on the front panel
- Dolby downmix & bitstream output
- Software auto update through internet
- 750GB HDD at maximum supported

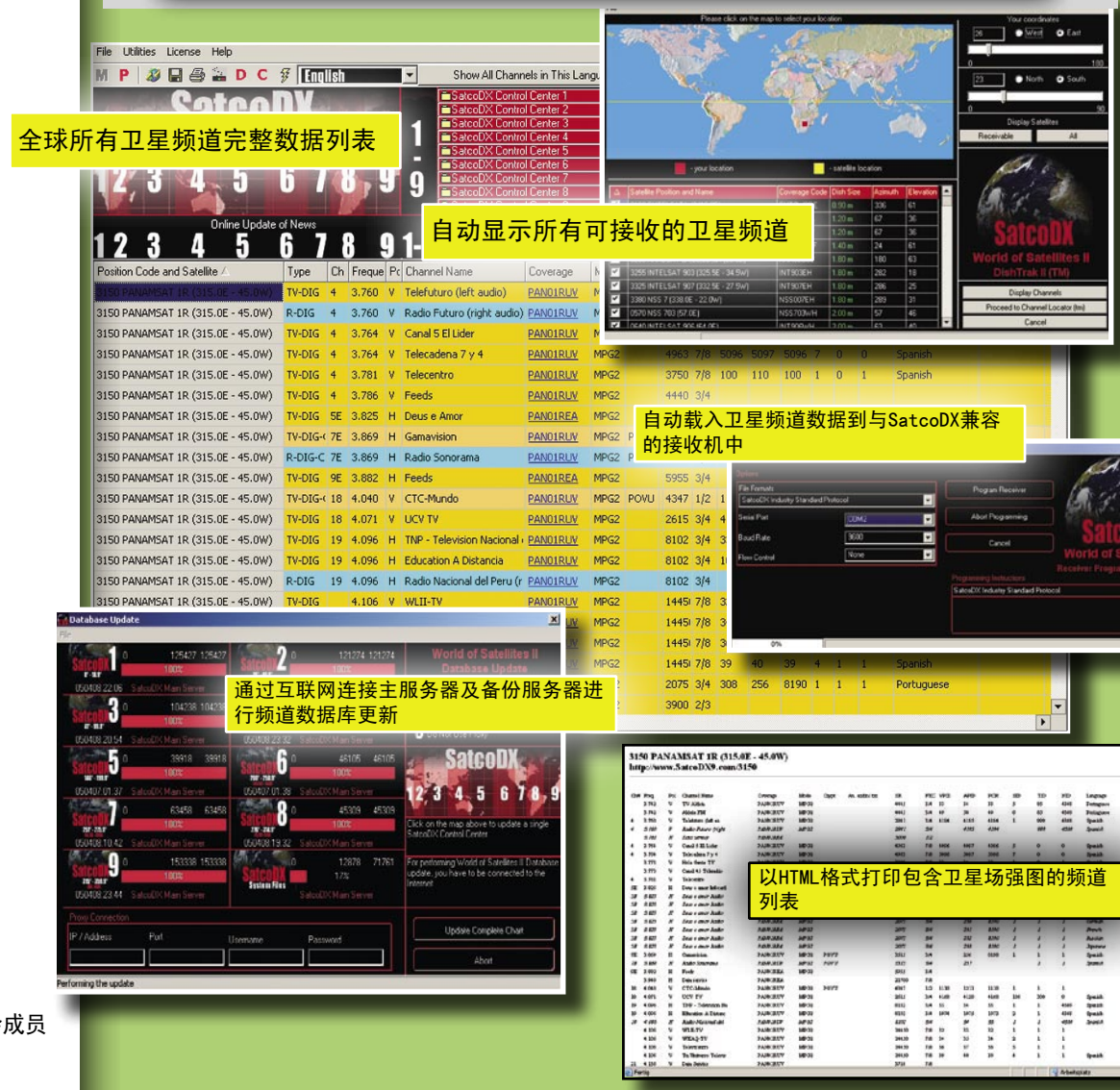
WWW.**i-topfield**.com

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

从这里下载SatcoDX软件:
www.TELE-satellite.com/cd/0812/man



地址:
国际卫星电视
1234邮箱
85766 慕尼黑 Ufg
德国 欧盟

主编:
亚历山大.维思
alex@TELE-satellite.com

出版:
TELE-satellite Medien GmbH
德国/欧盟

设计/制作
国际卫星电视匈牙利公司
耐曼提.巴拿.阿泰拉
匈牙利/欧盟

国际广告
亚历山大.维思
alex@TELE-satellite.com

版权所有©
国际卫星电视 2008

www.TELE-satellite.com/man

国际出版物发行协会成员

Read TELE-satellite Magazine online:
http://magazine.tele-satellite.com/TELE-satellite-0811-eng.pdf

Lesen Sie TELE-satellit Magazin online:
http://magazine.tele-satellite.com/TELE-satellite-0811-deu.pdf

Read This Issue Online

Arabic العربية
http://magazine.tele-satellite.com/TELE-satellite-0811-ara.pdf

Indonesian Bahasa Indonesia
http://magazine.tele-satellite.com/TELE-satellite-0811-bid.pdf

Bulgarian Български
http://magazine.tele-satellite.com/TELE-satellite-0811-bul.pdf

Czech Česky
http://magazine.tele-satellite.com/TELE-satellite-0811-ces.pdf

German Deutsch
http://magazine.tele-satellite.com/TELE-satellite-0811-deu.pdf

English
http://magazine.tele-satellite.com/TELE-satellite-0811-eng.pdf

Spanish Español
http://magazine.tele-satellite.com/TELE-satellite-0811-esp.pdf

Farsi فارسي
http://magazine.tele-satellite.com/TELE-satellite-0811-far.pdf

French Français
http://magazine.tele-satellite.com/TELE-satellite-0811-fra.pdf

Greek Ελληνικά
http://magazine.tele-satellite.com/TELE-satellite-0811-hel.pdf

Croatian Hrvatski
http://magazine.tele-satellite.com/TELE-satellite-0811-hrv.pdf

Italian Italiano
http://magazine.tele-satellite.com/TELE-satellite-0811-ita.pdf

Hungarian Magyar
http://magazine.tele-satellite.com/TELE-satellite-0811-mag.pdf

Chinese 中文
http://magazine.tele-satellite.com/TELE-satellite-0811-man.pdf

Dutch Nederlands
http://magazine.tele-satellite.com/TELE-satellite-0811-ned.pdf

Polish Polski
http://magazine.tele-satellite.com/TELE-satellite-0811-pol.pdf

Portuguese Português
http://magazine.tele-satellite.com/TELE-satellite-0811-por.pdf

Romanian Românesc
http://magazine.tele-satellite.com/TELE-satellite-0811-rom.pdf

Russian Русский
http://magazine.tele-satellite.com/TELE-satellite-08011-rus.pdf

Swedish Svenska
http://magazine.tele-satellite.com/TELE-satellite-0811-sve.pdf

Turkish Türkçe
http://magazine.tele-satellite.com/TELE-satellite-0811-tur.pdf

Available online starting from 26 September 2008

اقرأ مجلة تيلي ستلايت مباشر
http://magazine.tele-satellite.com/TELE-satellite-0809-ara.pdf

Baca Majalah TELE-satelit online
http://magazine.tele-satellite.com/TELE-satellite-0809-bid.pdf

Přečtete si magazín TELE-satelit online:
http://magazine.tele-satellite.com/TELE-satellite-0809-ces.pdf

Lesen Sie TELE-satellit online:
http://magazine.tele-satellite.com/TELE-satellite-0809-deu.pdf

Read TELE-satellite Magazine online:
http://magazine.tele-satellite.com/TELE-satellite-0809-eng.pdf

Lea La Revista TELE-satélite en Linea:
http://magazine.tele-satellite.com/TELE-satellite-0809-esp.pdf

مجله تله ستلایت اینترنشنال را آن لاین مطالعه کنید
http://magazine.tele-satellite.com/TELE-satellite-0809-far.pdf

Téléchargez revue TELE-satellite entière sur notre serveur:
http://magazine.tele-satellite.com/TELE-satellite-0809-fra.pdf

Διαβάστε online το Περιοδικό TELE-satellite Διεθνές:
http://magazine.tele-satellite.com/TELE-satellite-0809-hel.pdf

Čitajte međunarodni časopis TELE-satelit na Internetu:
http://magazine.tele-satellite.com/TELE-satellite-0809-hrv.pdf

Leggete Online la rivista TELE-satellite:
http://magazine.tele-satellite.com/TELE-satellite-0809-ita.pdf

Olvassa a TELE-satellite magazint Internet cimünkön:
http://magazine.tele-satellite.com/TELE-satellite-0809-mag.pdf

在线阅读《国际卫星电视
http://magazine.tele-satellite.com/TELE-satellite-0809-man.pdf

Lees TELE-satelliet Magazine online:
http://magazine.tele-satellite.com/TELE-satellite-0809-ned.pdf

Czytaj TELE-satelitę Magazyn w wersji on-line :
http://magazine.tele-satellite.com/TELE-satellite-0809-pol.pdf

Ler Revista TELE-satélite online:
http://magazine.tele-satellite.com/TELE-satellite-0809-por.pdf

Citiți revista TELE-satelit online:
http://magazine.tele-satellite.com/TELE-satellite-0809-rom.pdf

Читайте журнал ТЕЛЕ-сателлайт он-лайн:
http://magazine.tele-satellite.com/TELE-satellite-0809-rus.pdf

Läs TELE-satellit online:
http://magazine.tele-satellite.com/TELE-satellite-0809-sve.pdf

Uluslararası TELE-satellite Dergisi'ni online okuyun:
http://magazine.tele-satellite.com/TELE-satellite-0809-tur.pdf

Technomate

TM-5000 Series
with USB PVR & Component

92%
"What Satellite"
Jan 08

- 10,000 Channel Memory
- Component (YPbPr) Output
- Very Fast & Detailed Blind Search
- USB 2.0 for Software Download/Upload, MP3 & JPEG Playback
- Record/Playback FTA Channels by USB
- Super Sensitive Tuner

TM-5200 D USB
Free-To-Air Satellite Receiver

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

TM-5400 CI+ USB
Card Reader + Common Interface

TM-5600 CI USB
Common Interface Slot

TM-6000 Series
High Definition USB PVR

- 10,000 Channels
- Record Scrambled/FTA Channels by USB
- USB 2.0 for Software Download/Upload, MP3 & JPEG Playback
- MPEG-4 & H.264 (1080i/720p/576p/576i)
- 1 Smart Card Reader & 2 CI

TM-6800 HD
DVB-S/S2 Satellite

TM-6900 HD COMBO
DVB-S/S2 Satellite & DVB-T Terrestrial

TM-3000 Series

TM-3500 D+ USB:

- 6,000 Channels • Timeshift
- Built-in Smart Card Reader
- Record Scrambled/FTA Channels by USB
- Record 1 Channel and watch another at the same time! (on same TP)

TM-3100 D
Free-To-Air Satellite Receiver

TM-3200 D+
Built-in Smart Card Reader

TM-3300 2CA
2 Card Readers

TM-3400 CI+
Card Reader + Common Interface

Technomate Europe
Zi De Vunt 4, 3220 Holsbeek, Belgium
Tel: +32(0)16/40.80.47
www.technomate.com

http://www.epivalley.com

Be DIVX

NOVA 3000

USB PVR with DivX

PVR ready via USB for external HDD & SD memory card
Game from the web available
DivX file play available
Music & Photo store and play available
MPEG-2 DVB compliant
Video decoding : MPEG-2 MP@ML
Audio decoding : MPEG Layer I & II
SCARTS, S/PDIF, S-VHS, RCA output

EpiValley

• The Head Office : #321, GongDan-Dong, GuMi-City, KyeongSangBuk-Do, Korea • TEL : 82-31-714-0038 • FAX : 82-31-714-9888 • EMAIL : hsyou@epivalley.com
• Communication & Broadcasting Div.: #411 Lordland EZ Tower, 153, Gumi-Dong, Bundang-Gu, SungNam-City, KyoungKi-Do, Korea

内容

TOPFIELD TF7700HSCI
Digital Satellite Receiver for SDTV/HDTV in DVBS and DVBS2 28

INFOSAT V055 PRIMARY FOCUS DISH
1.65 m Primary Focus Dish 34

IMPERIAL SATBOX HD
A perfect HDTV Receiver.....42

SONICVIEW SV-360 ELITE PVR
Easy To Use PVR Receiver.....46

VENUS NEW MILLENNIUM II-EP
Receiver for big motorized dishes 52

Media: Satellite & Broadband News 16
Feature:
Matching LNBF and Dish Type.....24
AWARD Winning
Satellite Receiver Guide 56
Company Report:
40 Years Spaun, Germany 58
Company Report:
Clark Electronics, Holland 70
Company Report: Teleippica, Italy 72
Company Report:
Square Plan, South Africa 76
Satellite Reception:
Satellite Reception in a Train 78
Channel Report: Fashion TV.....80
SatcoDX Suite CD-ROM 82
Practice Tip: Topfield Software 84
DX-er Report:
First Steps in the Ka Band 86

亲爱的读者们

对于《国际卫星电视》的订户来说，将首次和杂志一起收到‘SatcoDX 套装软件’的CD-ROM 。这是一套内容与SatcoDX卫星图表一样的软件，在你的计算机里面装载上全部的 SatcoDX 数据库，通过于‘ SatcoDX 更新者’，每隔一个小时更新一次。一些‘SatcoDX 套装软件’订阅客户直接安装了这个数据库，而其他人则通过手动输入数据。

所有‘SatcoDX 套装软件’的订户都喜欢这个 SatcoDX 数据库。手动更新数据库对于该软件固然很有价值的，但当你对旧卫星目录进行更新或从各处找寻最新目录的时候，时间很快就过去了。该软件每隔一小时就更新一次,而其他的卫星图表则没有，这就是说 SatcoDX 的图表始终保持着最新的状态。

‘SatcoDX 套装软件’的一项特别功能是拥有‘ SatcoDX全部转发器.csv’文件。在这个文件的目录里包含所有的卫星及其转发器信息，这样，它就成为卫星接收机最理想的基础数据文件。这个文件不仅每个小时进行更新，而且它还包含 TID(转发器识别码) 和 NID(网络识别码) PID ，当然还有 DVB-S 和 DVB-S2 的调制标准。使用这些信息，数据文件就很容易定义成接收机数据库。当然，‘ SatcoDX更新者’ 也提供csv 、xml 或 sdx 格式的卫星图表。

诚然， 并不是SatcoDX 卫星图表的所有内容都尽善尽美，但是任何问题都会在最短的时间里得到解决。如果想要让SatcoDX更好、更准，而你也拥有自己的接收设备，就去 www.SatcoDX.com/autoscan 了解更多的信息吧。

如果有兴趣，就请试试‘套装’软件，下一期杂志会提供下个版本。当然，还会包括SatcoDX的“卫星世界”CD-ROM，请参看第 114 页上的预览。

您的
亚历山大•维思

附注： 我本月喜爱的广播电台是伦敦的‘亚洲俱乐部’， (28.5 °E 上EUROBIRD 1 卫星的11.222MHz) ，播放着印度和巴基斯坦流行音乐的排行榜节目。我真的很喜欢他们押着韵脚、伴着一流的印度流行音乐演唱道；‘在你第一次听到它的地方’。

Country Report:
Satellite Reception in India 90
Media: VSAT News.....98
New Satellites 102
DX-er Report:
Feedhunter Rini.....106
History: 10 Years Ago 110
History: 20 Years Ago 112

广告

ABCOM 39
ANTECH.....99
ARION.....13
AZURE SHINE.....95
CARDSPLITTER 67
CSTB-2009 26
DISHPOINTER..... 105
DISHSTONE.....51
DIZIPIA 115
DOEBIS 14-15
EEBC-2008 40
ECHOLINK..... 103
EPIVALLEY 11
EURASIA-2008.....69
GT-SAT INTERNATIONAL.....27
HORIZON 63
IBC-2008..... 107
INFOSAT..... 49, 61
JIUZHOU 116
KATHREIN 20
MFC 101
MOTECK 103
MTI 95
NANOXX.....23
OPENBOX 65
OPENSAT.....21
PASAT ANTENY.....69
PROMAX.....33
REMOTEMAN 100
SATCATCHER 97
SEATEL.....67
SG LAB 105
SMARTWI.....19
SONICVIEW 87
SPAUN.....17, 41
SUBUR SEMESTA 79
TEHNIK B 97
TECHNOMATE 10
TEVII 37
TOPFIELD..... 2
TRIMAX.....22

12-16 September, 2008
Rai Amsterdam, the Netherlands
Hall 12E / Booth No. A31

Who makes HD quality?

Pure & Vivid HD picture / Stylish wide body (430mm) with VFD front panel display / Supporting 2 CAMs of DVB Common Interface Standard / Various Video Display Format With PAL/NTSC/576p/720p/1080i 50Hz/60Hz Support / HDMI Digital Audio & Video Output / Easy and Fast Auto Programming, Intuitive User Interface / Supports RS-232C port for S/W upgrade

ARION TECHNOLOGY
Good Choice Better Life!
www.arion.co.kr/global

High Definition Digital Satellite Receiver
ARION AF-4000HDCI

conax NAGRAVISION irdeto USB openTV CANAL DIGITAAL HDMI macrovision

ARION Technology Inc. Tel +82-31-361-3000 / Fax +82-31-361-3099 / e-mail info@arion.co.kr

DOEBIS

Kompetenz in Satellitentechnik

JAEGER HUMAX TOPFIELD SMW SWEDISH MICROWAVE AB emitor S2 SPAUN

NEW TECHNOLOGIES – NOW ON STOCK

We are official HUMAX distributor

HDTV Receiver Selection

HUMAX

PR-HD 1000 / PR-HD 1000 C

HDTV for satellite and cable reception

- Suitable for Premiere and Premiere HD
- MPEG4 / MPEG2 Technology
- opt. out for Dolby Surround Sound
- Nagravision embedded
- HDMI (with HDCP)
- 2 x CI SLots
- 2 x Scart

HUMAX

iCORD

Twin HDTV PVR Reciever

- Recording 4 channels whilst watching a live tv or Play-back
- Time shifted recording for 2 hours
- Integrated 160, 320 or 500 GB HDD
- 1080i, 720p, 576p, 576i video resolution
- Audio decoding: Dolby AC-3 (Dolby Digital)
- AV File transfer by USB 2.0 port
- 2 Common Interfaces
- HDMI output

TOPFIELD

TF-7700 HD PVR

HDTV Digital Satellite Receiver with Personal Video Recorder

- Fully DVB-S / DVB-S2 (H.264) HD compliant
- With 2 tuners
- Time shift supported
- Dual Recording supported
- DivX codec embedded
- 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

TOPFIELD

TF 6500T HDMI **NEW**

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

HUMAX F3 FOX CI

UNICABLE TECHNOLOGY

Digital Satellite Receiver with CI Slot

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

Measuring Instruments

emitor

MEGALOOK

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

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

ALSO AVAILABLE:

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

DIGISAT PRO ACCU

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

AlSO AVAILABLE:

- **Digisat**
- **Digisat+**
- **Digisat Pro**
- **Digisat Multi**

DIGIAIR dB

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

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

Satlook Micro G2 **NEW**

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

ALSO AVAILABLE: **NEW**

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 **NEW**

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

DOEBIS GmbH & Co. KG

Dr.-Günter-Henle-Str.4
D-56271 Mündersbach

Fon: +49-(0)26 80 98 79- 0
Fax: +49-(0)26 80 98 79- 19

Email: info@doebis.de
Web: www.doebis.de

Türkçe konusan personele sahibiz !

Мы говорим и даём консультации на русском языке!

ALPS · GIBERTINI · PREMIERE · Inverto · MICROELECTRONICS TECHNOLOGY INC. · Stab

NETWORK streaming clients

ELANVISION EV-8000S

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

and many more features

TOPFIELD

TF-6000 PVR ES/WS

Digital Satellit PVR with HDMI

- Wireless LAN with Fully DVB-S compliant
- Two tuners with Dual Decoding (PIP)
- HDMI Video/Audio Output
- Integrated 160, 320 or 500 GB HDD
- 5000 TV & radio services 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

Motors

Aktuatoren/ Actuators

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

H-H Mounts

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

LNBs

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

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

MAXIMUM®

V-Series

AVAILABLE AS:

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

Full LNB range MAXIMUM available from stock

Multiswitches / DiSEqC - Switches

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

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

S2 SPAUN™ Full Range

Parts

Multifeedholder 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

BIG Link

Koaxialcable

High Qualitiy 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

} • 40 mm • 0,2 dB

Full LNB range MTI available from stock

Inverto digital-labs NEW

IDLP UST110-CUO10-8PP

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

UNICABLE TECHNOLOGY

Dishes

GIBERTINI · TRIAX · emme esse MULTIMEDIA SYSTEM

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

IRTE

Flat-Dishes NEW

SELFSAT H 10 D

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

MAXIMUM Flat-1

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

Multifocus Dish

MAXIMUM®

E-85 Multifocus 48° Dish

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

Balcony mounting parts

25 cm distance – Steel
50 cm distance – Steel

120 cm length – Ø 6 cm

ALSO AVAILABLE:

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

More products and informations you`ll find on our website www.doebis.de

Edited by
Branislav Pekic

EUROPE

EUROPE

20 PERCENT OF EUROPEAN HOMES WITH HD BY 2012

New research from media analyst Screen Digest suggests that by 2012, only 20% of all European households with high definition (HD) displays will actually be watching in HD. By the end of last year 18% of the 165 million European TV households were equipped with HD displays, although less than 1% of these were fully HD-enabled (equipped with an HD set-top box and an HD subscription enabling them to watch HD broadcasts). The report identifies three "critical success factors" necessary for the technology to really take off in the region: penetration of HD displays, supply of HD content and the availability of HD broadcast platforms.

WORLDSPACE PARTNERS WITH STM FOR DIGITAL RADIO

STMicroelectronics has signed an agreement with WorldSpace Satellite Radio to develop, manufacture and distribute chips for European Satellite Digital Radio (ESDR) receivers planned for a WorldSpace pan-European and Middle East service offering, starting with Italy in 2009. The agreement between WorldSpace and ST is expected to lead to the first fully integrated device for channel decoding in ESDR receivers. ESDR technology enables WorldSpace to employ a hybrid satellite-terrestrial network.

AUSTRIA

TELEKOM AUSTRIA PASSES 50.000 AONTV SUBSCRIBERS

Telekom Austria has now reached 50.000 customers for its "AonTV" IPTV service. The operator is offering a basic package on AonTV for free for six months to subscribers who sign up before the end of September, as well as the set-top box for a discounted price of EUR 29.90.

BALTICS

BALTICS EYE IPTV GROWTH

The Baltic countries will enjoy significant growth in development of IPTV over the next five years, says a report released by industry analysts Screen Digest. According to the report, Estonia is set to lead the growth, as its Baltica DigiTV, which already occupies a significant proportion of the local pay TV market, is expected to reach 20% of Estonia's households by 2012.

VIGINTA OPTS FOR WIDEVINE CYPHER PROTECTION

Lithuanian telecommunications services provider Viginta has selected downloadable content protection from Widevine to secure content delivered over DTT, hybrid QAM (cable) and IPTV networks. Widevine Cypher will be used to manage the delivery of broadcast and video on demand content over its multiple networks delivery systems, which include MMDS, fibre rich Metro Ethernet and Hybrid Fibre Coaxial networks, to a range of consumer devices.

TEO ARRIVES TO 28.000 IPTV SUBSCRIBERS

Lithuanian operator TEO has released its results for the first half of this year and states that it now has 28.000 subscribers for its IPTV service, up from 25.000 at the end of the first quarter of 2008.

BELARUS

BELTELECOM LAUNCHES IPTV SERVICE IN MINSK

Beltelecom has launched an IPTV service in Minsk and the new service will be deployed in other parts of the Republic from this autumn. General Director, Kanstantsin Tsikar, said that Beltelecom plans to charge a one-off payment of BYR 30.000 (USD 14) for IPTV subscribers, plus a monthly rental of BYR40.000. Beltelecom's IPTV offering currently carries 20 TV channels.

CZECH REPUBLIC

O2 ARRIVES CLOSE TO 100.000 IPTV SUBSCRIBERS

Telefónica O2 reached 98.000 subscribers for its O2 TV IPTV service by the end of the first half of this year, up from 87.173 at the end of March. Revenues from broadband-based services (ADSL, IPTV and content) rose 13.9% in the first half of this year relative to the same period of last year to reach CZK2 billion (USD133.5 million).

FRANCE

HD LICENSES AWARDED

French regulatory body Conseil Supérieur de l'Audiovisuel (CSA) has allocated an HDTV channel licence to Canal+ its pay-TV offering on DTT. CSA previously awarded free-to-air HD licences to TF1, M6, France 2 and Arte. Canal+ was the only payTV channel to apply for the HDTV licence.

FRANCE TELECOM IPTV SUBSCRIBERS UP 76%

France Telecom had a total of 1.54 million IPTV subscribers in Europe by the end of the first half of 2008, up 76% from 872.000 one year previously. The operator had 1.389 million IPTV subscribers in France alone, an increase of 65.9% by the same comparison.

GERMANY

DEUTSCHE TELEKOM SIGNS IPTV DEAL WITH MTV

Deutsche Telekom has signed a deal with MTV Networks Germany to offer the latter's content in the VOD library of the operator's IPTV service T-Home Entertain. Programmes cost EUR 0.99 for a 24-hour rental. T-Home Entertain customers will have unlimited access to all available content from Nickelodeon with a subscription to the 'Kids Selection' package, costing EUR 4.99 per month.

LIECHTENSTEIN

ERICSSON TO UPDATE TELECOM LIECHTENSTEIN'S NETWORK

Ericsson has signed an agreement with Telecom Liechtenstein to upgrade and expand their ADSL network with the new VDSL2 technology. VDSL2, based on Ericsson's advanced EDA1200 product, enables Telecom Liechtenstein wide deployment of multiplay services e.g. voice, video and data as well as HDTV, IPTV, Video on Demand, high speed Internet access and interactive gaming. Network deployment and integration has already started.

POLAND

TP TO LAUNCH ORANGE TV SERVICE

Poland will be the next country to get an Orange TV service under plans unveiled by Telekomunikacja Polska (TP), majority-owned by France Telecom. TP, which already operates the Orange mobile network in Poland, has now acquired rights to extend its usage of the brand across TV, internet access and other activities. TP said it would roll out the service in Poland within the next 12 months.

PORTUGAL

MEO IPTV SERVICE REACHES 100.000 SUBSCRIBERS

Portugal Telecom said its new Meo IPTV and satellite pay-TV service has reached 100.000 subscribers since its launch in April. The operator said Meo subscribers account for 15 per cent of its ADSL clients, adding that net subscriber additions in the second quarter have totalled over 53.000.

ROMANIA

ROMTELECOM TO LAUNCH IPTV TRIAL

RomTelecom will begin IPTV trials later this year, according to its TV business manager Miroslaw Smyk. The Romanian incumbent already offers pay-TV via a DTH platform with more than 500.000 subscribers.

RUSSIA

SISTEMA CHOOSES NDS FOR IPTV AND MOBILE TV

Sistema Mass Media (SMM) has selected the NDS Unified Headend to manage and protect TV content delivery to subscribers across both IP and mobile networks. The NDS Unified Headend integrates CA, DRM and third party applications, allowing operators to deliver secure broadcast and VOD services to a variety of devices - set-top boxes, mobile phones, PCs, Portable Media Players and digital video recorders.

SCANDINAVIA

VERIMATRIX SECURES TELIASONERA'S IPTV SERVICE

TeliaSonera has deployed the Verimatrix Video Content Authority System (VCAS) for the tier one telecommunications operator's successful IPTV services in the Nordic region, Estonia and Lithuania. Telia Digital-TV, which was one of the first IPTV services in Europe to launch in 2005, offers subscribers 70 channels such as Discovery and the Disney Channel and a 24-hour on-demand library of movies.

TELIASONERA ARRIVES TO 430.000 IPTV SUBSCRIBERS

TeliaSonera reached nearly 430,000 subscribers for its IPTV service across all markets by the end of the second quarter of this year, with total pay-TV customers including cable and satellite operations reaching a total of 816,000. The telco had 320,000 IPTV subscribers in Sweden alone by the end of the second quarter of this year, adding just 2,000 in the period, this gives a year on year increase of a respectable 162,000 customers. The number of IPTV subscribers in Norway alone doubled to 8,000 between April and June, while in Lithuania the figure rose by 10,000 to reach 35,000, and in Estonia the company added 4,000 subscribers to reach 64,000.

THOMSON TEAMS UP WITH TELENOR FOR IPTV DEPLOYMENT

Telenor has selected Thomson to provide services and hardware to assist it to deploy IPTV services in Norway, Sweden and Denmark. Thomson will providing Telenor with its SmartVision video services platform, which incorporates middleware, video on demand (VoD) servers and two ranges of IP set top boxes (the DBI2210 and the DBI8500 with integrated hard drive for personal video

recording). Additionally, Thomson is integrating a conditional access content protection application from Conax.

SLOVENIA

TELEKOM SLOVENIJE IPTV MARKET LEADER

Telekom Slovenije has seen its share of the national IPTV market fall by three percentage points year on year in the first quarter of 2008 to reach 60.4%, according to a report by the Agency for Post and Electronic Communications (APEK). Alternative operator T2 followed in second place with a gain of just under 1% to reach a 36.3% share of Slovenia's IPTV market, with Amis and Tus Telekom accounting for the remainder.

SPAIN

GREEN LIGHT FOR HISPASAT TAKEOVER

Several Spanish companies including Abertis won permission from the European Commission for a joint venture to control Spanish satellite operator Hispasat. The companies involved, besides Abertis, include SEPI, CDTI, and INTA. Although the Commission said the deal had raised questions about vertical overlaps because Abertis ran terrestrial transmitters for TV stations and also bought satellite capacity, it decided to authorise the deal.

SWITZERLAND

NETSTREAM SELECTS ENTONE FOR IPTV DEPLOYMENT

Swiss ISP Netstream has selected customer premises equipment from US firm Entone for its high-definition IPTV service deployments in the country. Netstream is a provider of managed services and systems integration to a number of operators in Switzerland, and selected Entone's Hydra HD IPTV video gateway and Amulet HD IPTV receiver for the service deployments.

TURKEY

TURKEY PREPARES TWO NEW SATELLITES

Having successfully launched Turksat 3A in June, Turksat is preparing to launch two others, Turksat 4A and 5A. The Turkish satellite operator will decide on the features of Turksat 4A in August and launch it in 2011. Turksat 4A will offer broadcasting services covering the Middle East, Central Asia, South Asia and Africa. Work on 5A will begin in Turkey and will be completely done by Turkish engineers, with plans for a launch in 2013 or 2014.

UNITED KINGDOM

BBC LAUNCHES HD TESTS ON FREEVIEW

The BBC has begun DVB-T2 test transmissions from the Guildford transmitter southwest of London, in preparation for HD on Freeview. This follows the approval by the DVB Project of the DVB-T2 specification and this will be the first time signals compliant with the DVB-T2 specification will be broadcast. DVB-T2 is the next generation digital terrestrial transmission standard for new HDTV services on Freeview. DVB-T2 can provide more capacity and this will be essential for HDTV services to be launched on Freeview, currently planned for the end of 2009.

BBC TO LAUNCH UHD TV TRIALS

In conjunction Italian and Japanese public broadcasters RAI and NHK, this September the BBC will begin trials of Ultra High Definition (UHD) TV. UHD, also known as Super Hi-Vision, produces a resolution of 7,680 × 4,320 pixels which is around four times as wide and four times as high as existing High Definition TV. With 4000 Scanning Lines, NHK is promising consumers an experience which feels close enough to reality to make them want to reach out and touch the on-screen action.

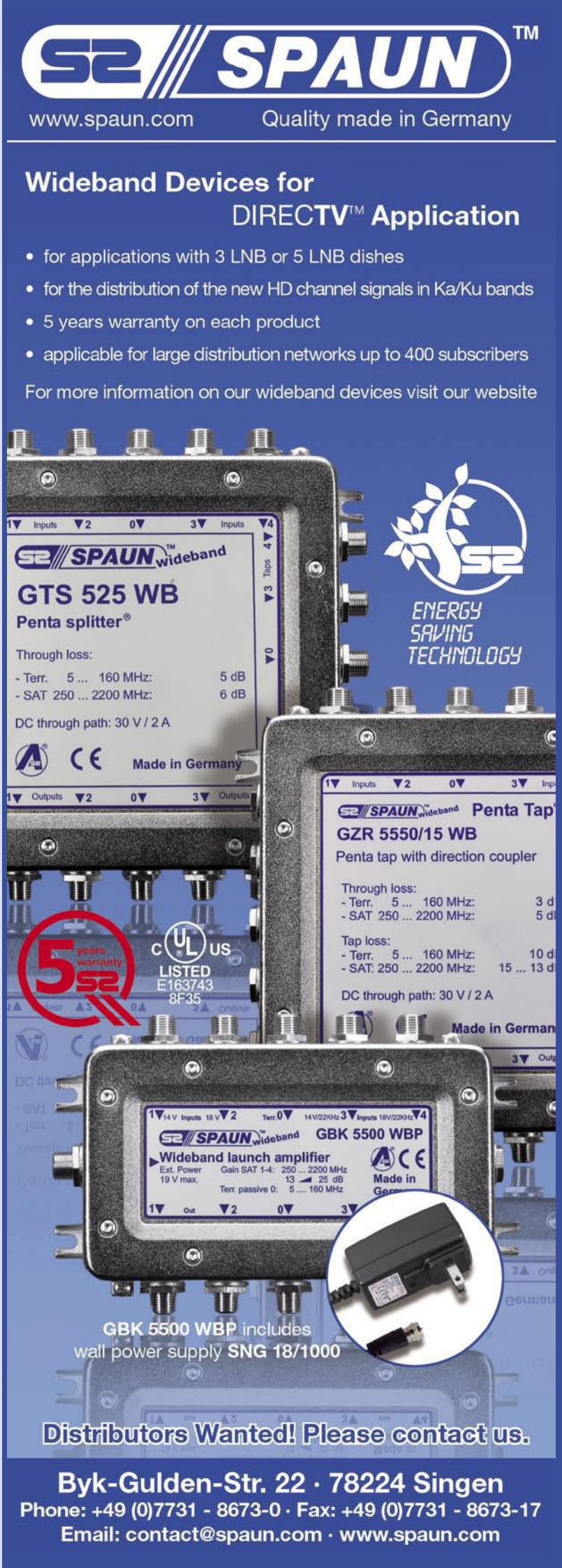
BT ENDS FIRST HALF WITH 282.000 IPTV SUBSCRIBERS

British Telecom has signed up 68.000 customers to its pay-TV service BT Vision during the three months to June 30. The company, which launched the IPTV service commercially last summer, ended June with 282.000 BT Vision customers. While customers can sign up to BT Vision without actually taking a monthly subscription, to make the service profitable, BT needs customers to take out regular subscriptions.

NORTH AMERICA

IPTV SUBSCRIBERS TOP 1.8 MILLION IN 2007

The number of IPTV users in the Americas surged to 1.8 million by the end of last year, up 257.1% from 501,000 in December 2006, according to a recent report by iSuppli. The majority of that growth came from



two leading U.S. telecom operators, AT&T and Verizon, which continued to expand their fiber-optic IPTV networks throughout 2007, and collectively served almost 1.2 million IPTV customers by year's end. This represents growth of 294.9%, from a mere 296.000 subscribers at the end of 2006.

ESPIAL TO ACQUIRE KASENNA

Canadian IPTV middleware vendor Espial Group said it will acquire Kasenna, a competitor based in California, in a USD6.5 million move that will aid consolidation in the fragmented IPTV middleware sector. According to Espial, the combined company will have more than 100 service provider customers supporting about 2.4 million IPTV customers. Kasenna customers include Cavalier Telephone, CenturyTel, FastWeb, Kentucky Telephone, SaskTel, Tennessee Telephone, Time Warner Cable, Charter Communications and Knology. The IPTV middleware market also includes companies such as Minerva Networks, Innovate Systems, Quative, Thomson, Nokia Siemens Networks and many others.

CANADA

HDTV SIGNS EXCLUSIVE DEAL WITH SMITHSONIAN NETWORKS

Canadian HD broadcaster High Fidelity HDTV Inc. and Smithsonian Networks of the USA have signed an exclusive programming agreement under which programs from the US service Smithsonian Channel HD will be broadcast on Oasis HD, Equator HD and Treasure HD, three of the all-HD channels operated by High Fidelity in Canada.

UNITED STATES

DISH NETWORKS OFFERS HDTV IN 61 MARKETS

Dish Network said it now offers local HD channels in 61 markets, accounting for 68% of the country. The company will also add local HD in 22 additional markets by the fall, including Albany (NY) and Scranton (Pa). Eric Sahl, a Dish senior vice president, said the company is "aggressively moving forward with plans to reach 100 HD local markets and 100 national HD channels."

MONSTER CABLE OFFERS HDTV TRANSMITTER

Monster Cable will offer a wireless transmitter for HDTV signals that will connect a home theater's TV set with a digital signal box or DVD player. The wireless system is comprised of a receiver that plugs into the HDTV's HDMI port along with a transmitter unit that will hook up with the signal source. Called Monster Digital Express HD, the set-up will also upscale non-HD signals to HD resolution. The system is able to transmit a video signal up to 30 feet away using the ultra-wideband (UWB) technology from Sigma Designs.

AT&T LAUNCHES HDTV STREAMS

AT&T Inc's U-verse IPTV service has started offering concurrent high-definition (HD) video streams to residential consumers in some markets. Other IPTV services, including Verizon FiOS, already support concurrent HDTV streams, allowing users to view one program in HD, while recording another on a DVR at the same time.

COMCAST TO INTRODUCE DIGITAL BOXES FOR HDTV

Comcast is expected to order up to six million digital converter boxes this year in an effort to create more space for High-Definition channels, according to Multichannel News. Comcast plans to use the digital converter boxes to eliminate the need to transmit analogue signals. The converter boxes will be issued to customers who now own analogue sets. The operator hopes to switch over 20 per cent of its entire subscriber base to all-digital in 2008. Next year, the cable operator will likely order another 12 million converter boxes to continue its phasing out of analogue signals.

GLOBECAST INVESTS IN HDTV UPGRADES

GlobeCast has completed the next phase of its U.S. HD strategy with the installation of state-of-the-art encoding and converting equipment at its broadcast centre in Culver City, California. Using gear that includes MPEG-2 and MPEG-4 HD decoders as well as the Snell & Wilcox Alchemist Ph.C HD standards converter with motion compensation, GlobeCast can receive and process HD signals into any international format. GlobeCast can also down convert to SD and deliver the signal worldwide using a combination of MPEG-2 and MPEG-4 HD/SD compression. GlobeCast also offers advanced modulation standards such as DVB-S2 to maximize capacity.

IPTV NETWORK SERVICES SELECTS LATENS

IPTV Network Services, a consortium of several IPTV service providers in the state of Utah, has successfully deployed the Latens ECOsystem (ECO) to enable its IPTV offering. Latens ECO provides IPTV Networks with a single platform comprising next generation middleware and Latens' highly regarded Conditional Access for the secure delivery of advanced content services. The affiliates of IPTV Network Services have been offering telecommunications services to over 45,000 residences and businesses in many counties.

VERIZON TO MAKE AVAILABLE 150 HD CHANNELS IN NYC

Verizon Telecom has launched FiOS services with 100 high-definition channels in parts of New York City, announcing the availability of 150 HD channels by the end of this year in sections of New York City and some other areas of the US. FIOS TV service packages start at USD 94.99 per month with 54 free HD channels.

ECHOSTAR XI SATELLITE LAUNCHED

DISH Network Corp's plan to roll out more high-definition video channels received a boost on July 16 after the successful launch of the company's EchoStar XI broadcast satellite. DISH needs to roll out more HD channels to be able to compete with larger rival DirecTV Group, as well as cable and phone companies' video services. DISH said it would add another 17 national HD channels, bringing its total to 100 ahead of its original year-end target. DirecTV has said it will have 150 HD channels by the year-end. DISH also said it would introduce TurboHD, an all-HD programming package.

XM SATELLITE AND SIRIUS COMPLETE MERGER

XM Satellite Radio and Sirius Satellite Radio have completed their long-pending merger. The combined company will use the name Sirius XM Radio Inc and expects cost savings of about USD 400 million in 2009 and to post EBITDA of more than USD 300 million. The new company said it has 18.5 million subscribers

LATIN AMERICA

COLOMBIA

ETB TO LAUNCH IPTV IN MARCH 2009

ETB plans to start tests of an IPTV service in November of this year and launch by March of next year, according to new company CEO Fernando Panesso. He said that the telecom operator will invest COP87 billion (USD51 million) in the roll-out of IPTV in Colombia, despite regulatory uncertainties. ETB does not have a pay-TV licence as required by the National Television Commission, but does have a licence to operate IPTV as a value-added service, as directed by the Colombian Communications Ministry.

UNE-EPM LAUNCHES IPTV SERVICE

Une-EPM Telecomunicaciones has launched IPTV services in the capital Bogotá and also Medellin, according to local newspaper La República, becoming the country's first IPTV operator. The service includes 105 video and 50 audio channels, as well as PPV and VOD, with films costing between COP 3.500 (USD 1.95) and COP 4.700. Subscription plans cost COP 90.000 to COP 244.000 per month in Bogotá.

ASIA & PACIFIC

2008 KEY FOR HDTV IN ASIA

Major pay-TV operators in the Asia-Pacific, Middle East and Africa expect to carry more than 340 HD television channels by 2013, up from 32 channels currently, according to a new Euroconsult report commissioned by Malaysian satellite operator Measat. By the end of the year, 70 per cent of the 25 platforms surveyed - including 21 in Asia - expect to be offering HD content, the report found. According to the report, 12 per cent currently offer HD services. The number of HD channels being offered by the platforms is forecast to reach 107 by mid-2009, 226 in 2011, and 341 in 2013.Over the next three to five years, HD will expand from between three and five channels to an average of 15 channels.

AUSTRALIA

FOXTEL INTRODUCES NEW HD STB

Foxtel has rolled out a new service, Foxtel HD+, to old and new customers with five dedicated 24/7 HD channels along with HD movies on demand, powered by a new set-top box - the iQ2. The new digital box has a 320GB hard drive to fit up to 30 hours of HD content and up to 90 hours of standard definition programs. Four tuners are aboard the iQ2. Two enabled at launch will allow for simultaneous recording and viewing, one is reserved for Foxtel On Demand and the fourth is listed by Foxtel to be "enabled in the future". New channels and on-demand HD movies are broadcast in 1080i, except for ESPN HD in 720p.

CHINA

CCTV LAUNCHES TERRESTRIAL HDTV

CCTV's HDTV channel started broadcasting in Shanghai in June, using the national standard single-carrier wave technology developed by Shanghai HDTV and Jiaotong University. Preparation is underway for similar broadcasts in Tianjin, Shenzhen, Qingdao, Shenyang, Qinhuangdao, and Guangzhou.

CHINA TELECOM WITH 940.000 IPTV SUBSCRIBERS

China Telecom has in excess of 940.000 subscribers for its IPTV service, and expects to pass a million subscribers very soon. The service, provided in cooperation with Shanghai Media Group (SMG), has been available in Shanghai, Jiangxu, Guangdong, Zhejiang and Shaanxi since 2005 and offers broadcast and on-demand content, as well as information services. Rival China Netcom, meanwhile, offers IPTV services in six cities including Beijing, Harbin and Shenyang, with a reported 100.000 subscribers as of May 2008.

ZHONGXING-9 SATELLITE LAUNCHED

China on June 9 launched a French-built communications satellite that was used for live TV broadcast

Wireless SmartWi®
Multi Room Solution

Living room

Teen room

Kids room

SmartWi is the only proven universal DVB Multiroom solution on the market.
Only SmartWi can guarantee that the content actually stays within the household who has paid for it.

More and more Operators realise that the content copyright holders are most likely to claim additional royalty. This is relevant in cases where the operator releases card clones on the market - without being able to control how and where these cards are used.
Offer your customers a flexible, universal, secure and proven DVB Multiroom solution.

SmartWi - The original professional DVB Multiroom solution since 2004.

Contact us for further information

SmartWi International
E-mail: info@smartwi.net
www.smartwi.net
Tel. +45702 60031

www.SmartWi.net

Mit dem **UFS 902** präsentiert Kathrein einen Receiver, der HDTV zum erschwinglichen Preis in alle Wohnzimmer bringt. Der **UFS 902** ist ein gut ausgestatteter HD-Receiver mit 12-stelligem Display und Common Interface zur Dekodierung verschlüsselter Programme.

KATHREIN-Werke KG
Postfach 10 04 44
Anton-Kathrein-Str. 1-3
D-83004 Rosenheim
Tel. 08031 184-0
Fax 08031 184-306
http://www.kathrein.de

KATHREIN
Antennen · Electronic

of Beijing Olympics in August. The Zhongxing-9 satellite was built by Thales Alenia Space for China Satellite Communications Corporations (Satcom), one of the six basic telecommunications operators in the country under the Ministry of Information Industry.

INDIA

AKSH LAUNCHES IPTV WITHOUT BROADBAND CONNECTION

Aksh Optifibres in association with telecom firm MTNL has launched country's first IPTV service which can be viewed without any high speed broadband connection. The company plans to invest around Rs 150 in its icontrol IPTV platform in Mumbai and Delhi, which would provide more than 100 channels to its customers. It carries all the major popular entertainment channels from the Star and Sony group and sports channels from Neo and Ten Sports. Aksh has also entered with an agreement with telecom giant BSNL and MTNL, aiming for a strong presence in urban and rural areas where the government-controlled telecom firms have vast subscriber base.

BHARTI AIRTEL LAUNCHES IPTV WITHOUT AUTHORISATION

The Information and Broadcasting (I&B) ministry has asked the Department of Telecom (DoT) to initiate action against Bharti Airtel for launching IPTV services without obtaining the requisite approvals. While, Bharti in its response has said it has not launched commercial IPTV services, but was only doing pilots, the I&B ministry has told the DoT that private telcos have not been cleared to offer this service.

MTNL PROVIDES 74 IPTV CHANNELS

MTNL is currently providing as many as 74 channels through their IPTV service, compared to just around 26 free-to-air channels during launch. The company has signed up a deal with Time Broadband Services and its Israeli partner Optibase for developing and handling the content delivery network for its IPTV services. They are currently using Optibase's IPTV MGW 5100 platforms for its digital IPTV headend operation at the company's network operating centre. Time Broadband is now preparing to deploy IPTV services on both TV & PC delivery.

MINISTRY ACCEPTS IPTV RECOMMENDATIONS

India's Ministry of Information and Broadcasting has accepted recommendations from the Telecoms and Regulatory Authority of India (TRAI) for IPTV, according to local reports. The uplinking/downlinking norms will be amended to enable all broadcasters to provide signals to all distributors of TV channels, including IPTV operators, TRAI has also received a consensus from broadcasters to adopt non-discriminatory price regime on the composition of channel bouquets and the pricing of channels on an a-la-carte and bouquets basis for IPTV services.

INDONESIA

BNS TO DESIGN HD IPTV PLATFORM FOR PT

IP solutions provider BNS has been appointed by Indonesian telecommunications provider PT. Multi Kontrol Nusantara (MKN), a subsidiary company of Bakrie Group, to design and procure a turnkey HD & SD IPTV service platform. BNS's IPTV Service Platform design will enable MKN to deliver high and standard definition video services, including multicast, VOD, Network PVR, Time-Shift-TV, eShopping, games and others.

ISRAEL

SPACECOM TO PURCHASE AMOS 5 SATELLITE

Spacecom Satellite Communications will buy the Amos 5 communications satellite from Russia's JSC Academician MF Reshetnev Information Satellite Systems for USD 157 million. The Amos 5 satellite is scheduled for delivery and launch by March 31, 2011, and is due to operate for 15 years. Spacecom can cancel the agreement to buy the Amos 5 up to the launch if the satellite cannot be delivered, if it is found to be flawed during ground tests, or if it is lost after launch.

JAPAN

SKY PERFECT JSAT CONSIDERS HDTV

Sky Perfect JSAT Corp. is exploring the option of expanding its satellite television business by launching a broadcasting-satellite-based digital service in 2011 to complement its communications-satellite TV offerings. In the communications-satellite TV service, the company plans to start offering 12 high-definition TV channels in October. By 2011, the number is expected to be raised to nearly 100, roughly half the firm's communications-satellite TV channels. "We aim to become one of the top high-definition TV broadcasters in the world," said Chairman Masanori Akiyama.

JAPANESE COMPANIES AGREE ON IPTV STANDARDS

Telecoms companies Nippon Telegraph and Telephone (NTT), KDDI and Softbank BB have teamed together with technology vendors including Sony, Matsushita Electric Industrial, Toshiba, Sharp and Hitachi, as well as the country's five major commercial TV broadcasters and public broadcaster NHK. The companies expect to draw up unified IPTV standards and urge local IPTV operators and consumer electronics manufacturers to develop compatible technologies and equipment.

KAZAKHSTAN

KAZSAT-1 LOST

Kazakhstan's sole communications satellite, used by many of the country's TV broadcasters, is out of control due to a computer glitch and is likely to be lost altogether. Kazakhstan launched the Russian-built KazSat-1 satellite in June 2006, the first of four which it aimed to have in orbit by 2020 and which it said would establish the Central Asian country as a global space power. The head of Kazakhstan's National Space Agency, Talgat Musabayev, said the satellite has been out of touch since June 8 and could no longer be controlled from a space command centre in neighbouring Russia.

MALAYSIA

TELEKOM MALAYSIA TO LAUNCH IPTV IN 2009

Telekom Malaysia is to launch IPTV commercially in the second quarter of next year, as part of its drive to increase the usage of broadband services in the country, the company's CEO Datuk Zamzamzairani has said. Telekom Malaysia has reportedly been conducting trials in 400 homes in the Klang Valley, as well as in Kulim and Penang. When asked about channel offerings on the new service, the executive said that this is still in development.

NEW ZEALAND

SKY TV TO INVEST USD 17.5 MILLION IN HDTV

SKY TV, which is controlled by Rupert Murdoch's News Corporation, will spend $NZ22 million (USD17.5 million) over two years on high-definition broadcasts. The broadcaster said it aimed to get 80,000 set-top boxes installed. The new high-definition set-top boxes would cost $NZ599, or may be rented for $NZ15 a month. Sky TV's HD content is via a My Sky HDi set-top box that is identical to that offered by Foxtel. Sky TV subscribers also have access to five channels; Sky Sport 1 and 2, Sky Movies, Sky Movies Greats and free-to-air channel TV3.

OPENSAT

MAKE THE FUTURE PRESENT

1x Smart Card Reader • 2x Common Interface • HDMI / HDCP • Component Video output for Digital TV • MPEG2 MP@ML, MPEG4 Part10/H.264 • Dual Decoding (Real PIP Function) • High speed searching and switching channel time • Fully supported EPG (Grid or Matrix type) • Teletext and Subtitle supported by OSD • Easy auto satellite program searching • Auto NTSC / PAL switching • Software upgrade and Playback JPEG, MP3 etc via USB • Full HDTV

XT 9500 HD

ABC BIZNIS

ABC BIZNIS Krušovská 4646, 955 01 Topoľčany, Slovakia
Tel.: +421 38 5313508, Fax: +421 38 5313508, E-mail: info@abcbiznis.sk, Web: www.abcbiznis.sk

www.opensat.info

SINGAPORE

MIO TV TO AIR CONTENT FROM HOLLYWOOD STUDIOS

Disney-ABC, Warner Bros. and 20th Century Fox will air more than 50 series on Singapore's Mio TV IPTV platform in a first-of-its-kind syndication deal with the country's dominant telecom, SingTel. The exclusive deal with the one-year-old platform will see series air as early as 24 hours after their U.S. broadcast. Financial terms of the licensing agreements were not disclosed. The exclusive on-demand window will last five to six months.

STARHUB TO ADD FIVE HDTV CHANNELS

Pay-TV operator StarHub plans to be offering five high-definition channels on its digital cable platform by the end of this year, including a sports service. HD5 and Sports HD have already joined the the existing National Geographic Channel HD and Discovery HD. A fifth high-definition channel will be up and running by year end.

SOUTH KOREA

CABLE OPERATORS CRITICISE IPTV ACT

Cable TV operators have protested against the IPTV Act prepared by the Korea Communications Commission, saying that it is disappointing to cable TV and the entire broadcasting industry as the Act is biased in favor of certain communications operators, especially KT. The KCC's IPTV Act confirms accounting separation that all backbone operators are subject to is enough to prevent them from transferring their dominating power. In addition, the IPTV act also includes PAR or Program Access Rule that cable networks have opposed, citing that the rule might cause infringement on content providers' property rights and disrupt the nation's content industry, the companies said.

THREE IPTV OPERATORS SELECTED FOR PILOT PROJECT

Korea Communications Commission has selected KT Consortium, Hanaro Consortium and LG Dacom Consortium for a pilot project of convergence of broadcasting and telecommunication. The selected consortium, run with 3 billion won of the public and private matching fund, plans to provide contents owned by national and public institutions to subscribers so that they can see the contents at home through IPTV. It will kick off pilot service for 600 households in December.

SRI LANKA

SRI LANKA TELECOM PICKS UTSTARCOM IPTV SOLUTION

UTStarcom has signed a contract with Just In Time Holdings to supply its RollingStream end-to-end IPTV solution to Sri Lanka Telecom (SLT).SLT will use the RollingStream platform to bring IPTV services to its growing customer base throughout Sri Lanka. SLT, with more than 87 per cent market share and a subscriber base of more than 1.300.000 customers, expects to grow its residential and commercial business through its increased triple play capabilities now available with this IPTV deployment.

AFRICA

SOUTH AFRICA

MULTICHOICE LAUNCHES HDTV

MultiChoice launched HDTV in the South African market in July, the first of its kind in Africa. The Beijing Olympics were the first event to broadcast in HD format at the beginning of August. A new M-Net HD channel will launch at the end of August when HD PVR decoders will go on sale at major retail stores throughout the country at the price of R2499.00 (for a limited period only). To view DStv channels in HD, a customer will need a DStv decoder.

WORLD

AFN TO GO HD BY 2014

American Forces Network won't convert its satellite broadcast to a system that's compatible with high-definition television until 2013 for Pacific viewers and 2014 for viewers in Europe, according to Larry Sichter, Defense Media Center public affairs officer. AFN's current digital compression system packs 10 channels into a slither of satellite broadband. AFN will announce and publicize the exact details of its conversion plans sometime within the next 12 to 18 months.

Get the Power!

NANOXX

TESTED by drdish & RECOMMENDED

DIGITAL fernsehen
TESTSIEGER
6.2008
sehr gut
NANOXX 9500 HD
www.digitalfernsehen.de

Nanoxx 9500 HD
HEIMKINO 1,5
Testurteil:
sehr gut
Spitzenklasse 07/2008

HiFi Test TV+VIDEO HEFT 3/2008
Nanoxx 9500 HD
Spitzenklasse
Preis/Leistung: gut
1,5

Nanoxx 9500 HD
1,5 Spitzenklasse SAT Empfang
Preis/Leistung: gut

TELE SATELLITE AWARD & BROADBAND 04-05/2008
NANOXX 9500HD
Small enclosure, superbly crisp picture, extremly fast channel search, and connection for HDD

HDTV

USB Universal Serial Bus Personal Video Recorder
PVR

conax X CRYPT Blind Scan

NanoXX 9500HD

HDTV and SDTV Satellite Reception of Premium Quality

+ Outstanding super sharp picture both in MPEG-4 and MPEG-2 transmissions
+ USB2.0 with PVR Function for Digital Video Recording to an external USB2.0 Harddisk (to be connected optional)
+ Record 2 channels and watch a 3rd channel (also Timeshift) from the same transponder at the same time
+ Ethernet RJ45 for Software Upgrades, FTP File Transfer for copying files via LAN to the connected USB2.0 device (also Memory Stick)
+ Integrated Mediaplayer: Playback XVID, AVI, JPG and MP3 files from the connected USB2.0 device on the TV
+ 2 Common Interface Slots and 1 Smart Card Reader for Conax, X-Crypt, DG-Crypt, Firecrypt and Crypton
+ HDMI Ver. 1.2, S-VHS and YPbPr RGB Outputs

NanoXX 9500HD-C

HDTV and SDTV Cable Reception of Premium Quality

+ Outstanding super sharp picture both in MPEG-4 and MPEG-2 DVB-C transmissions (Cable)
+ Same specifications as the NanoXX 9500HD for satellite reception but DVB-C Tuner

conax X CRYPT Blind Scan

NanoXX 9200, 9400

Digital Satellite Receiver of Premium Quality

+ 10.000 Channels Memory,
+ Fast Blind Scan Tuner for scanning with 5, 4, 3, 2 or 1 MHz steps
+ USB1.1 Plug for Software, Channellist Upgrades + JPG-Foto Show
+ 2 Smart Card Reader for Conax, X-Crypt, DG-Crypt, Firecrypt and Crypton
+ Nanoxx 9400: same as 9200 but additional 2 Common Interface Slots

conax X CRYPT Blind Scan

NanoXX 9300C

Digital Cable Receiver of Premium Quality

+ 10.000 Channels Memory, DVB-C Standard, Blind Scan 5,4,3,2,1 MHz
+ QAM 16, 32, 64, 128, 256
+ USB1.1 Plug for Software + Channellist Upgrades + JPG-Foto Show
+ 1 Smart Card Reader for Conax, X-Crypt, DG-Crypt, Firecrypt and Crypton
+ 2 Common Interface Slots

iP PVR
X CRYPT

NanoXX 9600IP

Digital Satellite Receiver incl. IP PVR Function*

+ Record Video in MPEG format directly over your LAN Home Network to the hard disk of your Personal Computer (Windows). The needed Software Tool is included on CD Rom.
+ 6.000 Channels Memory
+ Ethernet RJ45 Plug for automatic Software Upgrades via Internet
+ 1 Smart Card Reader for XCrypt

NanoXX 1000

Digitaler Satelliten Receiver Free-To-Air

+ 4000 Channel Memory, Blind Search Funktion
+ SCPC, MCPC, C/Ku Band
+ 4 digit Frontdisplay, EPG 7 days
+ Multilingual OnScreen Menu
+ 2 Scart, Digital Audio Output S/PDIF (coaxial), Audio-Video Cinch
+ RS232, Main Power Switch

Distribution Germany
MatriXX Systems GmbH
Industriestr. 2
D - 65835 Liederbach
http://www.matrixxsystems.eu

Distribution Switzerland
Telanor AG
Bachstr. 42
CH - 4654 Lostorf
http://www.telanor.ch

Distribution Austria
Pötzelsberger Electronic GesmbH
Münchner Bundesstraße 121a
A - 5020 Salzburg
http://www.p-sat.at

Get the Power! NANOXX

http://www.nanoxx.info

Matching LNBF and Dish Type

Jacek Pawlowski

While satellite enthusiasts in Europe are very familiar with offset dishes, their counterparts in Asia may be more familiar with primary focus antennae. Both antenna types require different LNBF's. LNBF's differ in the reception band: C/Ku/S-Band and the polarization: linear or circular. You have to match the band and polarization with the signal you want to receive but you still can receive it with either a primary focus or an offset dish.

LNBF noise performance may be expressed either as noise figure (dB) or noise temperature (K). Those values are correlated - knowing one of them, you may calculate the other. This not a real difference but something like expressing the speed in km/h or knots.

But there is yet another parameter that you need to know when building your reception system. This is the f/D ratio of your dish and the f/D your LNBF is design for. f/D is a parameter telling you what part of the paraboloid has been "cut off" to form a primary focus dish. As you can see in Figure 1, D is a diameter of a dish and f is the focal length. Typically, the primary dishes are manufactured with the f/D = 0.28~0.42. To achieve the top performance, your LNBF should have the same f/D as your dish.

That's because the LNBF should have a proper viewing angle (feedhorn beamwidth) to "see" the whole reflector but not more. In other words, the f/D parameter defines the viewing angle of the feedhorn.

There is a picturesque mathematical formula that enables us to calculate this angle for a primary focus dish:

$$\theta = 2 \cdot \arctan\left(\frac{8 \cdot \frac{f}{D}}{16\frac{f^2}{D^2} - 1}\right)$$

If you do not have your calculator handy, you may refer to the table we prepared for you! **(table)**

And now, probably the most important fact: the LNBF's dedicated for offset dishes have the f/D parameter equal to 0.6. It means viewing angle 80°. The angle is calculated in accordance with a different formula because D is defined differently for an offset dish. But the most important fact is: the angle is much smaller for this kind of LNBF.

f/D ratio	Feedhorn beamwidth [°]
0.28	167
0.30	159
0.32	152
0.34	145
0.36	139
0.38	133
0.40	128
0.42	123

We illustrated this in Figure 1. If you install a proper LNBF on the dish (f/D=0.38 in this example), its viewing angle will match the reflector size. But if you install an LNBF dedicated for offset antenna (f/D=0.6), it will see only a portion of the reflector. The output signal will be much smaller.

How much smaller? In our example (f/D=0.38) the LNBF will see only 58% of the reflector diameter. For example, if the actual dish has a diameter 165 cm, we can expect a performance typical for a 96 cm dish. You will get antenna gain and directional characteristics equal to 96 cm primary focus dish. Big difference, isn't it?

So, perhaps we can win something installing a prime focus LNBF on an offset dish? Absolutely not! See Figure 2. Such an LNBF will see much more than a reflector only and that means it will pick up a lot of noise from the environment. The reception will be hardly possible.

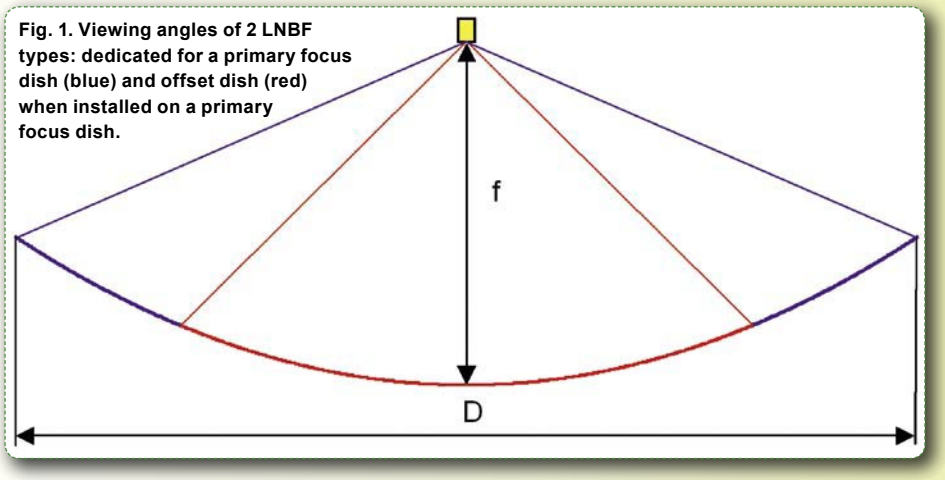


Fig. 1. Viewing angles of 2 LNBF types: dedicated for a primary focus dish (blue) and offset dish (red) when installed on a primary focus dish.

If the pictures look a bit strange to you, take into account that on both of them the satellite signal is coming vertically from top to the bottom.

The final conclusion is that you cannot use a primary focus type LNBF on an offset dish but you can use an offset type LNBF on a prime focus dish. But in the latter case you will get a performance equal to a much smaller dish: 40-60% of the actual diameter depending on the f/D parameter of a real dish.

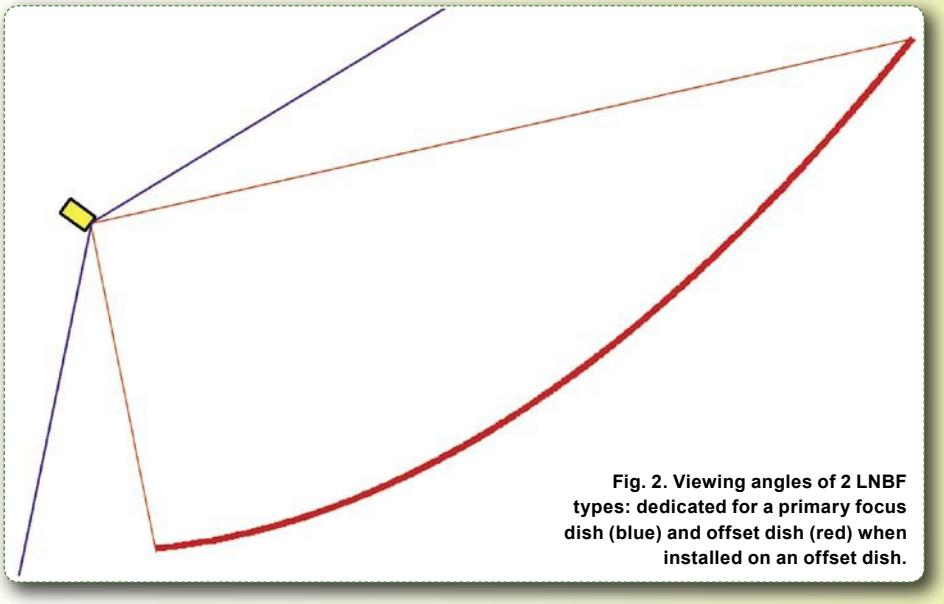


Fig. 2. Viewing angles of 2 LNBF types: dedicated for a primary focus dish (blue) and offset dish (red) when installed on an offset dish.

©2008 www.Thai-D.com/sat-art

11th ANNIVERSARY INTERNATIONAL EXHIBITION AND CONFERENCE

CSTB - 2009

CABLE AND SATELLITE TV, IPTV, HDTV, BROADBAND, MOBILE TV,
CONTENT, OPERATOR'S SERVICES, SATELLITE COMMUNICATIONS

2 - 5 FEBRUARY
MOSCOW, CROCUS EXPO

Organizer

MIDexpo
МЕЖДУНАРОДНЫЕ ВЫСТАВКИ И ЯРМАРКИ

General partners

АКТР
РОССИЯ

iabm

Conference sessions
in association with

Official travel agent

MID TRAVEL
www.midtravel.ru

For additional information, please, call: (495) 737 74 79

www.cstb.ru

GT SAT
INTERNATIONAL

The new Generation "COMPACT LINE"

- Full product range available on all items
- Internal Professional rain cover
- Long neck for multifeed
- Best value for reliability
- 4.3° Monoblocks available
- **NEW!** Octo Circular LNB

YOUR SAT-SPECIALIST FOR NOW AND THE FUTURE

relook **advanced solutions 4 YOU**
NOW AVAILABLE!

HD-5000+
TWIN TUNER PVR HD READY

PVR ready for Internal and external HDD
Twin Modular Tuners DVB-S / T / C ready for internet applications (Radio/TV streaming via IP)
2CA + 1CI
High definition MPEG 4 DVB compliant, compatible standard definition as well
Ethernet & wireless connection
HD ready DVB-S2
web Browsing & RSS news reader
SW updates over : Internet or USB
7 days EPG

relook

relook

HD500
SINGLE TUNER PVR HD READY «LIGHT»

PVR ready over External HDD
1xCI & 1xCA
High definition MPEG 4 DVB compliant, compatible standard definition as well
HD ready DVB-S2
plus DVB-T Combo version
SW updates over : Internet or USB
Network communication via Ethernet
7 days EPG

GT-SAT International s.a.r.l., 16, Rue Millewee, L-7257 Helmsange-Walferdange, Luxembourg
www.gt-sat.com • info@gt-sat.com • tel.: +352 26432203 • fax: +352 26432204

Topfield TF7700HSCI

典雅的高清电视 PVR 接收机 还可以外接存储

在前几期的《国际卫星电视与宽带》中，我们已经介绍了高端接收机制造厂家Topfield具备高清电视功能的产品，特别是其顶级型号lTF7700HD PVR接收机，具有双调谐器的PVR 功能，而且内置硬盘（2008年03期）。

制造厂家很快意识到许多消费者并不成天盯着电视，也不需要双调谐器。如果将电视节目录制在外置硬盘上，就可以在其他地点由另外一个接收机重放出来，如在卧室里、周末在别墅里或假期在野营的小屋里等，你还可以用其它外置硬盘建立自己的录像资料库。

Topfield 了解到这些需求，并开发展出了新的型号TF7700HSCI: 一款单调谐器的高清电视 DVB- S2 接收机。其后面板具有USB接口，可以接驳外置硬盘或U盘。此外，TF7700HSCI 还是一款 CI 接收机，并兼容DVB-S、DVB-S2- QPSK 和 DVB-S2-8 PSK。

Record you favorites television programmes into an external hard disk drive via the USB port

TF7700HSCI有43cm 宽，方方正正的黑色外观很吸引人，几乎与每款电视架都很相配。前面板中间位置是醒目的VFD显示窗，开机时显示频道序号，待机时显示时间。

面板上有五个按钮，让你不用遥控器就可操作接收机，在仓门后还有两个 CI插槽，兼容 (Irdeto、Seca、Conax、Viaccess、Cryptoworks和Nagravision等加密方式)。

看到了后面板你会很满意：它附有你所期望的高清电视接收机上所具有的 HDMI 接口，还有两组欧插，6个 RCA 插口用来输出音、视频和

YUV信号,一个光线数字音频输出接口、一个 RS-232 接口和USB 2.0接口, 当然,还有一进一出式的IF接头。

Topfield 的后面板上还有一个小开关,用来选择视频信号从HDMI 、YUV 或欧插接口输出,在主菜单中也有相应的设定。

遥控器手感很好,按钮分类清楚。我们所测试的接收机附有一本非常详细的英文使用手册,当然,不同国家会提供不同的翻译版本。

日常使用

当第一次打开接收机的时候, 显示出来的主菜单直到所有基本设定和至少一个频道扫描都完成后才能够关闭。预置的节目目录很简单,没有初始安装。

卫星目录包括欧洲、亚洲和美洲的143 个卫星。制造厂家听取了用户们关于目录内容陈旧的意见,对转发器目录进行了彻底的核查。因此,现在几乎可以找到每一个最新的高清卫星电视频道。不要忘了每个星期都会有新的高清节目出现在不同的卫星上,所以即使接收机上没有预置也是可以理解的。我们不能对于制造厂家求全责备。

它的好处还在于实际上增加新的卫星和转发器数据时相当容易。同时,编辑已有数据也很简单。与所有其它 Topfield 接收机一样,TF7700HSCI支持 DiSEqC 1.0、1.1、1.2 和 1.3(USALS)协议,可以接驳从最简单的复合馈源到DiSEqC极轴天线,甚至还有16 个LNB的环焦天线。

该机预置了多种不同的C波段和 Ku波段本振频率(LOF)。如果你还想使用一个 S波段天线,那也没有问题,TF7700HSCI可以手动输入LOF。

当接收机与天线匹配好以后, 下个步骤就是频道扫描。 通常, Topfield 接收机会用差不多4分钟的时间,完成对一个有 110 个转发器的卫星上所有频道的扫描。

当然, 除了自动频道扫描,它也可进行人工扫描。对于那些经验丰富的用户,可以手动输入PID码。

如果需要, 也可进行网络扫描。这样,当节目供应商在不同的转发器上改变频道播放安排时,你可以用接收机找到他们提供的每一个频道。

在系统设定中, 用户可以根据需要设置接收机,使其满足收看电视的需要。其设定具有广泛的多样性,如自动地更新时钟,还可以使用某一按钮,使接收机开启或关闭计时和标准时间功能。

该机菜单语言包括德语、英语、法语、意大利语、西班牙安语、阿拉伯语、希腊语、土耳其语、瑞典语、丹麦语、挪威语、荷兰语、俄语、波兰语、波斯语、芬兰、捷克语、泰语、匈牙利语、保加利亚语和斯洛伐克语。

附加设定包括各种OSD系统设定选项以及A/ V输出的信号制式选项。

后面板设定的DIP图像输出可以选择到 HDMI或YUV,而欧插只有 S视频或CVBS方式。如果选择欧插,则 RGB 也只从欧插输出。

即使越来越多的节目供应商使用 16:9 的格式,但是还是有许多播出者仍然使用比较旧的 4:3 格式。TF7700HSCI 可以让使用者选择是观看满屏的变焦模式,还是在图像左右两侧留有黑边。

为防电视不能播放16:9 信号, 接收机有两种信号输出方式:播出机器所输出的格式和在屏幕中央播放的格式。如果用户使用标准的 4:3 电

通过USB接口，可以将你喜爱的节目录制到外置硬盘上。

视，这样做也没有问题。

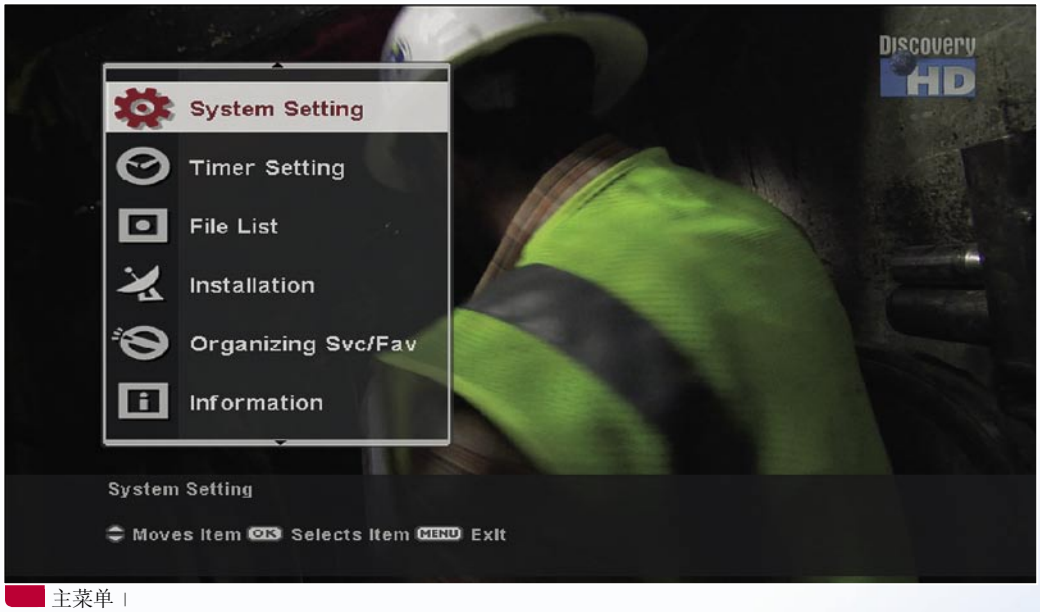
在视频格式菜单中，使用者可以选择HDMI 信号输出格式(1080i、720p、576i 或576p)，或者让接收机自动根据节目源选择信号输出格式。这个功能实际上相当实用，因为标准的标清信号可能会被适配器改良成1080i 格式,那样图像会发虚，所以选择576i 或 576p是正确的。

在我们的测试中，接收机立刻辨认出ORF1播出的高清电视信号，自动转换成正确的720p 格式。当换到一个标清频道时，TF7700HSCI立刻使用 576p 格式。

而德国付费高清电视频道的1080i 格式也很快被接收机识别出来。可以用遥控器上的一个按钮轻松地切换图像格式。

通过手动选择PAL和NTSC制式，接收机能很好地显示这两种信号。对于发烧友来说这是个好消息：他们可以正常收看来自美国的传送节目。

与大多数其它 Topfield 接收机一样,TF7700HSCI可以储存 5000 个电视和收音机频道。对一个DiSEqC 1.3 的 CI 接收机来说，这还不够。



主菜单 |

因为频道存储能力的限制，必要时需要进行有效的目录频道编辑。Topfield 可以让用户在编辑频道目录时轻松地删除、移动或重新命名频道，或用一个密码锁住它们。按下某一按钮，可以将所看到的频道编入喜爱频道目录里。

系统恢复功能是一个非常实用的功能。用户可以快速地进行所有设定，如时常会根据需要设置喜爱频道目录、卫星数据信息等。如果设定中出现问题,最初的设置可以很快地恢复。而后，接收机就会完全恢复到最初的设定状态。

当所有的初始设定结束后,按下退出按钮退出主菜单，接收机就会转到频道目录中的第一个频道上。

正如我们对Topfield期望的那样,屏幕上会出现一个信息条，内容包括该频道的EPG信息、当前时间、频道信息(图文电视文件、加密方式、字幕和复合馈源序号等)和转发器数据等。再次按下信息按钮，会提供有关当前频道的节目供应商等方面更详细的信息。按下向导按钮可以获知即将播出节目的信息。

TF7700HSCI 可以快速浏览节目信息，按下“OK”按钮可以从 EPG上设定定时器，而与此同时,节目会继续通过一个小的视窗播放(甚至包括高清节目)。按下“OK”按钮，可以显示频道目录，而使用遥控器上的那些彩色功能按钮，可以将卫星分类或限制某些特别的卫星。

两个高清频道之间的切换正好是2秒，而标清频道之间的切换则较快。

由于不同图像格式之间的自动调整需要较多的时间,在高清电视和标清电视频道之间

TELE-satellite World www.TELE-satellite.com/...

Download this report in other languages from the Internet:

Arabic	العربية	www.TELE-satellite.com/TELE-satellite-0811/ara/topfield.pdf
Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-0811/bid/topfield.pdf
Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0811/bul/topfield.pdf
Czech	Česky	www.TELE-satellite.com/TELE-satellite-0811/ces/topfield.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-0811/deu/topfield.pdf
English	English	www.TELE-satellite.com/TELE-satellite-0811/eng/topfield.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-0811/esp/topfield.pdf
Farsi	فارسي	www.TELE-satellite.com/TELE-satellite-0811/far/topfield.pdf
French	Français	www.TELE-satellite.com/TELE-satellite-0811/fra/topfield.pdf
Greek	Ελληνικά	www.TELE-satellite.com/TELE-satellite-0811/hel/topfield.pdf
Croatian	Hrvatski	www.TELE-satellite.com/TELE-satellite-0811/hrv/topfield.pdf
Italian	Italiano	www.TELE-satellite.com/TELE-satellite-0811/ita/topfield.pdf
Hungarian	Magyar	www.TELE-satellite.com/TELE-satellite-0811/mag/topfield.pdf
Mandarin	中文	www.TELE-satellite.com/TELE-satellite-0811/man/topfield.pdf
Dutch	Nederlands	www.TELE-satellite.com/TELE-satellite-0811/ned/topfield.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-0811/pol/topfield.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-0811/por/topfield.pdf
Romanian	Românesc	www.TELE-satellite.com/TELE-satellite-0811/rom/topfield.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-0811/rus/topfield.pdf
Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0811/sve/topfield.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0811/tur/topfield.pdf

Available online starting from 26 September 2008

的转换需要3～4秒。如果你觉得太慢，只需关掉自动转换功能，并根据需要用遥控器手动改变图像格式。

Topfield 制造的调谐器给我们留下了很好的印象，它能很好地接收信号较弱的卫星，例如26 °E上的BADR卫星、7 °W上的NILESAT卫星或28.2 °E上的ASTRA 2D卫星。

遗憾的是，我们在用户手册中找不到任何接收SCPC信号的调谐器技术数据，这使我们的测试没有任何数据范围来对比。我们的实际测试显示该机对符号码率为 2.0Ms/秒的信号也能接收播放。

我们还很高兴地进行了高清电视的接收测试。播放效果很流畅，没有任何图像出现花屏或停顿。我们看到，不管是FTA 的还是加密的，不同卫星的各种不同高清电视频道都被TF7700HSCI清晰地播放出来。

对于这一点，TF7700HSCI与其它高清接收机没什么两样，所不同的是它有有所提高：这就是其USB 2.0 接口。

我们在测试时，连接上了希捷的FreeAgent Pro移动硬盘和 4GB 的U盘。当连接上的时候，存储装置很快被接收机驱动起来，TF7700HSCI马上识别出新的存储媒体，录像和播放功能立刻可以使用了。

当录制一个频道的时候（即使是一个高清频道），还可以同时观看同一转发器上所有其它的频道（当然也包括高清频道）。它也以一边录制一个频道，一边观看一个以前录制的节目。

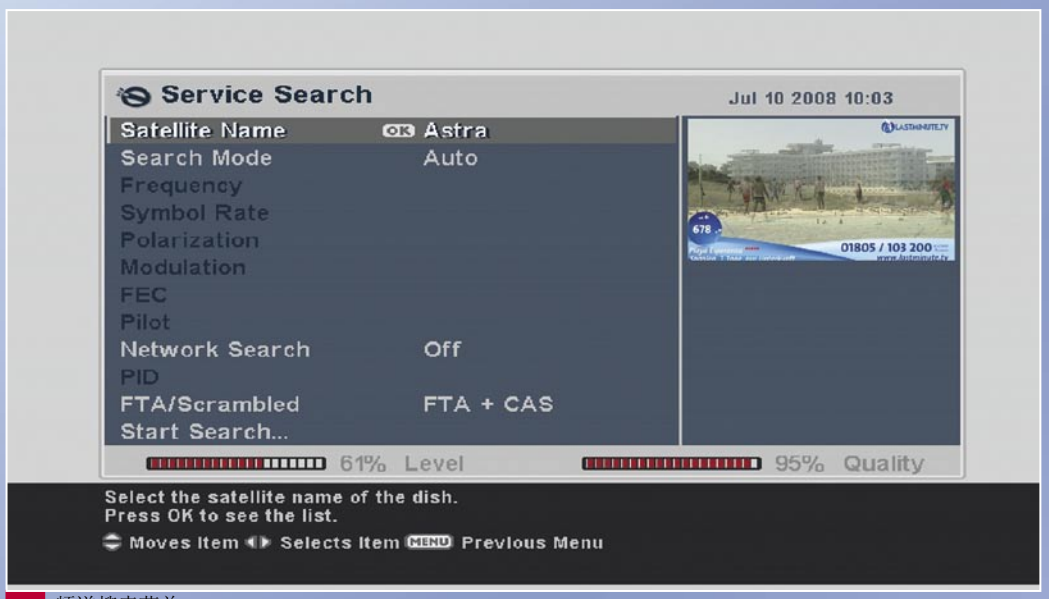
不管我们在接收机上进行什么操作，我们都没有在录制和重放的时候发现任何冲突和停顿。

总之，我们没有发现其性能与内置硬盘的接收机有任何不同。这使用户具有一个优势：具有更大的弹性来使用外接存储装置，如携带其到其它地方。

录制在外接硬盘或U盘上的节目也可以在个人计算机上播放，或使用适当的工具软件烧录在DVD光盘上。而录制的高清电视节目在我们的计算机上播放时也没有任何问题。

Topfield 始终不断地在努力改进其产品。接收机可以通过卫星、U盘或者其它接口进行软件更新。这使得用户可以轻松地更新接收机的软件。

Topfield通过其网站免费提供频道目录编辑工具软件：www.i-tpfield.com



频道搜索菜单

专家的结论

Thomas Haring
TELE-satellite
Test Center
Austria

\+

TF7700HSCI 是一款优质的兼容标清和高清电视标准的接收机，它具有多种实用功能。由于它具有简单易懂的OSD界面，对于整个的家庭来讲，可以将其作为日常使用的卫星接收机。

它具有基于 H.264 标准的DVB- S2格式的高清电视接收功能，并具有HDMI 输出端口，这些超级清晰的信号可以轻松地连接到等离子或 LCD 电视上。由于具有USB 2.0 接口，可以连接外置硬盘或U盘上，使TF7700HSCI 成为了全能的 PVR 接收机，录制的节目可以携带到任何地方并可以在电脑上重放。

\-

只能存储 5000个频道，后面板上还应该有个主电源开关。

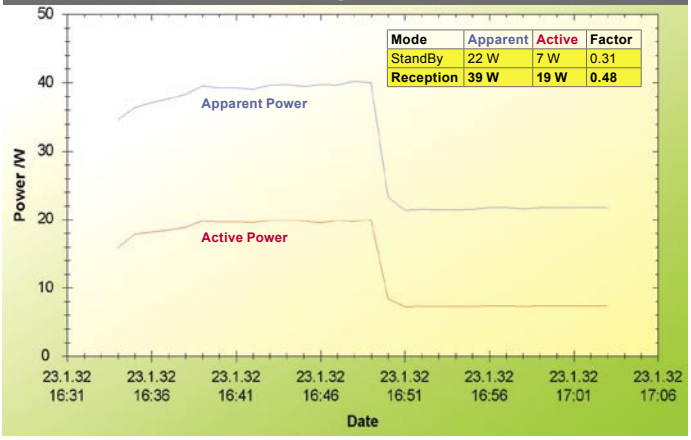
TECHNIC

DATA

Manufacturer	Topfield, Seongnam/Korea
Fax	+82-31-7082607
E-Mail	inquiry@topfield.co.kr
Model	TF7700HSCI
Function	Digital Satellite Receiver for SDTV/HDTV in DVBS and DVBS2 (QPSK/8PSK) MPEG2 and MPEG4
Channel Memory	5000
Symbolrate	2-45 Ms/sec.
SCPC Compatible	yes
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
USALS	yes
HDMI Connection	yes
Scart Connectors	2
Audio/Video Output	3 x RCA
Component Output	3x RCA
S-Video Output	no
UHF Modulator	no
Programmable 0/12 Volt	no
Digital Audio Output	yes
EPG	yes
C/Ku-Band Compatible	yes
PVR Function	yes (via external USB 2.0 storage medium)
Power Supply	90-250 VAC, 50/60 Hz
Dimensions	43/26.5/6cm
Weight	2.9kg

ENERGY

DIAGRAM



（能耗/图）最初的 15 分钟：进行频道切换操作，录制节目， 重放,等等。第二个 15 分钟：待机

信息条 |

扩展EPG |

带有操作菜单的频道目录 |

录制高清电视节目 |

浏览先前录制的节目 |

PROMAX

TV EXPLORER II+

Panoramic 6.5" screen visible under direct sunlight !

- ✓ Spectrogram*
- ✓ Merogram*

- ✓ HD (DVB-S2) Measurements
- ✓ MPEG-2 decoder & CAM interface
- ✓ Constellation diagram & MER by channel
- ✓ Video and Screen capture

FREE automatic updates with NetUpdate

Spectrogram and Merogram: monitors spectrum and MER by channel to trace impulsional impairments (*patent pending)

www.promaxelectronics.com

+34 93 260 20 02

INFOSAT V055 Primary Focus Dish
正馈天线

TELE SATELLITE AWARD & BROADBAND 10-11/2008
INFOSAT V055 PRIMARY FOCUS DISH
Lightweight dish for C-band, easy to assembly and elegant looking

如果你是一个住在欧洲的卫星爱好者,那么对你来说Ku波段卫星是非常普通的。但是,你有没有想过要尝试探索 C 波段的神秘世界呢? 你可能会想C 波段天线要很大、很重,也很难看。但是,也不尽然。对于尺寸大小,你改变不了太多。C 波段的波长大约是Ku波段的3 倍,所以要取得近似的增益, 天线也一定要有 3 倍大。但是,你不一定要选用一个很坚固的实体天线,可以选用铝制的网状天线。这样,你就会使天线重量减轻许多。

安装

INFOSAT 的 V055 型天线是一款直径为 1.65米的铝制网状天线。它分别装在三个包装盒里。第一部分是四块反射面,第二部分是馈源杆和立柱,第三部分是螺丝、螺母和垫圈等紧固件,还有其他东西。反射面部分的总重量只有3.8 公斤,这就是说打开包装后每一片的重量还不到 1 公斤。

我们打开包装并寻找安装说明,但生产厂家没有提供。于是我们只好自己根据各个部分的实际构造和尺寸,将紧固件分类后来进行安装。这并没有花费我们太多的时间。虽然安装很简单,但是如果 INFOSAT能够为用户提供一份说明,那更好了。将四块反射面组装起来真的很容易。我们很快就做完了,于是开始着手安装需要一些技巧的支架和立柱部分。正好,在我们的车库中有一块密度板,幸亏我们没有把它丢掉。这回我们可以说,在我们车库中的东西都会有用处。在装上四个调整支架后之后, 我们就用这块密度板作为立柱的水平基础。我们又在基础上安装了三只腿,支起了立柱。把反射面装到立柱上就不太容易的,需要精确地进行安装。

将反射面安装在立柱上之后,最后一个步骤是安装四个馈源支架,当然,很简单。好了,天线就可以进行测试了。我们说不好这么轻的天线能够给我们提供什么。

The V055 1.65m dish is delivered in three packages

TELE-satellite World www.TELE-satellite.com/...
Download this report in other languages from the Internet:

Arabic	العربية	www.TELE-satellite.com/TELE-satellite-0811/ara/infosat.pdf
Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-0811/bid/infosat.pdf
Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0811/bul/infosat.pdf
Czech	Česky	www.TELE-satellite.com/TELE-satellite-0811/ces/infosat.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-0811/deu/infosat.pdf
English	English	www.TELE-satellite.com/TELE-satellite-0811/eng/infosat.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-0811/esp/infosat.pdf
Farsi	فارسي	www.TELE-satellite.com/TELE-satellite-0811/far/infosat.pdf
French	Français	www.TELE-satellite.com/TELE-satellite-0811/fra/infosat.pdf
Greek	Ελληνικά	www.TELE-satellite.com/TELE-satellite-0811/hel/infosat.pdf
Croatian	Hrvatski	www.TELE-satellite.com/TELE-satellite-0811/hrv/infosat.pdf
Italian	Italiano	www.TELE-satellite.com/TELE-satellite-0811/ita/infosat.pdf
Hungarian	Magyar	www.TELE-satellite.com/TELE-satellite-0811/mag/infosat.pdf
Mandarin	中文	www.TELE-satellite.com/TELE-satellite-0811/man/infosat.pdf
Dutch	Nederlands	www.TELE-satellite.com/TELE-satellite-0811/ned/infosat.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-0811/pol/infosat.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-0811/por/infosat.pdf
Romanian	Românesc	www.TELE-satellite.com/TELE-satellite-0811/rom/infosat.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-0811/rus/infosat.pdf
Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0811/sve/infosat.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0811/tur/infosat.pdf

Available online starting from 26 September 2008

C 波段线性极化接收

在欧洲,没有太多的 C波段线极化卫星信号可以接收。多亏有卫星天线指南(www.dishpointer.com) 和SatcoDX,(www.satcodx.com)的帮助,我们找到了 4个这样的卫星。

其中之一的 BADR-C 卫星仰角是 30°。其余的3个卫星ABS-1、TELSTAR和 NSS-10的仰角只有 10 °左右。我们的担心变成了现实。 我们能做的就只有接收欧洲的BADR-C卫星了。在我们的频谱仪上,其余的卫星信号甚至连最小的频谱尖峰也没有冒出来过,四周的树木挡住了我们。那一时刻,我们真后悔没有将《国际卫星电视》的测试中心设在摩天大楼的屋顶上。

来自26 °E的 BADR-C 卫

INFOSAT
INFOSAT
INFOSAT

四块反射面由厚纸板做保护。

反射面被取出放置着。

…这是其余的部件者。

由于重量很轻，所以组装反射面很容易。

然后是紧固螺丝。

仰角靠一个长的螺杆来调整。

这是临时准备的立柱水平基础。天线立柱被放置在密度板上，并通过支架固定好。

好了，一切就绪，准备通电测试。

TeVii

Watch HD, Record on HDD

C500
C CA USB

S500
S2 CA USB

S650
S2 USB

S460
S2 PCI

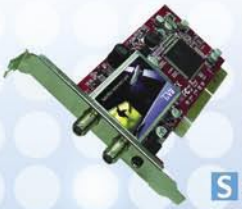
- DVB-S/S2/C (AVC/H.264)Compliant
- 3rd Party software ready
  ProgDVB/MyTheatre/SkyGrabber/FastSatFinder
- Multiple CA Support (S500/C500)
- Vista 32/64 bit & Linux driver Support

LooK For Distrubutors In Your Region

Please Contact matthias@tevii.com
www.tevii.com
TAIWAN

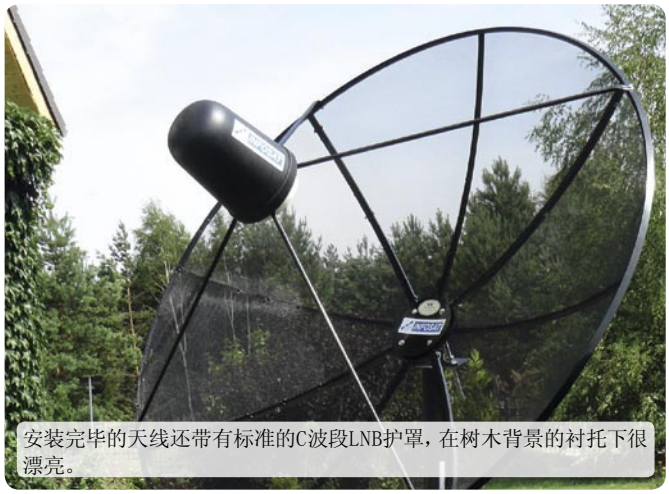
High Speeed Broadband via Satellite

S 600



S 420

PLANETSKY SATGATE SpectrumSat SPACEGATE OPEN-SKY SkyDSL RADUGA INTERNET CTB SATCONXION


安装完毕的天线还带有标准的C波段LNB护罩，在树木背景的衬托下很漂亮。

测试和调整天线。我们用一个水平尺来测定仰角，通常会很接近正确值。

星信号非常非常强。我们收到了3880H (27500,3/4) 转发器，信号强度为84 dBμV，而 C/ N 为12 dB，边缘噪音为6 dB。另外一个数字转发器4040H(27500,3/4) 也不错。强度为 84.1dBμV，而C/N 为12.6 dB，边缘噪音为: 6.3 dB。好极了!

模拟转发器的信号相当强，也很清晰。C/N 值比数字转发器高（很自然），但是你能想到还会有 C/ N=23.5 dB的吗!? 我们记录到3996H (PAL 制) 转发器（半岛电视台英文频道）就传输着这么强的信号。

Ku波段线性极化接收

虽然网状天线是专门用于C波段的， 我们还是想用正馈Ku波段LNBF来试试。在Ku波段接收的效果不是很强。我们测试了 HOTBIRD 卫星(13 °E)上的一个转发器。应当说它比90 cm 偏馈天线的效果还要差些(12 dB VS 12.5 dB)。我们期望它的性能能达到 120 cm 的实体天线，但是想起来对于Ku波段来说，网状天线不是最好的选择。一些噪音会从地面反射回来并通过网孔到达高频头。

我们也尝试用了普通的偏馈Ku波段 LNB，因为这对于我们的读者来说可能是相当有趣的，我们就把它安装在了INFOSAT V055 天线上。从理论上讲，这样的 LNB 有很高的 f/ D （焦径比） (0.6)，因此它只能“看见”天线焦点中央的主要部份。

理论被我们的测量证实了。比较了信号质量， 只比正焦的低了 1 dB LNBF(C/ N=11 dB)。而像HOTBIRD这样强信号的卫星仍然用如此“错误的” LNB 在 V055上接收到。

兴趣所在：尝试接收仰角极低的C波段信号。

AB IPBox 900HD

UNCOMPARABLE WITH OTHER HDCI RECEIVERS, LINUX INSIDE !

- SATELLITE, CABLE OR TERRESTRIAL BOX HD
- eSATA, USB2.0 FOR HDD
- ETHERNET
- NEW DESIGN
- 2 x CI SLOT
- WEBINTERFACE, HDMI WITH HDCP, YPBPR

Timeshift Pauselife TV

ETHERNET

JPG

MP3

RECORD & PLAY

ab-com

www.abipbox.com

BUILDING CITY OF THE FUTURE TOGETHER!

www.eebc.net.ua

6th EASTERN EUROPE EXHIBITION AND CONFERENCE IN TELECOMMUNICATIONS AND BROADCASTING

EEBC 2008
Telecom & Broadcasting

PRODUCTS, SERVICES, TECHNOLOGIES AND SOLUTIONS FOR:
- TELECOMMUNICATIONS
- BROADBAND SYSTEMS
- INTERNET
- BROADCASTING
- CONTENT PRODUCTION

OCTOBER 29-31
KIEV, UKRAINE
"KievExpoPlaza"

General Internet Partner

General Information Sponsor
ИД «СофтПресс»

Media Partners

Contact information: TECHEXPO company (Ukraine) tel/fax:+38 044 5010209 e-mail: info@eebc.com.ua http:// www.eebc.net.ua

EEBC 2008
Telecom & Broadcasting

6-я Восточноевропейская выставка и конференция по телекоммуникациям и телерадиовещанию

29-31 октября 2008
КиевЭкспоПлаза, Киев, Украина

ПРИГЛАШЕНИЕ

INVITATION

6th Eastern Europe exhibition and conference in telecommunications and broadcasting

29-31 october 2008
KievExpoPlaza, Kiev, Ukraine

спонсоры билетов:
tickets sponsors:

www.eebc.net.ua

C 波段圆极化接收

在我们的驻地，有许多圆极化的 C 波段信号可以接收，但口径都得大于1.65米。然而有一些是可能收到的。我们用天线试着接收了22 °W的NSS-7 和49 °E 的YAMAL 202。我们得到的 C/N 为6～7d，其EIRP 为 40 dBμV。这就是说至少要使用 1.5米的天线来接收，而7 dB的 C/N值是我们接收的上限了。

结论

V055 是一款重量较轻的网状天线，它可以很容易地安装在花园里。其1.65米的直径是在欧洲接收C 波段信号的最小值了， 但是在很多其他地方接收 C 波段卫星还是足够的。V055 的优点在于它安装简便， 而且适宜放置在庭院里。其最佳用途就是作为固定天线来接收 C 波段卫星。

现在用一个正馈的Ku波段LNB 来测试天线。

专家的结论

Jacek Pawlowski
TELE-satellite
Test Center
Poland

\+

INFOSAT V055 是一款很好的固定天线，它安装容易，外形典雅。很明显，它不是一个很大很难看的天线！

\-

因为它的结构精细纤弱，所以容易变形，需要小心处理。

TECHNIC DATA

Manufacturer	INFOSAT INTERTRADE CO., LTD.
Website	www.infosats.com
Email	sales@infosats.com
Tel./Fax	+66- 2- 961-9161-3 / +66- 2- 961-8587
Model	V055
Function	1.65 m Primary Focus Dish
No. of segments	4
Focal length	63 cm
Depth	28 cm
f/D ratio	0.38
Material	Aluminum mesh 0.9 mm
Operating frequency	3.4 ~ 12.75 GHz
C-Band gain	35.5 dB
Ku-Band gain	42 dB
Stand pole	1 m, ∅ 2"
Reflector weight	3.8 kg
Mounting stuff weight	3.5 kg
Pole and leg supports weight	2.6 kg

SPAUN™
www.spaun.com Quality made in Germany

2008 SPAUN NEWS

The new STANDARD CLASS
SAT-Multiswitches for 8 SAT-IF - Inputs

NEW

SMS 93209 NF

DiSEqC Monitor TP 216
Test - Devices

NEW

TTW 12 F
Terrestrial Isolation Diplexer

NEW

SPOAX
SPAUN Coaxial Cable

NEW

Accessories such as connectors and tools

NEW

SPAROS 609
TV Signal Analyzer

Byk-Gulden-Str. 22 · 78224 Singen
Phone: +49 (0)7731 - 8673-0 · Fax: +49 (0)7731 - 8673-17
Email: contact@spaun.com · www.spaun.com

Imperial SatBOX HD

A Perfect HDTV Receiver

Thanks to the emergence of HDTV, or high definition television, satellite receivers are going through a substantial redesign. Instead of 576 lines, this new technology brings with it nearly twice that amount, 1080 lines, and offers therefore a marked improvement in picture quality. The Imperial SatBOX HD receiver that we tested lets you receive not only DBS-S2 signals in MPEG2 (H.262) but also signals in the newer MPEG4 compression (H.264). At the same time, the video signals are now carried to the TV digitally with the new HDMI connections.

When I turned on the Imperial SatBOX HD for the first time, I sat there mesmerized by the high resolution transmissions for almost an hour. I surfed from ASTRA19 to HOTBIRD13 and from ASTRA 28.2 to ASTRA 23.5. Through it all I enjoyed the spectacular landscapes and the animal portraits that could be seen on the Demo channels. It's a nice feeling knowing that you are witnessing the birth of a new technology even if for the most part it's still in the starting gates in Europe.

I like the Imperial SatBOX HD. It weighs only about 2.2 Kg (4.8 LBS), measures 340x248x65 mm and therefore fits nicely in almost any entertainment center. Its power consumption is relatively low, in standby mode it uses only 12W and when fully operational 17W (with antenna motor it's more like 18W).

The sensitivity of the tuner is above average and its operating system is fast and comes with a number of convenient functions.

In addition to the Standby button on the front panel, there are seven more buttons that let you work through the menu system without the need of the remote control. The dominant feature on the front panel would have to be the 13-character alphanumeric display. It shows not only the channel name but also provides information on a number of the menu functions. The two CI slots plus the Conax card slot lets the box receive up to three different encryption systems at the same time. This is especially critical since HDTV is mostly available with encrypted PayTV packages.

Aside from the LNB In/Out and the two Scart jacks on the rear panel, there's also an HDMI output. The latter provides a digital output of up to 1080i lines of resolution whereby this line structure is also possible with the 576 lines of a normal DVB-S broadcaster thanks to upscaling.

The annoying line structure disappears with a compatible TV; this makes for enjoyable viewing even on larger flat screen TV's. Top quality stereo systems can be connected optically to the S/PDIF output or via the RCA jack.

Software upgrades can be uploaded through the RS-232 interface using a null-modem cable. The USB jack and the Ethernet connection are currently not active and are planned for a later version. The main power switch is a useful way to help save energy but it also makes the software upgrade process a little easier.

The receiver has an

above-average capacity of 7000 channels. This means there is a large memory reserve since the available FTA channels in Europe number at most 2500 leaving plenty of room for encrypted channels.

Memory management encompasses every satellite and 32 Favorites lists divided into TV and radio channels. They can be completely edited; entries can be locked, deleted, renamed or moved. Transponders can easily be added although no more than 16 satellites can be stored.

If you access the channel list with the OK button, you can scroll within the channel list without actually switching to another channel – a second push of the OK button is needed for that to happen. For every channel the associated frequency and polarization is shown.

With the left cursor button an additional menu can be called up with which you can access a Favorites list and the channel list. The remote control really doesn't need a Satellite button anymore.

With multiple satellites, channel management becomes a little more awkward. Moving and deleting channels can only be done with the entire channel list displayed; it might get a little confusing to keep track of what channel goes with what satellite.

This problem is somewhat solved by the fact that each channel keeps the same channel number regardless of what list you happen to be looking in at that moment.

With every channel change an Info bar appears at the bottom of the screen for 3 to 30 seconds (user-settable) that provides:

- the name and number of the channel
- the name of the current program
- the name of the next program
- the date, time, audio and language

Euro1080 on Astra23

Channel list for BBC HD

- $ display
- availability of EPG, teletext and subtitles
- name of the satellite, transponder and frequency
- signal quality bar graph

This Info bar can also be called up with the Info button.

A second push of the Info button displays a description of the currently running program. This data can also be viewed along with a thumbnail image of the current video by pressing the EPG button.

The EPG can show programming information for five channels at the same time for a week in advance, as long as this data is available in the first place. A 10-event timer is integrated into the EPG to make it easy to preprogram up to ten different programs.

The teletext function is quite sophisticated: every page is automatically downloaded by pressing the yellow Teletext button. Every page can therefore be accessed instantly when needed. The cursor buttons let you switch pages one at a time or by the hundreds just as fast.

Not all of the DiSEqC protocols are available. DiSEqC 1.0 lets you connect up to four fixed antennas and there's a helpful tool included to calculate azimuth and elevation for every satellite that can be seen from your location.

For motorized antennas up to 16 satellite positions can be set up manually with DiSEqC 1.2 or automatically with USALS.

The channel scan can be set to search by satellite, transponder, DVB-S or DVB-S2, FTA and/or encrypted channels. The scan itself is quite fast: HOTBIRD was completely scanned in roughly four minutes.

The channel scan must access a transponder list in order to work; without a transponder list a channel scan cannot be performed since, just like the previous model that was not an HDTV box, a Blind Scan function is not available.

Expert Opinion

Heinz Koppitz
TELE-satellite
Test Center
Germany

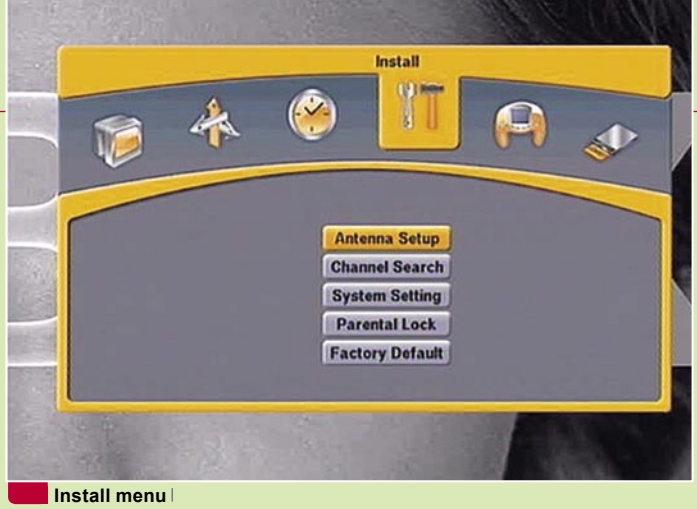
+

This receiver provides perfect HDTV video. It has no problems decoding older DVB-S signals and also the new DVB-S2 standard. Its various interfaces and functions are comfortable and easy to use.

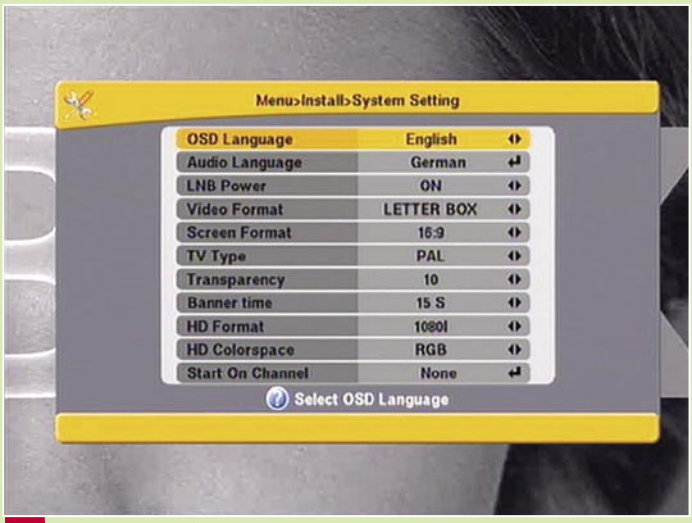
Large 13-character alphanumeric display
Sensitive tuner
DiSEqC 1.2 plus USALS

-

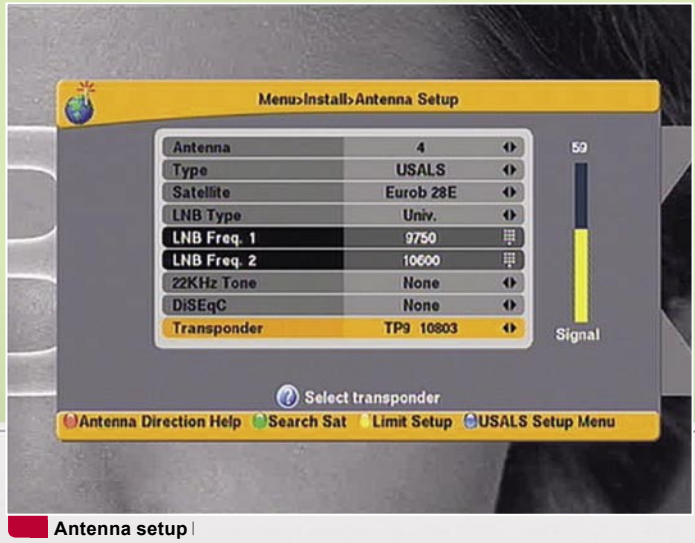
Fully preprogrammed only for ASTRA 19E and HOTBIRD 13E.
A maximum of only 16 programmable satellites.



Install menu



System setting



Antenna setup

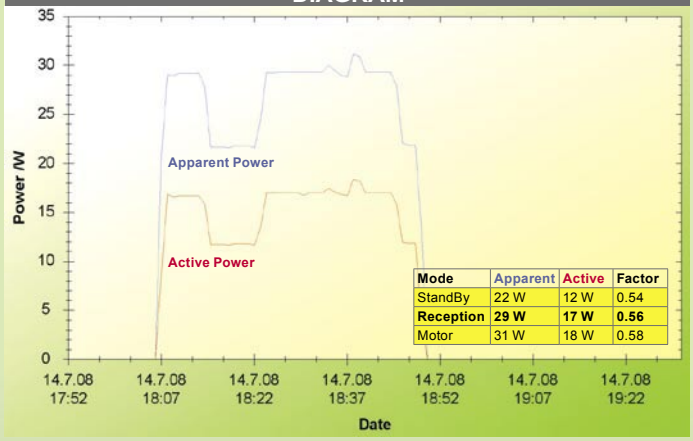
TECHNIC

DATA

Distributor	DVB Shop, Brehnaer Strasse 18 D-04509 Neukyhna OT Pohritzsch, Germany
Tel	+49-34954-31960
Fax	+49-34954-49233
E-Mail	webmaster@dvbshop.net
Website	www.dvbshop.net
Model	IMPERIAL SatBOX HD
Power Supply	175 ... 250 V AC
Power Consumption	6/12 Watt (Stand-By/Reception)
Size	340x248x65 mm
Weight	2200 g
DiSEqC	1.0, 1.2, USALS
Satellites	3 preset plus 13 additional positions
Program Listings	All, Satellites (each for TV and Radio)
Favorites	32 (each for TV and Radio)
Teletext	Full Page Memory
EPG	Extended 5 Channel Display, Program Details for 7 Days
Timer	10 for all EPG Programs
Front View	Stand-By, Down, Up, Left, Right, Menu, OK, Exit, Alphanumeric Display, CI-Flap
Rear View	IF In/Out, 2xSCART, HDMI, RS-232, USB, Ethernet, 4xRCA (Audio L/R, Video, SPDIF), Optical SPDIF, Main Switch
Slots	2 Common Interfaces, 1 Conax-Slot

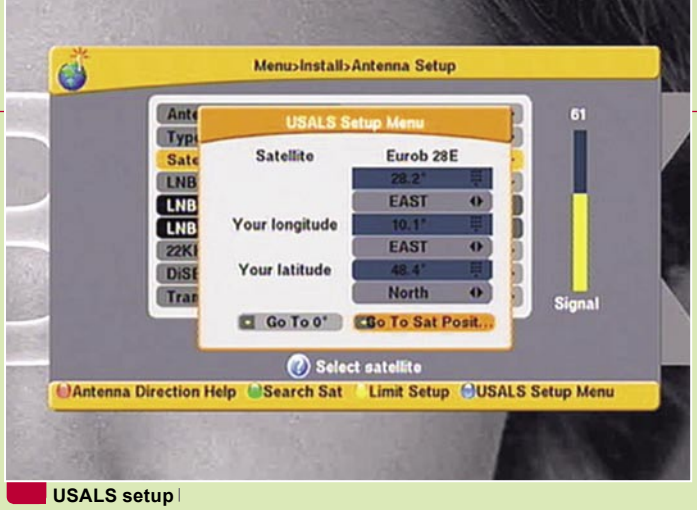
ENERGY

DIAGRAM

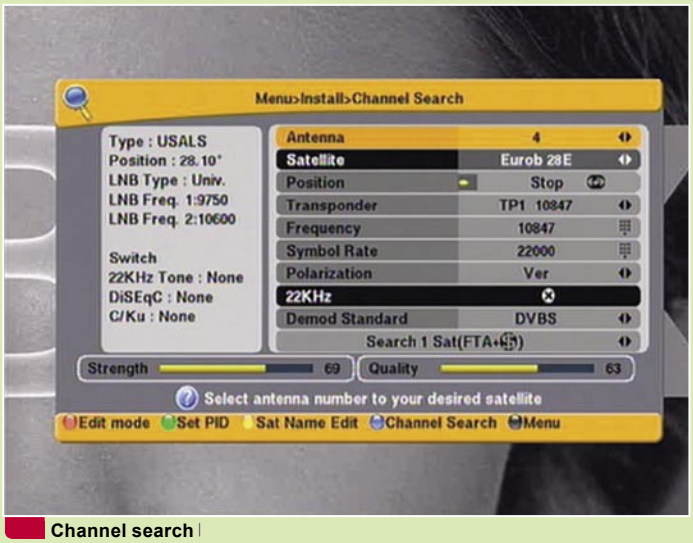


Mode	Apparent	Active	Factor
StandBy	22 W	12 W	0.54
Reception	**29 W**	**17 W**	**0.56**
Motor	31 W	18 W	0.58

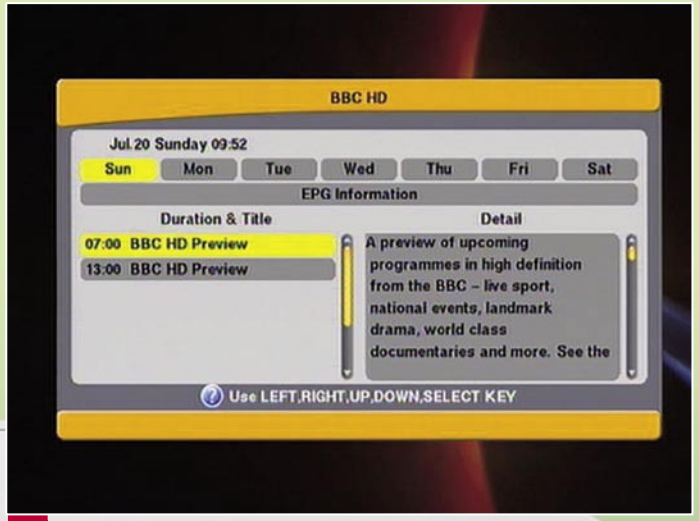
12W is used at the beginning and the end while in standby mode; the 17W used in the middle is with the receiver in operation – the 1W increase to 18W occurred while the antenna was moved from ASTRA 19E to TURKSAT 42.



USALS setup



Channel search



Info

Sonicview SV-360 Elite PVR

使用便捷的 PVR 接收机

PVR接收机每天都在追赶着时尚的步伐。现在有太多太多的卫星频道可供选择,显而易见它们为什么会不断求新求异了。当你晚上必须参加一个婚礼的时候,而喜爱的节目却正在播出,也许这正是你不想错过的拳击锦标赛。由于有了 PVR 接收机,任何节目都能录制下来,并在你方便的时候重放。

需要这个功能的用户在逐渐增加,越来越多的制造厂家开始生产PVR 接收机。Sonicview 也带着其双调谐器的 SV-360 精英型 PVR 卫星接收机加入到了这个行列。当然,我们想要领教这款机器究竟如何,几天前,Sonicview 的包裹邮寄到了,于是我们终于有机会一睹芳容了。

当包裹打开的时候,我们看到了这款漂亮的纯黑色卫星接收机,在其面板中间,是一条水平的、细细的镀铬条纹。这个条纹上还分布着两个小的按钮 (ON/OFF 和菜单按钮)和一组方向按钮 (左/右/上/下箭头和“OK”按钮),在前面板上,还装有接收机的第3个USB 2.0 接口。这些按钮完全可以让你在没有遥控器的情况下操作接收机。它们从面板上稍稍凹进去一些。因为个头较小,有些手指比较粗大的人可能在按动按钮时有一点小小的困难,特别是对于方向按钮。为了防尘,USB接口处有一个胶皮的保护封盖,它可以很容易地打开以便连接使用。

后面板也装备齐全。因为这是一款双调谐器的接收机,所以你会看到两组一一进一出的卫星信号输入输出接头。当然,还有典型的RCA 组合插口,以提供视频和音频输出。如果想要更好的视频质量,还有S视频输出端口。还有一组RCA 插座提供分量视频输出信号(Y、Pb 和 Pr)。旁边还有一个光纤S- PDIF接口,用来输出效果更完美的数字声频信号。再有就是RS-232接口、两个USB 2.0 接口和一个主电源开关。

电线接线带有北美标准的插头。接收机的供电标准为 95 ~250VAC ,50/60赫兹,因此可以在全世界通用,只需要加上正确的插座或相应的适配器就行了。这款机器是面向北美市场销售的, 所以也没有欧插。

和接收机不同,遥控器是银白色的,中心部位有一块黑色区域。遥控器的手感很好。和接收机相反,上面的这些按钮没有凹陷下去,因而能适合各种大小的手指来按动。方向和数字的按钮会在黑暗中发光,这样,当你在没有任何光线看电视时能轻易地看见它们!这个特征甚至可以帮助你在一个完全黑暗的房间里找到遥控器。该遥控器也可以用来控制你的其他电器,例如:电视、DVD或摄录像机等。总之,这是一个用途非常多的遥控器。

日常使用

我们看过了机器的外观,再让我们看看开机时表现吧。当我们打开它的时候,首先引起我们注意的是前面板左上方的 Sonicview 图标:当接收机接上电源 (主电源开关打开)时, 图标从后面被照亮。那发出柔和蓝光的图标使接收机更显典雅。当第一次使用SV-360 精英型PVR接收机的时候,它会询问使用什么屏幕菜单语言。你可以选择英语、法语、德语、西班牙语、意大利语、

TELE-satellite World www.TELE-satellite.com/...
Download this report in other languages from the Internet:

Arabic	العربية	www.TELE-satellite.com/TELE-satellite-0811/ara/sonicview.pdf
Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-0811/bid/sonicview.pdf
Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0811/bul/sonicview.pdf
Czech	Česky	www.TELE-satellite.com/TELE-satellite-0811/ces/sonicview.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-0811/deu/sonicview.pdf
English	English	www.TELE-satellite.com/TELE-satellite-0811/eng/sonicview.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-0811/esp/sonicview.pdf
Farsi	فارسی	www.TELE-satellite.com/TELE-satellite-0811/far/sonicview.pdf
French	Français	www.TELE-satellite.com/TELE-satellite-0811/fra/sonicview.pdf
Greek	Ελληνικά	www.TELE-satellite.com/TELE-satellite-0811/hel/sonicview.pdf
Croatian	Hrvatski	www.TELE-satellite.com/TELE-satellite-0811/hrv/sonicview.pdf
Italian	Italiano	www.TELE-satellite.com/TELE-satellite-0811/ita/sonicview.pdf
Hungarian	Magyar	www.TELE-satellite.com/TELE-satellite-0811/mag/sonicview.pdf
Mandarin	中文	www.TELE-satellite.com/TELE-satellite-0811/man/sonicview.pdf
Dutch	Nederlands	www.TELE-satellite.com/TELE-satellite-0811/ned/sonicview.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-0811/pol/sonicview.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-0811/por/sonicview.pdf
Romanian	Românesc	www.TELE-satellite.com/TELE-satellite-0811/rom/sonicview.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-0811/rus/sonicview.pdf
Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0811/sve/sonicview.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0811/tur/sonicview.pdf

Available online starting from 26 September 2008

俄语、土耳其语、荷兰语、捷克语和波兰语。但你的选择时间不要太久，否则机器会自动选择缺省的语言，当然是英语了。如果这样也不要紧，可以进入菜单再改成适当的语言。

选择好语言后，接收机就会直接进入频道接收模式。由于没有存储任何频道，所以什么也看不到。这就是说我们必须去寻找我们想要看的频道。你可以按下遥控器上的菜单按钮进入到接收机的主菜单。主菜单分四个部分（安装、系统设定， PVR 和高级设定），而每部分又分为若干更多的子项。所有这些子项都可以在主菜单被加亮时在其右侧看到。当然，第一步是进入安装菜单，就是先要告诉接收机你要干什么。当安装菜单在屏幕上被加亮时， 按下“OK”按钮后，会让你再选择四个子项。屏幕上出现天线设定后， 你就可以设置与你的接收机相匹配的天线类型。

在天线设定界面的左边有所有的天线类型。在右边是一个图示，绿色的线条表示信号的强度，红色的线条表示信号的质量。同时，它们也以数字的形式显示出来。根据柱状线的长短就可以直观地判断出信号强度和质量的强弱好坏。

在开始之前，你要记得后面板上所接驳的天线输入。如果你把两个接口都用上了，还要记得哪个卫星天线接入哪个接口。当然，第一步是选择你想要接收的卫星，该机提供了相当广泛的选择机会：SV-360精英型 PVR 接收机为你预置了 195个卫星！而且你还能增加5个！目录里有所有较新的卫星，也有已经没有节目传送和一些更改名称的卫星。当然，最新的卫星也许会没有，但是借助

遥控器上那些彩色的功能按钮，可以很方便地增加、编辑或删除卫星。

Sonicview 支持 DiSEqC 1.0/1.1/1.2/ USALS 协议，它允许你将其两个调谐器连接到几乎任何类型的天线上，从单一天线到一个极轴天线都没有问题。在北美，最流行的 (FTA) 卫星是97° W 的INTELSAT 美国5 号卫星。很自然,我们想要开始的接收机测试就从这个卫星开始。于是同轴电缆就被连接到接收机上，我们选择一号调谐器，就进入了天线设定界面。LNB 类型/频率设定为单本振/10750 MHz。当然，如果你使用的LNB本振频率(LOF)不同,你还可以到储存目录中找到相应的 LOF。如果目录中还没有该 LOF, 你也可以使用遥控器上的数字按钮手动输入。

接下来，我们从该卫星上预置的目录中选择一个转发器。用遥控器上的左/ 右箭头按钮来选择一个工作着的转发器，你也可以按下“OK”按钮来浏览目录里所选卫星的所有转发器。对于INTELSAT 美国 5号卫星而言， 其转发器目录应该是最新的。可以说，该机储存了所有最新的卫星转发器数据。

根据转发器目录的显示，你可以通过加亮某一转发器然后按下“OK”按钮来进行选择， 如有必要,你还可以用遥控器上的彩色功能按钮在屏幕的右边增加、编辑或删除卫星转发器。屏幕下面显示着什么功能使用什么颜色的按钮。

我们也提到， 所有的卫星转发器数据通常是最新的。如果你碰巧在卫星转发器上遇到一点小问题,编辑一下就可以了。但是如果你不愿意动手， Sonicview的盲扫功能将会替你做自动更新转发器目录的工作。只需在天线设定界面里按下遥控器上的蓝色功能按钮就可以了。你可以选择一种卫星扫描方式或多种卫星扫描方式。

我们的这个测试是选择一种卫星扫描方式。我们选择扫描两种极化(垂直和水平线极化)，当然也可以选择其中一种。然后，我们用快速扫描代替了详细扫描。按下“OK”按钮开始盲扫。它在4 分 38秒内完成了对两种极化的扫描，不用看表，总扫描时间会显示在屏幕上。这其中还有一大部分时间是用来扫描从 12.2 到 12.9GHz的频率区间，对于 INTELSAT 美国 5号卫星来说，这段额外的时间根本就是不必要的。没有方法限制盲扫的频率范围，若要设置频率范围就会稍微节省些时间。当然，我们也想要试试详细盲扫。实际上详细盲扫和快速扫描的时间相差不太多，而且找到的频道数量相同。

Main Menu

这样，现在我们的目录中就拥有了所有最新的频道。当观看某一频道的时候，按下“OK”按钮将会显示出频道目录。当你浏览频道目录时，会注意到一些目录上的不同。举例来说,目录可能包括FTA 和加密的频道。如果你对加密频道不感兴趣， 可以再次使用遥控器上的彩色功能按钮来消除。当显示频道目录时， 按下红色功能按钮则会显示 FTA 频道。再次按下时就会显示包括加密频道的最初目录。频道分类目录也很容易显示： 当显示频道目录时,按下黄色功能按钮就会显示分类方式 (按字母顺序、按频道序号、按卫星或按缺省值)。

在频道目录界面力，你也可以按动绿色的功能按钮来在不同的调谐器之间很容易地切换。SV-360 精英型 PVR 接收机使用了多画面技术，在同一屏幕上可以同时浏览4、 9 或 16个不同的频道，这样使你以最快的速度获知现在电视上播出什么。你还可以使用方向按钮找到感兴趣的频道，然后按下“OK”按钮来观看选择的频道。

在相同转发器频道之间的切换只需要1秒的时间。不同转发器频道之间的切换

User Settings

The Original Irdeto Smart Card, Zeta version Blank Card

Available for sale at US$ 10 / card only

Special Discount for Big Quantities

INFOSAT

INFOSAT INTERTRADE CO., LTD. - www.infosats.com
46/22 Moo.5 Tiwanon Rd., Banmai., Pakkred., Nonthaburi 11120 Thailand
Tel. (66) 2- 961-9161-3 Fax: (66) 2- 961-8587 E-mail: niran@infosats.com

大约只需要1.5秒的时间。这些时间是你得承受的，但是并不能冲淡你换台的兴致。

当然,也可能有些频道你并不想看，或者有些频道需要重新命名。为此，你只需进入到频道编辑界面，它在安装菜单里的子菜单里。频道编辑界面出现时，在屏幕的右边会出现一个小的窗口播放目前的频道，而左边则是频道目录。在这里甚至还有信号强度和质量的柱线图示。在显示频道编辑界面的时候,你也可以切换频道，按下遥控器上的“OK”按钮就可以浏览选定频道。还有，使用遥控器上的彩色功能按钮可以很容易地进行删除、重新命名或剔除。你甚至可以在这个界面对频道进行分类！ 显示软件版本信息和重新恢复出厂设定功能也在安装菜单里。

系统设定界面分成四个子项，允许你对接收机进行个性化的设置。举例来说， 从用户设定界面里，你可以改变菜单语言、调整菜单透明度、选择信息条显示的时间长短等等。在A/ V 设定界面里，你可以选择PAL制还是NTSC制，选择屏幕的宽高比 (4:3 或16:9)，或选则显示模式(邮箱式、浏览式或全屏式)。在时间设定界面里，你可以调整所有的时钟设定。时间设置是手动或自动，也可以打开或关掉。当然，有些频道是你不想要小孩儿看见的，童锁控制界面可以让你限制播放任何儿童不宜的节目。在这个界面里，你可以分别限制进入接收机、进入菜单或进入加密频道。

个人录像机

是的，这是一个 PVR录像机，但是如果你仔细看， 就会发现问题： 硬盘在哪里？你确实需要一个硬盘,不是吗？ 是的，SV-360 精英型 PVR 没有内建的硬盘。你需要一个外接的存储装置。这可以是一个移动硬盘，也可以是其它的外部储藏装置。这就是为什么它有3个USB 2.0 接口的原因了。

为了测试，我们决定使用4 GB的U盘。它可以插入任何一个USB接口。为了方便，我们就用了前面板上的USB接口。录像的话很简单，只需按下遥控器上红色的按钮即可。当按下录像按钮的时候,接收机立即地开始录制当前频道上的节目。按下停止按钮录像就会结束。当第一个录像还在进行的时候， 你还想要开始第二个频道的录像,你只需要切换到第二个想要录像的频道，并且重复此前的步骤即可。两个频道将会同时被记录下来。按下停止按钮，会给你显示一个选项，是停止录制其中之一还是两个频道。

要想看看迄今储存所有的录像目录， 就要进入接收机的 PVR 菜单。你可以使用箭头按钮来浏览目录，然后按下遥控器上的播放按钮来播放所选择的录像。通过遥控器上的按钮可以实现暂停、回放、以各种不同的速度快速向前搜索以及慢速播放。

该机还有定时器功能，可以订制8个事件。因此，你可以在离家外出时来设定接收机录下你所喜爱的节目。甚至还有时间切换功能，来保存某人来敲你家门时你正在观看的4星电影。

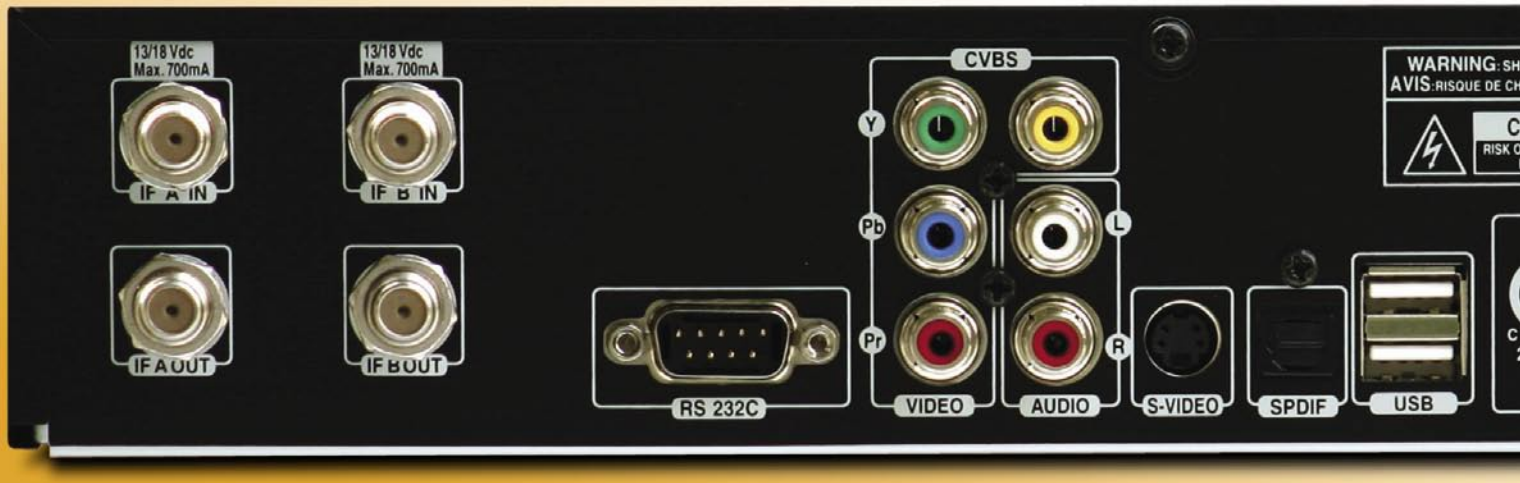
接收机还具有诸如画中画(PIP)等许多其它实用功能。它可以当作一个 MP3播放器使用，也可以用来显示数码照片，这样就可以用它来观赏上次假期里你和亲戚或朋友们的照片了。

用户设置 |

天线设置 |

PVR目录 |

画中画(PIP)频道目录 |



Professional Manufacturer of Satellite Dish Antenna & LNBF

Available Products:

Ku Band Offset: 0.35m-1.50m, C Band Prime Focus: 1.0m-2.4m, Aluminium Mesh Antenna:1.8m-5.0m

Ku Band LNBF: Single, Twin, Quad, Quattro, C Band LNB, All Kinds of LNB Clamps & Holders.

DISHSTONE™

SHENZHEN V4 ELECTRONICS CO.,LTD

Tel: +86 755 8214 6559, Fax: +86 755 8214 6560

Email: sales@dishstone.com

http://www.dishstone.com

TECHNIC DATA

Manufacturer	Sonicview USA, Inc., San Diego California, USA
Tel	+1-760-842-8931
E-mail	sales@sonicviewusa.com
Model	SV-360 Elite PVR
Function	Digital Satellite PVR Receiver with two tuners
Channel Memory	6000
Satellites	195 (plus 5 user-settable)
Symbolrate	1-45 Ms/sec.
SCPC Compatible	yes
USALS	yes
Audio/Video Outputs	yes
Component Outputs	yes (Y, Pb, Pr)
S-VHS Output	yes
S-PDIF Output	yes
USB 2.0 Interface	yes, three
Power Supply	95-250VAC, 50/60Hz

专家的意见

Ron Roessel
TELE-satellite Test Center USA

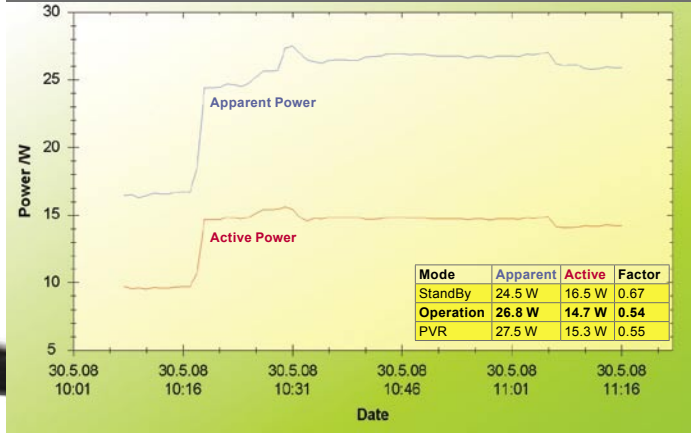
\+

Sonicview SV-360 精英型 PVR 接收机是目前市场上最容易使用的接收机之一。虽然为防万一也提供有一本详细的用户手册 （只有英语），但所有菜单基本上一看就明白。更多的软件功能都只能从一个位置进入，避免了要找遍不同菜单才行的弊病。很明显，这是一款功能众多，使用便捷、有趣的家用接收机。

\-

接收机没有射频输出调节，现在大部分电视都有多种输入方式， 这真的不是什么问题。盲扫时不能设定频率范围。

ENERGY DIAGRAM



Mode	Apparent	Active	Factor
StandBy	24.5 W	16.5 W	0.67
Operation	**26.8 W**	**14.7 W**	**0.54**
PVR	27.5 W	15.3 W	0.55

在待机之后接收机于 10:18被打开. 当插入U盘时，功耗会有一个从 14.7W 到 15.3W的微小跃升。11:05 ，接收机进入待机状态， 此时硬盘仍然工作着。

Venus New Millennium II-EP

轻松操控极轴电机

维那斯极轴电机驱动着维那斯天线，以前的杂志中介绍过该天线。而Millennium II-EP 型接收机则控制着这个电机。

近年来亚洲引入了很多卫星接收机技术，同时，大量接收机出现在中国和韩国市场上。这次，我们的亚洲发现之旅转向了曾经测试过接收机的印尼，去见识又一款接收机。很明显，这是一款专为亚洲市场制造的免费接收机，内置了传统的 36V 天控器。其品牌是维那斯，一些读者已经熟悉了，我们在2008年第8期介绍过他们分体天线的测试，现在这款接收机是为了驱动维那斯极轴天线电机而专门设计的，关于其电机的情况，我们将会在下一期加以介绍。

接收机的外壳为黑色，长宽为300×200mm，高为 60mm 。前面板上有基本的控制按钮， 红色的LED显示着当前频道的序号， 似乎不那么时尚。灰白色的遥控器功能齐全， 但是如果颜色和接收机更加匹配的话，也许就更好了。

后面板上的接口很简化。连同单一的天线输入接口还有一个 36V 电机控制接口。没有欧插和数字音频输出，只有AV和射频输出。立体声音频还是有的，后面板上还有一个 4 针的 RS232 接口。

我们所测试接收机的用户手册只有印尼语的。当然，在其他国家销售 Millennium II-EP 型接收机的时候，手册上会印有当地的语言。但是一个良好的测试还要看它在不用手册

TELE-satellite World www.TELE-satellite.com/...
Download this report in other languages from the Internet:

Arabic	العربية	www.TELE-satellite.com/TELE-satellite-0811/ara/venus.pdf
Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-0811/bid/venus.pdf
Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0811/bul/venus.pdf
Czech	Česky	www.TELE-satellite.com/TELE-satellite-0811/ces/venus.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-0811/deu/venus.pdf
English	English	www.TELE-satellite.com/TELE-satellite-0811/eng/venus.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-0811/esp/venus.pdf
Farsi	فارسي	www.TELE-satellite.com/TELE-satellite-0811/far/venus.pdf
French	Français	www.TELE-satellite.com/TELE-satellite-0811/fra/venus.pdf
Greek	Ελληνικά	www.TELE-satellite.com/TELE-satellite-0811/hel/venus.pdf
Croatian	Hrvatski	www.TELE-satellite.com/TELE-satellite-0811/hrv/venus.pdf
Italian	Italiano	www.TELE-satellite.com/TELE-satellite-0811/ita/venus.pdf
Hungarian	Magyar	www.TELE-satellite.com/TELE-satellite-0811/mag/venus.pdf
Mandarin	中文	www.TELE-satellite.com/TELE-satellite-0811/man/venus.pdf
Dutch	Nederlands	www.TELE-satellite.com/TELE-satellite-0811/ned/venus.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-0811/pol/venus.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-0811/por/venus.pdf
Romanian	Românesc	www.TELE-satellite.com/TELE-satellite-0811/rom/venus.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-0811/rus/venus.pdf
Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0811/sve/venus.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0811/tur/venus.pdf

Available online starting from 26 September 2008

时候的表现。我们进入接收机的引导菜单，把印尼语切换了英语，菜单的字体短而粗，感觉不太时髦。

初始设置

内置的天控器使用起来非常像我们过去使用的单体天控器，它存储有 60 个位置，用来分配给一个或多个寻找到新频道的卫星。每个卫星的位置要等到搜索到频道以后才会定义序号并连带着卫星的名称。因此记住每个序号很重要，避免以后弄混！

它不能自动进行设置，也没有东西两侧的极限位置设置。这就是说使用者要确定天线电机的极限位置以避免出现意外。所支持的DiSEqC协议可以用来切换4个 LNB的信号。

在卫星位置设置完之后，就该进行频道扫描了。接收机里面已经预置好了亚洲地区的18个卫星，因此如果这些可接收到的卫星其位置序号正确的话，那就简单多了。如果有需要，还可以增加新的卫星，而它们的名字还可以进行编辑。可以使用上/下按钮来在字母表里浏览并编辑新名称，但是不能按得太快！

增加新的频道也很简单。而我则不喜欢网络扫描造成的混乱和转发器目录里的无序状况，你怎么样？ 相信没有人会忍受。可以通过盲扫和手动输入频率的方式来增加频道。

该接收机盲扫的时间稍长些。它可以使用各种本振频率和 22kHz 开关功能来匹配任何全波段LNB，而一次扫描就覆盖高低两个波段也不可能。为了扫描全部 Ku 波段的频率，我们必须进行两次扫描。第一次， 将本振频率设定在 9750GHz,它会扫描到最高为 11.500GHz 的地方。第二次，我们再把本振频率改为 10600GHz, 打开22kHz 开关,然后再次扫描其余的频道。接收机会记住每个频道的LNB设定参数,选择频道的时候， 相应的正确记忆就会出现。

主菜单 |

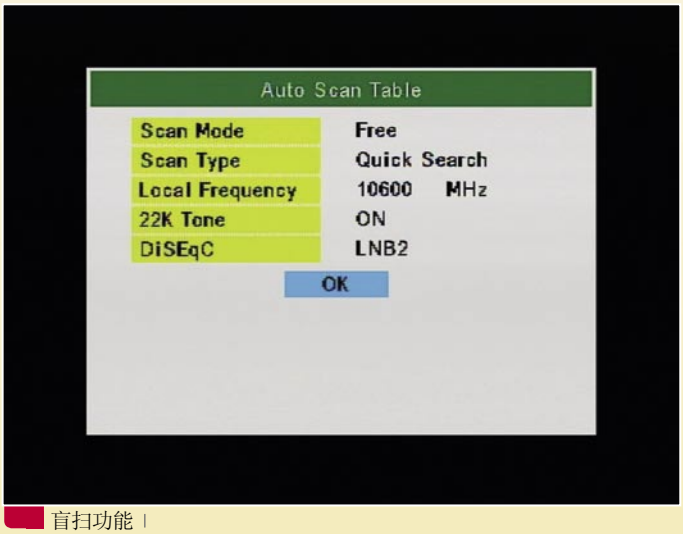
即使使用快速盲扫，其速度也很慢。搜索 HOTBIRD 卫星上的每一个频道总共耗时 56 分钟，但是由于亚洲卫星的转发器比较少，所以问题还不算大。按下遥控器上的任何按钮就会停止扫描,并保存已经发现的任何频道。名称相同的频道不能加到目录里,除非它们的参数有所不同。当符码率超过30的时候，很多盲扫接收机找出的符码率会稍微有些错

TELE SATELLITE AWARD & BROADBAND 10-11/2008
VENUS NEW MILLENNIUM II-EP
Easy to use receiver for big motorized dishes at an economic price

误。个别增加频道最好采用手动方式,所以最好是备有SatcoDX 图表,频率、极化方式和符码率必须都得有。一次全部频道的搜索会将发现的频道全部加到目录上,而不管此前是否存在。频道扫描后被排列起来储存。每次进入频道目录都可以进行上下移动、删除或者增加

日常使用

当设置完毕,最后看电视的时候, 按下“OK”按钮,机器就会显示出我们所有存储过频道的目录。该目录通过使用菜单按钮来简化。可以使用P+ 和 P- 按钮选择下个或上个卫星。

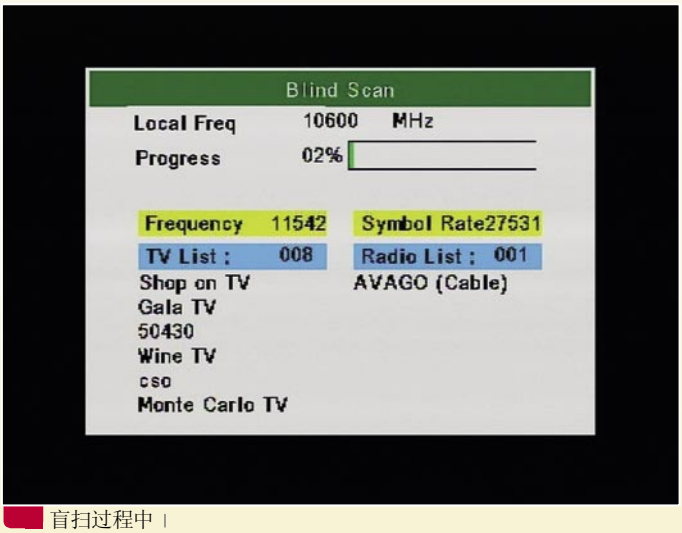


盲扫功能

一个喜欢的频道。喜欢的频道不能直接找到或进行编辑,只能在不分类的目录里去寻找具有红心形符号的频道名称。P+ 和P- 按钮用来在标记着喜欢的频道之间进行切换。电台频道也同样可以和电视频道一样来增加和编辑, 但是是从分开的目录和菜单进入。

该目录默认状态为显示所有的卫星,所以记得频道序号或者使用喜欢的频道功能会免去繁琐的浏览寻找过程。许多现代的接收机都有的按照字母顺序来寻找的方式在这里也很有用。

当从目录里选好一个频道之后按下按钮来观看的时候,图像会从原来的小视窗状态马上变成全屏模式, 这真“一触即发”啊。



盲扫过程中

图像的质量很不错,要知道我们只是选用了AV输出和射频输出。它也支持宽屏模式,而且表现力也不错。接收机默认连接的是4:3电视,而当它识别出是16:9 信号时,会在画面的上下方出现黑色的边框。对于日常观看

频道目录

而言，当我们需要设置频道和卫星时，也很简单容易。在频道之间的切换应该说很快，而按下退出按钮可以用来观看先前看过的频道。

当某一频道改变了PID码的时候，如果需要，可以快速编辑声音频道及 PID码。这样，对于这种微小的变化，我们就不必再回去进行盲扫或去手动输入频率了。按下信息按钮会在屏幕上显示出频道名称及其参数，以及可以再进行微调的天线位置。

频道信息和蓝色条 |

遥控器上的EPG按钮可以让我们同时浏览 9个频道的PIP 画面。通常，只有一个是活动的，而其余则是静止的。它没有图文电视功能。

总结

在完成初始安装之后，作为日常观看和浏览，如果不做更多的编辑和分类的话，该机还是完全可以胜任的。该接收机对于其维那斯电机的操控还是很不错的。即使菜单里还有几处还可以做得更整齐或更容易一点，但对我们使用该机而言仅仅是一点点小问题，根本不必去查阅印尼语手册，所以说，测试很容易取得成功了。

还应该增加能够分析频谱的功能，通常人们会由于卫星接收机只内置了天控器并导致成本增加而选择放弃。

专家的结论

Andy Middleton
TELE-satellite
Test Center
UK

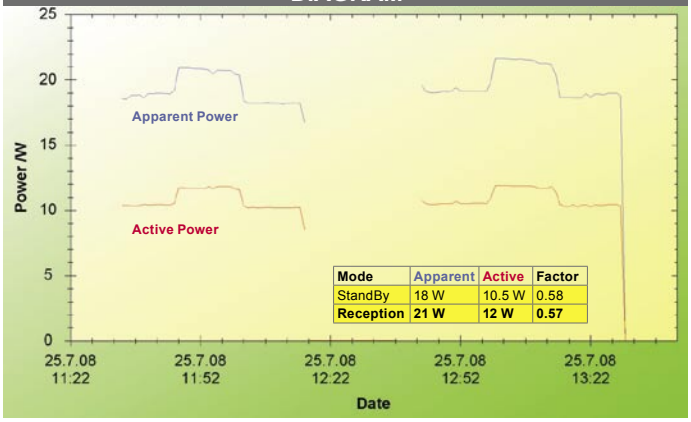
\+
简洁的频道数据存储和编辑
便于操控的36 V电机
卫星爱好者爱用的盲扫功能

\-
没有欧插及数字输出

TECHNIC DATA

Manufacturer	PT. Subur Semesta, Jln. Kamal Raya No. 8, RT. 0014/RW. 09 Tegal Alur, Jakarta Barat 11820
Tel	+62 21 5559733
Fax	+62 21 5559805 / 5555009
Email	subur@dnet.net.id
Model	Venus New Millennium II-EP
Satellites	60
SCPC compatible	yes
USALS	No
DiSEqC	1.2
Scart connectors	0
Symbol rates	2-45 Ms/sec
Audio/Video outputs	4 (two video + left/right audio)
UHF output	Yes, channels 21-69
0/12 volt output	No
Digital audio output	No
EPG	No
C/Ku-band compatible	Yes
Power supply	100-240 VAC, 50-60Hz

ENERGY DIAGRAM



AWARD Winning Satellite Receivers

TELE SATELLITE AWARD & BROADBAND 10-11/2008

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

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

TELE SATELLITE AWARD & BROADBAND 10-11/2008

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

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

TELE SATELLITE AWARD & BROADBAND 10-11/2008

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

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

TELE SATELLITE AWARD & BROADBAND 10-11/2008

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

Manufacturer	PT. Subur Semesta
Website	www.subursmt.com
Function	Digital satellite receiver for motorized dishes
DVB-S2/LAN	— / —
Channel Memory	4000
DiSEqC	1.2
S-Video/HDMI	— / —
Scart/Digital Audio	— / —

TELE SATELLITE AWARD & BROADBAND 08-09/2008

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

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

TELE SATELLITE AWARD & BROADBAND 08-09/2008

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

Distributor	DVBShop
Website	www.dvbshop.net
Function	Digital satellite receiver with CI-Slot
DVB-S2/LAN	— / —
Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 06-07/2008

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

Manufacturer	Arion, South Korea
Website	www.arion.co.kr/global
Function	Digital satellite PVR receiver with built-in Scaler
DVB-S2/LAN	• / —
Channel Memory	8000
DiSEqC	1.0 / 1.1 /1.2 / 1.3
S-Video/HDMI	• / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 04-05/2008

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

Manufacturer	ABC BIZNIS
Website	www.opensat.info
Function	DVB-S/S2 MPEG2/4 HD receiver with single tuner
DVB-S2/LAN	• / —
Channel Memory	4000
DiSEqC	1.0 / 1.2
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 04-05/2008

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

Manufacturer	Metamultimedia
Website	www.metamultimedia.net
Function	HDTV receiver for DVB-S, DVB-S2 and DVB-T
DVB-S2/LAN	• / —
Channel Memory	10000
DiSEqC	1.0 / 1.2 / 1.3
S-Video/HDMI	• / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 04-05/2008

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

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

TELE SATELLITE & BROADBAND AWARD 04-05/2008

TOPFIELD TF7720HSIR
Ideal HDTV Receiver for FTA and Irdeto encrypted channels

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

TELE SATELLITE & BROADBAND AWARD 02-03/2008

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

Manufacturer	Topfield
Website	www.topfield.co.kr
Function	Digital DVB-S, DVB-S2 HDPVR 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 & BROADBAND AWARD 02-03/2008

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

Manufacturer	AB-COM
Website	www.abcom.sk
Function	Linux-based receiver for terrestrial, cable and satellite DVB reception
DVB-S2/LAN	— / •
Channel Memory	4000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / —
Scart/Digital Audio	• / •

TELE SATELLITE & BROADBAND AWARD 02-03/2008

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

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

TELE SATELLITE & BROADBAND AWARD 12-01/2008

NanoXX 9400
Very fast low-threshold blind scan receiver – ideal for DXers

Manufacturer	NanoXX
Website	www.nanoxx.info
Function	Blind scan receiver with USB
DVB-S2/LAN	— / —
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2
S-Video/HDMI	— / —
Scart/Digital Audio	• / •

TELE SATELLITE & BROADBAND AWARD 12-01/2008

INFOSAT ZIMPLE BOX 3
Fast and easy to use receiver for FTA reception with a very sensitive tuner

Manufacturer	Infosats
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	— / —

TELE SATELLITE & BROADBAND AWARD 12-01/2008

ARION AF-4000HDCI
A receiver that will make any newbie happy as well as please any pro with its endless possibilities

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	• / •

TELE SATELLITE & BROADBAND AWARD 10-11/2007

TECHNOTREND S2-3650CI
HDTV Reception with Many Features for Little Money

Manufacturer	DVB-Shop
Website	www.dvbshop.net
Function	USB box for reception of DVB and DVB-S2 in SDTV/HDTV
DVB-S2/LAN	• / —
Channel Memory	unlimited
DiSEqC	1.0
S-Video/HDMI	— / —
Scart/Digital Audio	— / —

TELE SATELLITE & BROADBAND AWARD 10-11/2007

JIUZHOU DVS-2018BS
Very Stable, Solid Receiver for Professional Use

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	— / —

TELE SATELLITE & BROADBAND AWARD 10-11/2007

TECHNISAT DIGITSIM S2
Exceptional Mini-receiver with Very High Signal Sensitivity and Ease-of-Use

Manufacturer	TechniSat Digital
Website	www.technisat.com
Function	Digital satellite receiver with two Systems for SIM Cards
DVB-S2/LAN	— / —
Channel Memory	4000
DiSEqC	1.0 / 1.2 / 1.3
S-Video/HDMI	— / —
Scart/Digital Audio	• / —

40载的Spaun

携诸多新产品跨入新的十年

Alexander Wiese

实际上，这个题目并不十分准确；到2009年Spaun公司才会庆祝她的40岁生日。而Spaun 公司的生命力竟然如此旺盛，他们正在准备推出一大批新产品来献给公司的生日，我们也迫不及待地想了解这家公司漫长的历史。

几乎每个《国际卫星电视及宽带》的读者都会把Spaun 这个名字和高质量卫星电视配件联系在一起。“德国制造高质量” 是他们的信条； Spaun公司生命的意义就在于确保他们的产品质量永远处在最高的水平。

而这背后还有更多的故事。让我们更多地了解 Spaun： 这是一家位于德国最西南方的公司。这家今天几乎有 100名员工的公司创始人是弗里德里希 •斯堡（Spaun）先生。他向我们介绍公司的起始：“1969年时，它完全是从我的厨桌上开始的。”那时德国刚刚开始播放 FM 立体声广播。但是很快大家就知道一个问题，许多收音机的天线信号不够强，需要一个放大器来提高信噪比。“我为一家大的室内天线厂家制作放大器板”，弗里德里希•斯堡说。这就是他的一人公司的开始。

1972 年，他的小公司取得了发展，他开始雇佣了第一名员工。“到了1974年，多波段放大器和无源分支器开始应用”，弗里德里希•斯堡回想着。之后这些都成为地面电视的一部分，而 Spaun 也只是其他德国公司的一个 OEM 制造厂家。1980年，线放器又成为有线电视的配件。

那时生产是在远处一栋租用的房子里进行的， 而到了 1988 年，一切都有了改观：“那时我们在辛根建造了自己的工厂，到今天仍然在使用，这在当时也是一个领先的产物”，弗里德里希•斯堡介绍着，并将铝合金外墙指给我们看：“许多年以来，我们的这些墙壁一直是许多制造厂家的参照物”。 然后他解释了是如何选择他们公司颜色的：“蓝色和银色是建筑物墙壁的颜色，我们决定将这些颜色纳入我们公司

■ 位于德国西南方辛根的Spaun公司办公大楼。在大楼后面的右侧，可以看到生产Spaun复合开关的厂房

TELE-satellite World

www.TELE-satellite.com/...

Download this report in other languages from the Internet:

Arabic	العربية	www.TELE-satellite.com/TELE-satellite-0811/ara/spaun.pdf
Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-0811/bid/spaun.pdf
Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0811/bul/spaun.pdf
Czech	Česky	www.TELE-satellite.com/TELE-satellite-0811/ces/spaun.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-0811/deu/spaun.pdf
English	English	www.TELE-satellite.com/TELE-satellite-0811/eng/spaun.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-0811/esp/spaun.pdf
Farsi	فارسي	www.TELE-satellite.com/TELE-satellite-0811/far/spaun.pdf
French	Français	www.TELE-satellite.com/TELE-satellite-0811/fra/spaun.pdf
Greek	Ελληνικά	www.TELE-satellite.com/TELE-satellite-0811/hel/spaun.pdf
Croatian	Hrvatski	www.TELE-satellite.com/TELE-satellite-0811/hrv/spaun.pdf
Italian	Italiano	www.TELE-satellite.com/TELE-satellite-0811/ita/spaun.pdf
Hungarian	Magyar	www.TELE-satellite.com/TELE-satellite-0811/mag/spaun.pdf
Mandarin	中文	www.TELE-satellite.com/TELE-satellite-0811/man/spaun.pdf
Dutch	Nederlands	www.TELE-satellite.com/TELE-satellite-0811/ned/spaun.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-0811/pol/spaun.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-0811/por/spaun.pdf
Romanian	Românesc	www.TELE-satellite.com/TELE-satellite-0811/rom/spaun.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-0811/rus/spaun.pdf
Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0811/sve/spaun.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0811/tur/spaun.pdf

Available online starting from 26 September 2008

■ 总经理凯文•斯堡 （左边）和创始人弗里德里希•斯堡站在办公大楼的屋顶上。他们领导着Spaun公司的团队。

■ 一个客户有一个问题。技术支持经理斯蒂芬•库克每天从早上 8 点到中午12 点，从下午 1 点到下午 5 点为Spaun的客户提供帮助。他的工具之一是SatcoDX CD-ROM里面的全球卫星数据。

■ 互联网当然是一个很重要的通讯媒体。在这里可以看到网页设计员派垂克•科尔正在查看登录www.spaun.de的访问者。“我们大约每个月有 40,000个访问者”， 派垂克•科尔解释说。他在屏幕上给我们显示了现在的网站访问者。由于有了地理地图，他可以知道这些访问者来自哪里，并用一个弹出的窗口与他们沟通。令人惊奇的是：这个程序是由凯文•斯堡和派垂克•科尔共同开发的，而其中最好的部份竟然是共享软件，而且能被正在拜访他们网站的任何人用来了解更详细的信息。他们在那里工作已经多久了？他们正在看什么？他们来自哪里？还有全部的生活是怎样的？这里是链接地址： www.livezilla.net。

的CI设计方案”。 从 1991 年开始，Spaun有了自己的商标。那是在柏林墙倒了之后。而那时 Spaun 只向西德提供产品，还没有出口产品的真正想法。东德的新市场带来了许多新的商机，最后终于使弗里德里希•斯堡做出决定：“现在要用我们的自己商标去推广产品!”

1993 年，其第一款成功的产品是一种复合开关，它可以接驳两路卫星和1路地面开路电视信号，不久，又推出了可以接驳4路和8路卫星信号的型号。这些产品很快出口到邻近的国家。今天，他们50%的产品用于出口，30% 销售到欧盟国家，20%销售到欧洲以外。Spaun 每年的销售额为 1200到1500万欧元。

这是凯文•斯堡进入画面的地方。2008年年初，他接手了父亲弗里德里希•斯堡的公司。“但是我们共同管理公司的团队”，这在他们两个那里同时得到确认。

凯文•斯堡想要扩大出口生意：“此刻我们正在瞄准北美市场，我们正在寻找当地的经销商，并准备在美国开办我们自己经销处”，凯文•斯堡透露说，“我们也将在中东好好干”。

Spaun 几乎提供 200种不同的最畅销产品，而且一直如此，有5路、9 路和 17路输入的复合开关，其中有1路输入为地面开路电视信号。

凯文•斯堡以其复合开关的产品线为荣： “在9 路和 17路输入基本单元的

■ Spaun 公司的总经理凯文•斯堡也喜欢亲自动手测试复合开关。
从屋顶上传到这里来的天线信号可以连接到任何复合开关上。客户问题也能再现出来并这里进行检查。

THAILAND
Diversity & Refinement
EL 0121/07

Difference from your competitors

INFOSAT

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
- Polyester Powder Colour Coating, ➲ Longer time for Outdoor Using
- Selectable in Black, Red, Pink, Orange, Yellow, Violet, Blue, Silver
- Available for Fixed mount type and Movable mount type
- Special Discount prices for Big Volume and our dealers
- Quality Assurance by Thai Export Promotion Department (Thailand Brand)

Integrated LNBF C&KU Band
with DiSEqC Switch
LNBF CKU-01 Model

INFOSAT INTERTRADE CO., LTD. - www.infosats.com
46/22 Moo.5 Tiwanon Rd., Banmai., Pakkred., Nonthaburi 11120 Thailand
Tel. (66) 2- 961-9161-3 Fax: (66) 2- 961-8587 E-mail: niran@infosats.com

■ 嗬！ 这大概还是个秘密:随着本期《国际卫星电视》的出版，Spaun 的这款新型专业测试仪不久就会面市了。这里照片中展示的是SPAROS 608 型，而实际上推出的将会是SPAROS 609型。它支持 DVB-T、DVB- C，也当然支持 DVB-S 和 DVB-S2，它还拥有一个 16:9 的监视器。以后的《国际卫星电视》杂志里肯定会有一篇关于这种新产品的测试报告。

■ 仓库一瞥。物流经理克里斯托弗•瑞切尔告诉我们，“我们的存货周期大约为 3～4个星期。”每天卡车都来这里装货然后配送给客户。

复合开关的生产

■ 这是从外面一家公司定做的4层电路板。这是制作Spaun复合开关的印制板。

基础上，我们能够建立起多达 3000个用户的系统”，凯文•斯堡解释说，“没有别的人能够做到这一点”。作为客户的参考，举例来说，已经建成的较大系统有杜拜的Jumeirah 海滩住宅塔楼、瑞典的 Nokia 发展中心、布拉格的微软总部、巴黎的Eutelsat 、柏林的日本大使馆，等等，很多。甚至在许多豪华游艇上都可以找到Spaun 复合开关，为什么不可能呢？每个房间都需要有它自己的卫星信号，对吧？

最后，我们也想要知道所有准备在40周年庆典上推出的新产品的情况。凯文•斯堡作了个深呼吸，然后开始说，“在2009年春，我们想要向市场介绍一个光纤分配系统”。该类型的系统能为10,000 个或更多的用户提供服务。

这种光纤技术将只会被用在卫星信号的分配方面。在到达终端用户之前，光纤信号被还原成标准的数字信号，然后通过复合开关发送给接收机。“这只是用一个非常强的激光发射器来工作”，凯文•斯堡解释并暗示说，现在杜拜正在建造许多新的人造工岛，“这将让我们覆盖整个岛”。

当本期杂志到达你手上的时候，Spaun会推出一种你想不到的新产品：一种高级的专业信号测试仪。“当然它会接收 DVB-S2 信号，而且它还会有一个16:9 的监视器”，凯文•斯堡解释说，“甚至天线安装人员也想要从测试仪上观看高清电视”，即使他们只是用它做为参考。

最近 Spaun 还推出了同轴电缆，它很恰当地被命名为“Spoax”。

至于它的颜色嘛？ 你可以猜三次。不，不是白色的。也不是黑色的。如果你的猜测是蓝色的， 那就对了，正是他们公司的颜色。“使用该同轴电缆，还有与之相配的接头，我们就能建立起完美的信号分配系统”， 凯文解释了扩充产品种类的理由。至于目标嘛？ “我们想要你使用我们的每件产品”。 换句话说，他们想要为你所需要的最佳卫星信号分配系统提供每一种产品。

而正当我们谈论这个话题的时候，另外想起另外一个关于革新的话题： 价格。“在质量上从不妥协”，凯文解释说，“实际上我们正在以相对较低的价格推出一个新的产品系列”。

从2008年初到目前为止，Spaun已经将一些高端的产品纳入标准产品的系列。

THE QUEEN'S AWARDS FOR ENTERPRISE: INTERNATIONAL TRADE 2007

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

For a reliable solution!

INTRODUCING THE HORIZON DIGITAL METER RANGE

THE HORIZON DIGITAL SATELLITE METER USB & USB PLUS

HDSM USB

- New graphics capable 128 x 64 pixel high brightness (adjustable) backlit LCD
- New Full Speed USB 2 interface with automatic driver download
- Full backwards compatibility with existing HDSM downloads
- New 3300 mAh battery pack offering in excess of 7 hours operation
- 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.

FROM TEST TO MEASUREMENT

DEALERS AND DISTRIBUTORS WANTED

Speed up your installations call now on

+44 (0)1279 417005

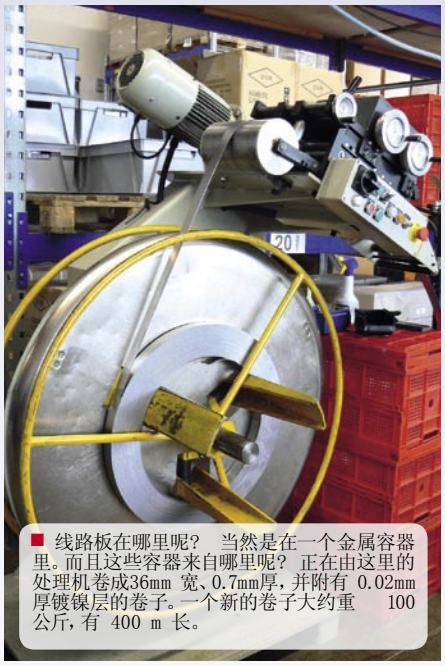
or visit our website

www.horizonhge.com

email: sales@horizonhge.com

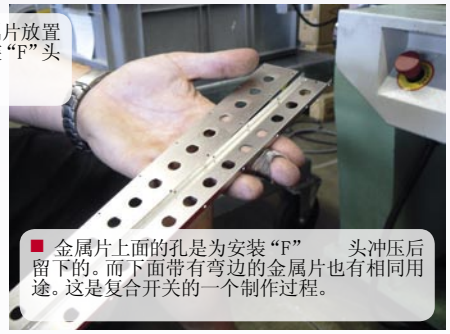
■ 这些自动化的机器在线路板上贴装所有的元件。

■ Spaun的员工哈比•弗齐齐在检查一个完工的线路板。“通常有问题的概率是1/ 1000”,他解释说。

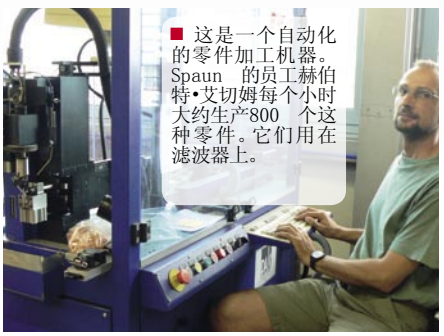


■ 线路板在哪里呢? 当然是在一个金属容器里。而且这些容器来自哪里呢? 正在由这里的处理机卷成36mm 宽、0.7mm厚,并附有 0.02mm厚镀镍层的卷子。一个新的卷子大约重 100公斤,有 400 m 长。

■ Spaun的员工福兰克•海勒将切好的金属片放置在这个打孔机加工并折弯。 所有为安装“F”头的孔都是通过它加工的。



■ 金属片上面的孔是为安装“F” 头冲压后留下的。而下面带有弯边的金属片也有相同用途。这是复合开关的一个制作过程。



■ 这是一个自动化的零件加工机器。Spaun 的员工赫伯特•艾切姆每个小时大约生产800 个这种零件。它们用在滤波器上。

■ 这个零件真是太小了。

在本期杂志出版之后不久, 低端的产品将初次登场。凯文•斯堡继续解释说:“在质量里没有绝对的不同, 只有使用地点的差异。”举例来说,高端复合开关可能带有可调整水平的控制功能,这个功能在其标准和低端产品则没有。“价格是这样的: 如果高端产品的价格是 100%,那么标准产品的价格就是 75% ,而低端的则是 50%”,凯文解释说。

还有什么新产品吗?“有一款美国在市场上销售的宽带开关”,凯文回答说,“它使用频率范围如下 (!) 这是PayTV 节目供应商 DirecTV 的专为高清电视分配的波段频率标准。”更明确地说,范围就是250 到 950 MHz,这是特别将卫星使用的标准频率范围950 到 2050 MHz以外进行重新的分配。《国际卫星电视及宽带》也在关注这种在美国以外面其他市场是否有价值的创新产品,测试报告将在下期刊出。派垂克•施密特负责这些产品。他属于创始人弗里德里希•斯堡孙子辈的人,并且已经是公司的一位员工了。

弗里德里希•斯堡正在关注着其它不同的主题, 虽然目前还没有太多的想法,但是对于未来则非常重要,《国际卫星电视》也和他共同在关注: 电源的使用及其效率! “我的儿子和我一起正在运作一家新的公司,”Spaun电源公司, 弗里德里希•斯堡指着街道对面的一栋建筑物解释说,“很快,我们将会开始生产开关式供电电源,不仅我们每年大概要生产150,000套电源自己使用, 而且也作为一种 OEM 产品。”

逐渐增加的能源匮乏正在袭扰全球,也迫使我们更加关注供电效率。但这不是唯一的理由。“在复合开关中最关键的部件就是供电部分”,弗里德里希•斯堡解释说,“在这里我们看见了太多的失败”。弗里德里希•斯堡确信: “无论在什么地方,即可靠又省电的电源系统都是受欢迎的。”

这就是 Spaun,他们在第 40 个年头里,在构筑自己事业的另一支柱,同时根据用户和市场需要积极扩张业务。这是个非常成功的战略,弗里德里希•斯堡用他公司的话来说:

“每年对我来说都成功和盈利的一年”。所有的利润都被用于再投资于这个家族企业,以便 Spaun 全部靠它自己的力量轻松地进行扩张。

在这里有Spaun的另外40 年!

D I G I T A L S A T E L L I T E R E C E I V E R

OPENBOX®

CHANCE TO SEE MORE

X-810

2 x UniCAS interface
with Conditional Access

NEW DVB-S Tuner based on Zarlink chip
with "Blind Scan" function

Support transponders with symbol rate
from 1000 up to 45000 Msps

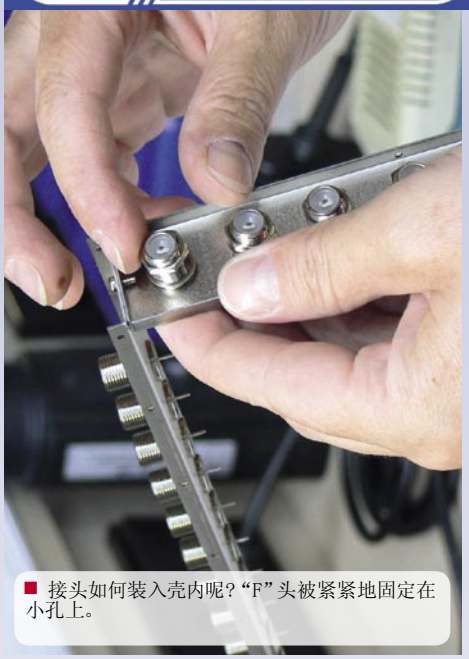
Faster search and channel selection
with a low speed transponders

Brilliant picture and quality sound
with AV switch based on SONY IC

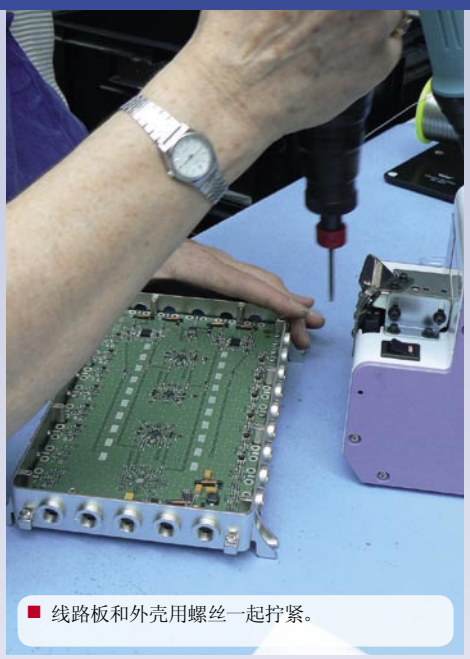
Large quantity of additional functions
and strong technical support

TM OPENBOX® REPRESENTATIVE OFFICES:

UKRAINE	Company "SAT SYSTEMS", Zaporozhye, tel/fax: +38(061)2-220-220, +38(061) 2222-300
RUSSIA	Company "Sky Market", Moscow, tel/fax: +7(496)971-24-81, +7(495)589-67-49
BELARUS	Company "Global Technologies", Minsk, tel/fax: +375(17)254-68-00, +375(17)254-67-09
BALTIC STATES	Company "ELBELA", Vilnius, tel/fax: +370 659 389 87, +370 5 233 37 59



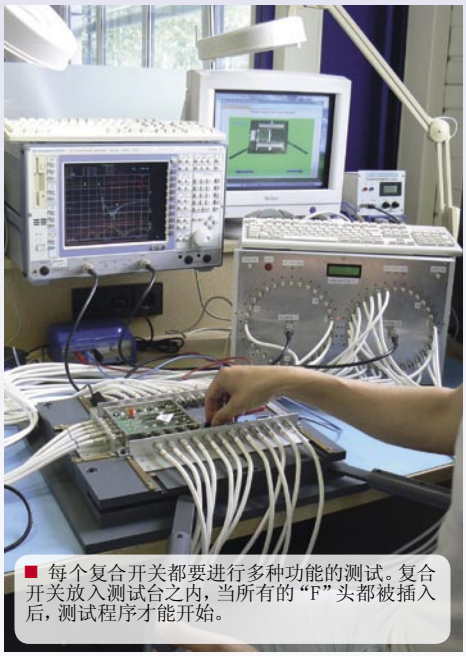
■ 接头如何装入壳内呢？“F”头被紧紧地固定在小孔上。



■ 线路板和外壳用螺丝一起拧紧。

■ 为了完成这一步，后盖处被扭紧。弗里德里希•斯堡解释说：
“这是非常关键的地方：用较小的外壳和富有柔性的盖子，能够充份地提供EMV保护。对于较大的外壳，为达到这个保护水平，只能使用很多的螺丝。”

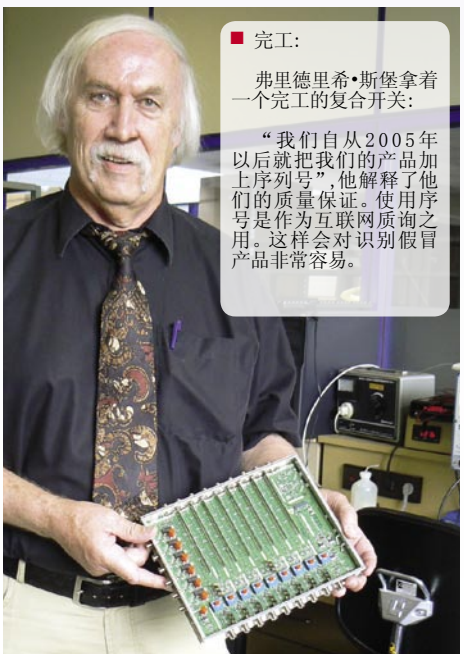
质量的检测



■ 每个复合开关都要进行多种功能的测试。复合开关放入测试台之内，当所有的“F”头都被插入后，测试程序才能开始。

■ Spaun 的员工彼得•福克斯给我们演示了型号为 17的测试台上的测试过程，这是Spaun十个测试台中最大的一个。“过去一个完整的测试共需要 50 分钟“，彼得•福克斯解释说，“今天自动测试每个功能只需要三分钟。

■ 测试过程结束之后，个人计算机会打印一个序号，然后附到开关上。测试结果都一一存档，以便Spaun 调出任何一个复合开关的测试结果。”



■ 完工：

弗里德里希•斯堡拿着一个完工的复合开关：

“我们自从2005年以后就把我们的产品加上序列号”，他解释了他们的质量保证。使用序号是作为互联网质询之用。这样会对识别假冒产品非常容易。

■ 即使 Spaun 复合开关完全地经过了全部的电子测试，从技术上讲仍然有不确定性。

在这里检查这个部份：每个复合开关带电进行高电压测试。这样 Spaun 能保证复合开关100%完好。

他们如此地自信，以致于他们提供的保证有5 个年头。“而实际上”，弗里德里希•斯堡解释，“比五年还长的产品我们都给予修理。”

这非常简单，很少有问题出现，所以保修期还可以更长，“只是由于法律方面的原因，我们才定为五年”，弗里德里希•斯堡解释道。

The Original TV-at-Sea antenna

S
Coastal Series

M - L
04 Series

XL
14400

The first and the best, Sea Tel® TV-at-Sea antennas provide superior reception on vessels of all sizes. Sea Tel® also has the original VSAT antennas, both C and KU band for reliable communications.

Sea Tel®
Look to the Leader. Look to Sea Tel.
www.seatel.com
Sea Tel, Inc. 925-798-7979 **Sea Tel Europe** 44 2380 671155
COBHAM Antennas

Wholesale price for 30 sets!
44 €URO

TELE SATELLITE & BROADBAND AWARD 06-07/2008
CARDSPLITTER
Well designed technically with exceptional range and excellent quality

HARDWARE POWERED BY:
DECIBIT CO.LTD.
59/273 M.2 Soi Sukhonthasawat
Ladprao 71, Bangkok 10230

Complete set B+BBB
1 Master Unit
3 Slave Units
Including 4 antenna
Including power supply
In-The-Box packed

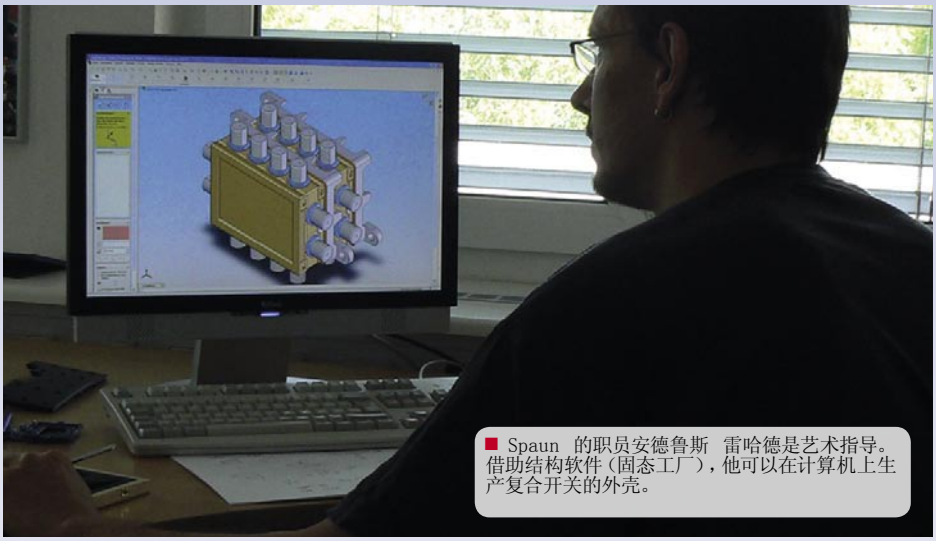
Wireless
CSPRO-64

FOR HOME USE ONLY!

WWW.CARDSPLITTER.COM

复合开关的结构和安全性检查

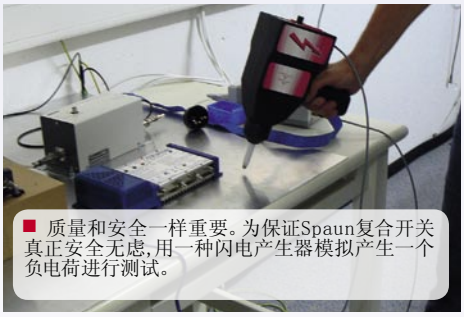
■ 完工的复合开关也要放在这间环境仓里进行测试。“ 按规定此设备的温度为 -20 °C 到 +50 °C”,弗里德里希•斯堡解释说,“为了确保产品质量,我们就设置成 -30 ° C 到 +60 ° C”。



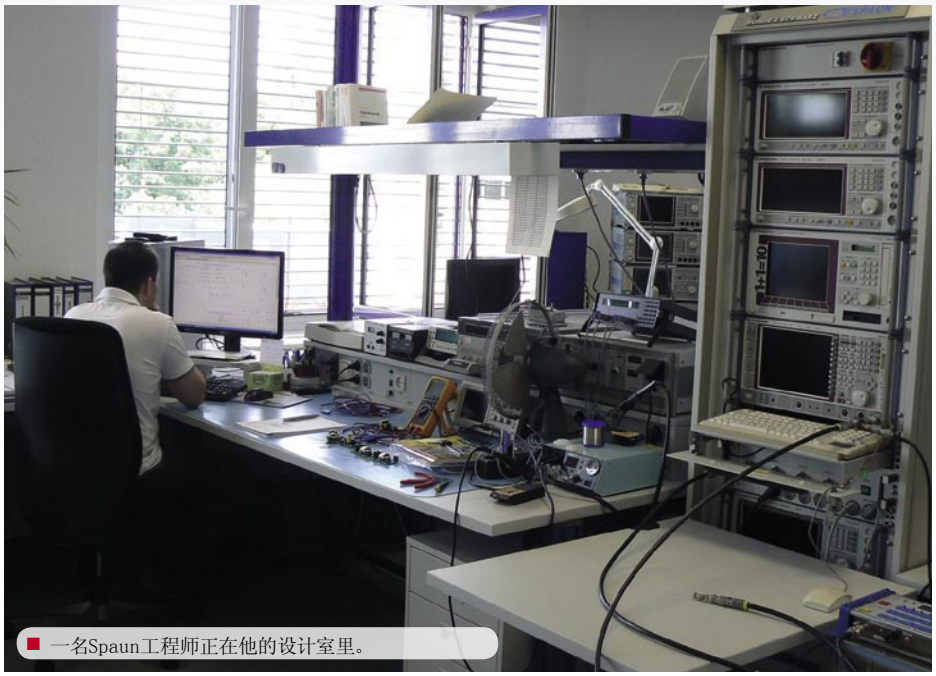
■ Spaun 的职员安德鲁斯 雷哈德是艺术指导。借助结构软件(固态工厂),他可以在计算机上生产复合开关的外壳。

■ 有工作的地方就有测试仪。这里在开发新的复合开关。

■ 这个软件用于开发线路板。



■ 质量和安全一样重要。为保证Spaun复合开关真正安全无虑,用一种闪电产生器模拟产生一个负电荷进行测试。



■ 一名Spaun工程师正在他的设计室里。

■ 借助瞬时脉冲群发生器,模拟各种不同类型的干扰情况。

■ 一名员工将复合开关放入EMV测试室中。他使用一个5W的宽波段发射器,复合开关在测试室中被加载上闭路信号来测试。或用另一个方法: 将天线放置在密闭的测试室之内,并设置成接收模式,目的是要检查复合开关产生信号干扰的情况。在图中的显著位置是测量30到1000MHz范围内干扰情况的装置。

12th International Trade Fair and Conference for Satellite Communication, Broadcasting, Cable and TV Content

Broadcast
Cable & Satellite
eurasia

a CeBIT Event

www.cebit-bcs.com

20 -23 November 2008

Istanbul Expo Center
Istanbul, TURKEY

Hall 9 : Broadcasting, Cable & TV Content
Hall 10 : Satellite Communication

Supporters

SVF Satellite Solutions. The World.

KOSGEB

TELEKOMÜNİKASYON KURUMU

TUYAD

RTÜK RADYO ve TELEVİZYON ÜST KURULU

Organizer

Deutsche Messe
Worldwide

Hannover-Messe International
Istanbul Ltd. Şti.

Phone: +90 (212) 334 69 00
Fax: +90 (212) 334 69 34
info@hf-turkey.com

THIS FAIR IS ORGANIZED WITH THE PERMISSION OF THE UNION OF CHAMBERS AND COMMODITY EXCHANGES OF TURKEY IN ACOORDANCE WITH THE LAW NUMBER 5174

PASAT ANTENY

SATELLITE AND COMMUNICATION ANTENNAS

▪solid ▪aluminium ▪prime focus

www.sat.bg online shop

PASAT ANTENY

BULGARIA
tel: +359 350 63911; +359 350 66311
fax: +359 350 64011
e-mail: sales@pasat.bg; www.sat.bg

Clark Electronics

70 Years Old and Full of Ideas

Clark Electronics in southern Holland right at the entrance to the Rotterdam harbor has been around since 1938. This year they are celebrating their 70th anniversary. What better reason for us to pay them a visit and find out what such a long-standing company is all about.

And wouldn't you know it: in their stockroom we found a large supply of vacuum tubes as they were used in broadcasting equipment 70 years ago. That's how Clark Electronics got started: with the production of AM radios. Later on came two-way radios for private and military applications. When it was no longer profitable to do their own manufacturing, Clark Electronics shifted over to wholesale electronic component suppliers – that was in the early 1960's.

In 1993 it was time: the satellite age started at Clark Electronics. The company, in a close relationship with manufacturers in Taiwan and China, began to develop and market receivers for the Benelux (Belgium, Netherlands, Luxembourg) region. In 2000 they entered into a cooperation with Topfield and finally with Arion. "Now we are in the process of developing our own brand name", revealed John Kamp, Director of Clark Electronics.

He doesn't think much of low prices: "If someone wants a satellite receiver, they'll buy one, price is not always the deciding factor", believes John Kamp, although, "this assumes of course that the receiver can do what the customer wants and above all without any errors or crashes!"

John Kamp believes that the current weak order situation with satellite dealers in Europe has less to do with price and more to do with incorrect product choice.

"The HD market is not quite ready yet; right now it's much better to offer customers SD receivers with upscalers." They also seem to have a similar grip on the available channels. "You're not going to be watching Discovery HD 24 hours-a-day", comments John Kamp, "but rather normal channels that are not yet available in HD." He believes the breakthrough in HD will occur in 2012.

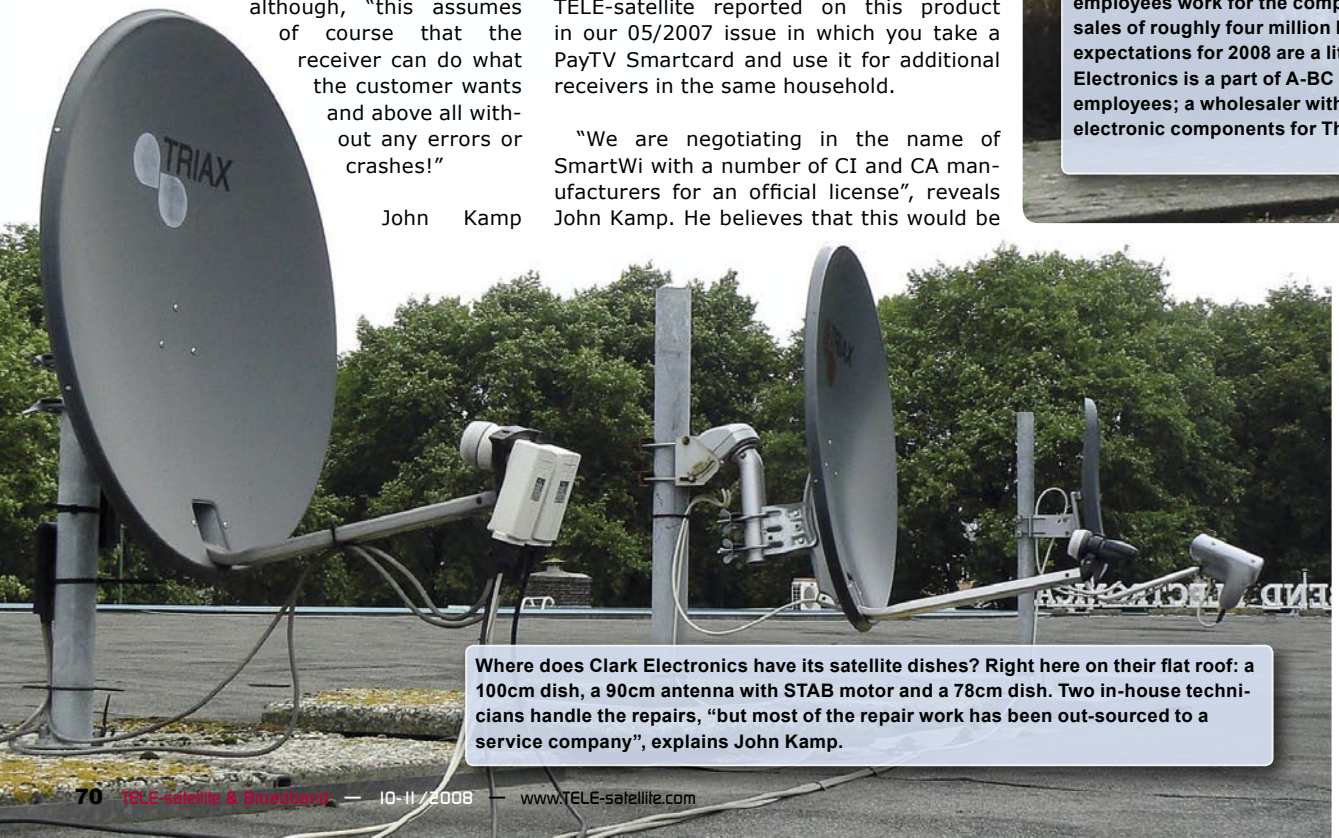
His vision of the future is more towards multimedia anyway. "One day, everyone will have a network server with a very high storage capacity on which TV channels, MP3 files, pictures, etc. can be stored and accessed in any room in the house via the network connection." Clark has already taken a step in that direction: their own receiver will include a universal remote control.

Until that time, John Kamp is focusing on an equally interesting product: SmartWi. TELE-satellite reported on this product in our 05/2007 issue in which you take a PayTV Smartcard and use it for additional receivers in the same household.

"We are negotiating in the name of SmartWi with a number of CI and CA manufacturers for an official license", reveals John Kamp. He believes that this would be

A look in the stockroom in which you will find not only SmartWi products waiting to be delivered to the Benelux countries, but also their own Clark satellite receivers.

The flag gives away the location of Clark Electronics: here in this industrial park where Clark Electronics has its headquarters, 11 employees work for the company and manage sales of roughly four million Euros in 2007 – the expectations for 2008 are a little less. Clark Electronics is a part of A-BC Group with 35 employees; a wholesaler with electronics and electronic components for The Netherlands.



Where does Clark Electronics have its satellite dishes? Right here on their flat roof: a 100cm dish, a 90cm antenna with STAB motor and a 78cm dish. Two in-house technicians handle the repairs, "but most of the repair work has been out-sourced to a service company", explains John Kamp.

John Kamp is Director and COO of Clark Electronics. The map on the wall shows Japan and China. "I usually visit South Korea and China 10 times a year to work with our cooperative partners", explained John Kamp about his business trips.

A treasure chest full of old supply makes up their in-stock supply of vacuum tubes. John Kamp explains, "We still get orders for these old tubes."

an interesting market for PayTV providers. "How often does a second Smartcard ordered from a PayTV provider end up with a neighbor?"

In his view, the solution is quite simple: if you no longer give out a second Smartcard, it could never come to this. Customers with multiple receivers can instead be offered SmartWi. A simple and truly "smart" solution.

SmartWi is already preparing for the day when their products are officially licensed: the company is now incorporated and working on completing their corporate design.

Our visit to Clark Electronics was very enlightening; something we did not expect from a company celebrating their 70th year!

Clark

■ **Mario Sussi in his favorite place: among his satellite dishes. The large dish in the background is the 6.0-meter uplink antenna pointed to EUTELSAT W2 at 16 east. The small 100cm SNAI dish receives the SNAI signal that is then combined with the HOTBIRD signal in their local network. In the background to the left are the microwave antennas for the terrestrial signal network: "Sometimes it's cheaper to transmit the horse racing signals terrestrially, not to mention they are also less susceptible to rain fade since here they are transmitted in the 6 GHz range."**

From DXer to Technical Manager

A Visit with Mario Sussi from Teleippica in Lucca (Toscana), Italy

Betting on horse racing is a popular pastime in Italy. This is due in large part to Teleippica unifying the horse betting system and reorganizing the network across all of Italy. Teleippica in charge for transmission on behalf of UNIRE's four channels of which two, UNIRE TV "gray" and UNIRE TV "green", are the actual betting channels and, with the publication of this issue of TELE-satellite, a third channel, UNIRE TV "blue", will have started. There's also the SNAI-TV channel that broadcasts other sports betting events as well as a summary of all broadcasts that is produced with a 15-minute delay for Sky Italia and offered in their Pay TV package.

Naturally, sports betting involves live transmissions. Mario Sussi is responsible for these complex transmissions. He spoke to us about his DXer days in the past, "I tuned into the first satellite transmissions in Europe; that was Project Eurikon back in 1982." Over the years, his antenna farm grew larger and larger to

include a 3.8-meter mesh antenna and a 3.0-meter solid dish. "But that's all in the past", winked Mario, "today there are other problems to solve."

His experiences as a DXer, where he always had to find practical solutions using the simplest methods, help him today to solve much more complex signal processing problems. He gave us an example, "In our own office system we need to not only have access to HOTBIRD but also naturally our own transponder at 16 east." He acquired a narrow LNB, one that he could mount at a 3 deg offset, and fiddled with a single-cable solution so that only one single cable was needed to receive both HOTBIRD and the SNAI-TV transponder at 16 east.

But there are also more complex systems in the works. "We are in the process of converting our system to HD." Even though the transmissions directly from the racing venues are still in SD, Mario came up with his own idea to make it work: he scales the incoming SD signal up to HD and can then transmit the programs in MPEG4 with an 8 MB bandwidth.

It's easy to see that Mario has satellite technology in his blood. He can tell based on the reception signal what encoder is being used. "One encoder manufacturer doesn't have a complete grasp of their technology; you can easily see this", comments Mario.

We asked him as a professional what direction he thought that HDTV would continue to go. For Europe he referred to the state-run as well as the public channels: "they have to lead the way; private channels don't normally take the initiative."

A horror to him is the HD programming from their national PayTV provider Sky: "They scale everything up. This can be

■ **SNAI's main office can be found in Lucca not too far from Pisa, Italy.**

▲ **A look inside the video room. Here the programming clips are put together, sent terrestrially by microwave link to SNAI headquarters in Rome, then back again and then uplinked to the satellite at 16 east.**

seen by the customer who then opts away from HD."

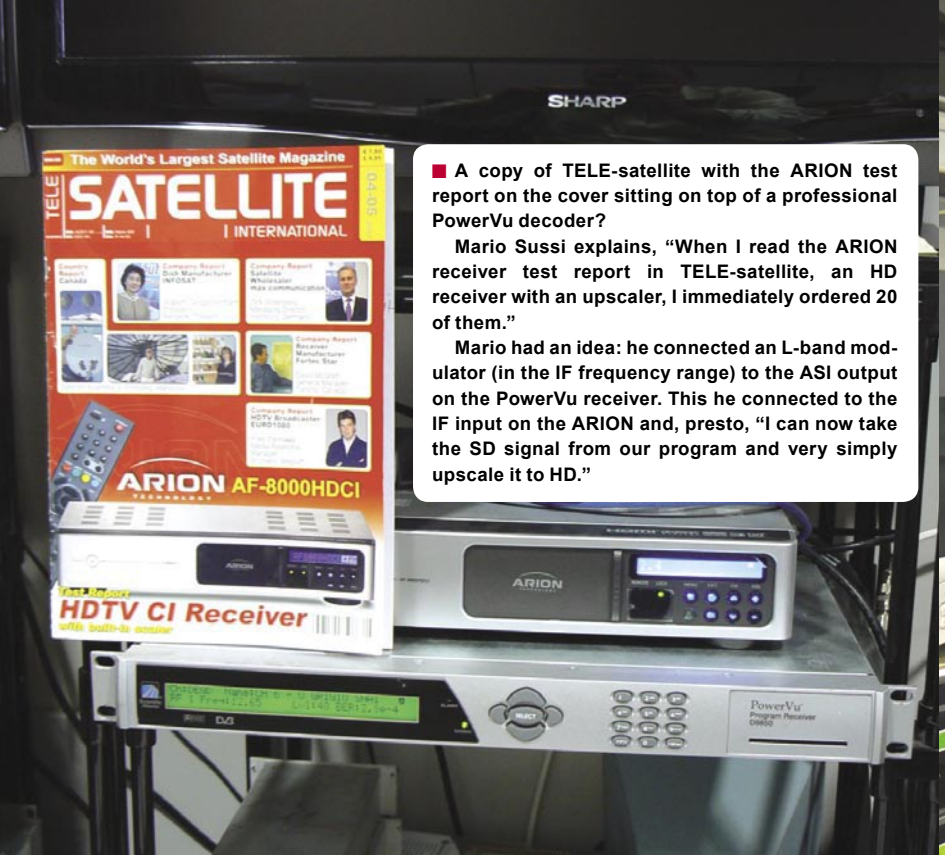
He does see HDTV coming in the future but not as fast as originally hoped. He calculates that the savings that DVB-S2 and MPEG4 bring with it don't compensate for the extra costs customers would need to pay for new receivers.

His arguments for the new fiber optic LNBs from Global Invacom that TELE-satellite recently introduced are similar: "Fiber optic technology is coming; it is beginning to develop in this direction", observes Mario, but he is also skeptical about seeing this in the near future.

Before we left, Mario gave us a hot tip for DXers: "Most feeds today are transmitted in 8PSK – but few DXers can receive them." Why? Isn't 8PSK used with DVB-S2? "Yes, this is true", explained Mario, "but feeds don't transmit in DVB-S2, instead it is normal DVB-S." The problem lies with the readily-available LNBs: "There's not only the noise factor", explains Mario, "you also have phase noise. With a high-quality spectrum analyzer you can see that the carrier drifts very easily."

"As long as it drifts fairly slowly, the receiver is able to follow along. But if the drift is random, phase noise makes it impossible to demodulate the 8PSK constellation, and reception fades away." Mario told us of his experiences: "Pro-

◀ **In the heart of Teleippica: from here the five encoders are controlled and the programming is switched over to the uplink. Susanna DelPapa is in charge of this control room.**

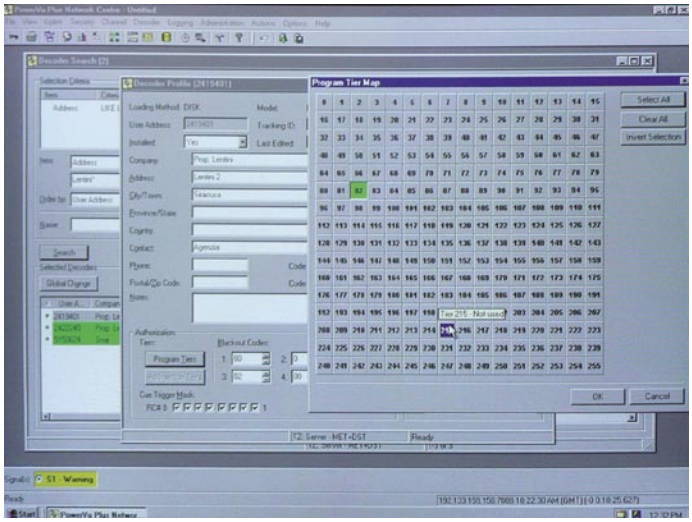


■ A copy of TELE-satellite with the ARION test report on the cover sitting on top of a professional PowerVu decoder?

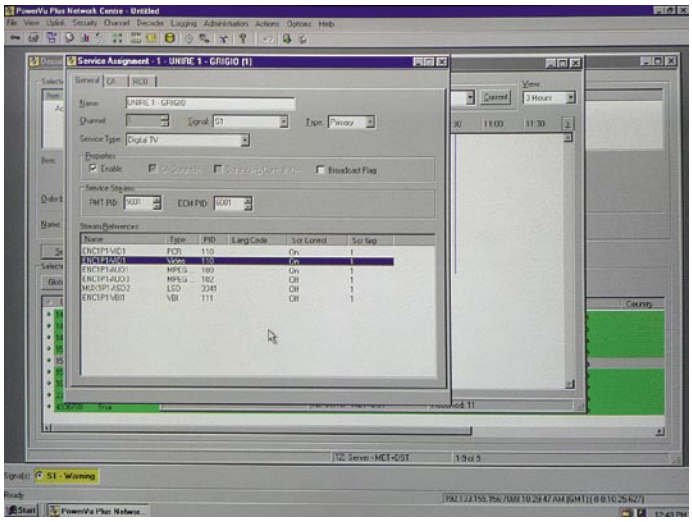
Mario Sussi explains, "When I read the ARION receiver test report in TELE-satellite, an HD receiver with an upscaler, I immediately ordered 20 of them."

Mario had an idea: he connected an L-band modulator (in the IF frequency range) to the ASI output on the PowerVu receiver. This he connected to the IF input on the ARION and, presto, "I can now take the SD signal from our program and very simply upscale it to HD."

■ Pietro Del Tessandoro is Mario Sussi's right-hand man and is also responsible for the uplink encoder.



▲ This is what the control software from PowerVu looks like: with this encryption system, each receiver can be individually controlled. AFRTS, the American Armed Forces Radio and Television Service, also uses PowerVu. Susanna explains how it works: "We can individually turn on and off a maximum of 30,000 customers/receivers; right now we have about 9000 customers." Each customer can be activated for up to 255 individual services; each service could be a video channel, an audio channel or a data channel. On the screen you can see 255 buttons. Button 44, for example, is the video signal from Unive TV "gray". "We can even change the transponder frequency in the receiver from here", explains Susanna about the PowerVu system, "The receiver switches automatically to the new transponder without the customer even realizing it."



▲ The individual PIDs are lined up with the corresponding signals through the PowerVu software.

fessional LNBs are very frequency-stable and can therefore receive 8PSK in DVB-S without any problems." For the feed-hunters within the DXer group, Mario recommends searching for frequency-stable LNBs. "There are some manufacturers that produce standard LNBs that would fit the bill."

Mario looks at it as part of his job description to always be in step with the technology. But he can also see the dangers: "You need to be in the right place at the right time; it doesn't help to invest too soon, but at the same time you don't want to be too late to embrace new technology."

It's demanding work but Mario is always ready for it. And finally, some praise for TELE-satellite: "TELE-satellite always keeps me up to date with the latest products on the market; this makes my job much easier." That makes us happy of course!

◀ This is what the back of a regular PowerVu receiver looks like as it is installed in the Teleippica betting offices.

Square Plan, Johannesburg

Square Plan is one of the larger satellite distribution companies in South Africa.

The President is Bernard Ruberg, a satellite hobbyist himself. He was the one who originally managed to receive ASTRA from Europe with his 4.5-meter antenna – of course in analog. That dish is still in service today but more antennas have been added to the mix: a 3.7-meter mesh antenna as well as two 2.4-meter dishes. All of these antennas can be found on his property in northern Johannesburg, as can be seen here on our picture. His company has been in existence for 23 years. Suwaibah Dadabhay, his office manager, explained to us: "We sell 65,000 dishes including LNBs every year. On top of that, we sell 10,000 100cm antennas as well as 1000 2.4 and 3.7-meter antennas each year." Installers and dealers can acquire all the necessary accessories such as switches, any kind of LNB from single and twin to Quad and Quattro. Square Plan also handles repairs. "Roughly 20% of our products are exported", explains Suwaibah, much of it to countries such as Angola and Mozambique. Nine employees make up Square Plan, four technicians and five office workers. Square Plan is convinced that business for 2008 will grow!

Suwaibah Dadabhay is Square Plan's Office Manager and organizes everything.

Functionality test for newly arrived LNBs: a technician tests every LNB by connecting it with a signal analyzer and then by attaching it to a dish pointed at 68.5° east.

A satellite DXer's dream: a 4.5-meter full dish and several other "smaller" antennas with diameters of 2.4 and 1.8 meters all with motors and then of course unrestricted visibility in all directions.

Satellite Reception in a Train

In the 03/2008 issue we introduced to you the company SeaTel, a provider of mobile satellite reception systems for ships. In that report we also mentioned that SeaTel was in the process of expanding into a new business area by developing mobile satellite reception systems for trains. And just recently, that milestone was reached: the first high-speed trains with satellite reception are now running on the rails!

Philip Haines speaking with TELE-satellite. He is the Technical Manager at 21net.

It has to do with Thalys. This company operates 26 high-speed trains that travel between the cities of Paris, Brussels, Amsterdam and Cologne. The new SeaTel system has been installed in 15 of these trains, and by the end of the year the remaining trains should also be equipped for Internet reception via satellite.

We asked Philip Haines, responsible for the technical development of this system with the company 21net, what is being offered. He explained, "We are receiving the Internet service from the Belgian broadband provider Telenet in the 12.5 to 12.75 GHz frequency range." It is an intelligent technology that is being installed; it was developed jointly with Nokia Siemens Network. This system automatically switches over to GPRS/GSM operation when the train enters a tunnel or when it stops at a station that is covered with a roof.

21net technicians at work installing the SeaTel satellite antenna for the mobile reception of HISPASAT. Since the Thalys high-speed trains don't travel much up or down any hills, the antenna itself doesn't require much in the way of elevation adjustments. This results in a lower wind load thanks to the flatter radom.

While the train is underway and as long as there is a clear line-of-sight view to HISPASAT, the goal is to provide "2 MBit/s download speed and 512 KBit/s upload speed for each train", explains Philip Haines, and then continues, "We are using an intelligent bandwidth distribution between the trains that statistically are underway only 40% of the time."

In the train itself, the passengers access the Internet via WiFi Hotspots. This certainly is a new experience: surfing the Internet in a high-speed Thalys train travelling at 300 kph (188 MPH)!

Finished! The radom is placed on top of the antenna. Now the system is not only protected from the weather but also from the enormous 300 kph (188 MPH) wind load.

VENUS DIGITAL

Anti Rust Material

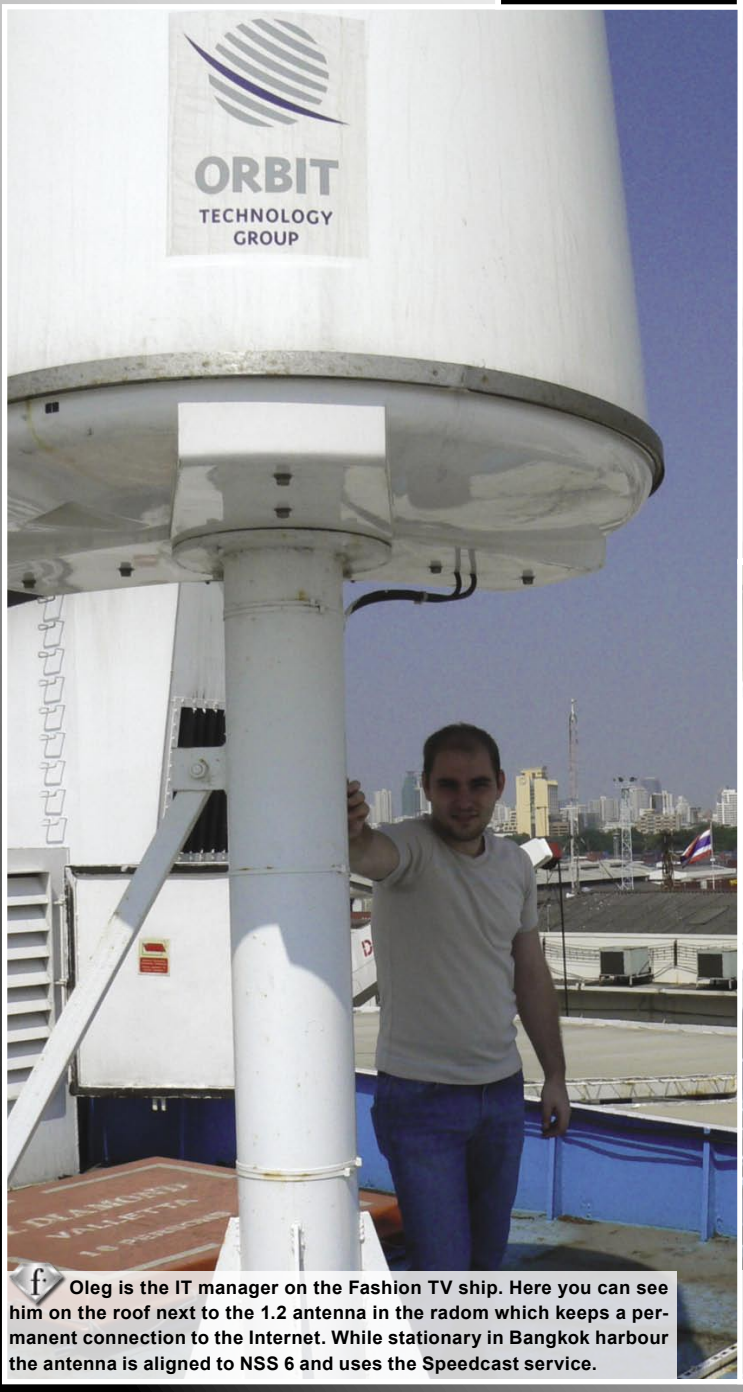
Galvalume®

by BlueScope Steel

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

Fashion TV

Reality Show at sea! Fashion TV has been the owner of a ship for a few months now – a vessel that was formerly used as a roll-on roll-off car ferry. The company is planning to use the ship as a party boat and also intends to broadcast a reality show based on the Big Brother concept and starring – what a surprise! – fashion models. This sounds like a really crazy idea and we wanted to have a closer look at those plans. After all, how will broadcast signals be sent from the ship to a transmitter?



Oleg is the IT manager on the Fashion TV ship. Here you can see him on the roof next to the 1.2 antenna in the radom which keeps a permanent connection to the Internet. While stationary in Bangkok harbour the antenna is aligned to NSS 6 and uses the Speedcast service.

Fashion TV has bought this vessel and converted it to a party and studio ship.

View of the broadcast centre: this is where the show is directed. The schedule on the wall in background shows which model is working at what time.

While the ship is anchored in harbour, the IT team installs dishes and uses them to record the live stream of Fashion TV in order to play back the program while the ship is at sea. Here you can see Jon Clarke, the owner of JSAT.TV in Bangkok, next to the two C band antennas. One is aligned to ASIASAT 3 at 100.5° East and the other one to INTELSAT 7,10 at 68.5° East.

We visited the Fashion TV ship in Bangkok. The vessel was originally equipped and converted in Greece, "but the technology was a huge mess and didn't work at all," according to Jon of JSAT.TV, a Bangkok company specialising in satellite technology. "We had to exchange the entire TV system on the ship and partially converted it to IPTV," he continues.

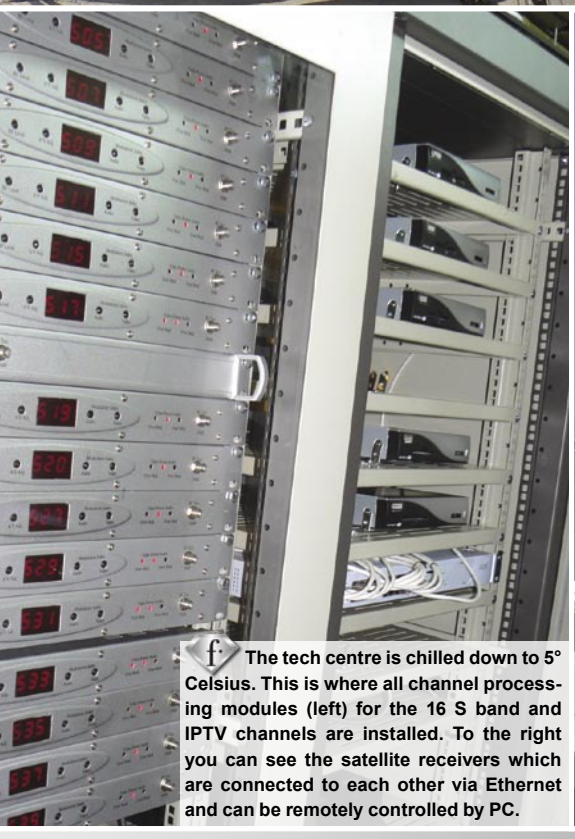
Bogdan is responsible for the on-board video technology and explains that "almost 500 TVs are connected to the system, and apart from a couple of monitors all are 16:9 flat screens."

So the Fashion TV ship features more TVs than most hotels. All cabins and each meeting and conference area, all stairways, bars and dance floors of the ship are equipped with flat screen TVs. In total, 16 channels are distributed on the S band, all of which are received by a self-tracking Ku band antenna.

"In addition, a total of 24 cameras are installed," explains Oleg, the IT manager on board the Fashion TV ship. "These are used as surveillance cameras on the one hand, but also for the Fashion TV reality show on the other hand." IPTV is being used to transmit the signals from the ship. A 1.2 m antenna maintains an IP connection to the Fashion TV broadcast centre and the same connection is also used to provide Internet access to the guests on board.

A powerful WLAN network capable of broadcasting through thick steel doors and walls inside the ship is available for guests to log onto the Internet. What a relief that the technical equipment required for this system is readily available in the Bangkok "Future Center", one of the huge shopping malls for tech-products. Components you'd be hard pressed to source in Europe are on offer here for very competitive prices.

Thanks to its technicians the Fashion TV ship features innovative satellite technology on board.



The tech centre is chilled down to 5° Celsius. This is where all channel processing modules (left) for the 16 S band and IPTV channels are installed. To the right you can see the satellite receivers which are connected to each other via Ethernet and can be remotely controlled by PC.

Bogdan takes care of video technology on the Fashion TV ship. Here he is next to the radom for the 60 cm antenna with automatic tracking.

SatcoDX Suite

A Collection of The Best Satellite Software Available Globally

For the real satellite enthusiast and the satellite professional wishing to use the most advanced software. All programmes have been adjusted to load the SatcoDX Satellite Database in the most easy and intuitive way. The SatcoDX Suite is only and exclusively available to TELE-satellite subscribers. Private and Personal Use allowed.

SatcoDX Suite Updater Version 0.9

Installs in Taskbar And Updates SatcoDX Chart on Your PC Every Hour - Always Up-To-Date With the Latest Transponder Updates

SatcoDX Suite Updater downloads the full SatcoDX Chart Database once every hour, provided that your PC is connected to the Internet and the license is valid. Additional to the original SatcoDX database in csv format, the Updater also downloads the **SatcoDX-all-transponder.csv** file, which contains all information needed as default settings for satellite receivers. Additionally, the Updater downloads the full chart in **xml** format which can be used for multiple applications.

Installation:

Click SatcoDX Suite Updater in the SetUp of SatcoDX Suite

Commercial and Professional Users Apply For License at www.TELE-satellite.com/ads/

DishPointer Version 1.0.0.0

Erect your Dish Virtually and Find out What Satellites and Channels you get at any Location Worldwide

DishPointer brings together IP-Location, Google Maps and SatcoDX Chart. If you are online, it shows your own location by default, choose the satellite you wish to receive, and DishPointer shows all installation details and the satellite channels available. Additional features allow you to check for obstacles in line of sight - all from the comfort of your PC.

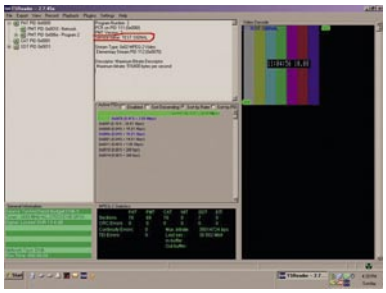
Installation:

Click DishPointer in the SetUp of SatcoDX Suite

Commercial and Professional Users Apply For License at www.dishpointer.com

TSReader Lite Version 2.8.46e

Read the Content of Transport Stream and Analyze Bitrates - Includes Video Displays



TSReaders connects to a wide selection of satellite PC cards and analyzes the transport stream. Each PID can be analyzed for its content and bitrate. Video PIDs are shown with a screenshot, including MPEG4 streams.

Installation:

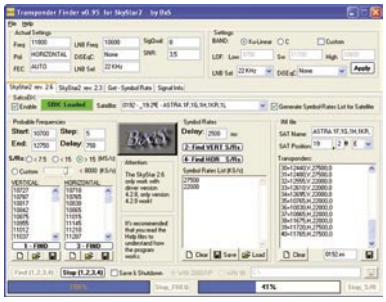
Click TSReader in the SetUp of SatcoDX Suite

Standard and Professional Versions of TSReader are available at www.tsreader.com

Transponder Finder Version 0.95

Find New Transponders Automatically With Intelligent Search

Transponder Finder requires SkyStar 2 r2.6 card with driver 4.2.8. It loads the sdx chart created by SatcoDX Updater and sorts Symbolrates by occurance. Transponder Finder searches for most used SRs first, then for frequencies, and only then starts a mechanical search for the SRs and frequencies left.



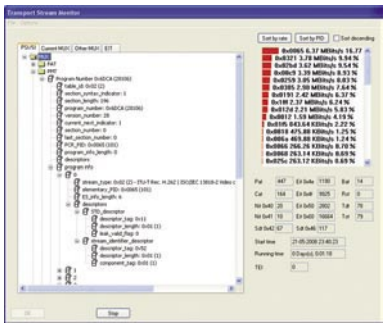
Installation:

Click Transponder Finder in SetUp of SatcoDX Suite

Commercial and Professional Users Apply For License at bxs.no.sapo.pt

DVBStreamExplorer Version 3.0.79

Analyze Transport Stream And Demux And Capturing to Disk



DVBStreamExplorer connects to a multitud of satellite PC cards and allows analyzing the stream, giving all informations available in stream including the full teletext data and shows bitrates. Shows services as MHP, AC3 or H.264

Installation:

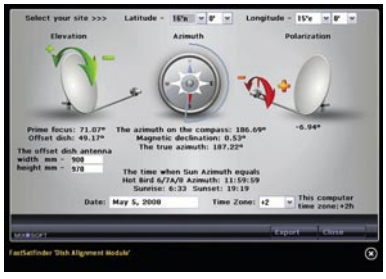
Click DVBStreamExplorer in the SetUp of SatcoDX Suite

Commercial and Professional Users Apply For License at www.dvbstreamexplorer.com

FastSatFinder Version 2.7.5

Alignment Tool with Signal Quality and Level Voice Reading

FasSatFinder offers all the tools needed for setting up a dish: select a satellite from the SatcoDX generated list and FastSatFinder immediately gives signal quality and level even in voice. Easy-to-understand graphics explain how to align dish for maximum.



Installation:

Click FastSatFinder in the SetUp of SatcoDX Suite

Commercial and Professional Users Apply For License at www.fastsatfinder.com

Topfield TAPs – Little Helpers for Your Topfield Receiver

Software developers don't always have it as easy as you might think they do. While one user wants to have very specific functions, the others sit there with puzzled expressions; while the professionals are always looking for more exotic uses for their equipment, the entire system must still remain easy to use for the beginner. This problem was solved decades ago in PC's in that on one side there are the operating system manufacturers and then on the other side you have hundreds of thousands of other smaller companies that have developed supplementary programs based on the basic operating system.

Up until recently, these types of developments were unknown in the DVB-S, DVB-C or DVB-T receiver world, and these boxes from all the different manufacturers come with only the exact features that were foreseen during their design stages.

For the aspiring South Korean manufacturer Topfield, this was simply not good enough. They came up with a plan to actively include the end users of their set top boxes in the developmental process. This was made possible by a unique programming interface, called TAP (Topfield Application Program), that the manufacturer made available at no cost to all users and included precise documentation of the possibilities and the proper approach to take. It didn't take long for dozens of hobbyists to surface that wanted to improve the capabilities of their Topfield receivers. Thanks to the Internet, these small supplemental programs quickly spread to others allowing Topfield receiver owners to choose from a variety of TAPs in order to upgrade their box with a specific useful function. A few of the better TAPs we would like to introduce to you here along with a download link so that you can take these TAPs for a test drive in your receiver.

Unless otherwise mentioned, most of the TAPs are compatible with Topfield's 5000 and 6000 PVR series and are easily uploaded into the receivers via the USB port or the network interface using the freely-available Altair program (downloadable from www.i-topfield.com). The TAPs are placed into the "Program Files" folder. This folder also contains the "Auto Start" subfolder. Any TAPs placed in this folder will automatically be executed when the receiver is turned on; any others would be activated by accessing the PVR menu and clicking on the << button.

Automove TAP – Increased Organization on the Hard Drive

This particular TAP is geared more towards our readers who are TV series lovers. It will take multiple recordings with the same title and move them into a predefined folder. Every recording from your favorite TV series will land not in the regular folder but nicely sorted in its own folder.

Download:

http://tools.hepke.com/component/

Filer TAP – A Wastebasket for Your Topfield

Who isn't familiar with this problem: when cleaning out your hard drive, one recording after the other is deleted only to find out that you still hadn't watched the conclusion of your favorite TV series. For the normal Topfield user, this would be an aggravating experience. But if you have the Filer TAP installed, there is no longer any need to worry. Much like a typical PC, the Filer TAP stores all deleted recordings in a virtual trash bin from which they can easily be restored if needed.

This TAP also provides some extras such as an expansion of the features in the receiver's PVR list: you can mark programs that have already been viewed, the font size can be adjusted and more sorting capabilities have been added.

Download:

http://www.elle4u.de/taps/filer

HDD Info TAP – Noise Suppression for Your Topfield Hard Drive

The hard drive is humming nicely in the background while you strain to listen to what they are saying in a quiet scene on the TV. For hard drive manufacturers, this has been a reason for some time already to incorporate some form of acoustic management although in most cases this option is usually not activated by default. In order to activate it, the hard drive would have to be removed from the receiver and installed in a PC; not exactly an easy procedure. The HDD TAP was written especially for this reason. It not only provides information on the installed receiver's hard drive, but in most cases can also let you activate many acoustic management settings directly through the receiver.

Download:

http://www.topfield-europe.com/de/09-taps/link.php?url=28

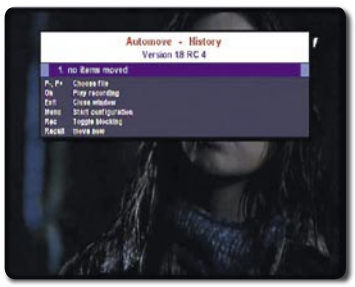
ImproBox – Many Practical Features for the Info Bar

ImproBox provides a replacement for the standard Info Box and offers a number of additional features. ImproBox provides three different backgrounds in four different colors and in addition to information on the current program also shows the user information on the next program. It is also possible to display all the upcoming programs in the Info Box, to directly display an upcoming primetime program, to look for repeats and to set your timer (extra time can be added to the beginning and end of a recording).

The live picture can be automatically reduced in size when the Info Box appears so that no portion of the picture is hidden behind the Info Box. ImproBox also provides a variety of Jump-to functions that let you, for example, quickly work your way through the recording menu or directly enter in your location in just minutes.

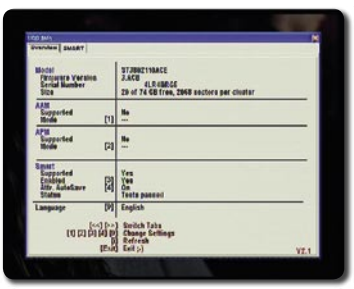
The Quick Start lets you restart the previously viewed recording with just the push of a button. Alternatively, a list displaying recently viewed recordings can be called up from which they can be played back again if desired. While a program is being recorded, ImproBox can display it in a preview window and, if desired, it can be manually stopped. This also holds true for the playback of an existing recording.

Important: ImproBox is shareware and can only be used for free for a limited time after which the user needs to obtain a license



Automove TAP

Filer TAP


HDD Info TAP

EPG from iTiNa

ImproBox with its many settings capabilities

Various screenshots of Jag's EPG

from the manufacturer!

Download:

http://www.improbox.de/index_en.html

Masterpiece Display – Gets the Most Out of the VDF Display

This little TAP expands the Topfield 5000's VDF display by providing more useful data, such as the actual time, and also changes the presentation of longer data names during playback (from this point on it would only be scrolled a single time). In our tests we were unable to get this TAP to work with Topfield's 6000 series.

Download:

http://www.topfield.cc/files/Firebird/MPDisplay.zip

Jag's EPG – A Must-Have

If you are not satisfied with Topfield's standard EPG, you could always give Jag's EPG a try. One thing is for sure: after using Jag's EPG, it is highly unlikely that you will miss Topfield's normal EPG. With Jag's EPG, you can, for example, download the EPG data for the first 100 channels automatically on a daily basis (e.g. overnight) so that you can view them anytime you want without any download delays, even if you're not on your favorite channel. In addition to the countless ways that this data can be displayed, this TAP also has a variety of search and sort functions, lets you directly enter timer settings with the ability to add extra time before and after the programs start time, etc. The entire range of features provided by this TAP fills a 38-page full-size user manual. In addition to the original TAP, other programmers have developed accessory tools such as a program to display timer settings on a PC. This TAP is freeware!

Download:

http://www.topfield-europe.com/forum/forumdisplay.php?f=58

Bookmark TAP – An Absolute Favorite

At first glance, the Bookmark TAP seems rather small and unremarkable but it provides the receiver with an extremely practical function. Every time you push the Stop button, a bookmark is placed at the exact point where the playback of a recording was stopped so that later you can pick up watching your program exactly where you left off.

Download:

http://www.mynetcologne.de/~nc-lueckth2/

Movie Progress TAP – When is This Movie Over?

This useful TAP displays the remaining time of a program in a graphic located just above the Info bar.

Download:

http://www.boeckle-net.de/topfield_taps.htm

3PG – Expanded EPG

The 3PG TAP also deserves mention although it offers functions similar to the Jag's EPG. Our suggestion: try them both out and decide for yourself which TAP you want.

Download:

http://www.topfield-europe.com/forum/forumdisplay.php?f=67

iTiNa – The Third is the Charm

Developing an EPG TAP that includes everything that thus far has been missing in other TAPs, was the idea of two Topfield enthusiasts who, through some painstaking work, have created iTiNa (intelligent Timer and Navigation). For one thing, it comes with a completely new EPG and Info bar display, and for another, it also includes a number of practical features such as audio reproduction for the blind, overlapping timers on the same tuner, automatic scanning in the EPG data along with direct timer programming, an Auto-move function, plus much more.

Download:

http://www.itina.de

AutoZapper – A TAP for TV Junkies

This TAP was developed for all those chronic channel surfers out there with sore thumbs. It will channel surf automatically with a user-settable delay between all the channels in the channel list.

Download:

http://www.boeckle-net.de/topfield_taps.htm

PIP Switch – Deluxe PIP function

The PIP Switch TAP expands the standard PIP function with a few new features. You can now view split-screen images or set up overlapping windows. The result is impressive and looks exceptionally professional.

Download:

http://www.mynetcologne.de/~nc-lueckth2/

Backup TAP – First Aid for Your Topfield

If everything should go wrong one day and your channel list, settings and timer entries should all disappear, this TAP would help as long as a backup had already been made. It would let you bring the receiver back to its original state.

Download:

http://tonyspage.abock.de/TAPS/backup_settings3.2.zip

Topfield MP3 Jukebox

Every Topfield PVR receiver has the capability to playback MP3 files but this function was not given much attention by the manufacturer. The MP3 Jukebox TAP comes into play here and provides all of the functions you'd expect to find in a decent Jukebox.

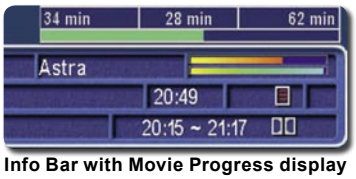
Note: At this point, this TAP only works with the Topfield 5000 series and not with the 6000 series!

Download:

http://www.netgio.com

These are only a few of the TAPS that we had room to write about and that we felt were worth mentioning. On the web sites listed below you will find many more small as well as large helpers for your Topfield receiver:

http://www.topfield.cc



Info Bar with Movie Progress display

3PG TAP's easy-to-read EPG overview

AutoZapper TAP – the next channel will appear shortly

Split-screen view thanks to the PIP Switch TAP

Backup TAP

Topfield MP3 Jukebox

First Steps in the Ka Band

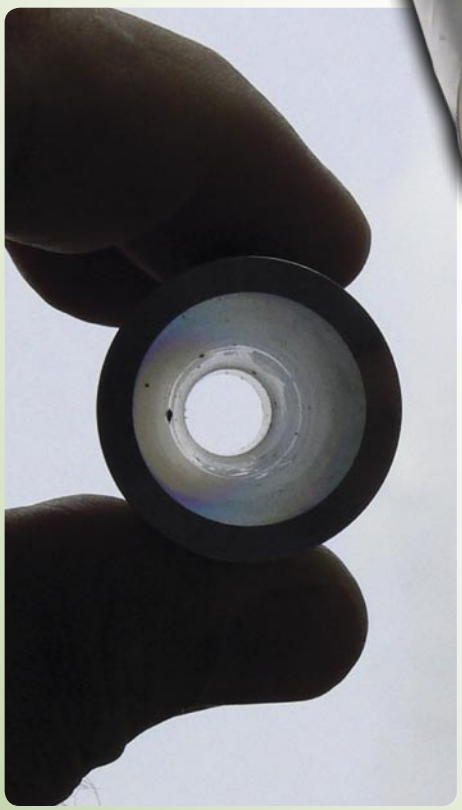
Reception Experiments In the 20 GHz Range

TELE-satellite has reported on the Ka band several times already, the latest time as recently as in issue 09/2007. The Ka band extends from 18.2 to 22.2 GHz and was split by LNB manufacturers into different segments. "A" denotes the first segment from 18.2 to 19.2 GHz, "B" stands for the second segment from 19.2 to 20.2 GHz and so on. Reducing each segment to a 1 GHz bandwidth makes sure conventional satellite receivers are capable of receiving signals that are transmitted on Ka band transponders when converted into intermediate frequencies between 0.95 and 1.95 GHz.

With these facts in mind it was about time someone tried out Ka band reception after all. Ron Eberson in Amsterdam did just that and we visited him to find out how he went about with his mission and what result he was able to achieve. This is how his story begins: "First of all I obtained a Ka band LNB directly from the manufacturer." The reason for this direct approach is that Ka band LNBs are not (yet) available from high street satellite shops. While Ka

Ron Eberson in the garden of his town house in northern Amsterdam. He shows a Ka band LNB with a purpose-built feed. Ron Eberson is an experienced antenna professional: for many years he had owned a company producing amateur radio antennas. In 2000 he sold his business and since then he has been able to invest most of his time in satellite reception.

Ron Eberson had a feed made out of an aluminium cast. "I could have done it myself with the help of a turning lathe," he says adding that "everybody can do that. You can buy a turning lathe for 300 euros these days." The feed output measures 28.8 mm and is fitted to the antenna, the feed's input fits the LNB output with 10.8 mm.



View into the feed horn: the conical shape of the feed is visible.

The feed fits perfectly into the existing reflector antenna and is inserted into the existing funnel feed.

SONICVIEW

SV-360 Premier

SV-360 Elite

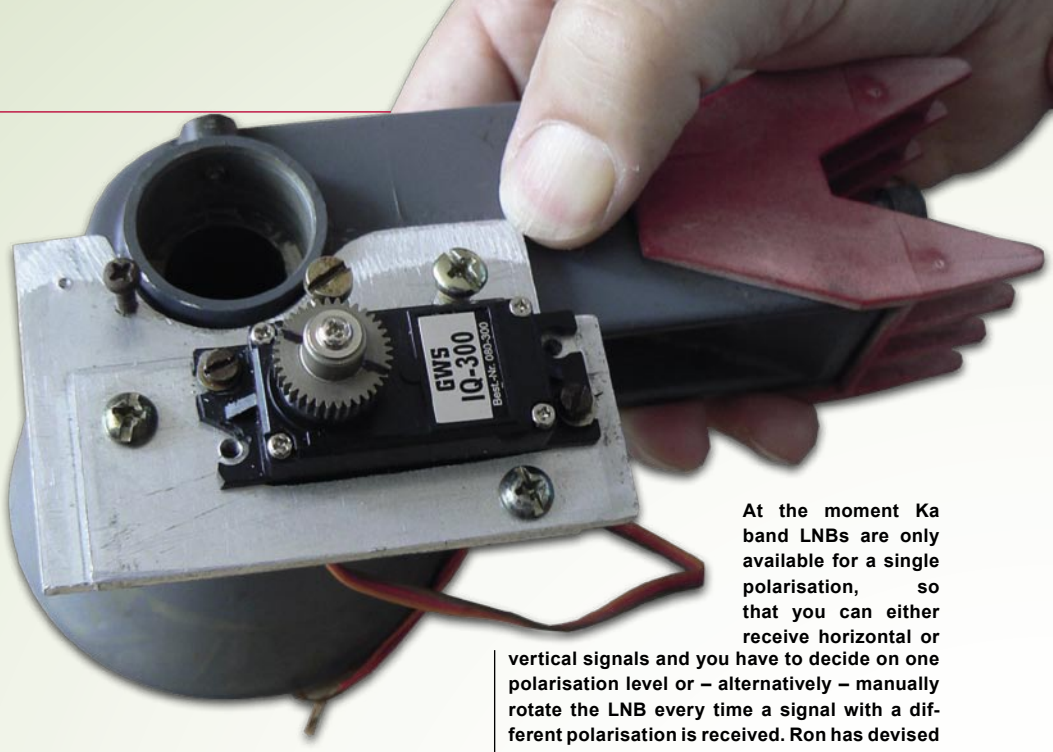
SV-HD8000

Sonicviewusa.com • 4225 Oceanside Blvd, Suite M101 • Oceanside, California 92056 • United States
(52)1-760-842-8931 • (52)1-760-842-8935 FAX • Dealer inquiries contact - sales@sonicviewusa.com

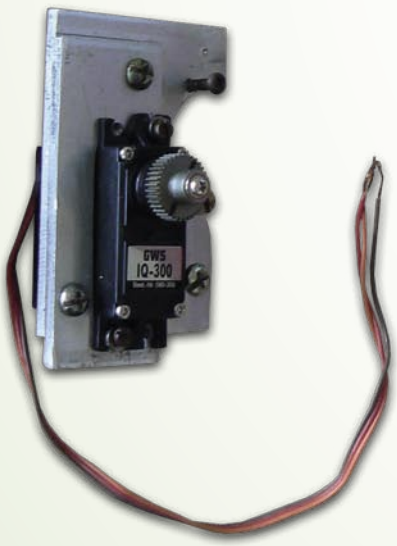
band technology is already being used in professional applications, these systems always come in complete packages so that individual components are hard to come by. In particular, providers of Internet-via-satellite frequently rely on the Ka band as it offers extremely good bandwidths and the capacities are underused at the moment. North American Internet service provider Wildblue is one of the pioneers of Ka band use. Once Ron Eberson was able to call several Ka band LNBs (one for each frequency range or segment) his own, he encountered the next obstacle. "Due to the higher frequency range the waveguide is narrower than for other bands, which means that regular Ku band feeds simply won't fit." Not a problem for Ron Eberson, as he quickly made up his mind to build his own customised feed. "Of course I had to calculate the correct measurement first," Ron explains, but this turned out to be quite straightforward thanks to a software application called PCAAD 5.0 (http://www.antennadesignassociates.com/pcaad5.htm). "All you do is enter some basic parameters and the tool takes care of all the rest."

So then the actual feed had to be built. "Actually, I could have done it myself with the help of a turning lathe," Ron continues, but as he has a friend working at a professional metal processing company he had the feed made from an aluminium cast based on the result of the software tool. The next stop was to decide which receiver could be used for Ka band reception. According to Ron "any receiver will do, even though it only makes sense to use a box which allows entering any given IF manually." That's why Ron went for a Fortecstar receiver because "this box correctly displays the reception frequency on screen."

Ever since, Ron has been spending enormous amounts of time scanning the Ka band satellites. Albeit, his moments of success are still rare. "I'm really stuck without knowing the appropriate symbol rates," Ron tells us with disillusionment. A situation like this is the greatest challenge for any genuine DXer and even Ron admits that "this is part of the fun. Where's the challenge when all you need to do is press a button?". In the meantime he set up his own Internet forum (www.gregorian-users.com and http://96592.forums.motigo.com) to get in touch with other Ka band enthusiasts. "At the moment there are three members on the forum, but I do hope this number increases so that we can exchange our thoughts and ideas regarding the Ka band," hopes Ron Eberson, a true satellite pioneer.

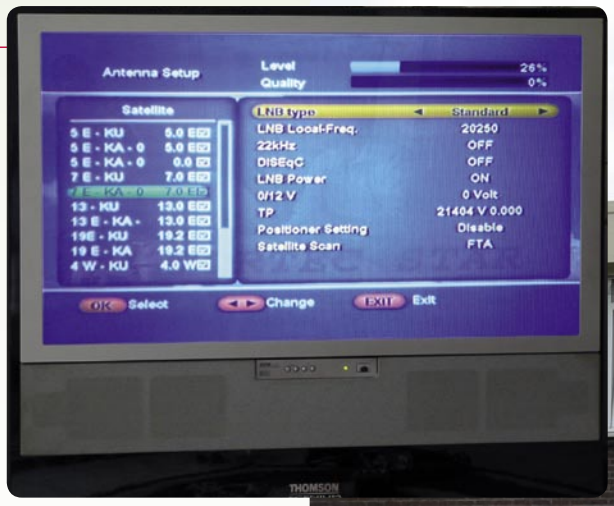


At the moment Ka band LNBs are only available for a single polarisation, so that you can either receive horizontal or vertical signals and you have to decide on one polarisation level or – alternatively – manually rotate the LNB every time a signal with a different polarisation is received. Ron has devised something different altogether. "For about 10 euros I'm building a device that rotates the LNB as needed," Ron explains. "I take a motor with a cogwheel, like the ones that are used for model building, and a so-called servo tester, which are also quite common for model building when the remote control is not in use."



The LNB rotator is still in the making, but this is how it will work in the end: the motor with the cogwheel is mounted on the feed, and the LNB is mounted in the feed with a cogwheel ring and a flange so that it can rotate. With this mechanism Ron will be able to rotate the LNB from horizontal to vertical with his remote control.

The existing funnel feed for the Ku band. The Ka band feed is put into the opening that usually takes in the Ku band LNB. The funnel feed increases reception efficiency.

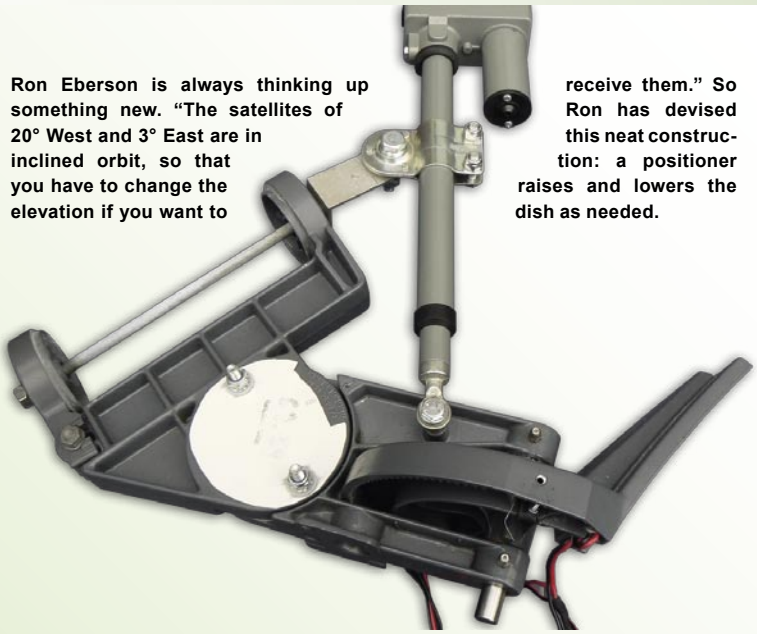


The moment of truth has arrived: Ron enters the local frequency of 20.250 GHz in his receiver and thus makes the receiver display the correct reception frequency without conversion. As the Ka band LNB is not divided into high and low bands and the polarisation cannot be changed, all these settings are turned OFF. However, due to lacking symbol rate information Ron has not been able to receive any Ka band signals yet.

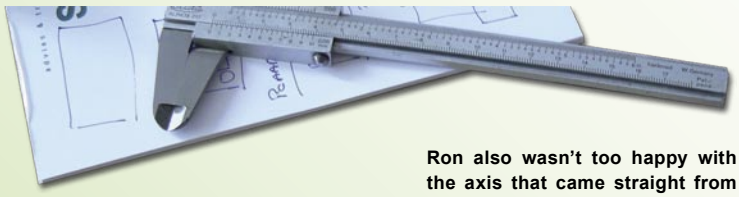
Ron has installed a 90 cm reflector antenna on the roof of his town house.

Ron Eberson's Handiwork

This is the small 55 cm reflector antenna Ron uses for his Ka band experiments. Nothing extraordinary at first sight, but if you have a closer look you'll notice that the motor is mounted at the wrong place: it does not sit below the rotating axis but above it. And come to think of it, we're not talking about a regular motor here either, but a DiSEqC motor. Ron sheds some light: "A conventional motor requires a 36 V positioner and can only move the dish 50° in each direction, which wasn't good enough for me." So Ron replaced the axis with a purpose-built axis and put a DiSEqC motor on top of it. "This has many advantages," Ron smiles, "because the dish can be turned almost 90° in each direction now, the motor axis is better protected from the elements and I can rotate the antenna using DiSEqC commands."



Ron Eberson is always thinking up something new. "The satellites of 20° West and 3° East are in inclined orbit, so that you have to change the elevation if you want to receive them." So Ron has devised this neat construction: a positioner raises and lowers the dish as needed.



Ron also wasn't too happy with the axis that came straight from the manufacturer (above): so he simply built a new one from machining steel (below) and added grooves for permanent lubrication. "Ever since, the antenna has worked flawlessly. Once a year I add some fat for lubrication and the thing runs as smoothly as on day one." In addition he added a thread in the centre. "This way I can stabilise the antenna if the motor is removed, otherwise the dish would judder like a sail in the wind."

SatcoDX India

Alexander Wiese

Recently, a new SatcoDX AutoScan station was set up in India. Now, SatcoDX stations automatically detect all satellite channels transmitted over India, using scan software that was developed in-house at SatcoDX. With the currently two stations – one of which is located in Thiruvananthapuram in southern India, the other one on New Delhi to cover the North – SatcoDX is now able to analyse almost all beams that can be received in India.

The Thiruvananthapuram AutoScan station has been operational for two years now and is managed by Satheesan, a very committed satellite DXer with many years of experience in the field of satellite reception. "I set up my first dish twelve years ago," Satheesan proudly tells us.

Since then his antenna farm

has grown steadily, a development that was helped by the fact that he has more than enough free space for this. Meanwhile he receives all satellites available at his location.

For SatcoDX he runs six PCs, each of which scans fours beams, making it a total of 24 beams which are being scanned by Satheesan 24/7. This way new channels are detected almost immediately and their parameters are entered automatically into the SatcoDX frequency charts.

For several months now the Thiruvananthapuram SatcoDX AutoScan station has been complemented by an additional station in New Delhi which is operated by computer engineer Siddharth. He reveals that "I have some ten years of experience of feed hunting and up to today I was able to receive virtually all satellites positioned in the orbit above India."

As he lives right in New Delhi, space had become a major drawback and at the moment Siddharth is in the preparation stages for relocating to a place outside New Delhi so that he can keep receiving all signals at his new location in Moradabad. There he will have more space to set up additional dishes for receiving northern signals as well.

Once the new station is up and running SatcoDX will be able to receive and analyse virtually all beams available in India and thus will offer up-to-date satellite charts free of charge to all and everyone at www.SatcoDX.com

Thiruvananthapuram SatcoDX AutoScan station (Federal State of Kerala)

Satheesan Puzhakkara

Satheesan in his shack in front of the scan PCs for the Thiruvananthapuram AutoScan station. Using a DiSEqC switch each PC scans four satellites. All results are transferred immediately to the SatcoDX server using an ADSL Internet connection, so that they become available in www.SatcoDX.com with hardly any delay.

New Delhi SatcoDX AutoScan station

Siddharth Gautam

Siddharth in his shack in front of the PC at New Delhi SatcoDX AutoScan station

This 10-foot dish is aligned towards BADR at 26° East. It was assembled on site and was designed by a local craftsman.

Assembly of a commercial 10-feet dish

Close view of the 12-feet dish: with a little bit of improvisation it is possible to receive eight beams, namely (from above): APSTAR 6 at 134E, VINASAT 1 at 132E, JCSAT 3 at 128E, ASIASAT 4 at 122E, CHINASAT 6B at 115.E (this LNB is the one that is in focus), NSS 11 at 108 in the Ku-Band, ASIASAT 3S at 105.5E und ASIASAT 2 at 100.5E

One bag of cement is mixed up on the roof...

...and the mast foundation is erected using some 200 bricks

合揚科技股份有限公司
MICROELECTRONICS TECHNOLOGY INC.

UNIVERSAL RANGE

Low Phase Noise & High Gain • Full Ku-Band Coverage • Low Power Consumption

29,rue de Luxembourg L-8077 Bertrange Luxembourg.
E-tronix
Tel: +352 26 44 02 60
Fax: +352 26 44 02 61
info@e-tronix.lu

No. 1 Innovation Road II, Hsinchu Science Park
Hsinchu 300, Taiwan R.O.C.
Tel: +886 3 577 3335
Fax +886 3 577 0936
sales_contact@mti.com.tw
www.mti.com.tw

VSAT TVRO ANTENNA SYSTEM

Intelsat /GVF Type Approved

Please visit us at
IBC from 12 to 16 September, Booth No. 12E, E11e
TAITRONICS from 7 to 11 October, Booth No. L812

AZURE ✦SHINE

AZURE SHINE INTERNATIONAL INC.
No. 1000, Gwang Fu Road, Pa Teh City, Taoyuan, 33455 Taiwan, R.O.C.
Http:// www.azureshine.com.tw/ E-mail: azure.shine@azureshine.com.tw
Tel: 886-3-3611393 Fax: 886-3-3615877

Satheesan's antenna farm for the Thiruvananthapuram SatcoDX AutoScan station in southern India

The satellite installer mounts the LNB on the feed roddings...

... and takes care of fine-tuning once the dish is set up.

Done! The antenna is now perfectly aligned to receive EUROBIRD 2 signals at 25.5E.

TEHNIC B

B-dul 16 Decembrie Nr. 41
Timisoara, Romania
tel: 0040 356 006000
fax: 0040 356 006003
mail: tehnicb@rdstm.ro
web: www.tehnicb.ro

OFFSET SATELLIE ANTENNA, STEEL
60 / 70 / 80 / 90 cm

DIGILINE SINGLE LNB

THB-SAT TWIN LNB

WALLMOUNT SPD 21 cm

WALLMOUNT SPL 38 cm

INTELSAT-HOTBIRD
DOUBLE LNB HOLDER

DISEQC 2/1 SWITCH

TELEMANN 1600
DIGITAL SATELLITE METER

THB-SAT RG-6U COAX CABLE
ROLL 100m or 300m

F-CONNECTOR (100 Pc)

The products can be branded. In case of larger order the products will be delivered free of charge.

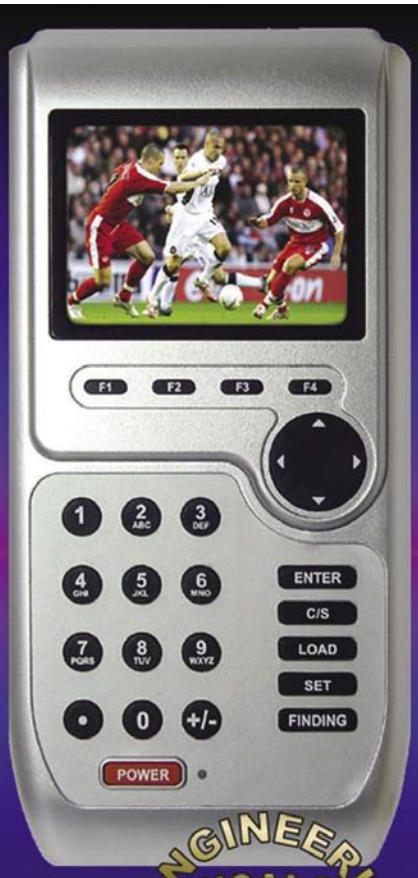
SATCATCHER

DIGITAL SATELLITE METERS

THE FUTURE.... TODAY!

UNIQUE SATELLITE LISTING.
VERY HIGH BUILD QUALITY.
HIGH POWER BATTERY.
VERY LIGHT AND PORTABLE.
LCD TV FUNCTION.
WATCH THE CHANNELS.
SPECTRUM ANALYZER.
FULL KIT INCLUDED.
SATELLITE MOTOR CONTROL.
DISEQC SWITCHING.
EASY TO EDIT BY HAND.
2 YEAR WARRANTEE.(1 yr Battery)
VERY EASY TO USE.

DIGIPRO II
DIGIPRO III
DIGIPRO IIIs
DIGIPRO EXCEL-TV
DIGIPRO T MAX
DIGIPRO Q MAX
DIGIPRO ST COMBO



HIGH QUALITY ENGINEERING
USALS
HQ

SatCatcher Ltd. Unit 7 Salvesen Way
Freightliner Road , Hull , East Yorkshire
United Kingdom. HU3 4UQ
0044(0)1482 221577

WWW.SATCATCHER.COM

Edited by
Branislav Pekic

EUROPE

EUROPE

CHE INSTALLS IDIRECT HUB, LAUNCHES DVB-S2

Cobbett-Hill Earth Station (CHE) has installed an iDirect Series 15000 Universal Satellite Hub and acquired multiple iNFINITI 5000 Series Satellite Routers to launch a hosting service for VNOs. With the debut of its new offering, CHE has signed its first VNO customer, AGC Marine Telecom, which will provide its mega yacht and cruise line customers with high-speed broadband connectivity. In addition to its VNO operations, CHE will be launching an IP broadband service using iDirect's next-generation Evolution DVB-S2 system with Adaptive Coding and Modulation (ACM). The investment enables CHE to develop a multiple- satellite DVB-S2 network for operators with markets in Africa and the Middle East, where space segment remains highly limited.

OMNIGLOBE BECOMES RESELLER OF INET VU MOBILE ANTENNA

Communications equipment supplier OmniGlobe Networks EMEA has signed a long-term reseller agreement with C-COM Satellite Systems, to become an authorised reseller of its iNetVu mobile satellite antennas. OmniGlobe Networks will be promoting and selling antenna communication systems to its well established customer base, spanning more than 70 countries. OmniGlobe Networks will offer the iNetvu antenna systems which are fully compatible with the world's leading satellite-based IP technologies and automatically connects to the internet at broadband speeds. The agreement with C-COM Satellite System also enables the company to enter the growing mobile VSAT and DSNG) markets.

BULGARIA

TRANSAT TO PROVIDE VSAT CONNECTIVITY

Satellite communications company Transat has signed a co-operation agreement with Microsoft Bulgaria to provide software service (SaaS) applications from the last quarter of 2008. The VSAT connectivity offered by Transat will enable satellite access to SaaS applications for customers in remote areas. The idea is to market a package of broadband Internet and software solutions.

THE NETHERLANDS

THRANE & THRANE INTRODUCE VSAT SOLUTION AND NETWORK

Satellite equipment manufacturer Thrane & Thrane will introduce a maritime VSAT solution and network in September 2008. Thrane & Thrane will offer the new SAILOR 900 VSAT and various fixed broadband data packages at attractive flat rates plus additional voice channels, addressing the professional maritime market. With fixed standard data and voice packages of up to 1024/256 kbps and additional voice channels, the SAILOR 900 VSAT solution allows ship operators to be online at all times with the benefit of cutting communication costs while sailing inside the SAILOR 900 VSAT coverage area.

TURKEY

VIASAT COMPLETES INSTANBUL VSAT NETWORK

ViaSat has completed the rollout of its LinkStarS2 satellite networking system to ELIOP S.A. (Spain) for data collection, monitoring, and control of drinking and waste water operations for the Istanbul Water and Sewerage Administration General Directorate (ISKI). ELIOP has integrated its own "SHERPA" supervisory control and data acquisition (SCADA) technology with LinkStar terminals to gather information on water reservoir levels, pipeline integrity, water quality, and drinking and waste water distribution management for a community of 15 million customers. ViaSat supplied the complete satellite communication network including the antennas, satellite transmission electronics, LinkStar hub, and 300 network terminals.

NORTH AMERICA

GLENTEL TO PRESENT NEW VSAT TECHNOLOGY

Wireless communications solutions provider Glentel Inc has showcased a new generation of VSAT-based satellite services. The new VSAT system was developed to meet the needs of supervisory control and data acquisition (SCADA) users who require more robust and reliable remote infrastructure. Glentel's new system offers virtually guaranteed data transfer at a cost comparable to traditional radio links. From its state-of-the-art hub, located in Edmonton, Glentel's VSAT services can configure, monitor and control thousands of remote sites across North America. Each compact terminal including a satellite modem, IP router, TCP optimization over satellite, 3DES/AES encryption and QoS/prioritization.

UNITED STATES

BROADPOINT AWARDED SEACOR MARINE CONTRACT

Telecommunications and network solutions company Broadpoint has been awarded an additional contract from SEACOR Marine, a leading provider of support services to oil and gas operators. The contract covers connectivity services for five new vessels. SEACOR will be able to provide its crews and passengers with more reliable and convenient voice and data services, including wireless Internet. In addition, on the SEACOR Cheetah, the ability to transmit video over satellite will act as a safety measure, enabling experts on shore to view vessel conditions in real-time.

US MONOLITHICS LAUNCHES NEW SATELLITE PRODUCTS

US Monolithics has launched a line of commercial C-and Ku-band satellite transmit and receive products. New products include C- and Ku-Band low-noise block down converters (LNBs) and block up converters (BUCs) specifically designed for (VSAT) satellite communication terminals. The product line includes a series of high-stability free running DRO and PLL LNBs, Ku-band BUCs from 1W to 150W, and C-band BUCs from 1 to 300W.

SATELLITE INDUSTRY OPPOSES KU-BAND TERRESTRIAL SERVICE

The global satellite communications sector has asked the U.S. Federal Communications Commission (FCC) not to allow terrestrial fixed services to operate in the 14.0-14.5 GHz band due to potential interference to fixed and mobile satellite-based services provided using the band. The Global VSAT Forum (GVF) and European Satellite Operators Association (ESOA) called upon the FCC to dismiss a Petition for Rulemaking submitted by the Utilities Telecom Council and Winchester Cator to share Ku-band spectrum. The GVF and ESOA claim that the proposals by the Telecom Council and Winchester would not protect present and future fixed satellite service operations from harmful interference and likely would result in harmful interference even at modest deployment levels.

ACCELENET TO IMPROVE MILITARY OPERATIONS IN IRAQ

IAP Worldwide Services has selected Intelligent Compression Technologies' AcceleNet WAN optimization and application acceleration client software to speed the application experience of its staff in Iraq. The purchase represents the first implementation of several projects using limited bandwidth networks and long-range satellite links by IAP, a provider of support services to the U.S. Department of Defense and other federal, state, and foreign governments. The AcceleNet client is designed specifically to improve performance of public and secure web applications, file shares, and email over networks with limited bandwidth, latency and high packet loss, including 3G wireless, DSL, and satellite.

NORSAT LAUNCHES 12 NEW LANGUAGE VERSIONS

Satellite solutions provider Norsat International has released its advanced satellite acquisition and terminal control software, LinkControl, in 12 new languages. Norsat LinkControl is now available in a total of 15 different languages: Arabic, Bahasa, Chinese (Simplified and Traditional), Dutch, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Spanish and Turkish. Norsat LinkControl software allows users to operate all aspects of a portable VSAT terminal from a single console. LinkControl is also compatible with modems from Radyne, iDirect and Paradise and transmitters from Xicom.

VSAT RECEIVES USD 52 MILLION ORDER

ViaSat has won a delivery order valued at approximately USD 52 million for Multifunctional Information Distribution System terminals from The Space and Naval Warfare Systems Command (SPAWAR), San Diego. By gathering information into a digital view of the battlefield, MIDS provides greater situational awareness in combat for the U.S. Navy, Air Force, Army, Marine Corps, and for U.S. defense partners. The secure, high capacity, jam resistant wireless (non-satellite) system connects users with both digital data and voice communications. Delivery of Lot 9 units is expected to begin in May of next year and continue through the first quarter of ViaSat's fiscal year 2011.

SEAMOBILE WINTS GSA CONTRACT

SeaMobile Enterprises' MTN Satellite Services division has won a contract from the General Services Administration (GAS) to provide its full suite of satellite communication services to government agencies, including the U.S. military, via its GSA schedule. GSA is an independent agency of the United States government dedicated to help manage and support the basic functions of federal agencies. MTN Satellite Services offers "Always On - Always Available" worldwide connectivity through its integrated

ONE TOUCH AND GO

The world we want is made of Information.
"One Touch and Go" is the resource for open source journalism and for all who are able to sniff out News and don´t let it go.
"One Touch and Go" mobile station for distribution of satellite television services

etnatel MediSat italspazio MEDISAT SISTEM Brain

San Giovanni La Punta - Catania (Italy)
Tel/fax: +39 095 741.74.00 / +39 095 751.37.99
Web: www.antech.it - Mail: info@antech.it
ETNATEL: www.etnatel.it - info@etnatel.it.

Antech SATELLITE COMMUNICATIONS

global C-Band and multi-regional Ku-Band VSAT networks. Its advanced IP overMPLS backbone is approved for use with U.S. government encryption technologies, and provides a secure and robust integrated global network.

TCS AWARDED USD 246 MILLION U.S. ARMY CONTRACT

Wireless communications provider TeleCommunication Systems (TCS) has been awarded an indefinite delivery/indefinite quantity delivery order with a potential value of USD 246 million over the next 39 months. The delivery order is with the U.S. Army Communications-Electronics Life Cycle Management Command (CECOM LCMC) to support its need for rapidly deployable and highly secure satellite communication access to broadband satellite services.

SEAMOBILE TO PROVIDE IPTV PLATFORM FOR CRUISE SHIPS

Wave Entertainment Network, a division of SeaMobile Enterprises, has presented its IPTV television platform available to the cruise line industry worldwide. The continually expanding line-up includes linear and on-demand programming services from major media companies such as A&E Networks, CBS, Comcast, Cox Communications, Discovery Networks, Fox Cable, Fox News, NBC Universal, Twentieth Century Fox Studios and Viacom. In addition, cruise line guests who are sailing in the Mediterranean are able to view television programs in a variety of different languages from the top European providers, including Euronews, BBC News, BBC Prime, France 24, TV5 Monde, RAI International, RAI News 24, DW TV, ARD, and TVE International.

LATIN AMERICA

BRAZIL

SHIRON SATELLITE WINS VSAT CONTRACT

Shiron Satellite Communication's Brazil office has closed a commercial agreement with Sanmina-SCI to produce state-of-the-art, broadband satellite communication VSATs locally in Hortolândia (SP), district of Campinas. Shiron will be the first and only company to have local production of VSATs in Brazil. Currently, more than 20,000 VSATS are imported every year into Brazil, and the country's installed base exceeds 100,000 VSATs. With Coldecon and Anditel/IPC in Colombia, Shiron has deployed over 7,000 VSAT terminals in 2007, and is deploying, for the first time in Latin America, 3,000 iRG-S2/ACM VSATs with 16APSK ACM (Adaptive Code Modulation) outbound and an 8PSK with FEC 8/9, the most efficient VSAT system deployed.

ASIA & PACIFIC

BANGLADESH

FIRST PRIVATE INTERNET GATEWAY OPERATIONAL

The first private International Internet Gateway (IIG) started operating in Bangladesh in June. Two POPs have been installed in Dhaka and Chittagong in the first phase of operations, to be expanded later. Mango Teleservices, a unit of Dhaka-based Communication Solution Limited, set up the IIG in partnership with multinational corporation Cisco Systems, Inc. The IIG operator will give internet service providers and businesses high speed, high bandwidth international connections through its network. Mango's IIG will be connected with the existing submarine cable as its main link and with the Satellite Earth Station/VSAT as its back up until another submarine cable is available.

FIJI

TFL PROVIDES VSAT HUB FOR VANUATU COMPANY

Vanuatu's telecom company has been assisted by the Telecom Fiji Limited (TFL) in providing telecommunication services to its remote customers through its VSAT hub based in Yaqara. Like Fiji, Vanuatu has customers in remote lying areas whose only means of access to telecommunication services is via satellite. Two years ago TFL made a substantial investment in its upgrading of the VTSAT service through its partnership with Gilat using their Sky Edge technology.

INDIA

RAILWAYS TO GET VSAT COMMUNICATION HUB

Indian Railways will soon have its own state-of-the-art communication network as it has signed a contract with Hughes to set up its first dedicated VSAT communication hub. The VSAT hub would allow the Indian Railways to not only offer a host of mission critical applications but also provide Internet access on running trains. The commissioning of the dedicated VSAT hub will allow Indian Railways to connect 1,000 locations across 19 States and give voice and data connectivity for their services at remotely

located stations where fixed and mobile network of telecom operators have not reached so far.

TATANET PARTNERS WITH VT IDIRECT AND STELECTRONICS

Satellite-based IP communications technology supplier VT iDirect together with its sister company, ST Electronics (Satcom & Sensor Systems) has announced a strategic partnership with Tatanet Services, an Indian VSAT service provider. Tatanet has implemented an iDirect Series 15000 Universal Hub in Mumbai, which will enable it to expand its business across multiple developing markets that require specialized service capabilities. Through iDirect's Intelligent Platform, Tatanet can provide satellite VPN, VoIP and Internet broadband services to major enterprises and organizations, supporting remote communications, business continuity networks and a wide array of critical IP applications.

ISRAEL

GILAT SHAREHOLDERS APPROVE MERGER WITH GALACTIC

The shareholders of Gilat Satellite Networks approved the Agreement and Plan Merger, dating back to March 31, among Gilat, Galactic Holdings and Galactic Acquisition Company, pursuant to which Galactic Acquisition Company will be merged into Gilat. Gilat will continue as the surviving entity and will become a wholly-owned subsidiary of Galactic Holdings. Gilat Satellite Networks is a provider of IP based digital satellite communication and networking products and services. The Company designs, produces and markets VSATs and related VSAT network equipment.

JAPAN

BB SAT TO PROVIDE SATELLITE BROADBAND SERVICE

Beginning October 1, BB SAT will demonstrate two-way consumer satellite broadband service in Japan. The demonstration service is aimed at showing how broadband satellite service can solve Japan's "digital divide" problem of several million households, and how this service can be a significant part of the government's strategy to provide broadband service to all citizens. Two towns in the Japanese "digital divide", Shobara in Hiroshima prefecture and Tsuru in Yamanashi prefecture, have been selected as sites for this initial demonstration service. The demonstration service will use the ViaSat SurfBeam system already in widespread use in the U.S. and elsewhere. Satellite capacity is being provided by Space Communications Corporation using their Superbird B2 spacecraft.

MALAYSIA

TELEKOM MALAYSIA AND NUMIX TO LAUNCH BROADBAND SERVICE

The partnership venture of Telekom Malaysia Berhad (TM) and Numix Engineering has contracted 5 MHz of transmission capacity on the NSS-6 satellite at 95 degrees East to launch two-way Ku-band broadband services targeting Malaysia and other countries in South East Asia. TM is Malaysia's leading next generation communications and broadband provider. Numix Engineering provides local expertise involved in the supply and system integration of high technology products.

SINGAPORE

SINGTEL EXTENDS MARITIME SOLUTIONS VIA SES NEW SKIES

Singapore Telecommunications is extending its suite of maritime satellite solutions globally by contracting capacity on SES New Skies' NSS-7, NSS-703 and NSS-5 satellites. Terms of the three-year deal for up to 5MHz of capacity over the three satellites remain confidential. The SES New Skies satellites will also support demand for Singapore Telecommunications's (SingTel) OfficeAtSea@SingTel suite of Maritime VSAT solutions, which enable vessels to communicate seamlessly and cost-effectively with their headquarters on land. Solutions include 'always-on' unlimited broadband internet access, email, low-cost VoIP calls, GSM onboard and ship surveillance.

AFRICA

KENYA

KENYA TO GET NEW VSAT NETWORK

Kenyan businesses are to get a new VSAT network to deliver high quality voice, broadband data and video services. The new network is expected to be used primarily by banks and financial services companies to provide private networking services, including interactive data, broadband Internet access, VoIP and client-server banking applications to their customers throughout Kenya. The network, comprising SkyEdge II IP VSATs and a SkyEdge II hub which supports multiple satellites, will cover sites in various parts of Kenya. The Kenyan network

MFC
Microwave Filter Company, Inc.
Satcom Filters & Components
Downlink & Uplink Filters in the C, X, Ku, K and Ka bands for commercial & military use

6743 KINNE STREET, EAST SYRACUSE, NY (USA) 13057
Tel: (315) 438-4700
Fax: (315) 463-1467
E-Mail: mfcsales@microwavefilter.com
RoHS Compliant
An ISO 9001:2000 Registered Company
www.microwavefilter.com

will be commissioned and operated by Alldean Satellite Networks, a Kenyan satellite service provider offering both domestic and cross-border connectivity to virtually anywhere in Africa.

NIGERIA

EMPERION WEST AFRICA INTRODUCES VIDEO CONFERENCING

In its effort to help corporate institutions, multinationals and small enterprises as well as individuals reduce the rate of travelling, thereby saving cost and time, Emperion West Africa, one of Nigeria VSAT providers has pioneered the introduction of Videoconferencing on demand. Managing director, Sandeep Jayaswal, said that kiosks would be erected throughout the country where anyone could walk in at a pre-planned period and put through a videoconference call. Emperion designs, deploys, operates and maintains broadband IP communication solutions and services based on digital satellite (VSAT) and fixed wireless access (FWA) networks.

GALAXY BACKBONE PROMISES LOWER INTERNET COSTS

Telecommunication service provider Galaxy Backbone has vowed to reduce internet costs by deploying latest technology in the country and deploy ICT infrastructure in all 774 local government areas. According to director general, Gerald Ilukwe, the main goal of Galaxy Backbone was to build and operate a single nationwide IT infrastructure platform, to provide network services to all Federal Government ministries, departments and agencies (MDAs), and equally provide connectivity and digital access that would enable relevant solutions for governance, education to rural areas and other underserved communities in Nigeria. He added that the network operation centre located at Ahmadu Bello way in Abuja, is “largest and most sophisticated VSAT network in West Africa, if not in Africa”.

NIGERIAN BANK ACQUIRES PRIVATE TELECOM OPERATOR

According to the “Business Day” newspaper, an unnamed bank is believed to have acquired private operator Prest Cable and Satellite TV Systems (Prestel). Prestel currently operates a CDMA2000 1x network covering eleven of the country’s 36 states of the federation. It also has a licence for commercial VSAT installation to provide broadband services and data communication for government sectors, private organisations, banking and financial institutions. Business Day states that Prestel strengthened its position in the Nigerian telecommunications market when it obtained a unified access service (UAS) licence for NGN260 million in July 2006.

NIGERIA TO DEPLOY 1.500 VSAT TERMINALS

Within a three-year period, Nigeria has received the sum $1.2 million (about N150 million) from the Universal Postal Union as grant to improve postal services in the country. The Nigeria Postal Service (NIPOST) is set to deploy 1,500 very small aperture terminals, VSAT in the post offices across the 36 states of the federation. Nigeria is collaborating with France to finance building and deployment of VSAT across the 36 states of the federation and this should be completed in 15 months. This will make possible the introduction of many services, including cyber cafe services in rural areas.

SOUTH AFRICA

INTERNET SOLUTIONS SELECTS ND SATCOM SKYWAN

ND SatCom’s technology platform SkyWAN has been selected by Internet Solutions (IS), a leading South-African converged communications service provider, to set up a VSAT network for the Pan-African trade association COMESA. COMESA will connect its offices throughout the continent to its headquarters in Lusaka, Zambia, for office applications such as internet access, file transfer, phone, fax and email.

WORLD

SPACENET INTRODUCES INSTANT VSAT SOLUTION

Spacenet has introduced a new ION instant VSAT communications solution that enables rapid deployment of complete converged communications through satellite for emergency response teams and remote industrial operations such as oil rigs, mines and construction sites. Available immediately with Spacenet’s commercial grade Connexstar service, the new self-contained and field kit offers a turn-key voice, video and broadband data solution, according to the company. The company said that ION can also be deployed as part of a custom developed satellite network. Spacenet’s ION is designed with emergency response personnel in mind, and can be easily carried and deployed by one or two people, can be checked as luggage aboard commercial airlines, or integrated into a mobile command vehicle.

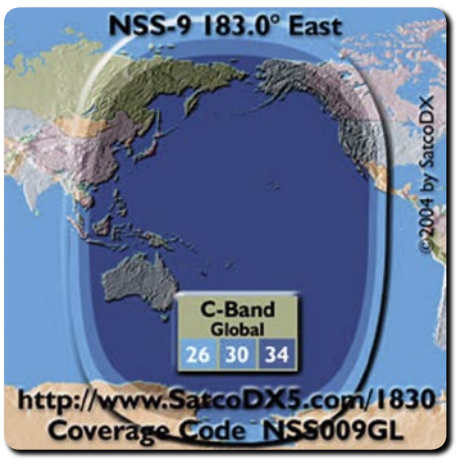
KVH AND VIASAT ROLL-OUT MINI VSAT NETWORK

In-motion satellite TV and communications provider KVH Industries has announced a new agreement with ViaSat, to begin the global rollout of mini-VSAT broadband satellite communications service. Under the terms of the deal, KVH and ViaSat will roll out an exclusive global network offering access to KVH’s mini-VSAT broadband service for maritime use with airtime revenue to be shared between the two companies. KVH has agreed to acquire satellite capacity from Ku-band satellite operators as well as purchase three new regional satellite hubs from ViaSat. These hubs will use ViaSat’s ArcLight spread spectrum mobile broadband technology and be operated by ViaSat.

New Satellites

The Ariane 5 ES-ATV launcher, on its mobile launch table, shortly after its transfer from the Final Assembly Building (BAF) at the Launch Zone (ZL-3) of Ariane Launch Complex no.3 (ELA-3) at the Guiana Space Centre, Europe's Spaceport, on 7 March 2008, for fuelling and final launch preparation. Also visible are two of the four 100-m-tall lightning towers surrounding the launch pad." (Photo: ESA - S. Corvaja 2008; http://www.esa.int/images/_SCO1025_L.jpg)

Edited by
Sylvain Oscul



NSS 9

This satellite will be launched from French Guiana by Ariane 5. NSS-9 will be positioned at 183° E (177°W) and will replace NSS-5 with three C-band beams. The satellite will carry 44 active C-band transponders with a global beam providing coverage of the entire earth. NSS 9 is intended to free up NSS 5 which in turn will then be free to relocate to 57 degrees to replace NSS 703.

digipower motor

The Best Solution for Motorization

DiSEqC H-H Motor

SG-2100A DiSEqC 1.0

- 1.2m Dish max.
- 60 Memories
- Controlled by Receiver
- Powerful , Fast and Low Noise
- Manual E / W Button
- Goto X.X° Function
- Indicating LED for Easy Trouble Shooting

DiSEqC Positioner

V-Box II DiSEqC 1.0 DiSEqC 1.2

- 99 Memories
- Controlled by Receiver
- 3 Digit LED Display
- Full Protective Design
- Optional Remote Control
- Software Limit Protection

Stand Alone Positioner

EZ-2200

- 99 Memories
- IR Remote Control
- 3 Digit LED Display
- Software Limit Protection

MP880

MOTECK ELECTRIC CORP
MOTORIZE YOUR ANTENNA
actuator, control, polarmount, cable

1F-1, NO.79, SEC1, SHIN-TAI 5 ROAD, SHIJR CITY, TAIPEI HSIEN, TAIWAN
TEL:+886-2-2698-1220 FAX:+886-2-2698-1324 E-mail:moteck@seed.net.tw http://www.moteck.com

ECHOLINK

www.echolinkint.com

Expanding Eastern Europe Dealers Network

PARTNERS REQUIRED

For all inquiries:

Tel +31 53 432 66 25
Mob +31 62 852 41 19
Fax +31 53 434 44 40
e-mail development@comec.nl

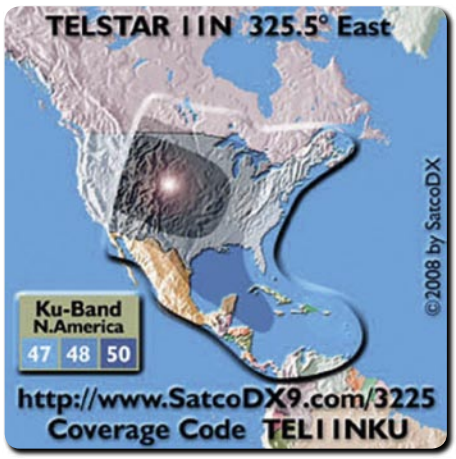
COMEC DEVELOPMENT
www.comec.nl

HOTBIRD 9

With a Ariane 5 launcher, this new HOTBIRD will be co-located at 13°EAST, designed to cover all 102 Ku-band transponders at the HOTBIRD position, it will be able to substitute any transponder on any other HOTBIRD satellites. Manufactured by Astrium with a Eurostar 3000 spacecraft type, the satellite has a minimum of service life of 15 years.

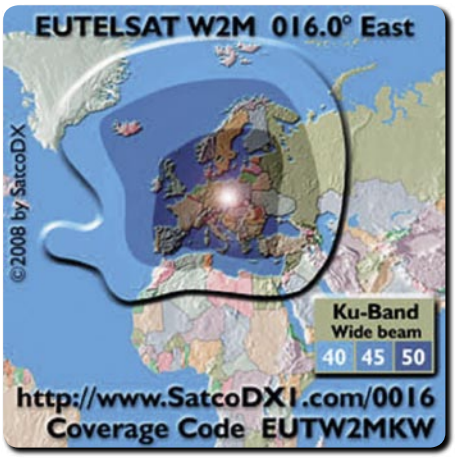
TELSTAR 11N

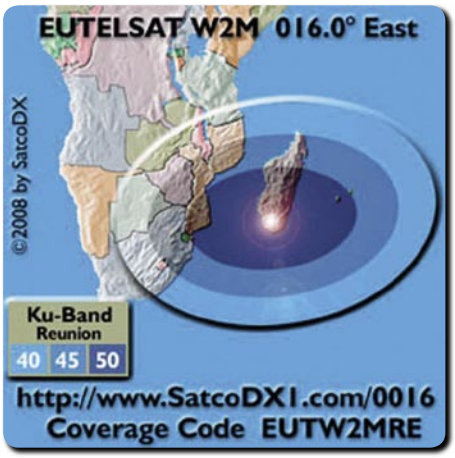
The new Loral Skynet satellite called TELSTAR 11N will provide service from 39 high-power Ku-band transponders beams. The satellite will be positioned at 322.5°E (37.5°W). TELSTAR 11N is dedicated to complement the coverage of TELSTAR 12 satellite at 345°E (15°W), which provides Ku-band trans-Atlantic coverage.



EUTELSAT W2M

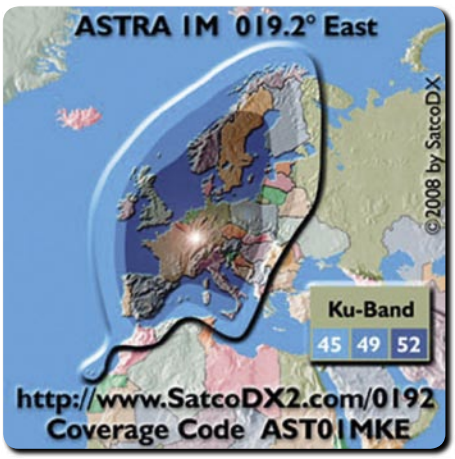
EUTELSAT W2M will operate 26 transponders in Ku-band and up to 32 depending on operational modes, at EUTELSAT's 16° E position. The satellite is planned to be launched with TELSTAR11N in October 2008 from Kourou with Ariane 5 launcher. The fixed beam will cover Europe, North Africa and the Middle East, while a steerable beam can be re-oriented in-orbit according to market requirements.





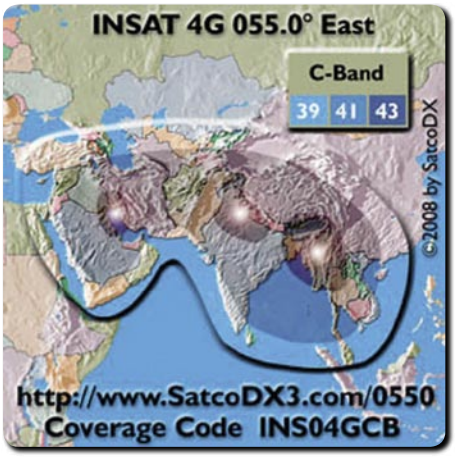
ASTRA 1M

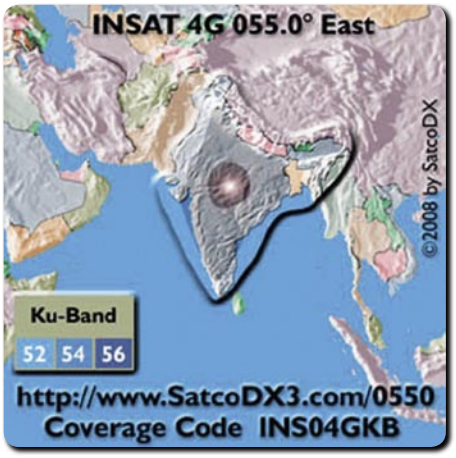
The satellite will be launched from the Cosmodrome in Kazakhstan by a Proton M launcher. EADS Astrium has manufactured this last ASTRA satellite called 1M spacecraft based on its Eurostar E3000 platform, the latest version of the Eurostar series, which became first part of the SES fleet with the ASTRA 2B spacecraft launched in September 2000. ASTRA 1M embeds 36 transponders for the first five years. The satellite is specified for a minimum service life of 15 years.

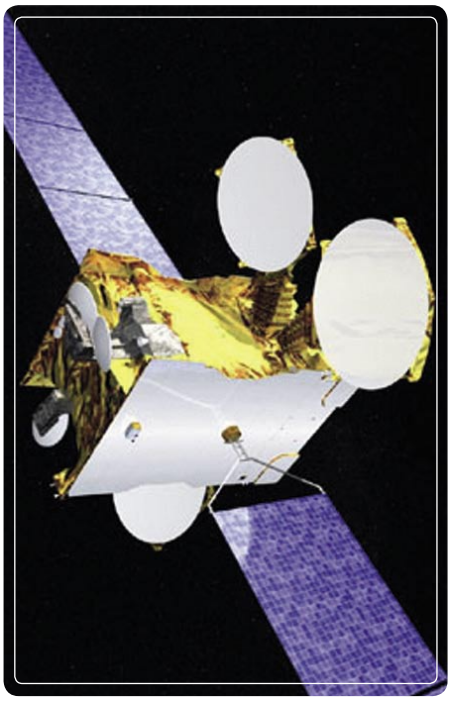


INSAT 4G

INSAT4G is proposed as a Ku-band satellite carrying 18 transponders similar to INSAT4A. It will also carry 2 BSS transponders and a GAGAN (GPS Aided Geo Augmented Navigation). The satellite will be launched by an Ariance vehicle from Kourou.







PSA-5

PORTABLE SPECTRUM ANALYZER

950-2150 MHz Range
High resolution spectrum
High dynamic range
DVB-S measurement
High level accuracy
Small and light weight
Easy to use

SG Lab Ltd.
Tel.: 00359 2 9784226, Sofia, Bulgaria
e-mail: info@sg-lab.com

www.sg-lab.com

DishPointer.com

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

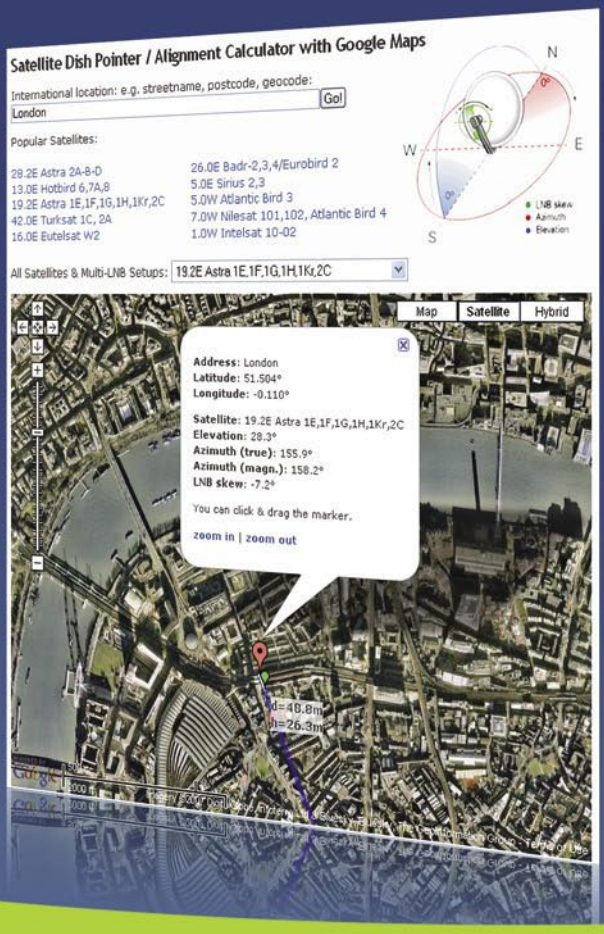
DishPointer, the state-of-the-art dish alignment and satellite information tool, is now available for commercial companies as a customised solution, programmed to fit individual needs.

FREE Widget

Add DishPointer Lite to your site - it's free!

TV stations & program providers
Online shops & distributors
Satellite operators
Receiver manufacturers
Professional installers
and many more...

Give your clients and customers easy access to satellite information, hassle-free and straight to the point. For more information, visit www.dishpointer.com.



References

CANAL DIGITAAL SATELLIET
TV VLAANDEREN DIGITAAL
INNOVATION SATELLITE AWARD
MAXDIGITAL
The World's Largest Satellite Magazine TELE SATELLITE & BROADBAND

Powered By SatcoDX.com

www.dishpointer.com
info@dishpointer.com

Feedhunter Rini

What you see in your local evening news broadcast has to first find its way from the event location to the TV station's studio. This path typically involves the use of a satellite to get it from one point to another. This type of transmission is referred to as a feed and there are those that have made finding these satellite feeds their hobby. One of those happens to be Rini de Weijze who calls himself Feedhunter Rini, a name he uses to a number of different Internet satellite forums. How do you end up being a feedhunter? We asked Feedhunter Rini that very same question.

Feedhunter Rini has lived in his present home in northern Holland for 33 years. He was a bank manager but is now retired and can therefore spend more time playing with his hobby.

We wanted to know how it all started. Rini was kind enough to explain: "When I was 16, I stumbled onto Radio Moscow while listening to the airwaves and was completely surprised to discover that the transmission was in Dutch." This was the start of his interest in listening to the radio that culminated in the reception of shortwave ship transmissions in SSB.

But he became infected with the satellite virus when he one day spotted a satellite dish. Without any hesitation, he asked the owner of that dish what he was receiving with it.

"It was a 90cm antenna that is still hanging in the same spot today. Back then, the owner, Klaas van der Lingen patiently revealed to me everything he was able to receive with his Echostar receiver", explained Rini of that day.

Not too long after that, an 80cm dish from Triax with positioner was hanging on his own exterior house wall.

"My most interesting experience was the pirate transmissions from the Amateur TV club PI6ALK", remembers Rini, "they simply switched the uplink from the Amateur TV satellite OSCAR over to EUTELSAT 16E and started transmitting." Naturally, the Dutch authorities quickly put an end to that, but for Rini it was quite an experience to see how easy these transmissions could find their way onto a satellite.

In 2004 he upgraded to a 90cm antenna and in 2005 he installed a 90x99cm Fibo antenna with sub-reflector that he still uses today.

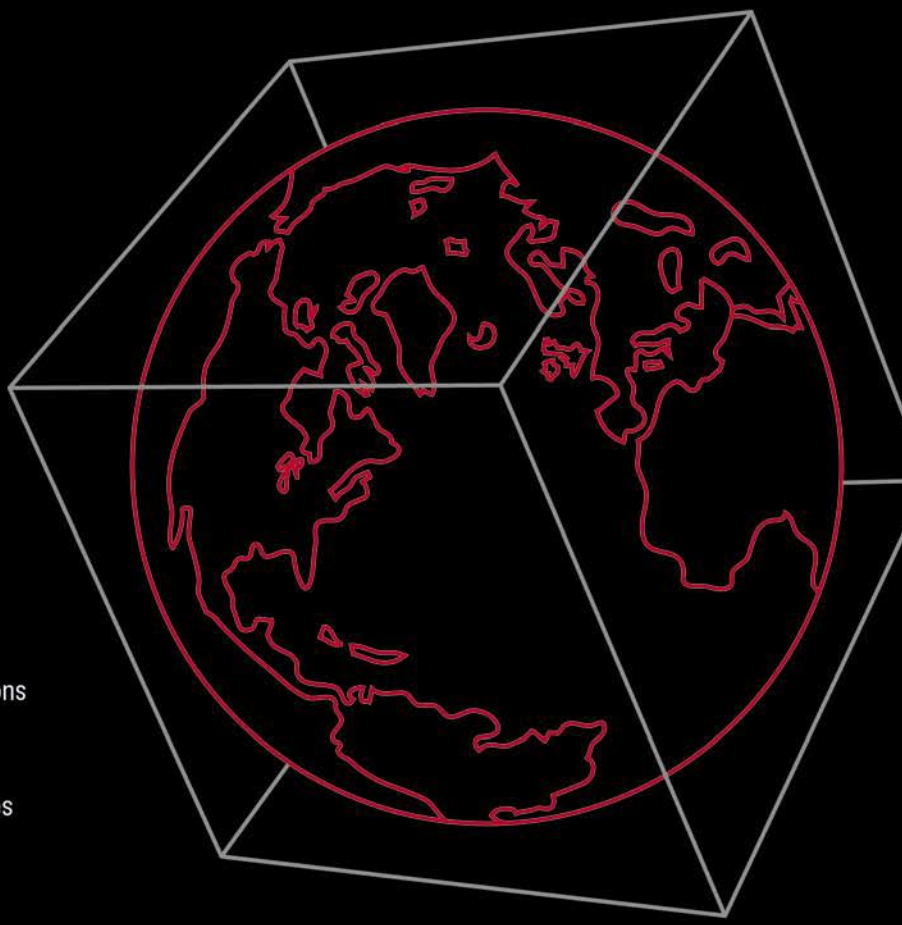
He dreams of having a real DX station on an open piece of land on which, together with his friend Ron Eberson, he can erect large dishes. "We can even get a hold of a used 2.4-meter antenna but it's not so easy to find the space for it." We wish him luck in his search!

Feedhunter Rini on the first floor of his home right next to his 90x99cm dish with sub-reflector he uses for his satellite reception. He can receive satellites from 54° east to 45° west.

Conference 11 - 15 September
Exhibition 12 - 16 September
RAI Amsterdam

IBC2008

the world of
content
creation
management
delivery



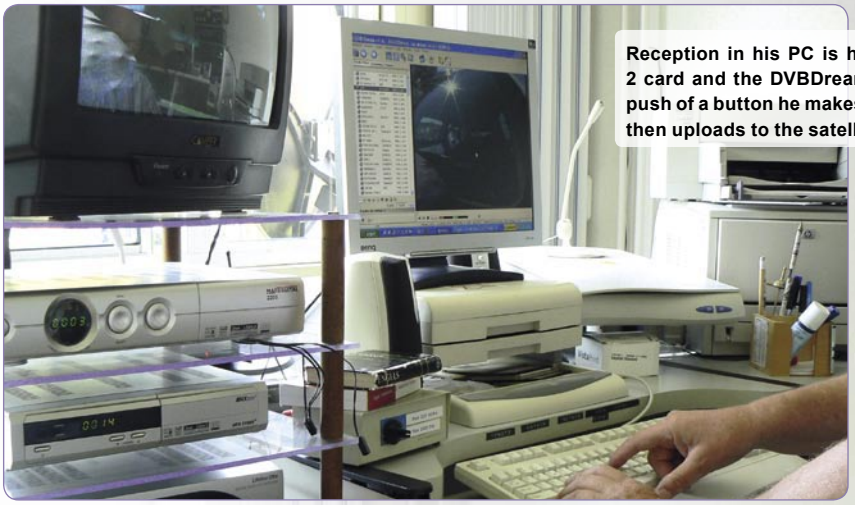
- 46,000+ visitors
- 130 countries
- 1,300+ exhibiting companies
- Business critical content
- Leading edge conference sessions
- Experiential Big Screen demonstrations
- Vendor seminar briefings
- Digital media business model updates
- 40+ years of thought leadership

With an additional 3,000m² gross packed with product/service suppliers and added value features, IBC2008 will be the biggest to date!

Keep up-to-date with the exhibitor list, conference programme and all of the new and exciting features at :

www.ibc.org

IBC Fifth Floor International Press Centre 76 Shoe Lane London EC4A 3JB UK
Tel: +44 (0) 20 7832 4100 Fax: +44 (0) 20 7832 4130 Email: show@ibc.org

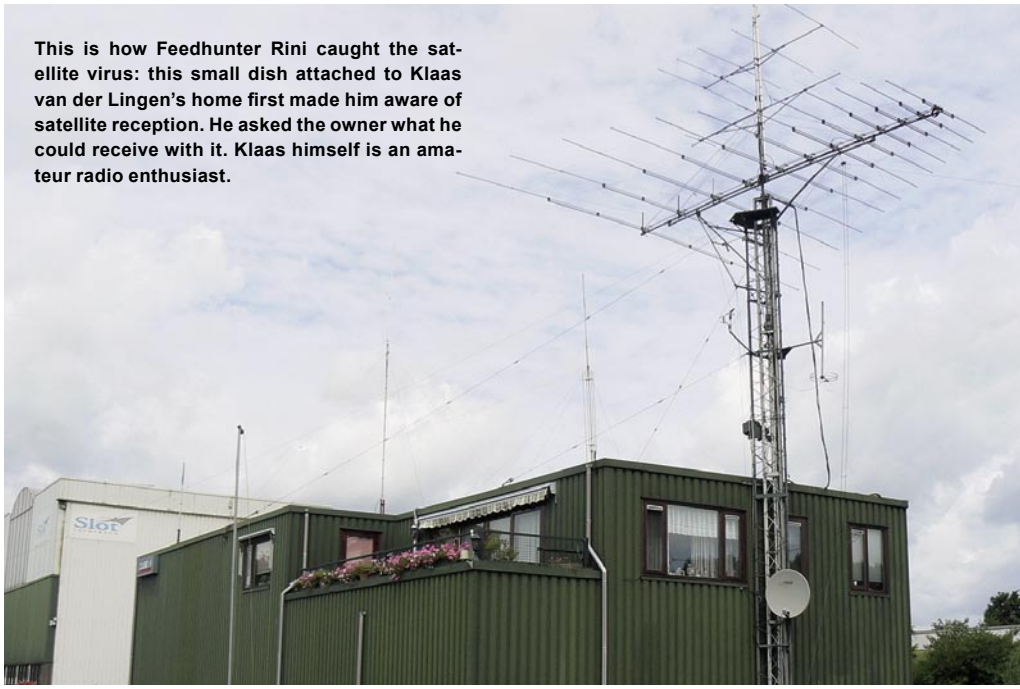


Reception in his PC is handled by a SkyStar 2 card and the DVBDream software. With the push of a button he makes screenshots that he then uploads to the satellite forums.

Feedhunter Rini at work feedhunting: with his Quad LNB he connects to three receivers and a satellite card in his PC. He uses a FortecStar box with Aston positioner and DiSEqC converter to move his antenna, as well as a Max Plus and a Max Digital receiver.
His TV monitor is set to A/V mode for his Max Digital receiver and he uses two UHF channels to receive the signals from the FortecStar or Max Plus boxes. With a homemade video switch he can send the video signal from his two Max receivers to the video card in his PC to get screenshots of different programs he can't receive with the built-in card.

SATELLITE	FROM	TILL	POLARIZATION	NUMBER OF FEEDS	FROM	TILL	POLARIZATION	NUMBER OF FEEDS	FROM	TILL	POLARIZATION	NUMBER OF FEEDS
2 East ASTRA 1C	11200	12750	H+V	<+>7								
3 East TELECOM 2C	12500	12750	V	<+>7								
4 East EUROBIRD 4	10950	11400	H	<+>7	12500	12570	H+V	<+> 7				
5 East SIRIUS	12140	12750	H+V	<+> 7								
7 East EUTELSAT W3	10960	11200	H+V	<+> 7	11370	11420	H+V	<+> 7	12510	12560	H+V	< 7
9 East EUROBIRD 9	No Info											
10 East EUTELSAT W1	10950	11200	H+V	<+> 7	12520	12745	H+V	< 7				
13 East HOTBIRD	10700	12750	H+V	<+> 7								
16 East EUTELSAT W2	10960	11200	H+V	<+> 7	11680	11700	V	< 7	12500	12750	H+V	<+>7
19.2 East ASTRA	10955	12750	H+V	<+> 7								
21.5 East EUTELSAT W6	10955	11000	H+V	< 7	11010	11700	H+V	< 7	12500	12700	H+V	< 7
23.5 East ASTRA	11450	11690	H	< 7	12620	12710	H+V	<+> 7				
26 East ARABSAT 2	11100	11200	H+V	>7	11630	11660	H+V	>7	12520	12740	H+V	<+>7
28.2 East EUROBIRD1/ ASTRA	12500	12750	H+V	<+> 7	11470	11490	V	<+> 7				
30.5 East ARABSAT 2B	12520	12540	H	< 7								
33 East EUROBIRD 3	10955	11190	H+V	<+> 7	11620	11700	H+V	<+> 7				
36 East EUTELSAT W4	10955	11700	H+V	<+> 7	12640	12660	V	< 7				
39 East HELLASSAT	10950	11150	V	< 7	11450	11700	H	< 7	12550	12660	H+V	< 7
40 East EXPRESS 1AR	11030	11200	V	< 7	11450	11640	H+V	< 7				
42 East TURKSAT/EURASIA	10950	11200	H+V	<+> 7	11480	11970	V	< 7	12510	12750	H+V	< 7
45 East EUROPSTAR 1	11450	11690	V	< 7	12510	12710	H+V	<+> 7				
53 East EXPRESS AM22	11080	11700	H+V	< 7	12630	12670	H+V	<+> 7				
54.8 East INTELSAT 702	11100	11150	V	< 7								
57 East NSS 703	11040	11550	V	< 7								
1 West INTELSAT/THOR	10980	11200	V	< 7	11460	11680	V	< 7				
4 West AMOS	11150	11350	H	<+> 7	11415	11580	H	< 7				
5 West ATLANTICBIRD 3	10950	11200	H+V	<+> 7	11450	11700	H+V	<+> 7	12540	12700	H	<+> 7
7 West NILESAT	10700	12750	Div									
8 West ATL.BIRD/TELECOM 2D	12500	12750	H+V	<+> 7	11450	11680	H+V	<+> 7				
11 West EXPRESS 3A	11480	11700	V	<+> 7								
12.5 West ATLANTICBIRD	10950	11200	H+V	< 7	11325	11700	H+V	< 7	12530	12760	H+V	<+> 7
15 West TELSTAR 12	11000	11040	V	< 7	11450	11700	H+V	< 7	12520	12750	H	<+> 7
18 West INTELSAT 901	10960	11700	H+V	<+> 7								
20 West INTELSAT 603	10940	11700	H	<+> 7								
22 West NSS 7	10950	11160	H	<+> 7	11465	11700	H	<+> 7	12510	12720	H	<+> 7
24.5 West INTELSAT 905	11050	11690	V	<+> 7								
27.5 West INTELSAT 907	10950	11700	V	< 7								
30 West HISPASAT	11460	11680	H+V	<+> 7	12035	12180	H+V	<+> 7	12535	12750	H+V	<+> 7
31.5 West INTELSAT 801	10960	11050	V	<+> 7								
34.5 West INTELSAT 903	11120	11700	V	<+> 7	10960	11000	V	<7				
37.5 West TELSTAR 11	11500	12750	H+V	< 7								
43 West INTELSAT 3R	12500	12750	H+V	<+> 7								
45 West INTELSAT 1R	11480	11700	H+V	< 7								

This list compiled by Ron Eberson and Feedhunter Rini and constantly kept up to date by them is the key instrument for looking for new feeds on a daily basis. The list shows satellites which are used for feeds, as well as the frequency ranges, polarisations and average number of feeds. To start with, Feedhunter Rini rotates his dish to the required satellite. Next, he lets his receiver scan only the range between the two frequencies and this way finds the feeds as quickly as possible. On his PC he then makes screenshots und uploads the files to specialist satellite forums such as sat4all.com and dxtv.eu. Other feedhunters therefore can find out within minutes which feeds are currently active. If you like to have a go for yourself you should begin with choosing a satellite that transmits many feeds so that your chances of actually discovering a feed are highest. Bear in mind, though, that feed transmissions often only last for a few minutes. Only rarely are they active for more than an hour – such as when a football match is transmitted, for example.

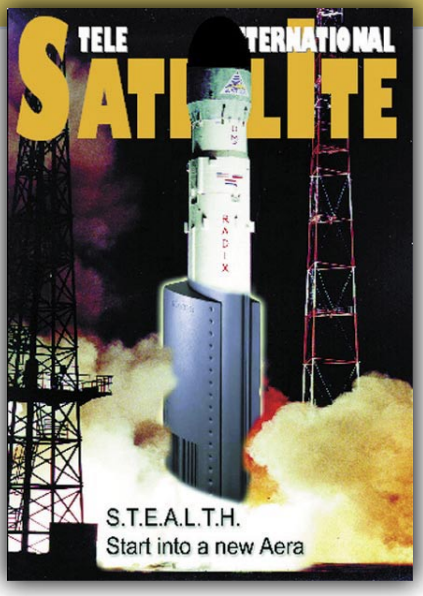


This is how Feedhunter Rini caught the satellite virus: this small dish attached to Klaas van der Lingen's home first made him aware of satellite reception. He asked the owner what he could receive with it. Klaas himself is an amateur radio enthusiast.

Edited by
Alexander Wiese

10 Years Ago

Travel into the Past
TELE-satellite Magazine
Issue 10/1998



In last issue, we reported about our visit to the Radix distributors meeting. There, the official introduction of their latest receiver, the Radix Stealth, took place. Most distributors immediately placed their orders. We took one sample with us and gave it a thorough test. And now, just before the holidays are coming, the Stealth has hit the shops. What is so special about it? You may associate the name with invisibility. That is almost right. Of course, the box is not really invisible, but you can put it anywhere behind books or in a cupboard.

Nokia Mediamaster 9800S

Almost everyone in the digital satellite reception market was curious about the successor of the famous Nokia 9200/9600 family of satellite receivers. Almost three years after the European launch of digital satellite television, it seems that Nokia has set the market standard for digital set-top boxes.

No wonder, it was the first receiver capable of doing software and settings updates over the air, but even more importantly through the Internet. Get the latest channel lists from the Internet and upload them into your receiver within minutes. It saves a lot of time and your receiver always has up-to-date channel settings.

MTI LNB AP8-T2

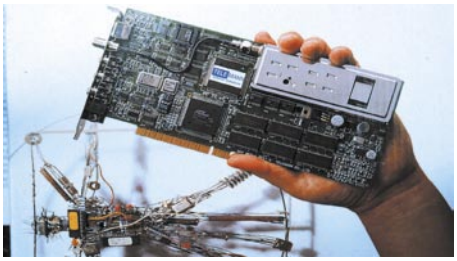
For most experts, Microelectronics Technology is probably better known as MTI. Professionals have known MTI for years by their VSAT installations,

SCPC reception units and microwave transmitters. Of course, the development of LNB is a continuous process whereas improvements are made over and over again. Recently, MTI has introduced the AP8-T2 LNB. As a professional manufacturer should, MIT do their best providing realistic specifications. For MTI, the outstanding performance of the AP8-T2 is very stable in its LOF. We ordered two samples and gave them a thorough test, not in our lab but up on the roof. Only the extreme temperatures in out our test had to be created articficially.

Radix S.T.E.A.L.T.H.

Hirschmann Hit-Sat

Hirschmann offers a complete kit with all components you need to get started right away. All included in one sturdy box are a dish (65, 75 or 85 cm), a universal LNB (digital compatible) and an analogue Satellite receiver.



digital stuff on satellites nowadays, such as TV channels, why not receive them as well? Telemann-Satellite Solutions offers the SkyMedia 200, a special PC card that allows reception of almost all kinds of digital satellite signals. The television or radio signals can be fed to

The included LNB is a Twin LNB, so it is very easy to connect an additional digital receiver, which can be operated completely independent of the analogue box. Another fine solution could be the use of one dish for two households.

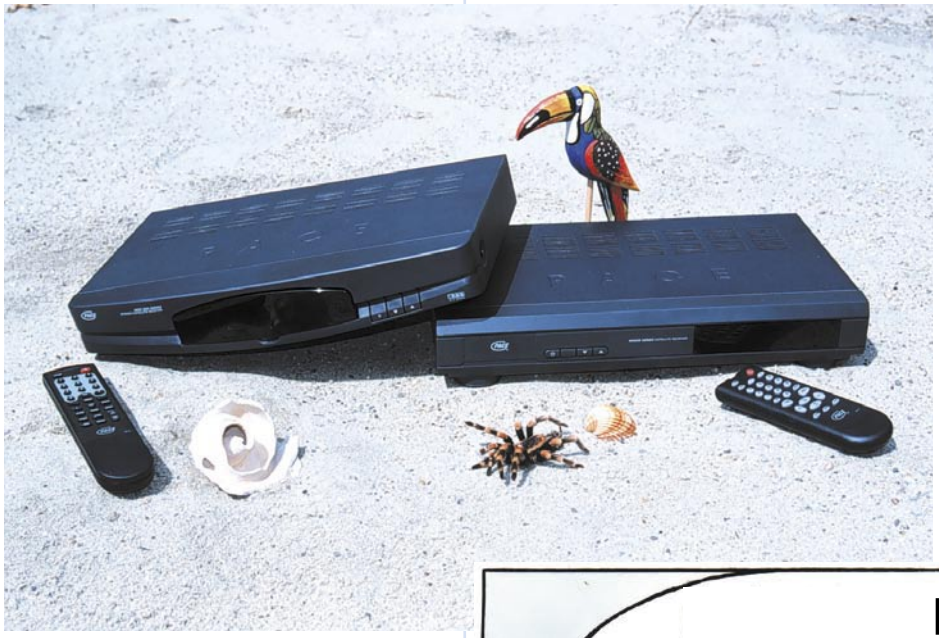
SkyMedia 200

Special MPEG streams on satellites all over the world contain Internet information and other data such as pre-selected material or continuous streams of information. You will need a personal computer if you want to subscribe to such a service. But as there's more

your television or hi-fi set, and the data services stay where they belong—on your computer. Professionals can now watch CNN (available on almost every satellite) and at the same time receive data services from the same orbital position. But this combination makes sense even at at home. You can, for instance, use a satellite-based Internet service while the rest of the family watches a digital channel on the usual TV set.

Prosat P-2002S

Two years ago a minimalist digital receiver would set you back some 900 Euros—only to allow you



to catch one or two digital bouquets if you were lucky. Today basic units like these are almost impossible to come by. Consumers demand digital boxes that can be used to receive all channels and services in the DVB standard—this has become the only selling argument. Nonetheless, a well equipped digital receiver for less than 350 Euros is a rare thing. TSI picked one of the few cheapies on offer and examined it to the extreme: P-2002S

DB-6000

This new digital receiver is the first box for DVB reception from Benjamin Electronics Co. Ltd. of Taiwan. They have done a very good job examining the markets before actually producing anything. First of all, this DB-6000 will strike you because of its silver colour. Finally some colour in this black box business. The metal housing makes the receiver heavy duty, sturdy and very well suitable as the foundation of a heap of other boxes. On the front, we found a large four-digit display indicating the channel ID. The DB-6000 can store up to 1000 channels. Also located on the front are the buttons for channel browsing and standby.

MSS-220

It was a very practical reason why we wanted to test the new MSS-220. In our test lab we were looking for an analogue receiver capable of processing the signals from two dishes and also being C-band compatible. On the other hand, it should also be able to store all available channels on all the important satellites. So we came across the MSS-220. For Pace it is very much common to build satellite receivers on a region specific basis, which means that you will find an appropriate decoder built in (if any) in addition to pre-programmed regional satellite channels. In the UK, for instance, the MSS-220 comes equipped with a Videocrypt decoder, but there is no decoder in it for the rest of Europe. Here, the pre-programmed stations cover the geostationary arc from 45° West to 180° East. That makes it very universal for a large area that includes Africa and the Mid-East.

PalMaster 1000

The technology comes wrapped in a modern design which, not quite coincidentally, matches the style of Bang&Olufsen TV sets. The brand is quite popular in Scandinavia, so the PalMaster's remote can also control B&O TVs. On the front of the receiver, a large six-digit display gives you all information you would like to see on the receiver itself. It can store up to 500 channels. A metal lid hides the three famous buttons for emergency operation. Here, there are also two smartcard slots for the MAC decoder that is built into the Scandinavian version of the PalMaster 1000. Even at the back, there is nothing special to be found: three Scart connectors, two LNB inputs (900-2150MHz), and phono jacks to get the audio signals over to your stereo.

Want More? Free Time Travel 10 Years Back:

Read Full Magazine TELE-satellite 10/1998 Here:

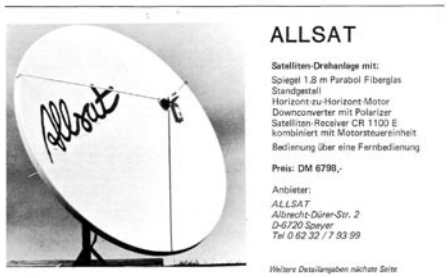
http://magazine.TELE-satellite.com/vintage/TELE-satellite-9810-deu-eng.pdf

Edited by
Alexander Wiese

20 Years Ago

Travel into the Past
TELE-satellite Magazine
Issue 05/1987

Market review of rotary dishes



ALLSAT

Satelliten-Drehanlage mit:
Spiegel 1,8 m Parabol Fiberglas
Standgestell
Horizont-zu-Horizont-Motor
Downconverter mit Polarizer
Satelliten-Receiver CR 1100 E
kombiniert mit Motorsteuereinheit
Bedienung über eine Fernbedienung

Preis: DM 6798,-

Anbieter:
ALLSAT
Albrecht-Dürer-Str. 2
D-6720 Speyer
Tel 0 62 32 / 7 93 99

Weitere Detailangaben nächste Seite

BELTRONICS

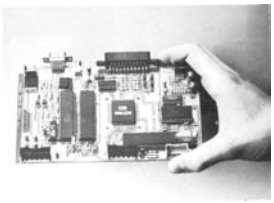
Satelliten-Drehanlage mit:
Spiegel 1,5 m Aluminium
Standgestell
Teleskop-Actuator
Doppelsdownconverter
mit elektronischer Umschaltung
Satelliten-Receiver SBR 1550
kombiniert mit Motorsteuereinheit
Bedienung über eine Fernbedienung

Preis: DM 6498,-

Anbieter:
BELTRONICS
Roermonder Str. 594
D-5100 Aachen
Tel 02 41 / 17 46 49

Weitere Detailangaben nächste Seite

D2-MAC card



D2-MAC Entwicklungsstand bei Intermetall
Die Entwicklung des Chip ITT DMA 2270 möchte Intermetall Freiburg zur Funkausstellung vorstellen. Da als Bauteilehersteller ein Stand auf der IFA nicht möglich war, möchte man sich der Presse und den Geräteherstellern, die den Chip in die Satelliten-Receiver und TV-Geräte integrieren werden, in einem renommierten Hotel präsentieren. Selbst die in der abgemagerten Version einzuhaltenden Parameter werden als nicht einfach realisierbar eingestuft. Immerhin ist die integration in dem Ein-Chip-Decoder selbst mit einem 4 Megabitspeicher vergleichbar, in dem 150.000 Transistorfunktionen auf 52 qmm Fläche korrespondieren. Während man die Videoseite im Griff hat, wird momentan am Tonsignal des Audioteils gearbeitet. Die Zeit zur Funkausstellung wird deshalb mit etlichen Stunden Überstunden ausgefüllt werden müssen, um den Sinn der Digitalen Tonübertragung noch deutlicher verbesserung, deutlich machen zu können. Etwa 3 Millionen DM kostete der bisherige Entwicklungsstand, mit dem erarbeiteten Wissen ist Intermetall in der Lage, jede MAC-Version in ihrem Digit-2000-System zu verarbeiten.

Foto links: Labormuster eines fertigen D2-MAC-Decoders. In der Platinenmitte der eigentliche MAC-Chip. Foto: Intermetall

Grundig reveals first 100 Hz TV Set

Super-Fernseher für Satellitenseher
Zur Funkausstellung wird der erste serienmäßige 100-Hz-Fernseher vorgestellt. Ein 4 MBit-Speicher verdoppelt die Bildwechselfrequenz, was ein flimmerfreies Bild ergibt. Eine Stoptaste ermöglicht das Anhalten auch eines schnell bewegten Bildes. Das Supergerät kann als Multinormgerät alle TV-Normen empfangen, NTSC wird jedoch erst demnächst dazustoßen. Besonders Satellitenzuseher können wegen der vom Satelliten gelieferten Studioqualität und einem TV-Gerät wie diesem die Grenzen der heutigen Technik erfahren.
Der nachrüstbare 80-Seiten-Videotextspeicher ist in 8 x 10 Blöcken jedem Videotext-tragenden Programm zuzuordnen und verbessert dadurch beim Programmspringen gerade der Satellitenprogramme erheblich den Bedienungskomfort. Spaziell beim weitweiten Empfang erleichtert die automatische Sprecherkennung die korrekte Darstellung fremdsprachiger Texte.
Grundig, Kurgartenstr. 37, D-8510 Fürth

Der Monolith 70-300/7 bietet, die weltweit erste Fernsehmaschine in 100 Hz Technik aus Serienproduktion.

Portable Satellite Receiver by Stog

PORTABEL SAT-RECEIVER

Camping Sat

Mit Minimaßen kommt ein 12 Volt Einfach-Satelliten-Receiver auf den Markt

Im Standardgehäuse mit 18 cm Breite und 5 cm Höhe läßt sich heutzutage bereits ein kompletter Satelliten-Receiver unterbringen. Der Nachteil, daß in so kleinem Gehäuse kein Netzteil mehr Platz hat, entspuppt sich beim kontradiktisch „Galaxy" getauften Mini-Receiver von STOG als Vorteil. Es ist jedenfalls der erste Receiver der uns unterkommt, der mit der Autobatterie betrieben werden kann.

Das fahrende Auto wird zwar selten zum Satellitenempfang genutzt, aber während des Campingurlaubs im Inwie im Ausland läßt sich bequem das gewohnte TV-Programm auf den Urlaubsschirm holen. Den teuren Heimreceiver mit Fernbedienung schleppt niemand mit in den Urlaub.

Das Gerätchen verfügt über alle notwendigen Features. Die Satellitenkanäle werden über ein bedampftes Poti eingestellt (Hinweis: Bastler können eine Preomatschaltung ergänzen), ebenso die Tonablagefrequenzen. Eine AFC-Schaltung holt den Empfangskanal immer sofort auf Mitte.

Fast an ihre Grenzen stößt die AFC beim TELECOM-Empfang, der wegen des geringen zum Empfang notwendigen Spiegels gut zum Gerät paßt. Sehr viel Fingerspitzengefühl ist notwendig, um die teilweise nur im Abstand von 30 MHz strahlenden Programme noch einfangen zu können. Auch die Tonfrequenzen erfordern Feingefühl beim Einstellen, von Mehrfachempfangsstellen sollte man sich nicht irritieren lassen.

Paßt fast schon in den Autoradioschlitz: Mini-Satellitenempfänger für 12 Volt, von STOG. Foto: TELE-satellit / KK

Die Rückseite liefert genau das, was gebraucht wird: ein UHF-Ausgang für die Camper mit Portabelfernseher und ein DIN-AV-Ausgang für die anspruchsvolleren Seher oder für den Gebrauch daheim.

Als Zweitgerät oder gar als Erstgerät für Einsteiger erfüllt das kleine Gerät den Zweck des Satellitenempfangs ohne Bedienungskomfort. Auch als Portabelempfänger zur Empfangsoptimierung bei Spiegelinstallationen kann das Gerät gute Dienste leisten, wenn kein eigener Mehlempfänger zur Verfügung steht. Bei steigender Nachfrage wird der Hersteller sicherlich das jetzige anspruchslose Standardgehäuse gegen ein gefälligeres austauschen.

TECHNISCHE DATEN

Hersteller/Importeur	STOG GmbH
Gerätebezeichnung	GALAXY
ZZF-Nummer	beantragt
Fernbedienung	keine
Programmeinstellung	über Poti
Frequenzanzeige	keine
AFC	fest eingebaut
Fernspeisespannung	+ 15 Volt
Tonfrequenzbereich	5,6 bis 8,5
Block-ZF-Eingang	F 75 Ohm
Audio/Video- Ausgang	DIN-AV
UHF-Modulationsausg.	F 75 Ohm
TESTERGEBNIS	
Empfindlichkeit	gut
Bildqualität	befriedigend
AFC-Einsatz	befriedigend
Tonqualität	gut
Bedienungskomfort	ausreichend
Einsatzmöglichkeit	Zweitgerät

Bezug: STOG, Menzinger Str. 97, D-8000 München 50, Tel 089/8111016

Multiple Dishes Pointing to Same Satellite for Higher Gain

Die Preise von Standardspiegeln sind dank hoher Stückzahlen erheblich gefallen. Großspiegel, das sind hierzulande Spiegel mit mehr als 1,8m Durchmesser, werden weiterhin nur in relativ geringen Mengen gefordert und sind entsprechend teuer. In manchen Fällen aber sind Großspiagel dennoch notwendig und ihr Einsatz unumgänglich, wenn schwach einfallende Satelliten empfangen werden sollen. Bei uns sind das z.B. „Exotic"-Programme wi wie das Israelische oder Iranische TV vom INTELSAT V-F5 bzw. F6. Im fernseren Ausland wiederum ist der Empfang der für Mitteleuropa senden-den Satellitenprogramme gewünscht.

Auf eine in solchen Fällen preiswerte Lösung ist vor kurzem der amerikanische Parabolspiegelhersteller DH Satellite TV gekommen. Was beim terrestrischen Empfang schon lange in besonderen Empfangssituationen angewandt wird, soll schließlich auch genauso beim Satellitenempfang gehen: das simple Parallelschalteh mehrerer gleichartiger Spiegel zur Erhöhung des Empfangssignals.

Der Chef von DH Satellite TV, Franklin A. Weeks, schrieb uns dazu:

Die Idee zu diesem Empfangskonzept entstand während einer Satelliten Fachmesse. Im Gespräch mit Keith Anderson (Chef der Satellitenfirma Anderson Scientific - d.Red.) erzählte mir dieser von einer Geschäftsreise in den Südpazifik. Er traf dort einen Freund, der ihm erzählte, daß er mit seinem 6 m Spiegel nichts empfangen könne, ein noch grösserer Spiegel aber nicht mehr infrage käme. Ich schlug ihm daraufhin vor, er solle eine Methode entwickeln, mehrere Antennen in Phase zu ze schalten, daß sie einer einzigen Großantenne derselben Empfangfläche entsprächte. Keith sagte, er könne eine Weiche, Phasenglieder und darauf abgestimmte Downconverter entwickeln. Wir kamen überein, diese Idee gemeinsam zu vermarkten, ich liefere die Spiegel, er die Elektronik.

Soweit Franklin A. Weeks, der als Chef eines Spiegelbetriebes um die Schwierigkeiten weiß, einen genauen Großspiegel herzustellen: „Es ist leicht, vier sehr genaue 3 m Spiegel herzustellen, aber schwierig, einen exakten 6 m Spiegel zu produzieren." — Auf die Verhältnisse in Europa übersetzt, wo ja bereits 3 m Spiegel zu den „Großspiegeln" zählen, wären vier 1,8 m Standardspiegel preisgünstiger als ein einzelner 3,6 m Spiegel.

Oben: Vier 3m-Spiegel zur Empfangssteigerung parallel geschaltet;
unten: das gleiche mit 1m Spiegeln.
Fotos: Franklin A. Weeks

Das von den beiden professionellen Satellitenfreaks entwickelte System wird unter dem Namen „MANATEC" angeboten. Die seltsame Abkürzung steht für „Multiple Antennas in phase for Noise Abatement and Extra Gain". Es besteht aus zwei, vier oder acht gleichen Spiegeln beliebiger Grösse je nach Notwendigkeit und der darauf angepaßten Elektronik mit einer patentierten phasenrichtigen Zusammenschaltweiche.

Entsprechend der ursprünglichen Zielsetzung ist das System derzeit nur für den in ganz Amerika üblichen Empfang im 4 GHz Bereich ausgelegt. In diesem Bereich senden auch in Europa genügend viele Satelliten, die es lohnt einzufangen. Vier parallel geschaltete 1,8 m Spiegel im 4 GHz Bereich entsprechend 3,6 m rechnerischer Gesamtspiegelgrösse erlauben auch bei uns den Empfang einer ganzen Reihe (mehr oder minder) interessanter Programme (siehe 4 GHz Tabelle in dieser Ausgabe).

Von DH Satellite TV lieferbar wäre auch eine 16er Kombination: das entspräche schon fast einer „Erdefunkstelle", wie es im Postdeutsch so wun-

TV-Satellitenreceiver – das Qualitätsprogramm für Kommunikationssatelliten.

TVSR 85 - die ausbaufähige Familie für semiprofessionelle Gemeinschaftsanlagen."

- IF-Einschleiftechnik
- PLL-Kanalwahl
- Automatische Unterdrückung von Nicht-Videosignalen
- 1. ZF-Durchschleifung

Neu: TVSR 85-2. Der Receiver mit zwei integrierten HF-Empfangsteilen.

SR 2000 - der neue Heimempfänger für private Einzelanlagen."

- Ansprechendes Design
- PLL-Kanalwahl
- IR-fernbedienbar
- 10 Programmspeicherplätze
- LNC-Versorgung
- PAL/Secam
- Zwei Euro-AV-Buchsen, MAC-Buchse für erweiterte Standards

BLAUPUNKT-WERKE GMBH
Abteilung PTV3
Robert-Bosch-Str. 200
3200 Hildesheim

BLAUPUNKT
BOSCH GRUPPE

Want More? Free Time Travel 20 Years Back:

Read Full Magazine TELE-satellite 05/1987 (sorry, available in German only):

http://magazine.TELE-satellite.com/vintage/TELE-satellite-8705-deu.pdf

TELE-satellite Magazine Worldwide Newsstands and Subscriptions Centers

Western Europe	Distributor/Subscription
Austria https://www.tele-satellite.com/secure/atd/	**Pressevertrieb Valora** ☎ AT 06246-882-882 ✉ welcome@leserservice.at
Belgium https://www.tele-satellite.com/secure/ben/	**Leo Stouten** ☎ BE 049-5632378 ✉ leo.stouten@telenet.be
France https://www.tele-satellite.com/secure/eng/	**TELE-satellite** ☎ FR 042-6467194 ✉ abonnement@TELE-satellite.com
Germany https://www.ips-d.de/order-tsi_de/	**IPS Presseservice** ☎ DE 02225-7085-338 ✉ abo-telesatellit@ips-d.de
Greece http://www.hellenicmags.com/magazine_detail.cfm?Publ_id=3394	**Hellenic** Subscription TELE-satellite ☎ GR 02-2878500 ✉ gasa@hdaath.gr
Italy https://www.tele-satellite.com/secure/eng/	**TELE-satellite** ☎ IT 02-39293770 ✉ abbonamento@TELE-satellite.com
Luxembourg http://mpk.lu/mpklink/mpkabo.htm	**Messageries Paul Kraus** ☎ LU 499-888-8 ✉ courrier@mpk.lu
Netherlands https://www.tele-satellite.com/secure/ned/	**Betapress BV** ☎ NL 0161-459-539 ✉ telesatelliet@betapress.audax.nl
Spain https://www.tele-satellite.com/secure/eng/	**SGEL** ☎ ES 093-1845889 ✉ suscripcion@TELE-satellite.com
UK https://www.tele-satellite.com/secure/uke/	**TELE-satellite UK** ☎ UK 0207-0433-771 ✉ subscription@TELE-satellite.com

Eastern Europe	Distributor/Subscription
Bulgaria http://tele-satellite.hit.bg/	**TEL-SAT** Ivan Penev ☎ BG 02-8557143 ✉ ipenev@mail.orbitel.bg
Croatia http://www.distriest.si/webpages/ed.jsp?id=2176&lang=sl	**Distriest d.o.o.** Cena TELE-satellite ☎ SI 05-7341977 ✉ info@distriest.si
Czech & Slovak http://www.sat-servis.cz/	**Sat Servis** Miroslav Kodet ☎ CZ 0607-134-112 ✉ kodet@sat-servis.cz
Poland https://www.tele-satellite.com/secure/eng/	**TELE-satellite** Prenumerata Magazyn ☎ PL 02-239-88351 ✉ prenumerata@TELE-satellite.com
Russia https://www.tele-satellite.com/secure/eng/	**ТЕЛЕ-сателлайт** ☎ RU 812-3090603 ✉ russia@TELE-satellite.com
Serbia http://www.distriest.si/webpages/ed.jsp?id=2176&lang=sl	**Distriest d.o.o.** Cena TELE-satellite ☎ SI 05-7341977 ✉ info@distriest.si
Slovenia http://www.distriest.si/webpages/ed.jsp?id=2176&lang=sl	**Distriest d.o.o.** Cena TELE-satellite ☎ SI 05-7341977 ✉ info@distriest.si

Asia	Distributor/Subscription
China http://www.aluo-sat.com/chinese/Magazine.htm	订阅杂志 **Aluo-sat Co., Ltd** Luo Shi Gang ☎ CN 0755-82175354 ✉ webmaster@aluo-sat.com
India https://www.tele-satellite.com/secure/ind/	**Satheesh Kumar P.C.** ✉ puzhakkara2008@gmail.com
Israel http://www.steimatzky.co.il	**Steimatzky** ☎ IL 03-577577 ✉ chana@steimatzky.co.il
Indonesia https://www.tele-satellite.com/secure/bid/	**P.T. Indoprom** ☎ ID 021-8091928 ✉ indoprom@indo.net.id
Korea http://www.publications.co.kr/	**Universal Publications Agency** ☎ KR 02-3672-0044
Taiwan http://www.tep.com.tw/ContactUs.htm	**Taiwan English Press** ☎ TW 02-2775-3456 ✉ service@tep.com.tw
Thailand https://www.tele-satellite.com/secure/tha/	**Infosat Intertrade** ☎ TH 0961-9161-3 ✉ sales@infosats.com

The Professional Combination:

Order TELE-satellite + CD at your nearest Subscription Service

Note: A one-year subscription includes six issues of TELE-satellite Magazine plus the updated SatcoDX CD-ROM with each issue.

Americas	Distributor/Subscription
Canada https://www.tele-satellite.com/secure/can/	**TELE-satellite** Markus Preis ☎ 1-212-796-5745 ✉ m.preis@TELE-satellite.com
Mexico https://www.tele-satellite.com/secure/eng/	**TELE-satélite Suscripción** ☎ MX 553-687-7170 ✉ suscripcion@TELE-satellite.com
USA https://www.tele-satellite.com/secure/usa/	**TELE-satellite** Markus Preis ☎ 212-796-5745 ✉ m.preis@TELE-satellite.com

Africa	Distributor/Subscription
Botswana https://www.tele-satellite.com/secure/eng/	**MCS - Caxton Press** TELE-satellite Subscription ☎ SA 01-146133234 ✉ markus@TELE-satellite.com
Namibia https://www.tele-satellite.com/secure/eng/	**MCS - Caxton Press** TELE-satellite Subscription ☎ SA 01-146133234 ✉ markus@TELE-satellite.com
Nigeria	**Newsstand Agencies Ltd** ☎ NG 01-4936073 ✉ newsstand@linkserve.com
South Africa https://www.tele-satellite.com/secure/eng/	**MCS - Caxton Press** TELE-satellite Subscription ☎ SA 01-146133234 ✉ markus@TELE-satellite.com

Exhibition Preview

- **7 - 12 October 2008: CeBIT Bilişim Eurasia**
  ICT trade show
  TUYAP Fair and Congress Center, Istanbul, Turkey
  www.cebitbilisim.com

- **15 - 17 October 2008: SCaT India**
  South Asia's Largest Tradeshow Of The Indian Cable & Satellite Television Industry
  World Trade Centre, Cuffe Parade, Mumbai, India
  www.scatindia.com

- **29 - 31 October 2008: EEBC 2008**
  6th Eastern Europe Exhibition and Conference
  Kiev Expo Plaza, Kiev, Ukraine
  www.eebc.net.ua

- **3 - 5 March 2009: CABSAT 2009**
  Middle East's Electronic Media & Satellite Communications
  Dubai World Trade Center, UAE
  www.cabsat.com

- **2 - 5 February 2009: CSBT 2009**
  Cable, Satellite, Broadcasting, Television
  Crocus Exhibition Center, Moswoc, Russia
  www.cstb.ru

- **19 - 21 March 2009: SatExpo 2009**
  Space and Advanced Telecommunications
  New Rome Fair, Rome, Italy
  www.satexpo.it

- **25 - 27 March 2009: Satellite 2009**
  Exhibition for Satellite Enabled Communication
  Walter E. Washington Convention Center, Washington, USA
  www.satellite2009.com

- **March: CCBN 2009**
  The 17th China Content Broadcasting Network Exhibition
  China International Exhibition Center, Beijing, China
  www.ccbn.tv

- **26 - 28 May 2009: ANGACABLE 2009**
  Tradefair for Cable, Broadband and Satellite
  Koelnmesse, Cologne, Germany
  www.angacable.com

TELE-satellite Deadlines

Editorial Deadlines, Magazine Publishing Dates and CD-ROM Add-Ons (Subscribers Only)

Software	CD	Number	Issue	Deadline	On Sale at Newsstands	Available Online
SatcoDX World of Satellite		#208	12/2008	3 October 2008	14 November 2008	28 November 2008
SatcoDX Suite and Updater		#209	02/2009	5 December 2008	16 January 2009	30 January 2009
SatcoDX World of Satellite		#210	04/2009	6 February 2009	13 March 2009	27 March 2009
SatcoDX Suite and Updater		#211	06/2009	3 April 2009	15 May 2009	29 May 2009
SatcoDX World of Satellite		#212	08/2009	5 June 2009	17 July 2009	31 July 2009

TWIN HDTV Digital Satellite PVR

DS4H-9160

Fully DVB-S/DVB-S2 (H.264) HD Compliant

Dual DVB-S2 HD Tuners

Linux Operating System

Advanced High Picture Quality BROADCOM chip

Powerful Trick Mode

Firmware upgrade and Desktop HDD Recording via Ethernet port

Two(2) Channel Recording whilst Watching Play-back

JPEG and MP3 Play-back

Fast Scanning supported

Unicable / SCR (Single Cable Router) supported

Maximum 1TB (Terabyte) HDD (Hard Disk Drive) supported

True-Color 32bit GUI

IBC 2008

(International Broadcasting Convention)

Hall 5, Stand C10

12-16 September, 2008, RAI Convention Centre, Amsterdam, The Netherlands

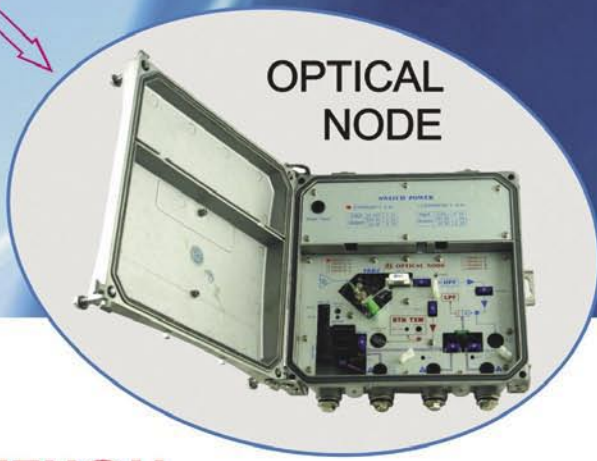
www.dizipia.com

15th Floor, East Wing, IT Venture Tower, 78 Garak-Dong, Songpa-Gu, Seoul 138-160, Korea
E-mail : info@dizipia.com ktkwak@dizipia.com / Tel : +82-2-2142-1970 / Fax : +82-2-2142-1999

DiZiPiA

WATCH THE WORLD WITH JIUZHOU

DVB/ATSC
-DIGITAL STB SERIES
CATV SERIES
DISH ANTENNA SERIES
LNB SERIES



JIUZHOU ELECTRIC GROUP

Headquarters: NO.16 Yuejin Road Mianyang,Sichuan,China
Shenzhen Branch: Jiuzhou Electric Building, Southern No.12 Road, Hi-Tech Industrial Park, Nanshan District, Shenzhen, China 518057
Contact: Mr. Alex Deng
Tel: +86-816-2468774
Fax: +86-816-2468903
E-mail: overseas@jiuzhou.com.cn
Website: www.jiuzhou.com.cn

NDS | irdeto | viaccess a France Telecom company | conax | DIVIA | NOVEL-TONGFANG | SeaChange | iPanel