

TELE

DTT
IPTV
3DTV
satellite

INTERNATIONAL

02-03 2012



Company Report

PANODIC

You Zhen Yu built a Top Five digital TV company in just a few years



Company Report

TRIMAX

Jerry Chu expands his office and widens his product range



Company Report

JIUZHOU

Jimmy Zhang strongly enters the Internet digital tv market



Company Report

TURBOSAT

Chris Ward introduces several new amazing digital tv receivers



Test Report

SATCATCHER

More than a Cable Meter: everything the installer needs

Test Report



AZBOX

The Super Receiver

Over a decade of experience in digital set top boxes

we have models for worldwide market



HD DVB-S2 with CI MPEG-4/H.264

HDS-275SCI

- USB PVR and Timeshift Ready
- HD MPEG-4 DVB-S2 with CI slot
- Media playback: MP3, JPEG, AVI (Divx), MKV
- Up to 5000 channels
- HD output: 576i/720P/1080P
- 15 Days EPG (need program support)
- EUP



DVB-S FTA SDS-552ANP

- SD MPEG2 DVB-S FTA version
- USB PVR and time shift ready
- Media playback: OGG/JPEG/BMP/MPGE PS/MPEG4
- Up to 5000 channels
- Advanced Automatic and blind scan
- NIT Network Search compliant



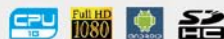
DVB-S FTA SDS-552ANP

- DVB-S FTA Scart stick
- Media playback: OGG/JPEG/BMP/MPGE PS/MPEG4
- Up to 5000 channels



HD IP Set Top Box IV210

- Online playback: 1Mbps ADSL supports smoothly, streaming DVD quality video/2Mbps ADSL for smoothly, streaming 720p quality video from bundled/Service or Content providers/TV live, VOD, download
- Content Access: Network open content source, Network specific content service
- Video decode: Full HD H.264, MPEG-1/2/4, DivX, WMV9, XviD, RMVB, FLV, MJPEG
- Audio decode: MP3, WAV, WMA, AAC-LC/HC, OGG Vorbis, RA, Dolby D
- Display resolution: 1080P
- WiFi 802.11(b/g/n): USB WiFi dongle, built-in USB WiFi module (Optional), SSID auto search, WEP/WPA encryption
- IP allocation: Static IP /DHCP/PPPOE



Android IP Set Top Box IV3001

- CPU: ARM Cortex A9, 1GHz@2500MIPS
- Video Decoding: H.264(1080p/i HP@L4.1), MPEG1/2/4(1080p/i) VC-1(1080p SP/MP/AP), RM/RMVB(720p)
- Audio Decoding: MP1/2/3, WMA, WAV, OGG, AAC, etc
- DVB-C/DVB-T Demodulator, 2 TS Input, 3 Demux
- 2 USB2.0(OTG/Host), Support SD/MMC Card
- OS: Android2.3



Panodic Electric (ShenZhen) Limited

High Tech Office: 12/F, Greentech Building, Keji.C. Road 3rd Hi-Tech Industrial Park, Nanshan District, Shenzhen, P.R.China
Factory: C/D Block, Zhengchangda Ind. Park, Jian'an Road, Tangwei, Fu Yong, Baoan Dist., Shenzhen, China
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 Tel: +852 2951 4538 Fax: +852 2951 4738 Email: market@micoelectric.com
www.panodic.com



**TELE-satellite
International**
The World's Largest
Digital TV Trade Magazine

since 1981

Alexander Wiese
Publisher

alex@TELE-satellite.com
HQ in Munich, Germany

Dear Readers,

It was only a few issues ago when TELE-satellite introduced to you the first receiver with the Linux operating system that could be started with two different user interfaces. The user could opt to work with one interface on one day and try the other interface the next day; it was entirely up to them. In this issue of TELE-satellite we are introducing a Linux receiver that can actually be started with three different user interfaces.

In this way the hardware (the receiver) is distancing itself more and more from the software (the user interface). You can look at it like this: if you have a laptop, you could start it first with Windows and then later on you could start it with Apple's operating system. Both operating systems are sophisticated and equivalent but there are some users that swear by one operating system and others that simply can't do without the other operating system.

It's the same with the user interfaces in digital TV receivers. Every receiver that we present in TELE-satellite operates with a sophisticated user interface but there are those that would prefer to use a specific software. An additional argument here is the ever increasing choice of applications. If you record TV programs on a regular basis, you might place more value in the presentation of an EPG and thus prefer to work with a user interface that is especially comfortable in this area. Then there are those viewers that watch TV channels from broadcasters that don't even provide an EPG. For this group a comfortable EPG means nothing to them; instead for them other criteria would be much

more important, such as for example, a comfortable channel scan.

If you, as a viewer, want the opportunity to be able to select a user interface for a digital TV receiver that is best suited to your needs, then you would need a receiver that offers precisely this kind of option. The software that a manufacturer factory-installs in its receivers is becoming more and more a selling point to the user and not a feature of a receiver that the user must live with. Whether or not receiver buyers use the original software or supplement the box with additional applications - in the end it's another freedom for the user: he can choose to utilize what the manufacturer has to offer or he can load software that he likes better.

Freedom of choice is now even more in the hands of the customer. And this seems to be a sign of the times; no one wants to be told what to do anymore, especially when it has to do with how to use a receiver. The customer is king; he even has a say in the user software.

Sincerely,

Alexander Wiese
Editor-in-Chief TELE-satellite International



**TELE
satellite**

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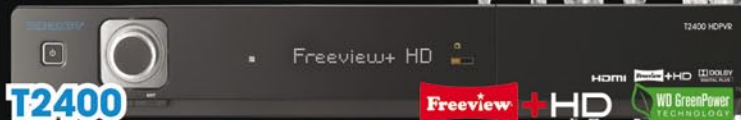
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ICECRYPT

FREEVIEW RECEIVERS



T2400

- High Definition Twin Tuner DVB-T2 PVR
- 1TB Hard Drive
- Series Recording & Recommendation
- Supports MP3 jukebox, DivX and AVI movie playback



T5000

- Digital Freeview Receiver
- RF-Modulator
- Twin SCART
- Picture in graphics (PIG) support
- Electronic Programme Guide (EPG)
- Digital Audio Output

DIGITAL SATELLITE RECEIVERS



S1500C

- 1 Card Reader
- External USB 2.0 Devices (PVR Ready)
- Event Recording by EPG
- HDMI Output



S2000CCI

- Smart Card Reader
- 2 CI Slots
- PVR Ready via USB
- 10,000 Channels



S3000HDCCI+

- High Definition
- Embedded Conax
- CI Slot
- DiSEqC 1.2 fully supported



S4000HDPVR

- High Definition PVR Receiver
- Linux embedded
- 320GB, 500GB and 1TB HDD options
- Twin Tuner



STC6000HD PVR

- Satellite, Terrestrial, Cable and Combo Options
- Twin Tuner Full HDTV PVR (Up to 1TB)
- Simple plug-in Detachable Tuner (DVB-S2/DVB-T2/DVB-C)
- Embedded Linux OS
- 2 Smart Card Readers & 2 CI Slots

LNBS



Large range of LNBS available.

- Single
- Twin
- Quad
- Octo
- Quattro
- Monoblocks

CAMS

MPEG2 Cams available in Conax, Viaccess & Irdeto



MPEG4 Cams available
Free to Air & Irdeto



Professional CAMs for Decoding MPEG2 Broadcasts in a Professional Environment available in 2, 4 and 8 Channel Options



WWW.ICECRYPT.COM

Legacy House, Church Road, Sittingbourne, Kent, ME10 3RS, England
Tel: +44 1795 429 666 Fax: +44 1795 427 666 Email: info@icecrypt.com



FULAN

ONE BOX ONE DREAM



FuLan Electronics Ltd

ltt@fulan-soft.com
www.fulansoft.com

3/F, A1 Block, Cyber-Tech Zone, Gaoxin AVE.7.S, Hi-Tech Industrial Park, Nanshan Dist., Shenzhen, China.

BREAKING NEWS!

Stay Tuned for Live Reports In This TELE-satellite Issue



02-03/2012

The World's Largest Digital TV Trade Magazine
since 1981
TELE **DTT** **IPTV** **3DTV** **satellite**
INTERNATIONAL

**All Reports in TELE-satellite are
Original and Exclusive!**

from Around the World!

We Report Directly From

port
Germany, Europe

Company Report
SORTEC
Bratislava, Slovakia, Europe

Company Report
PANODIC
Shenzhen, Guangdong, China

Feature
SPARK
Vienna, Austria, Europe

DXer Report
DX GEORGE
Budapest, Hungary, Europe

Company Report
JIUZHOU
Shenzhen, Guangdong, China

Company Report
TRIMAX
Shenzhen, Guangdong, China

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Company Reports are written by TELE-satellite's editorial staff on location
Test Reports are written by TELE-satellite's engineering staff located at
different strategic reception points around the world



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AMIKO®

HbbTV

Full HD
1080

ALLEN



CONNECTED SET-TOP BOX

AMIKO ONLINE SUPPORT SERVICE

- ▶ Online User's Manual & F.A.Q. Videos
- ▶ Notifications & Automatic Software Upgrades
- ▶ Availability of Streaming Services

- ▶ Spark & E2 OS simultaneously stored on the same receiver with easy switching
- ▶ HbbTV - Interactive Television
- ▶ Opera Web Browser (with Flash Lite)
- ▶ Multimedia Playback (MKV, AVI, MPG, FLV, MOV, WMV and much more...)
- ▶ Online Subtitle Downloads
- ▶ Recording and Playback via Local Network
- ▶ Watch and Download your Favourite YouTube Videos
- ▶ SHOUTcast, Picasa, RSS Reader & YouPorn apps
- ▶ USB Wireless Keyboard & Mouse Support
- ▶ Wired and Wireless Network Connection Support
- ▶ USB 3G Internet Modem Compatible*
- ▶ Expandable Possibilities with Plug-In support

...easy ;)



RSS READER



weather
forecast



The Amiko WLK-100 Wireless Keyboard is sold separately. *Please visit our website for the list of compatible devices

WWW.AMIKOSTB.COM

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TELE-satellite Magazine Sells!

Leading Digital TV Equipment Manufacturers continuously choose **TELE-satellite Magazine** to market their products most successfully on a global scale

TELE-satellite Magazine is the #1 Global Digital TV Trade Publication for 30 years - and we continue to expand!

TELE-satellite Magazine is seen by

- Digital TV Manufacturers
- Distributors
- Dealers
- Wholesalers
- Installers
- End Consumers
- Program Providers

Read Worldwide in
More Than **180 Countries**

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www.TELE-satellite.com/ads



Made In Korea. Certificate of Origin

More than
You Can Imagine

HD PVR (Full HD, 1080P)

High Definition PVR Receiver

Full HD / DivX, MKV / Time Shift / Two Live Pictures (PIP)



Full HD / DivX



PVR recording
F.F / REW / Slow
● ◀ ▶ ▶▶



Time Shift



Picture in
Picture



Playing recording
files in P.C



INNOVATION

PRODUCTS LEADING INTO



AWARD

THE FUTURE

INNOVATION
TELE
satellite
AWARD
MAGAZINE



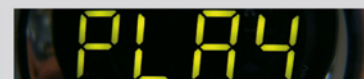
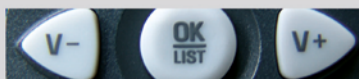
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satellite
AWARD 08-09/2009

GLOBAL INVACOM OPTICAL LNB
The first worldwide production-ready optical satellite reception and transmission system with excellent results – an investment that already makes sense today

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TELE
satellite
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Tenow TBS6984
Made for TV addicts who can never watch and record enough channels.





WE ARE DISTRIBUTOR OF

TOPFIELD

STRONG
DIGITAL TV

JAEGER

WE ARE SELLING:

THOMSON

PRODELIN
A TriPoint Global Company

SELSAT

SMW
SWEDISH MICROWAVE AB

INVACOM
Innovation in Communications

MICROELECTRONICS TECHNOLOGY INC.

ALPS

GIBERTINI

ALLVISION

Inverto
digital-labs

SPAUN

Stab

Addition to the family...

JAEGER **NEW**

HD+ 2011 CI+



HDTV-DVB-S Receiver - PVRready

- USB 2.0 host for playback of external hard drive or USB flash drive
- 1 x Common interface slot
- PVRready. Direct recording via USB on external storage media possible
- HDTV & SDTV
- 1 x smart card reader
- EPG (7 days in advance)
- Video-resolution 1080p, 1080i, 720p, 576p
- HD+ smart card for 12 months including
- HDMI out with HDCP

USB 2.0 HOST HDMI 1 x SMARTCARD-READER 1 x COMMON INTERFACE



*** FULL HD ***

JAEGER

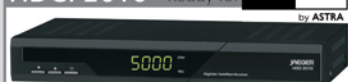
HD+ 2011



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- HDTV & SDTV
- 1 x smart card reader
- Video-resolution 1080p, 1080i, 720p, 576p
- HD+ smart card for 12 months including
- HDMI out with HDCP

HDCI 2010 Ready for



HDTV-DVB-S Receiver - PVRready

- USB 2.0 host for playback of external hard drive or USB flash drive
- 1 x Common interface slot
- HDTV & SDTV
- Video-resolution 1080i, 720p, 576p
- optical signal to the align the antenna
- HDMI out with HDCP
- Disecq 1.2 & USALS

MULTIMEDIA HOME GATEWAY

TOPFIELD

SRP-2401 CI+

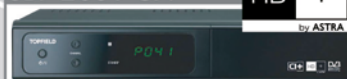


- Digital Satellite Receiver with CI and HDD
- 2 Common Interfaces for CONAX, CRYPTOWORKS, IRDETO, NAGRAVISION, SECA & VIACCESS
- MPEG-2 digital and fully DVB compliant
- 2 tuners
- SCPC and MCPC receivable from C/Ku-band satellites
- 10,000 Services TV (7,000) & Radio (3,000) programmable
- Favorite Service list editing
- 32-bit Color On-Screen Display (OSD)
- Firmware Update by Over-The-Air or USB-Stick
- S/PDIF for digital audio or
- Dolby AC-3 bitstream output
- Recoding capacity: Determined by USB-External HDD capacity
- Full Picture in Graphic (PIG) function
- Capable of time-shifting & single recoding
- MP3 (MPEG-1 Layer 3) decoding
- NTFS Read/ Write supported
- CI+ Service Descramble supported

HDTV Receiver Selection

TOPFIELD

SBP-2001 CI+

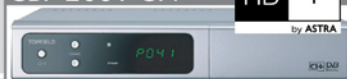


HDTV DVB-S Receiver

- HDTV PVR ready to external storage devices via USB port
- Output to 576i, 576 p, 720 p, 1080i
- Playback of DivX, DivX HD, MKV and VOB video files *
- Display subtitles (* .srt) media files
- Playback of MP3 files and display JPG files
- Timeshift/puffer with a length of up to 5 hours
- Fast forward and rewind with up to 64 x speed
- 2 CI + shafts modules for pay TV
- Firmware upgrade over USB4

TOPFIELD

CBP-2001 CI+



HDTV DVB-C Receiver

- HDTV PVR ready to external storage devices via USB port
- Output to 576i, 576 p, 720 p, 1080i
- Playback of DivX, DivX HD, MKV and VOB video files *
- Display subtitles (* .srt) media files
- Playback of MP3 files and display JPG files
- Timeshift/puffer with a length of up to 5 hours
- Fast forward and rewind with up to 64 x speed
- 2 CI + shafts modules for pay TV
- Firmware upgrade over USB4

STRONG

DIGITAL TV

SRT 7805 HD+



HDTV Receiver, USB PVR Ready

- HDTV (1080i) • USB port
- HD + compatible (HD+ smart card for 12 months including

SRT 7300 CI+



HDTV Receiver, USB PVR Ready

- HDTV (1080i)
- CI + compatible slot for most CA - modules
- USB port

SRT 7000



HDTV Receiver, USB PVR Ready

- HDTV (1080i) • HDMI (V/A -Output)
- USB 2.0 port

SRT 6205 - PVR Ready



USB recording capability

- UHF Modulator to connect the receiver to TV
- 2 Common Interface slots
- USB port

New measurements on stock

Premium

Satlook ICE



- DVB satellite-receiver 920-2150MHz
- Spectrum-analyzer with expanded spectrum
- DVB-S (Free to Air) and Analog TV-picture
- Digital readout of BER and SNR.
- Super bright 5" 16:9 TFT-LCD color display and much more

Mid Range

Satlook LITE



- Very handy and easy to use Satellite-TVmeter.
- "EasyFind"-satellite identification
- Very sensitive
- Digital BER and S/N-ratio and much more

Cost Effective

Digitas PRO ACQU



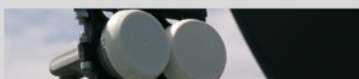
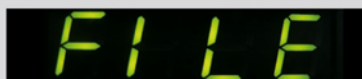
- Measure signallevel from two LNB's at the same time.
- Measured information are displayed on the LCD.
- DiSEqC, 22 kHz, 13/18v and mA readout.
- Generate DiSEqC, 22 kHz and 13/18v to control LNB/switch.
- and much more

Consumer

AirBeeper



- Very small and handy meter for installation of DVB-T antennas.
- Extremely easy to use, no buttons or knobs.
- Pitch-tone indication in the earphone and much more



HDTV & Ethernet connection

smart

VX 10
DVB-S HDTV Receiver



- HbbTV
- PVR-ready
- WIFI compatible
- LAN / Ethernet connection
- FULL HD 1080p
- NAGRA embedded
- USB interface for external storage devices
- e-SATA interface
- Unicable ready

DVB-S FTA Receiver

THOMSON

TSR 200



- USB port for recording and playback on an external USB medium
- S/PDIF for digital audio output
- 4000 program presets
- Electronic program guide (EPG)
- IR sensor for desired positioning
- LED display
- Easy installation with installation assistant

Big Dishes

PRODELIN
A TriPoint Global Company



2.4M - C & KU-BAND

- Precision compression molded centerfed reflector
- Series 1252 - Az/El Mount
- Series 1253 - Polar mount
- Low transportation cost with three panel reflector
- Individual panels inter-changeable and field replaceable
- Galvanized steel mounts Reader



3.7M - C & KU-BAND

- C-Band Intelsat F1, H4 and GType approved: approval #IA031A00 (without LNA) and # IA031A00 (approved LNA included)
- Intelsat approved LNA kit eliminates costly field testing
- C-Band INSAT & wide-band available
- Precision compression molded four segment offset reflector
- Installation time reduced with improved mount design
- Fully galvanized steel Az/El mount
- Reflector/Feed electrical Anti-Icing available
- Two axis tracking configuration available

Dishes

CIBERTINI TRIAX PRODELIN



- 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

Big dishes directly from our warehouse!

- NEW**
- 160 cm
- 180 cm
- 240 cm
- 300 cm
- 370 cm

Optical fibre LNB

INVACOM

Innovation in Communications

Fibre LNB / Fibre Flange LNB



with optical fiber connection

AVAILABLE ACCESSORIES:

Optical 2, 4 or 8 way MDU can imitate a twin, quad or quattro LNB, and you can have up to 32 MDUs from one Fibre Optic LNB

1x2, 1x4 or 1x8 optical fibre coupler

Optical cable from 1,0 meter up to 200 meters

The Fibre Optic LNB can feed the whole Ku-band up to 32 end-points.

Full LNB range INVACOM available as:

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

Parts

Multifeeder holder for 2, 3, or 4 LNB



Wallmounts

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



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

Remotesystems

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



Koaxialcable

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

Flat-Dishes

SELSAT



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

SELSAT Flat-Dishes available as:

H30D / H30D2 / H30D4



STRONG Slimsat SA Series

- Satellite antenna with integrated Single- Twin- or Quad LNB
- Simple: Installation within a few minutes

Slimsat Flat-Dishes available as:

SA 61 / SA 62 / SA 64

LNBs

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

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



Inverto



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

All available as:

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

Full LNB range INVERTO available from stock

Motors

Aktuatoren/ Actuators

- Mini Actuators - 6", 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 2500 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

Multiswitches/ DiSeqC-Switches



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

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

SPAUN Full range

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

Unicable solution

Inverto digital-labs

IDLP-USS200-CUO10-8PP

This cascable Unicable switch is the smallest form factor Unicable switch enabling the reception of 2 satellites and installations with up to 8 satellite receivers over a single cable. In addition to its eight User Bands Unicable output, the multiswitch also features two legacy outputs, a terrestrial antenna input and is powered by an external power supply



The New Super Receiver



- *Can be started in three different user interfaces*
- *Comes with an extremely sensitive tuner*
- *Already a fully functional multimedia box*
- *Very low heat generation guarantees long hardware life*
- *Includes learning remote control and reset button in case of unsuitable images*



TELE-satellite Magazine
Business Voucher

www.TELE-satellite.info/12/03/azbox-me

Direct Contact to Sales Manager



AZBOX *me*

What's the difference between a super receiver and a normal receiver?

If it's a Linux receiver you're talking about, then the answer is clear: it's when it can boot in more than just one Linux image. For the Linux operating system there are a number of very sophisticated user interfaces that each have their own special highlights.

TELE-satellite has already reported on Linux receivers that can boot in two different images. But the brand new AZBox ME can actually start with three different images and that for us makes it a super receiver. Naturally the AZBox ME can do a lot more than just start with three different user interfaces.

This surprising receiver makes quite an impression. The housing is made of black metal while the front visor is

a mix of brushed aluminum and a black acrylic visor behind which can be found a VFD display. The shape of the receiver is easy to describe: it is perfectly square all around (25cm x 24 cm x 4 cm).

The simple design of the receiver was also carried over to the front visor which is just as minimalistic in design. You can only see a single button surrounded by an LED ring the color of which indicates the operational status of the receiver, as well as a VFD display that can show alphanumeric characters in blue and a USB port.

It was nice to see that the AZBox designers installed the USB port in the proper orientation so that a USB stick won't face down when it's inserted. It's a minor detail but, nevertheless, we can't quite understand

why some manufacturers don't install the USB port the proper way. A stylish „Z" made out of brushed aluminum, the logo of the AZBox family, rounds out the front panel of the receiver. We ap-



AZBOX *me*





preciated the simple design; it doesn't always have to be a complex geometric shape. Sometimes less is more. Since the housing isn't coated in a glossy paint, you can handle the receiver as much as you want without having to worry about getting fingerprints on the surface.

It was at this point that a question came to mind: shouldn't this receiver have a card reader? We checked the back of the box and didn't find one there. Only when we looked at the right side did we find a slit in the housing. Yep, that must be it. The card reader supports Conax SmartCards. If you want to use this card reader, keep in mind that the SmartCard will stick out about 2cm so you have to make sure there is enough room on the side of the receiver.

When we took a closer look at the receiver's rear panel, we instantly noticed an inconspicuous switch:

BOOT Normal/Recovery. If a problem ever occurs during a firmware flash, there's no need to panic! Simply move the switch over to Recovery and load new firmware via the network. For the user this means no more worrying about accidentally uploading the wrong firmware or having the power go out during a flash process.

And while we're talking about flashing, the AZBox ME has the largest capacity memory that we know of. A fat 512MB lets us install three firmware images in parallel. During the boot process, Bank 0, 1 or 2 can be selected. These banks can be flashed however the user likes so that there's really no excuse not to try every available image!

The receiver comes shipped with two different Linux images (Bank 0 and 1). Actually, Android should also be part of this but at the last moment chip manufacturer

Sigma backed out of the OpenMIPS project. That's too bad. Although it's not that big a tragedy; it would still have been a MIPS processor based Android which means it couldn't have been used to access the Google Market not to mention the thousands of apps that can be found there - these are all laid out for ARM processors. But since AZBox manufacturer OpenSAT makes the source codes available to any interested developer, there's still hope that something will happen with Android.

The rear panel also sports an HDMI port and RCA jacks for component outputs (YUV) as well as composite video and audio (L+R). In addition there's e-SATA, USB 2.0 and an optical audio output.

We also liked the main power switch that can be used to turn the receiver completely off. Many manufacturers omit this switch

even though it does make sense to be able to turn the receiver completely off if it won't be used for a while. Pulling the plug out is not the best way to kill power to the receiver especially if the cables are all nicely placed behind a cabinet.

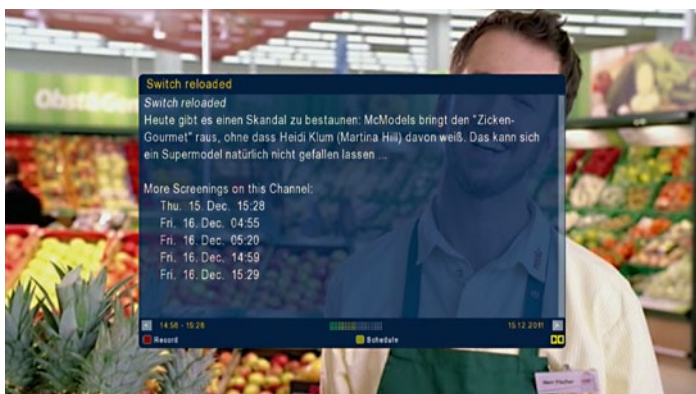
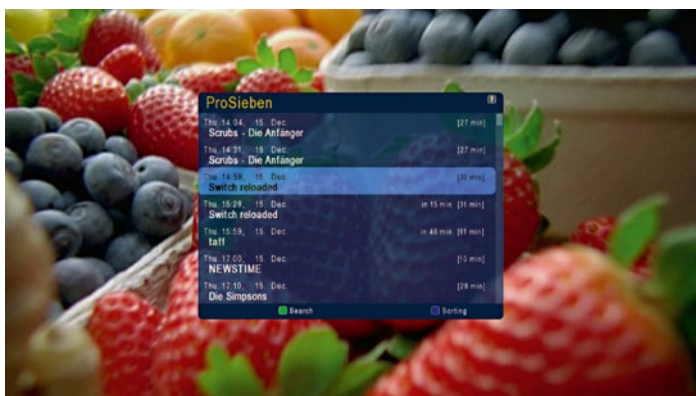
The available YUV jacks are perfect for those who have, for example, a video projector, that still don't have their own digital inputs. The component outputs provide a way to enjoy HDTV using an analog pathway.

The AZBox ME only comes with one tuner but it has a looped-through output so that additional receivers can be connected. In addition to instructions for programming the three flash positions and a pocket guide, there's also a remote control and a SATA cable as well as a set of screws.

Since a Linux receiver can only reach its full potential with a hard drive, we acquired a 2.5" SATA hard drive. You could, of course, also use an external hard drive via the USB port or e-SATA interface, but this would disturb the harmony in the living room by adding more visible components and cables.

Installing the hard drive is easy. A total of seven screws need to be removed from the receiver housing in order to get the top cover off. The designers of the AZBox ME came through once again: a sheet metal box is mount-





ed to the housing with four screws; it can hold a 2.5" as well as 3.5" hard drive. We never expected that this little receiver would also be able to hold a 3.5" hard drive! Another plus point!

Once everything was screwed back together, the hard drive was automatically recognized. It was formatted through the Hard Drive menu. Included were all of the typical PVR functions such as Timeshift and timer recordings.

The AZBox ME remote control is ideal. Even though it's rather unremarkable and not all that luxurious, it does sit nicely in your hands with all of the buttons easily reachable with your thumb.

The arrow buttons are surrounded by a ring of six additional buttons. This arrangement might take a little getting used to in that, for example, you could accidentally press the EPG button instead of the down-arrow button. But it won't take long before you get used to the setup and are able to keep the buttons separate from one another.

The highlight of the remote control can actually be found inside the battery compartment: there you'll find a button that activates the learning function. This makes it possible to reprogram the right button in the first row to, say, turn your TV on and off. But, of course, you can reprogram this button to handle every other possible function.

The AZBox ME is delivered with two pre-installed Linux images; the user is immediately given a choice between the two images. Even though both of them are Linux images, they both use completely different user interfaces. We selected „Boot (0)“ to start with. An assistant recognized the first-time use and guided us through the vari-

ous steps. First on the list was selecting the language. It's interesting to note that you can also choose „Bavarian“ as one of the languages.

Next come the video settings. Lastly comes the tuner configuration and the start of a channel scan. We tested the firmware with our DiSEqC 1.0 antenna system that consists of four antennas pointed to ASTRA 28.2E, ASTRA 19.2E, HOTBIRD 13.0E and HISPASAT 30W. The channel scan revealed the expected number of channels and did so in a speedy fashion.

With a freshly generated and therefore unsorted channel list it might not be much fun channel surfing; it would probably take quite a few button pushes to wade through the thousands of channels before you'd find a channel you like.

This Linux operating system functions in a beautifully different way: the up/down buttons as expected switch between one channel at a time forwards or backwards while the left/right buttons switch between providers. They are automatically arranged by satellite. Once you get used to this simple logic, you can switch amazingly fast between channels.

Naturally you can use a variety of settings editors to modify the settings. We recommend the excellent freeware „DreamSet“ (www.dreamset-editor.com) since it's compatible with the different firmware versions of the AZBox ME so that you only need one editor for both images.

Operating the Boot (0) image is for the most part logical and self-explanatory. The Boot (0) firmware left us with an overall good impression. It's easy to see that we're dealing with a mature operating system in which every function has been perfectly

HTS12



HD DVB-S/S2+DVB-T, CA
LAN, 2Tuner-PVR, Timeshift

HS14



HD DVB-S/S2, CI, CA, LAN
2Tuner-PVR, Timeshift

HS15



HD DVB-S/S2, CI+, Conax CAS
LAN, MP4, 1080p, PVR, Timeshift

HTJ1



HD DVB-T, MP4, 1080p
PVR, Timeshift, Mediaplayer

HT21 (Mini Receiver)



HD DVB-T, MP4, 1080p, PVR,
Timeshift, Powerful Mediaplayer

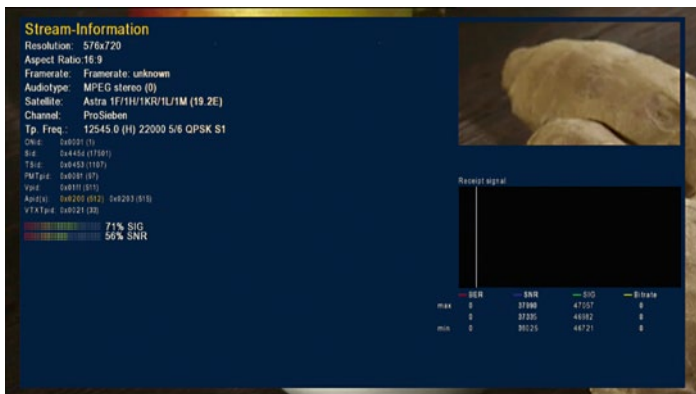
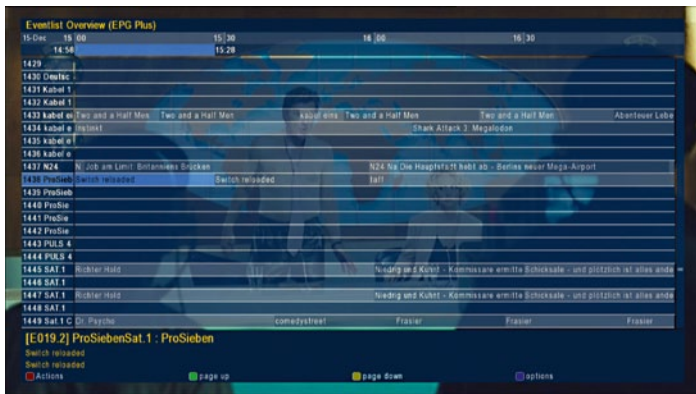
HD DVB-S/S2 HSJ1



Conax CAS(optional), MP4, 1080p, PVR, Timeshift

Skyworth

More than 30,000,000 families are enjoying wonderful and smooth
Audio-visual experience with SKYWORTH set-top boxes.



integrated. We quickly became acclimated to the EPG and the Videotext feature also functioned lightning fast with its unlimited page memory. It's curious though: while watching a channel, a push of the red button displays a small „Event List“ menu from which EPG information can be accessed. A fourth menu point is labeled „Technical Information“ and makes it possible to display a variety of relevant information on the currently running program. All the PIDs are shown as is information on resolution and reception plus there's a black box on the right side that is supposed to display a graphic with BER, SNR, signal and bitrate. Although these values are also shown numerically, the graphic was not displayed.

Hopefully this will be corrected in a future version of the firmware; a satellite DXers heart beats faster with this kind of information and if it's displayed graphically, it then makes it possible to observe this data over time.

We entered the IP address of the AZBox ME into the PCs Mozilla Firefox browser to test if it would be presented in the web frontend. And sure enough, a page was opened with an abundance of functions.

You can access the EPG information for all channels, switch between channels and stream them into the browser and display them using the browser's VLC plug-in.

You don't have to sit in front of the TV; you can access the receiver through the network. You can also completely configure the AZBox ME through the web frontend, set up timer recordings - you can even call up a virtual remote control. It's unbelievable how far the integration between the receiver and browser has gone.

After spending some time with this image, our curiosity got the better of us and we couldn't wait any longer; we had to try the image at „Boot (1)“. To accomplish this we had to perform a reset and then while restarting the receiver we had to hold down the „1“ button on the remote control until the receiver confirmed our selection. The receiver's boot loader recognizes the last selected image and boots it automatically so that when switching images the user simply needs to select 0, 1 or 2 during the boot process.

A totally different greeting image appeared and after only a short loading time we could clearly see that a completely different user interface was loaded. Even though the skin of the interface was adapted to the AZBox ME, we instantly recognized one of the most popular operating systems of Linux satellite receivers.

As before, an assistant once again guided us through the initial setup. In the first step the video output and resolution are selected.

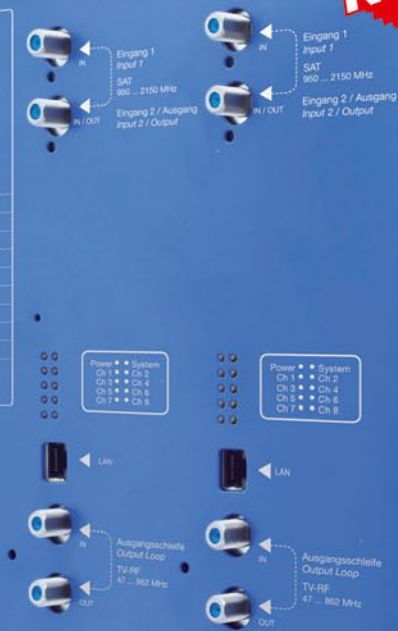
Next the user selects from a list of many different languages whereby a small flag is shown next to the language name. It's a small but useful element if you can't read the English spelling of each language.

After a short introduction to navigating with the remote control, the next step was the configuration of the tuner. You can choose between a simplified automatic configuration or an expanded configuration for more complex satellite systems. We opted with the simple configuration for DiSEqC 1.0 with four inputs (A, B, C and D).

The last step was starting an automatic channel scan. After just a few minutes it was complete and we could

Compact Headend 8 / 16 x DVB-S(2) into QAM BluBox 8 and BluBox 16

- 8 / 16 x DVB-S(2) (QPSK/8PSK) into DVB-C (QAM)
- For the reception of 60/120 TV programs SD/HD and 30/60 Radio programs
- Compact dimensions and high energy efficiency
- LNB control with 14/18 V + 22 kHz or DiSEqC
- Configuration via LAN/IP
- Complete processing of the transport streams possible
- All 8 / 16 output channels can be placed individually in the spectrum
- Two individual input ports



NEW

NEW



SAT-HD-ANALYZER SPAROS SAT HD

- High quality and bright display (4.3 inch)
- MPEG4-display and measuring
- SCR single cable switching commands according to EN 50494
- DiSEqC control
- Spectrum analysis
- Robust, impact-resistant housing
- Splash-resistant keypad



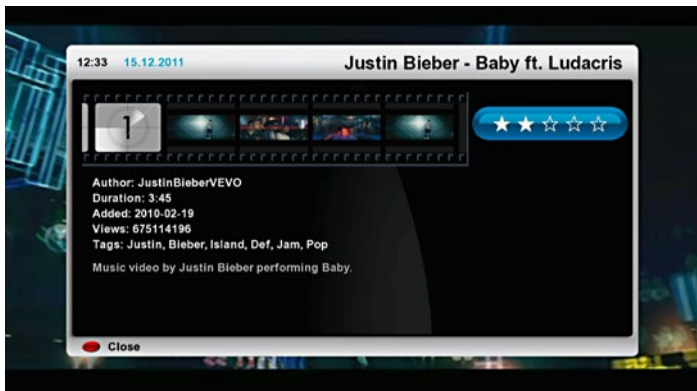
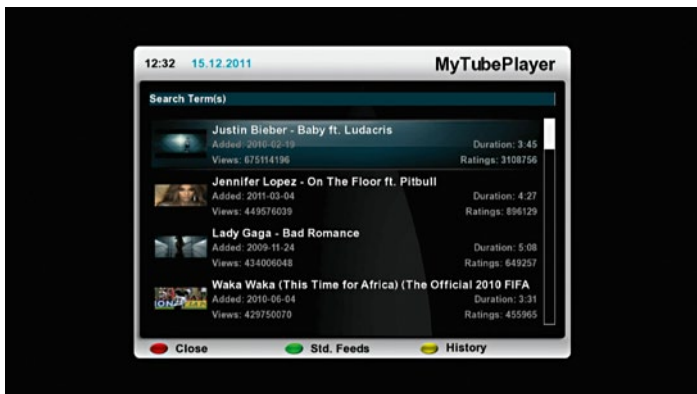
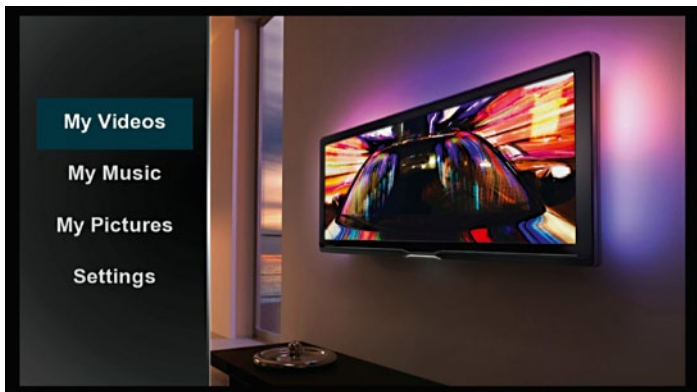
Optical Transmitter SOTx 1310607 NF

- Frequency range of 47 ... 2200 MHz
- Laser output power: +6 dBm
- Quattro- and QUAD-LNB support

Optical Receiver

SORx 1310607 NF and SORx 1310607/1 NF

- 4-way / 1-way receiver in a compact housing
- Remote powerable through one coaxial output



check out the functions. Channel surfing was clocked at 2-3 seconds between FTA HD channels and 1-2 seconds for FTA SD channels. The EPG information was displayed very nicely; you can select from different display modes and even lengthier program descriptions are totally readable. The PVR functions are also available with this image as they were with the Boot (0) image.

The Timeshift function can be activated at any time - all you have to do is push the Pause button. Oddly enough, the real Pause function was programmed into the yellow button.

Recordings are not started with the Record button (this switched the receiver over to radio mode) but rather with the red button. We're dealing here with a contradiction in the keyboard layout that is due to the OpenSource Linux operating system. Nevertheless, it didn't take long to get used to this arrangement.

Recordings can be started at any time, although we were much more interested

in how easy it would be to program a recording and if the receiver could correctly handle this programmed recording coming out of standby mode. We came up with the following situations:

- Recording from Standby with the antenna already pointed at the correct satellite. *Result: the recording was handled without any problems.*
- Recording while watching another channel in which the antenna was pointed at a different satellite. *Result: no problems here either. The AZBox ME promptly displayed a message on the screen that because of a timer recording the satellite has to be changed. It then switched to the programmed channel. Outstanding!*
- Attempt to timer record two overlapping programs on two different transponders. *Result: in this case the receiver displayed a message that involved two overlapping programs. The user needs to select recordings in*



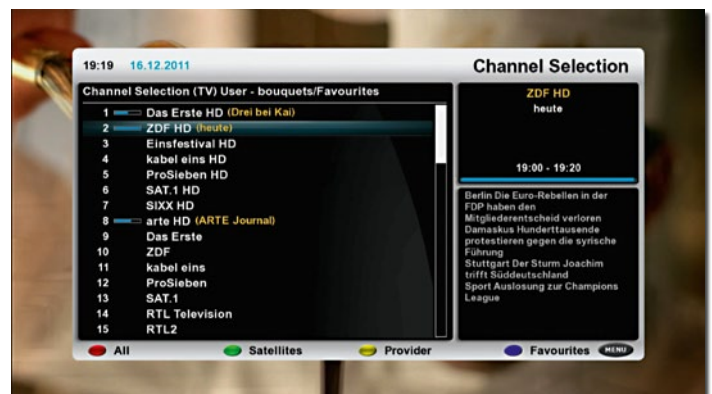
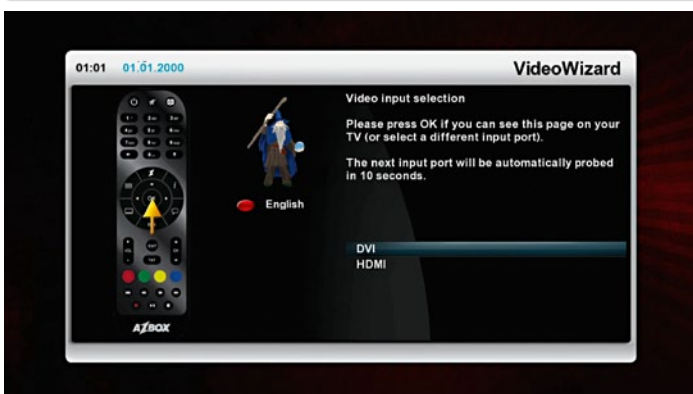
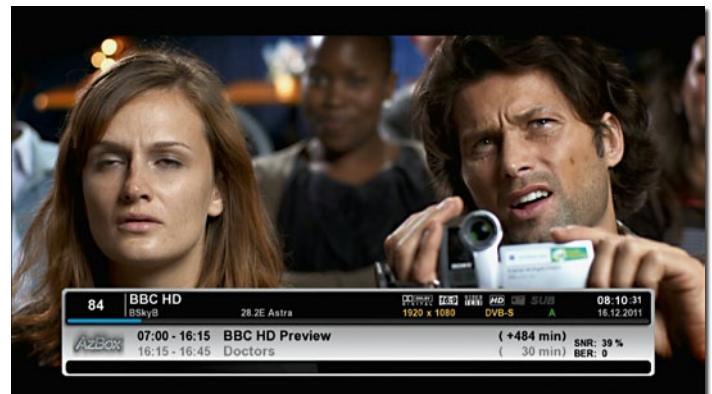
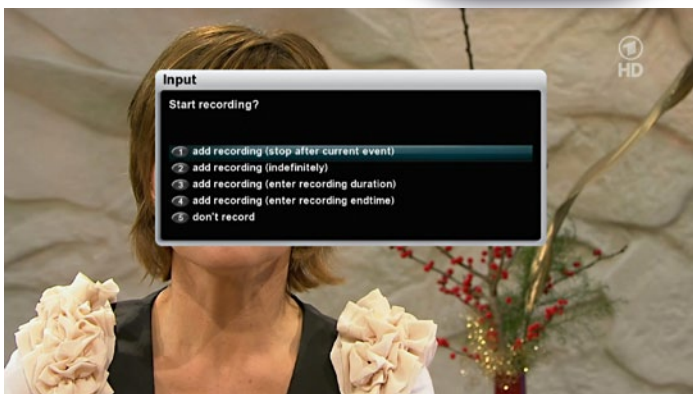
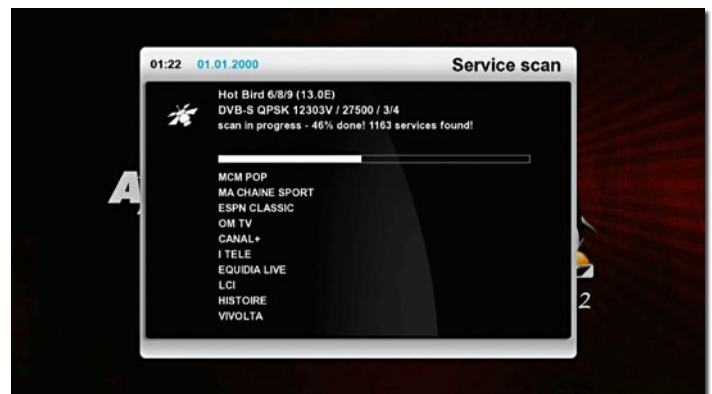
such a way that there is no conflict between them.

- Attempt to timer record two overlapping programs on the same transponder.
Result: the receiver didn't have any problems here; it can handle multiple recordings on the same transponder.

At this point we wanted to test how well suited the AZ-Box ME would be for satellite DXers. Somewhat different criteria are important here. Satellite DXers want to be able to receive rare or weak signals. Most of the time this involves feeds, that is, brief transmissions such as with live broadcasts.

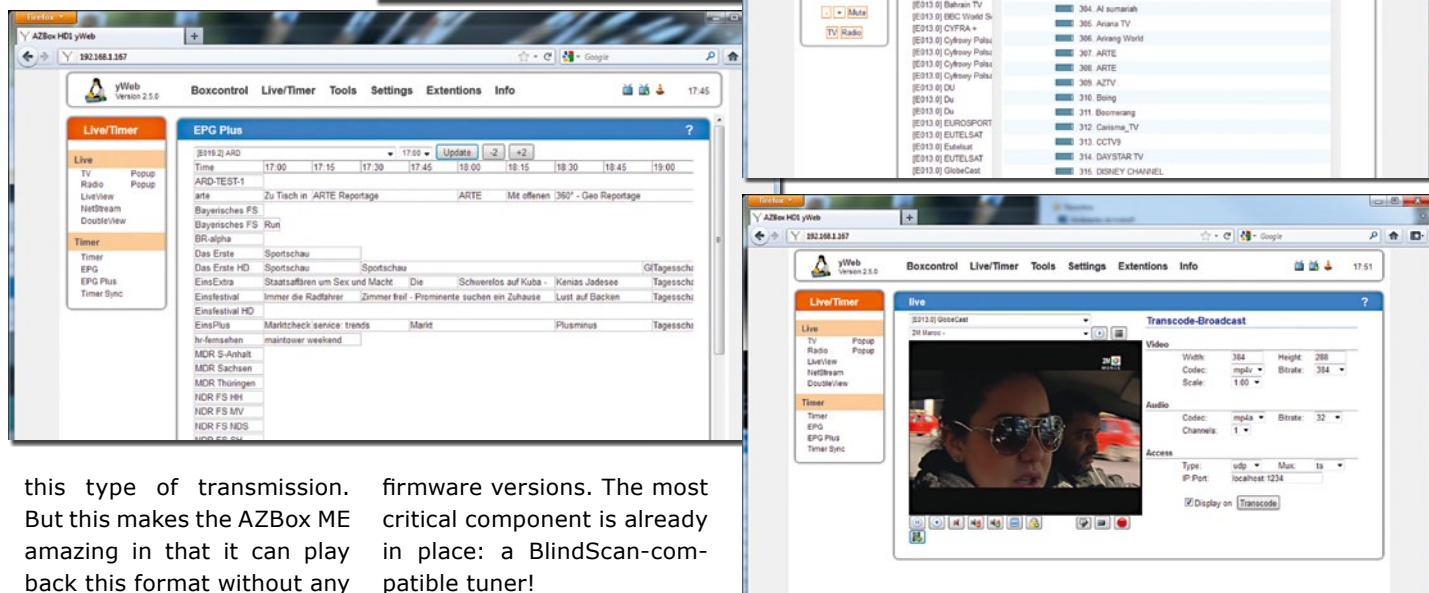
In many cases these transmissions are unedited, something that can be very entertaining especially if you happen to catch a blooper or some other mishap that would normally not make it to the regular transmission.

Many feeds are encrypted, but luckily not all of them. But often enough the MPEG 4:2:2 format is used which can handle a larger color



space so that an acceptable picture can be displayed even after it has been edited several times over.

Standard receivers can't do anything with this format and therefore can't display



this type of transmission. But this makes the AZBox ME amazing in that it can play back this format without any lag! This fact alone would be a great selling point in feed hunter circles.

To test it we found several transponders with MPEG 4:2:2 feeds. We had luck with the first transponder and were able to watch a live broadcast. To verify that this was indeed a transmission with MPEG compression in 4:2:2, we recorded the transponder stream (TS) and copied it to our PC using FTP. The Open Source tool „Mediainfo“ (mediainfo.sourceforge.net/en) offers the necessary assistance in that in addition to the Codec, the Chrome Profile is also shown.

Feedhunters love to use a function called BlindScan in which the entire frequency range of an LNB is scanned in a very short time for active transponders without having to enter in additional parameters such as symbol rate or FEC.

Although the AZBox ME currently doesn't have a BlindScan feature, the addition of this function has been promised for one of the next

firmware versions. The most critical component is already in place: a BlindScan-compatible tuner!

To see how well the AZBox ME works with motorized antennas, we hooked up the receiver to our 1.0-meter offset antenna with DiSEqC 1.2 motor. We asked the receiver to perform an automatic channel scan on 14 different satellites. Since this task would take some time, we let the receiver run overnight.

We woke up the next morning anxious to see if the receiver was successfully able to handle the job or if it crashed, something that happens all too often with other receivers.

To our relief we found that the receiver was still running and that it had found a total of 6136 services (TV, radio and data). This was impressive especially because a storm passed through during the test that knocked our antenna slightly out of alignment and therefore was no longer optimally aligned.

Instead of trying to perfectly realign the antenna, which was not possible because of the ongoing storm, we turned the antenna to

ASTRA 2D to see if we could receive BBC HD. Well, how about that! The tuner, despite a small antenna, a misaligned motor and bad weather was able to receive the problem transponder 50 (10847 V 23000, 8/9) on ASTRA 2D and display it without any interference.

Additional traits of a good tuner include the ability to receive small symbol rates and also to display a picture even if the signal is weak. With that in mind we turned our dish to TELSTAR 12 at 15W and called up the 11566H transponder. This uses a symbol rate/FEC of 5625 1/2. BYU TV was displayed without any hesitation worth mentioning.

We also attempted the Russian INTER+ channel on the same satellite that was broadcasting on 10988H with a symbol rate/FEC of 2180 3/4. This transponder had already been found during our overnight channel scan.

Thus far we've been very impressed with the capabili-

ties of this receiver but we still hadn't checked out the multimedia side of this box. So, we decided to copy a number of movies from the AVI container via FTP onto the receiver's hard drive and in a second test we connected an external USB 2.0 hard drive that contained multimedia content.

All of the movies were played back without any problems; even DivX coded movies were handled without any difficulties. We weren't, however, able to display subtitles in SRT format; but this is normal: we don't know of any receiver that can do this.

The AZBox ME surprised us once again when we inadvertently tried to open an AVI file that originated from our Fuji S9000 camera. These videos normally can only be opened under Windows and quite often a Codec from the camera manufacturer would also have to be installed. Before we realized what we had done, the receiver played the video back without any difficulties at all.

NXP8735 Linux HD DVB-S2+T COMBO



- ▶ IPTV Digital Receiver
- ▶ Digital Satellite Receiver
- ▶ Digital Terrestrial Receiver
- ▶ Digital Cable Receiver
- ▶ HD/SD COMBO Receiver



Features

- Fully MPEG-2/MPEG-4(H.264/VC-1) and DVB-S/DVB-S2/DVB-T Compliant
- Multi-media Function (Playback TS, MKV, AVI, DivX, XviD, VOB, RMVB, RM etc.)
- Linux OS Embedded with Powerful compatibility
- Recording & Playback with External Storage Devices(e-SATA / USB2.0 / HDD)
- Support HDMI output (up to 1080i)
- USB Hub
- USB WiFi
- Support Youtube
- VFTP Download
- BT Download



- Support SMB
- Ethernet Embedded
- Conax CAS7.0 Embedded
- Common Interface Plus (CI+)
- Plug-in tuner design
- Low-power Consumption

Mstar7816 HD DVB-S2



- Fully MPEG-2/MPEG-4(H.264/VC-1) and DVB-S/DVB-S2 Compliant
- PVR function supported, recording TV and playback media files with external storage devices (USB stick / USB HDD)
- Advanced Time-shift function with external HDD/USB Stick
- Supporting pictures with JPEG, BMP, PNG, zoom function supported
- Supporting music files with WMA, MP3, AAC

- (.wma, .mp3, m4a)
- Supporting movie files with MPEG1/MPEG2/MPEG4/H264/VC-1/Motion JPEG (.flv / .rm / .rmvb / .avi / .mpg / .dat / .vob / .div / .mov / .mkv / .mjpeg / .ts / .trp)
- Games included
- The OTA (Over-The-Air) upgrade supported(optional)
- Software upgrade by USB2.0 interface

MSD7818 HD DVB-T



- Fully DVB-T/MPEG-2/MPEG-4/H.264 Compliant
- PVR Recording (Viewing one channel and Recording another channel Simultaneously)
- Recording TV and Playback JPEG/MP3 with External Storage Devices (USB2.0 / HDD)

- Multi-media Function (Playback TS, MKV, AVI, DivX, XviD, VOB, RMVB, RM etc.)
- Advanced Time-shift function
- Format Resolution: 1080i, 720p, 576p

Playing movies back from a hard drive is all by itself a beautiful thing, but it would be far better to be able to have direct access to our multimedia server on which can be found a nicely organized library of music, pictures and movies. The server allows via SAMBA free access to this data.

We spent a few moments with the AZBox's network settings and were able to establish a connection rather quickly. Instantly a new hard drive appeared in the multimedia player from which we could access our server through the network. We tested a variety of media

types and confirmed to our satisfaction that it was no bother for the AZBox ME to play back DivX data via the network.

Another great feature is the integrated YouTube client. This lets you watch YouTube videos through the AZBox ME on your TV. The text entry in the search field with the keyboard was actually quite fast and it was fun playing with this application.

The incredible assortment of features in this receiver can be even limitlessly expanded with the installation of Plugins. There are already a number of Plugins available that can be directly

downloaded into the receiver and, of course, Plugins can be manually copied via FTP to the AZBox ME and then installed.

And just like with the first image, we also opened the Mozilla Firefox browser on our PC in the Boot (1) image. And just like before we were able to access nearly all of the AZBox ME's functions via the web frontend although it was a completely different web frontend; one that was suitable to the Boot (1) image. There are so many functions that you could use that you'll always discover something new. We were able, for example, to take a

movie, that we earlier copied to the receiver's hard drive via FTP, and stream it to the PC via VLC through the web frontend.

Throughout the entire test, during which the AZBox ME was thoroughly put through its paces, the receiver remained remarkably cool even though there was no cooling fan. Every other Linux receiver that we know of gets quite hot and even puts out more heat in standby mode than the AZBox ME does in normal operational mode. This guarantees that the internal hard drive and the electronics will have a long and healthy life.



AZBOX *me*

We could have tested this receiver for days on end; we were always discovering new and fascinating features or capabilities in this little powerhouse. The AZBox ME is truly a super receiver.

Normal, everyday users will be satisfied with every aspect of this box: it comes with a fast processor and the modern firmware permits intuitive operation. Three different firmware images can be installed at the same time so that it's easy to try out a different image.

Even the most daring attempts at flashing the memory no longer pose any risk since the little switch on the

other multimedia devices. The vast array of functions in this receiver will blow away even the most experienced enthusiasts and they'd have the ability to always try out new functions, Plugins and images.

Even for the most sophisticated satellite DXer, this receiver would be an incredibly fascinating machine - it comes with a highly modern tuner that also happens to be extremely sensitive plus it can handle professional MPEG 4:2:2 transmissions. The AZBox ME manufacturer OpenSAT has already said that they will shortly be adding BlindScan as well.



back of the receiver guarantees that you can reflash the receiver should something ever go wrong. This receiver lets you enjoy the highest levels of multimedia - it can easily take the place of

All of this is packaged in a small, attractive housing. We are very enthusiastic about this box and want to congratulate OpenSAT for the success of this super receiver.

Expert Opinion

Best Linux receiver with outstanding hardware
Factory-equipped with two Linux images
Large flash memory can administer three images
Emergency image can be activated through a switch
Low heat dissipation
No cooling fan



Vitor Martins Augusto
TELE-satellite
Test Center
Portugal

BlindScan function not yet available (coming soon)

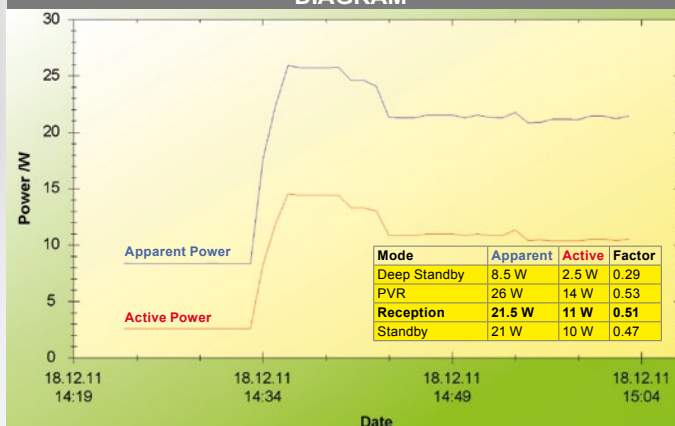
TECHNICAL

DATA

Manufacturer	OpenSAT Ltd, Lagoa, 4950-283 Mazedo, Portugal
Website	www.azbox.com
E-Mail	info@azbox.com
Model	AZBox ME
Function	Digital HDTV DVB-S / DVB-S2 Linux Receiver with Multimedia Features and large Flashmemory for 3 Boot Images
Processor (CPU)	SIGMA SMP 8655 AD
RAM Memory	DDR 256 MB
Video Memory	DDR 256 MB
Flash Memory	512MB
Tuner	Availink AVL2108 Single Tuner, Blindscan capable
DiSEqC	1.0, 1.1, 1.2, USALS
Harddrives	eSATA and internal SATA (2.5" or 3.5")
Video Out	HDMI, YUV and Composite-Video
Video Containers	MPEG1/2/4 (M1V, M2V, M4V); MPEG1/2 PS (M2P, MPG); MPEG2 Transport Stream (TS, TP, TRP, M2T, M2TS, MTS), VOB, AVI, ASF, WMV, IFO, ISO; Matroska (MKV), MOV (H.264), MP4, RMP4
Video Codecs	XVID SD/HD; MPEG-1; MPEG-2: MP@HL; MPEG-4.2: ASP@L5, 720p, 1-point GMC; WMV9: MP@HL; H.264: BP@L3; H.264: MP@L4.0; H.264: HP@L4.0; H.264: HP@L4.1; VC-1: MP@HL; VC-1: AP@L3
Audio Containers	AAC, M4A, MPEG Audio (MP1, MP2, MP3, MPA), WAV, WMA, FLAC, OGG Audio Codecs: AAC, AAC+, Dolby Digital, DTS, WMA, WMA Pro, MP1, MP2, MP3, LPCM, FLAC, Vorbis, DTS (Audio Passthrough); Dolby Digital (Audio Passthrough)
Picture Formats	JPEG, BMP, GIF
Resolutions	576i (480i), 576p, (480p), 720p, 1080i, 1080p
Ethernet	10/100 Base-T Ethernet
Card Reader	1x (Conax Licence)

ENERGY

DIAGRAM



TEST REPORT | Linux HD Receiver |

AZBOX

Der neue Super Receiver



- kann in drei verschiedenen Benutzeroberflächen gestartet werden
- verfügt über einen extrem empfindlichen Tuner
- ist gleichzeitig eine vollwertige Multimedia-Box
- äußerst geringe Hitzeentwicklung garantiert Langlebigkeit der Hardware
- mit lernfähiger Fernbedienung und Resetknopf bei Aufspielen eines ungeeigneten Images

AZBOX me

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Was unterscheidet einen Super Receiver gegen einen normalen Receiver. Wenn es sich um einen Linux-Receiver handelt, dann lautet eine klare Antwort darauf: wenn er in mehr als nur eines der Linux-Images booten kann. Denn für das Betriebssystem Linux gibt es eine Vielzahl sehr ausgereifter Benutzeroberflächen, die jede für sich über ihre eigenen Highlights verfügen. Über Linux-Receiver, die in zwei Linux Images booten können, berichtete TELE-satellite bereits. Aber die nagelneue AZBox ME kann sogar in drei Images starten und das macht sie für uns zu einem Super Receiver. Aber die AZBox ME kann natürlich noch weitaus mehr, als in verschiedenen Benutzerprogrammen zu starten.

Der überraschend kleine Receiver macht einen sehr wertigen Eindruck. Das Gehäuse besteht aus schwarzem Metall, die Frontblende aus einer Mischung zwischen gebürstetem Aluminium und schwarzer Acrylblende, hinter welcher sich ein VFD-Display verbirgt. Die Form des Receivers lässt sich sehr einfach beschreiben: sie ist quadratisch (25cm x 24 cm x 4 cm), ohne jede Spielerei. Das minimalistische Design kommt jedoch gut zur Geltung, da auch die Frontblende entsprechend entworfen wurde. Nur ein einziger Knopf, umgeben von einem LED-Ring, dessen Farbe Hinweis auf den Zustand des Receivers gibt, das schon angesprochene VFD-Display, welches 8 alphanumerische Zeichen

in blauer Farbe darstellen kann, und ein USB-Port sind hier sichtbar. Schön ist, dass die AZBox Entwickler den USB-Port richtig herum eingebaut haben, so dass ein eingesteckter USB-Speicher nicht nach unten zeigt. Dies ist zwar nur eine Kleinigkeit, trotzdem verstehen wir es nicht, warum manche Hersteller es nicht schaffen, die USB Ports richtig herum einzubauen. Ein stilisiertes „Z“ aus gebürstetem Aluminium, Markenzeichen der AZbox Familie, runden das vordere Erscheinungsbild ab. Uns hat das Design sehr gut gefallen. Es muss nicht immer eine komplexe Geometrie sein, manchmal ist weniger definitiv mehr. Da das Gehäuse nicht mit Klavierlack gefärbt ist, kann man den Receiver nach Lust und Laune berühren und



anfassen, ohne dass gleich störende Fingerabdrücke entstehen.

An dieser Stelle kam uns eine Frage auf: sollte das Gerät nicht einen Kartenleser haben? Auf der Rückseite fanden wir auch keinen... Doch dann sahen wir auf der rechten Seite einen Schlitz im Gehäuse. Ja, das muss er sein. Standardmäßig unterstützt der Kartenleser Conax Smartcards. Möchte man diesen Kartenleser benutzen, gilt es zu bedenken, dass die Karte ungefähr 2 cm absteht und somit etwas Freiraum zur Seite benötigt wird.

Als wir uns die Rückseite des Receivers näher anschauten, fiel uns sofort ein unscheinbarer Schalter auf: BOOT Normal/Recovery. Wenn beim Flashen einer Firmware etwas doch nicht klappt, dann hat man bei diesem Receiver keinen Grund zur Panik! Einfach den Schalter auf Recovery schieben und über das Netzwerk eine neue Firmware aufspielen. Für den Anwender heißt es: endlich keine Sorge mehr, dass man aus Versehen die falsche Firmware aufspielt, oder dass mitten im Flashvorgang der Strom ausfällt.

Und wo wir schon über das Flashen sprechen: die AZbox ME hat den größten uns bekannten Flashspeicher. Großzügige 512MB erlauben es, parallel 3 Firmware-Images zu installieren. Beim Bootvorgang kann zwischen Bank 0, 1 und 2 gewählt werden. Diese können je nach Belieben des Anwenders geflasht werden, so dass man wirklich keine Ausrede hat, alle verfügbaren Images auszuprobieren! Der Receiver wird mit zwei verschiedenen Linux-Images ausgeliefert (Bank 0 und 1). Eigentlich sollte sich noch Android hinzugesellen, doch da machte der Chip-Hersteller Sigma im letzten Moment einen Strich durch die Rechnung und zog sich aus dem OpenMIPS Projekt zurück. Schade. Aber eigentlich auch kein echter Verlust, denn es handelte sich eben doch um ein auf MIPS Prozessoren angepasstes Android, mit welchem man sowieso nicht auf Google Market geschweige denn auf die tausende Apps zugreifen könnte, da diese für ARM Prozessoren ausgelegt sind. Da der AZBox Hersteller OpenSAT aber die Sourcecodes jedem interessierten Entwickler zukommen lässt, bleibt doch die Hoffnung, dass es noch was werden könnte mit Android.

Auf der Rückseite finden

wir weiterhin einen HDMI-Anschluss, Chinch-Buchsen für den Komponenten-Ausgang (YUV), Composite-Video und Audio (L+R). Dazu noch e-SATA, USB-2.0 und einen optischen Audio-Ausgang. Sehr positiv bewerten wir das Vorhandensein eines Einschaltknopfes, der den Receiver komplett abschaltet. Diesen sparen viele Hersteller ein, obwohl es doch Sinn macht dass man den Receiver auch komplett abschalten kann, wenn man ihn über einen längeren Zeitraum nicht nutzt. Den Stecker zu ziehen ist selten eine sinnvolle Alternative, besonders wenn die Kabel schön aufgeräumt hinter dem Schrank liegen.

Die vorhandenen YUV Chinch-Buchsen sind ein echter Mehrwert für all diejenigen, die z.B. einen Videoprojektor besitzen, der noch nicht über digitale Eingänge verfügt. Ein Komponenten-Anschluss über YUV bietet in diesem Fall die Möglichkeit, HDTV über dem analogen Weg zu genießen. Die AZbox ME bietet nur einen Tuner, doch dieser hat einen durchgeschleiften Ausgang, so dass man weitere Receiver anschließen kann.

In der Verpackung wird neben einer Anleitung zum Programmieren der drei Flashpositionen und einer Kurzanleitung noch eine Fernbedienung und ein SATA-Kabel sowie ein Satz Schrauben mitgeliefert.

Da ein Linux-Receiver sein volles Potential nur mit einer Festplatte ausspielen kann, haben wir uns eine 2.5" SATA Festplatte besorgt. Natürlich kann man eine solche auch extern über USB-2.0 oder e-SATA betreiben, doch dies stört die Harmonie im Wohnzimmer, denn es sind wieder erneute Gehäuse und Kabel sichtbar. Der Einbau der Festplatte ist leicht zu bewerkstelligen. Insgesamt müssen am Gehäuse 7 Schrauben entfernt werden,

um den Deckel abheben zu können. Wieder haben die AZBox Entwickler mitgedacht, denn im Inneren ist eine Blechhalterung mit 4 Schrauben am Gehäuse befestigt, die sowohl 2.5" als auch 3.5" Festplatten tragen kann. Wir hatten gar nicht erwartet dass dieser kleine Receiver auch 3.5" Festplatten unterbringen kann; noch ein Pluspunkt!

Nachdem alles wieder zugeschraubt war, wurde die Festplatte automatisch erkannt. Diese haben wir im Festplatten-Menü formatieren lassen. Es standen nun auch die typischen PVR Funktionen wie Timeshift oder Timer-Aufnahmen zur Verfügung.

Die Fernbedienung der AZBox ME ist genial. Obwohl etwas unscheinbar und nicht besonders luxuriös gestaltet, liegt sie sehr gut in der Hand und ermöglicht es, mit dem Daumen alle Tasten zu erreichen. Etwas gewöhnungsbedürftig ist der Umstand, dass um die Richtungstasten weitere 6 Tasten ringförmig angeordnet sind, was in der Einarbeitungsperiode dazu führte, dass man statt auf die Unten-Taste auf die

EPG-Taste drückt. Haptisch sind diese jedoch nach kurzer Zeit sehr wohl auseinander zu halten. Der absolute Höhepunkt der Fernbedienung verbirgt sich jedoch im Batteriefach: dort ist ein kleiner Knopf, der die Lernfunktion aktiviert. Diese ermöglicht es, die rechte Taste in der ersten Zeile neu zu programmieren. Sie dient dazu, das Fernsehgerät ein und auszuschalten. Man kann aber natürlich jede andere Funktion auf diese Taste programmieren.

Die AZBox ME wird mit zwei vorinstallierten Linux-Images ausgeliefert, der Anwender kann also sofort zwischen den Images wählen. Obwohl es sich in beiden Fällen um Linux-Images handelt, verwenden diese komplett unterschiedliche Benutzeroberflächen. Wir wählten erst mal „Boot (0)“. Ein Assistent erkannte die Erstbenutzung und führte uns durch die verschiedenen Schritte.

Als erstes galt es, die Sprache zu wählen. Kurios ist hier, dass auch „bayerisch“ als Sprache gewählt werden kann. Weiter geht es mit den Video-Einstellungen.

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MEGASAT

Brillantes Fernsehen



Megasat HD 950



The Megasat HD 950 is the first class satellite receiver on the market. The integrated Linux system in the HD 950 gives superb multimedia performance. A wide selection of sockets at the rear panel like CI, LAN, Card reader and 3 x USB, fulfil every multimedia desire. Brilliant sharp pictures in full HD format are assured.

No PC is required to put internet pages on your TV set. Connect the Megasat HD 950 via LAN or WiFi stick to your router and you will have free access to the www world.



Have full advantage of the broad internet content sitting in your coach. Use the WiFi stick in connection with the Megasat HD 950 to avoid LAN cable to your living room.



Connect your wireless keyboard and mouse to the Megasat HD 950 and you can have full access to the internet due to the internal browser.



Optional a 2.5 inch hard disc drive can be build-in with few handles. Doing this, you can store and file your best loved music and films on the hard disc. You can record and play your films and music easily with the build-in Mediaplayer.



Megasat DiSEqC Motor No.1



Technical data

- Protokoll DiSEqC 1.2
- max. 10kg weight mirror
- Rotorspeed: 1.9°/sec. (13V), 2.5°/sec. (18V)
- +/- 80° rotation angle
- 25° to 75° Slope at the Pole
- Manual east / west handling
- 50mA Power in standby
- 200mA Power in operation
- -40°C to +80°C Operating
- Go to X Funktion
- 60 programmable satellites
- 26 preprogrammed satellite
- USALS - no limit
- High-resolution Hall-effect sensor
- F-Type connector
- coaxial cable connection
- mechanical limits +/- 72°
- Limit protection over micro switches, software, current limiting
- Weight 3.1 kg

Megasat multiswitches



- Megasat multiswitch 5/8
- Megasat multiswitch 5/16
- Megasat multiswitch 9/8
- Megasat multiswitch 9/16
- Megasat multiswitch 17/8
- Megasat multiswitch 17/16

Megasat DiSEqC Switch 4/1



from 4 in / 1 out
up to 17 in / 16 out

Multifeed LNB



0,1dB
low noise



The Megasat Multifeed LNB has been especially designed for satellite Multifeed solutions. The extreme slim body and compact design of the LNB enables extreme narrow mounting in Satellite multifeed applications. Hence satellite positions down to 2° distance are possible.



Diavolo LNB

The Megasat Diavolo LNB characterizes superb performance under rough climatic conditions like extreme temperature, does not matter hot or cold. Therefore Megasat grants 5 Years warranty.

Single / Twin / Quad / Quattro / Octo



0,1dB
low noise



Monoblock LNBs Single / Twin / Quad



0,1dB
low noise



High Gain LNB

The perfect solution for weak sat-signals or small dishes. The Megasat High Gain LNB has an additional booster inside to power weak sat-signals, this gives best pictures also the signal is not strong. Profi quality for your leisure time.



70 dB
LNB Gain

0,1dB
low noise



SatCatcher Digipro C Max Professional

-
- *compares favorable to professional meters*
 - *comes with many useful accessories for the installer*
 - *easy to read screen even in direct sunlight*
 - *includes Tilt measurement for professional installations*



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Direct Contact to Sales Manager

An Accurate Instrument With Many Accessories



Accuracy is something that every installer will value with a signal meter but apart from that true professional users have

further demands on a meter: the instrument should have a bright and readable display, and its keyboard should be easy to oper-

ate. It should also offer a wide choice of accessories making the work simpler and more efficient. To our delight, the new Digipro C Max by Satcatcher fulfills all those requirements. Its display is exceptionally bright and clear, you can operate its keyboard even with gloves on your hands, and the number of accessories they offer to the professional user is really surprising.

The meter can be supplied packaged in two ways. In a metal box like other Satcatcher meters or in a premium package with lots of extras included. For our test we opted for the latter and were delighted at the many useful accessories. The most unusual and most useful for an installer is a fully adjustable vest with a lot of pockets and straps. It allows you not only to transport and use the meter in a convenient way but also to keep handy all sorts of other tools an installer must have. Apart for the vest, you get a plug type power supply, a car lighter DC charger, a neck strap with a piece of sheep skin fur to avoid skin irritation, and a bad weather cover for the meter along with an attachable sun shade. Everything is neatly packed in a carrying bag so you do not need to worry that your meter accessories will disappear somewhere over time.

The workmanship of the Digipro C Max is very good. The enclosure is robust but quite elegant at the same

time. Buttons are large and clearly labeled. The POWER button has an edging around it what guarantees that the meter will not switch on accidentally when pressed against a solid surface. The keyboard consists of a numeric keypad, quick access buttons, navigational arrows and 4 function keys F1 - F4. The function of these F1 - F4 buttons depends on the particular menu or screen you arrived at and is always explained at the bottom of the display window. Speaking of the display, it is one of the strongest points of this meter. This TFT LCD It is very bright and clear. You will be able to read it even outside in a very sunny day. There is also a loudspeaker embedded in the Digipro C Max Professional, giving off a significant sound volume.

The Digipro C-Max Professional lets you either use a pre-programmed channel band plan or you may choose to blindscan the whole bandwidth. The effort you put into the initial channel band plan programming will pay off in much quicker measurements. To create a band plan, you enter the Meter Config menu and select Edit Channel item. In this screen, you edit the channel name (most of the installers would probably use the standard channel designators like: S02, S28, K32), its kind (analog or digital), and a number of parameters as: frequencies, modulation, symbol rate, bandwidth. Of course there is a different set of



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**KU-Band
Antenna with
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Table 1. Digital TV signal measurement results

Signal	Power [dBμV]		MER [dB]	
	C-Max	Ref	C-Max	Ref
256QAM 474 MHz	87,1	87,7	38,8	36,7
64QAM 474 MHz	87,1	87,7	37,9	36,8
256QAM 674 MHz	82,5	83	39,4	35,6
64QAM 674 MHz	82,6	82,8	38,7	35,4

parameters for analog and for digital channel. In this way, you edit channel by channel and save them in the meter's memory. Such a list of the channels that are present in a given cable network is called a band plan of this network. Once you have created a correct band plan for the cable systems you are about to install and measure, you can enter the Auto Measure menu item and make the meter measure every channel from the list one by one.

However, it is also possible to scan an unknown network. In such case, the Digipro C-Max does a smart thing: it recognizes fully automatically all analog channels as well as the QAM modes and symbol rates for the digital DVB-C channels. For analog TV channels it shows the video and audio frequencies along with their signal levels and S/N ratio. The measurement results screen for a DVB-C signal is naturally more complex. You get not only signal frequency, QAM order, symbol rate, channel power, modulation error ratio (MER) and carrier-to-noise (C/N) readings but also a graphic representation of the constellation diagram. By pressing a button you can enlarge the diagram. This is perfect to assess the signal quality visually: the tighter the green dots' concentration in the center of the squares, the less noisy the signal is. Of course,

visual assessment is rather subjective and not very accurate, therefore there are MER and C/N readings that correspond to the quality of the digital signal.

Furthermore, the Digipro C-Max offers a spectrum view. It produces a clean picture of the frequency spectrum with adjustable span and amplitude. You can set the following frequency spans: FULL, 500, 200, 100, 50, 32, 16, and 8 MHz. Maximum amplitude can be set from 60 to 120 dBμV in 10 dBμV steps. Digipro C-Max creates a very readable spectrum picture. It does not take long to scan the whole bandwidth.

Even the best looking meter, and Digipro C-Max looks great indeed, would not be worth its price if its measurement results were improbable. Therefore, we compared the results produced by the Digipro C-Max with another high class reference meter. We are delighted to announce that the results were in perfect agreement. Please examine Table 1 and Table 2. Both for digital and analog TV signals, the channel power results were practically identical. Also the MER measurements were matching one another very well indeed. The only differences we noted in the S/N measurements, this, however, is common between different meter brands. That's because S/N measurements depend on the particular frequency a me-

Table 2. Analog TV signal measurement results

Signal	Power [dBμV]		S/N [dB]	
	C-Max	Ref	C-Max	Ref
Video 471,25 MHz	61,3	64,4	23,7	48,6
Audio 477,75 MHz	50,4	52		
Video 576,25 MHz	64	63,7	26,1	17,7
Audio 581,75 MHz	50,3	49,8		

ter takes as a noise reference level. As a result, S/N and C/N can be compared only if measured with the same meter model but not when measured with different models and makes. MER is a much better signal quality indicator as this value can be measured with different meters and you can expect similar results with any product. Our general conclusion: Digipro C-Max is a very accurate meter and you can fully rely on its signal strength and MER measurements.

A great highlight is another positive feature: the Digipro C-Max not only takes measurements but it can also play back digital channel video and audio. Once it locks to the signal, it searches the NIT table inside the transport stream and based on the informations found there, the meter displays a list of TV and radio channels. The last remaining step is to select the channel you want to watch and press a button. Of course, this works only for FTA channels as the meter does not have any CI slot or smart card reader and can not descramble PayTV channels. The Digipro C-Max does not display analog TV channels either but taking into account how fast the technology advances, analog channels will disappear from CATV networks anyway quite soon. So this is not something to care about.

Finally we come to a true-

■ **TELE-satellite expert Jacek Pawlowski wears the installer's vest from Satcatcher. The vest offers multiple pockets for the installer - and even matches the Digipro C-Max protective case' color!**







1. Main menu
2. Channel measure
3. Tilt measurement screen
4. DVB-C signal shown in spectrum view
5. Configuration menu
6. Band plans
7. One of the preprogrammed and plans
8. Editing a channel in a band plan
9. Options menu
10. Identifying digital TV signal chosen in the spectrum view
11. 256QAM constellation and signal measurement results
12. Closer examination of the constellation allows you to visually assess signal quality
13. Meter searches NIT in DVB-C signal to create a channel list
14. Channel list of the selected DVB-C carrier
15. Meter displays channel video like a small TV-set
16. A mix of analog and digital TV signal in a real cable network
17. Analog TV signals
18. Digital TV signals
19. Detecting the parameters of digital carrier

ly valuable function of the meter, which is so useful for the professional installer: the tilt measurement. Up to ten channels can be selected for this. Usually, you would select channels evenly distributed over the whole frequency range. Of course, the selected channels must carry a TV signal. You first measure those channels in the TILT Measure submenu somewhere in the beginning of the cable network, where all the signals are strong and relatively equal in amplitude. then you press the REF button to store those channels'

levels as reference. Then you move to various other points of the network and repeat this measurement. You will see the difference expressed in decibels between the reference level and the current level for every channel.

The tilt measurement allows you to quickly identify signal level differences over a specified frequency range. Then all you do is insert an attenuator or an equalizer in order to smoothen the differences according to the cable system's specifications. Thanks to this, you can



easily find out if the cabling along with the distribution equipment does not introduce excessive attenuation in particular parts of the cable TV frequency range.

We found the Digipro C Max to be a very mature meter, offering to the in-

staller all the features he needs to properly align a cable system. The accuracy of the meter matches our professional reference meters and the accessories made available by Satcatcher are an additional value to the installer.



TECHNICAL

DATA

Manufacturer	SatCatcher Ltd, Unit 7, Salvesen Way, Hull, East Yorkshire, HU3 4UQ, UNITED KINGDOM
Webpage	www.satcatcher.com
E-mail	sales@satcatcher.com
Tel	+44-1652-408191
Model	Digipro C Max
Function	Digital and analog cable TV meter
Input frequency range	46 MHz - 862 MHz for digital TV 46 MHz - 870 MHz for analog TV
Input signal level range	40dBuV - 110dBuV for digital TV 25dBuV - 120dBuV for analog TV
Accuracy of level measurement	2 dB for digital TV 1.5 dB for analog TV
DVB-C symbol rates	1 - 7 Ms/sec
Modulation	16/32 /64/128/256QAM
Digital TV standard	DVB-C/ITU-T J.83-ANNEX A/B/C
Channel bandwidth	4, 8, 20, 40 MHz, USA version: 6 instead of 8 MHz
Working time when fully charged	4 - 5 hours

Expert Opinion

Exceptionally accurate
Very bright and clear display
A lot of useful accessories
USB application available for editing band plan



Jacek Pawlowski
TELE-satellite
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Poland



none

HORIZON

For a reliable solution!

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.

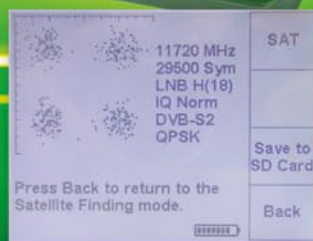
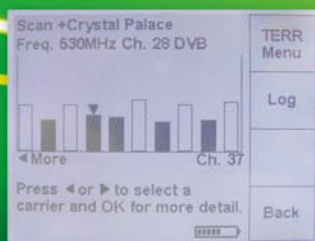
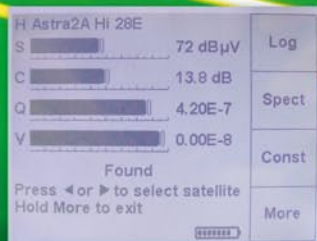
HD-STM

The latest addition to the award winning range from Horizon is a Combination DVB-S2 Satellite and DVB-T Terrestrial Meter offering a much needed solution for the requirements for both Home and Commercial installations.

The HD-STM is a lightweight, simple to use yet professional instrument for perfectly aligning satellite dishes and Digital antenna.



- Large 320 by 240 dot matrix screen
- Single replaceable F-Connector input for both Satellite and Terrestrial feeds
- Frequency Range Satellite: 950 to 2150 MHz covering C, Ka and Ku bands. Terrestrial: 46MHz-862MHz VHF 0-12 and UHF 21-69
- Connectivity interaction via USB to PC and SD memory card for cloning from Meter-to-Meter. Logging Reports or onscreen shots, compatible with MS Office
- Enhanced alphanumeric data logging for on-site planning of schedule and locations within a building, including before and after install
- Accurate Satellite Identification, Service list for identification of individual channels
- Multi-function display of Pre and Post BER/MER calculation, Signal Strength, C/N Quality, and Viterbi
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äußert hell und klar, so dass es im Freien selbst an einem sehr sonnigen Tag gut abgelesen werden kann. Auch an einen Lautsprecher mit ausreichend Volumen hat der Hersteller gedacht.

Das Digipro C Max Professional kann entweder mit einem vorprogrammierten Kanalbandplan verwendet werden oder man verlässt sich auf einen Blindscan der gesamten Empfangsbandbreite. Allerdings ist zu beachten, dass jene Mühe, die in die Erstellung eines grundlegenden Kanalbandplans gesteckt wird, sich später in Form von deutlich schnelleren Messungen vielfach bezahlt macht.

Um einen Bandplan zu erstellen wird das Menü des Messgerät aufgerufen und dort der Eintrag „Edit Channel Item“ gewählt. Hier gibt man nun den Namen des gewünschten Kanals (die meisten Anwender werden wohl Standardkanalbezeichnungen wie z.B. S02, S28, K32) verwenden, die Art des Bandes (analog oder digital) sowie eine Reihe von Parametern wie z.B. Frequenz, Modulation, Symbolrate oder Bandbreite an.

Selbstverständlich gibt es unterschiedliche Parameter für analoge und digitale Kanäle und so wird nun Kanal für Kanal eingegeben und im Speicher des Messgeräts abgelegt. Diese Liste an Kanälen, die im Netzwerk eines Anbieters vorhanden sind, wird schlussendlich als Bandplan bezeichnet. Sobald der Bandplan korrekt erstellt und eingegeben wurde, kann das Menü mit der automatischen Messung aufgerufen werden. Sogleich beginnt das Digipro C Max mit dem Einlesen der Frequenzen, eine nach der anderen.

Selbstverständlich ist es aber auch möglich, ein völlig unbekanntes Netzwerk zu scannen. In diesem Fall macht das SatCatcher Messgerät etwas sehr cleveres: Es erkennt automatisch alle

analoge Kanäle sowie die QAM Modi und Symbolraten der DVB-C Frequenzen. Bei Analogfrequenzen zeigt es die Audio- und Videofrequenz zusammen mit deren Signalpegel und S/N Verhältnis, während die Messergebnisanzeige eines digitalen Signals natürlich komplexer ausfällt. Nicht nur werden Signalfrequenz, QAM, Symbolrate, Signalstärke, Modulation Error Ratio (MER) und Carrier to Noise Wert (C/N) angezeigt, sondern auch eine grafische Aufbereitung der Werte – das Konstellationsdiagramm. Diese ist perfekt geeignet, um die Signalqualität optisch auf einen Blick beurteilen zu können. Je dichter die Konzentration der grünen Punkte im Zentrum der Quadrate, desto weniger verrauscht ist das Signal. Natürlich ist so eine optische Beurteilung eher subjektiv und nicht besonders genau, deshalb werden auch Zahlenwerte zu MER und C/N dargestellt, die der Qualität des Eingangssignals entsprechen.

Außerdem bietet das Digipro C Max eine Spektrumanzeige. Sie glänzt durch deutliche Anzeige des Frequenzbandes mit variabler Darstellung von Bandbreite und Amplitude. Folgende Bandbreiten sind einstellbar: Full, 500, 200, 100, 50, 32, 16 und 8 MHz. Die maximale Amplitude kann zwischen 60 und 120 dBµV in 10 dBµV Schritten festgelegt werden. Generell erzeugt das Messgerät ein sehr gut und deutlich lesbares Spektralbild und es dauert nicht lange, die gesamte Bandbreite einzulesen.

Selbst das optisch schönste Messgerät, und das Digipro C Max sieht wirklich gut aus, wäre sein Geld nicht wert, würde es ungenaue Messergebnisse liefern. Deshalb haben wir die mit ihm ermittelten Werte mit denen eines anderen high-end Profi-Messgeräts verglichen. Dabei hat es uns sehr gefreut feststellen zu können,

dass die Messergebnisse perfekt übereinstimmen. Die Details dazu finden Sie in Tabelle 1 und Tabelle 2.

Sowohl für analoge als auch digitale Signale waren die Pegelmessungen praktisch identisch und auch die MER Werte stimmten nahezu überein. Die einzigen Unterschiede zeigten sich bei der S/N Messung, was jedoch bei unterschiedlichen Messgeräteherstellern durchaus normal ist. Der technische Hintergrund hierfür liegt darin, dass die S/N Messung von der genauen Frequenz abhängt, die ein Messgerät als Referenzwert für das Rauschen annimmt. Daher können S/N und C/N Werte nur zwischen Messgeräten desselben Typs, aber nicht herstellero- oder produktübergreifend verglichen werden.

Ein viel zuverlässigerer Parameter für die Signalqualität ist die MER, sie kann mit unterschiedlichsten Messgeräten ermittelt werden und es können immer dieselben Resultate erwartet werden. Unsere generelle Zusammenfassung: Das Digipro C Max ist ein sehr präzises Messgerät, auf dessen Messergebnisse

man sich im Bereich MER und Signalpegel absolut verlassen kann.

Ein besonderes Highlight ist noch ein zusätzliches Feature des neuen SatCatcher Messgeräts: Das Digipro C-Max kann nicht nur Signalpegel und Parameter messen, sondern auch digitales Audio und Video eines Kanals wiedergeben. Hat es erstmal ein Signal gefunden, so liest es die NIT des Transportstreams aus und stellt die gefundenen TV- und Radioprogramme dar. Nun muss der Anwender den gewünschten Sender nur noch auswählen und auf eine Taste drücken.

Selbstverständlich funktioniert die Darstellung nur mit FTA Sendern, da das Messgerät über keinen CI Slot oder Kartenleser verfügt und daher verschlüsselte Programme nicht sichtbar machen kann. Analoge Signale können ebenfalls nicht angezeigt werden, bedenkt man aber wie rasch sich die Technik weiterentwickelt, so werden analoge Programme demnächst sowieso vollständig aus den Kabelnetzen verschwunden sein, so dass dieser Punkt vernachlässigt werden kann.

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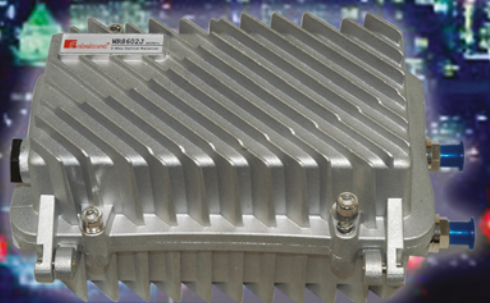
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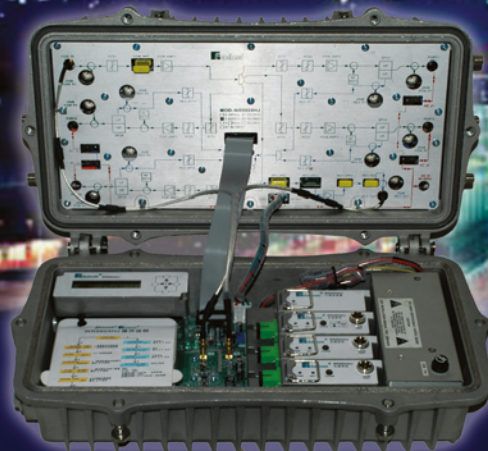
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Huber+Suhner CLIK! Splitter Boxes 1x2 and 1x4



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- *distributes the full satellite signal*
- *easy configuration of taps and splitters*
- *the most easiest part is the "click" of the cable into the taps and splitters*
- *gives all connected receivers a perfect signal*

Even Simpler to Use Than Regular RF Splitters



Digital TV signal distribution is more and more often based on fiber optics. Among the most important advantages of such solutions are: extremely low signal losses in fiber optic cables and wide frequency bandwidth. The latter feature makes it possible to distribute the whole Ku-Band in one band without the need to select polarization or low/high sub-band. There are already LNBs with optical output available on the market, as well as complementary optic to RF converters (re-modulators) - see the many reports on this subject in previous TELE-satellite issues. Fiber optic cables have been in use for many years now. The last components you must use to build a fiber optic satellite TV signal distribution network are optical splitter. And this test report is just about them.

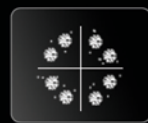
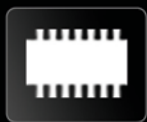
The function of an optical fiber splitter is analogous to a familiar RF splitter. Most of them direct part of the incoming signal to the "tap" output where the terminal device is connected and the other part to the "trunk" output to which the remaining part of the cable network is connected. There are also splitters that divide evenly the input into two, four or more outputs. Depending on the network structure and the splitter position in the network, we need splitters with different split ratios. Huber+Suhner have various models in their portfolio. For this report, we have received optical splitters with the following split ratios: a four output model (1x4) with 25%-25%-25%-25% ratio,

and a number of two output models (1x2) with the following ratios: 50%-50%, 30%-70%, 20%-80% and 10%-90%.

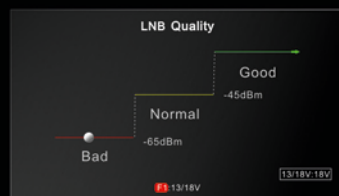
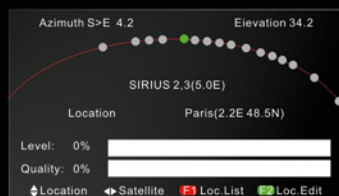
Apart from the splitters, Huber+Suhner offered us a selection of their excellent fiber optic cables and connectors, so that we were able to build a small network using only their components. All components were perfectly finished off and the splitters were clearly labeled. You will not have any doubt how to hook them up. In contrast to the RF stuff with F type connectors, you do not have to hurt your fingertips when connecting everything together in fiber optic installations. Just a delicate push, you hear a click and a fiber optic cable is connected to a splitter. Now you may guess why Huber+Suhner branded their new system CLICK!

TELE-satellite readers more familiar with insertion losses expressed in decibels rather than the signal power percentage description of the splitter outputs may at first feel slightly uncomfortable. But take it easy. One corresponds precisely to the other. We can easily convert original percentage values to familiar "tap loss" and trunk "loss figures" in decibels - see the table.

We spent some time wondering what to measure to make our test results as practical for our readers as possible. We decided to measure rather the RF signal that will be fed to the receiver IF input than optical signal before and after a fiber optic splitter. In this way, you have a good idea what you can expect from



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Constellation Chart

LNB Test MDU & Unicable

BER, S/N(MER),FEC Measurement

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Li-ion Battery(2350mAH), last 6 hours, Fast Charge(2 to 3 hours)

Accessories: Adaptor,Car Charger,upgrading cable,AV cable,

Water-Proof Bag,Compass,User Manual

Size:162x100x42(mm) Weight: 0.45kg

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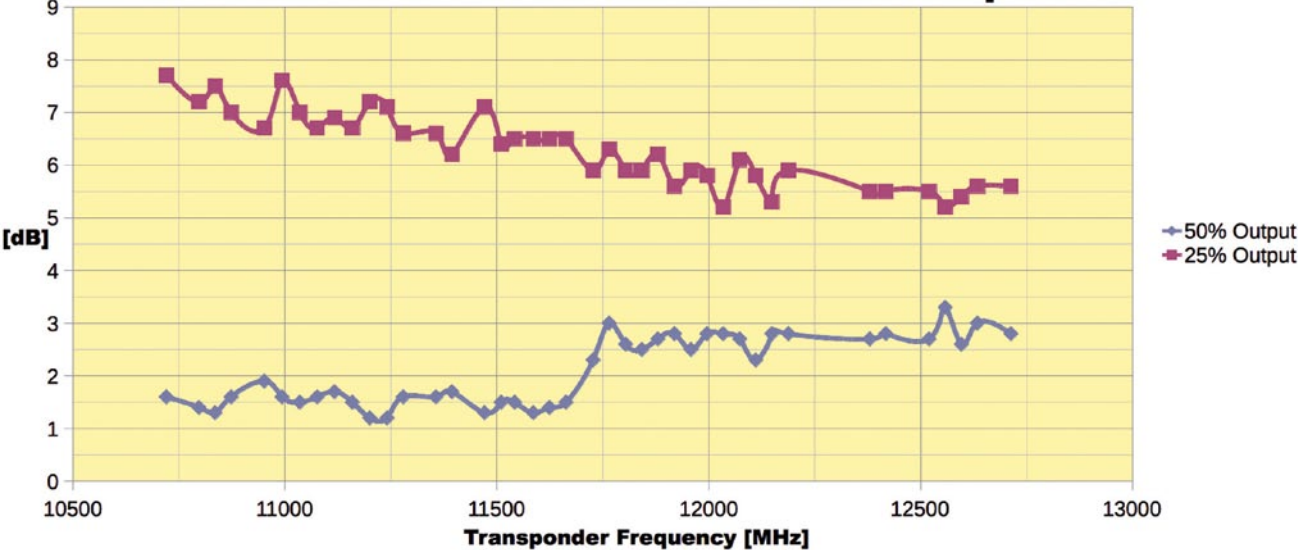
the whole system in which Huber+Suhner CLIK! Splitter Box is used. Our test system included: 90cm dish aimed at HOTBIRD satellite on 13° E, an optical LNB, optic fiber cable, optic splitter and optic-to-RF signal converter (re-modulator) that was delivering the IF signal suitable for a satellite receiver. The optical LNB generated light in the 1310 nm band. The light carrier was modulated with 0.95-5.45 GHz RF signal which was Ku-Band low and high sub bands of both polarizations stacked one over

the other. We tested 5 CLIK! Splitter Box models. The table below presents the insertion losses specified in manufacturer data. You can see the results in the attached graphs. Please mind that on top of the optic splitter losses, there are losses caused by nonlinear transfer function of the optic-to-RF signal converter. Because of that, the losses for 10, 20 and 30% outputs may appear slightly higher than specified for certain frequencies. This is due to

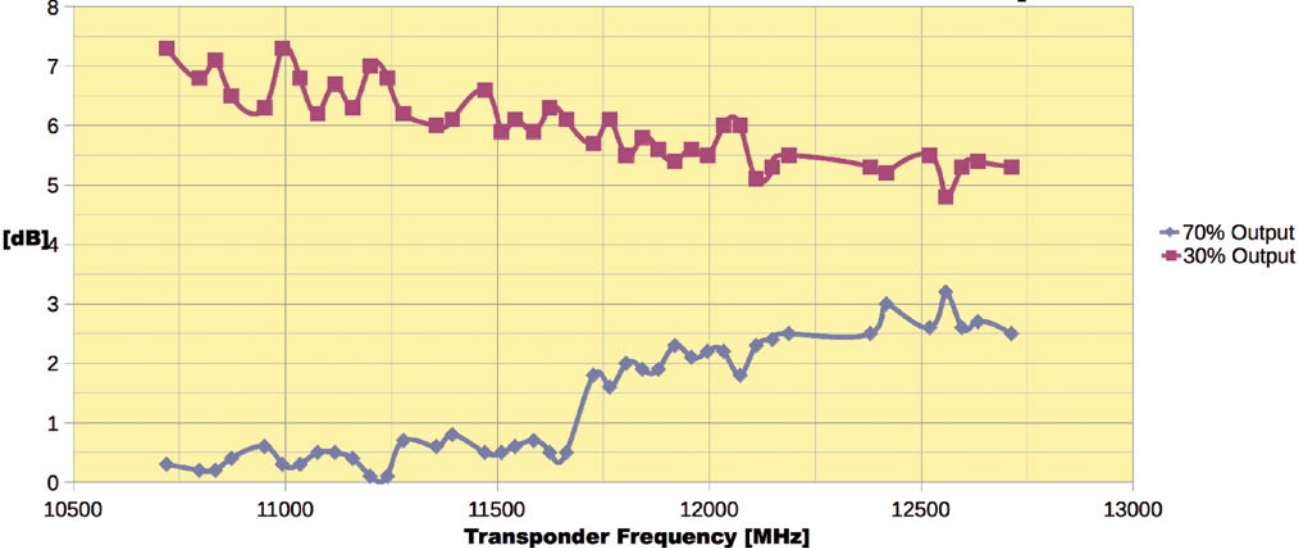


Splitting ratio	%	2 x 50	30/70	20/80	10/90	4 x 25
Maximum Insertion loss	dB	3.8 each	6.3/2.1	8.4/1.4	12.0/0.8	7.7 each

Insertion Losses of 1x4 and 1x2 50/50 Splitters



Insertion Losses of 1x2 30/70 Splitter





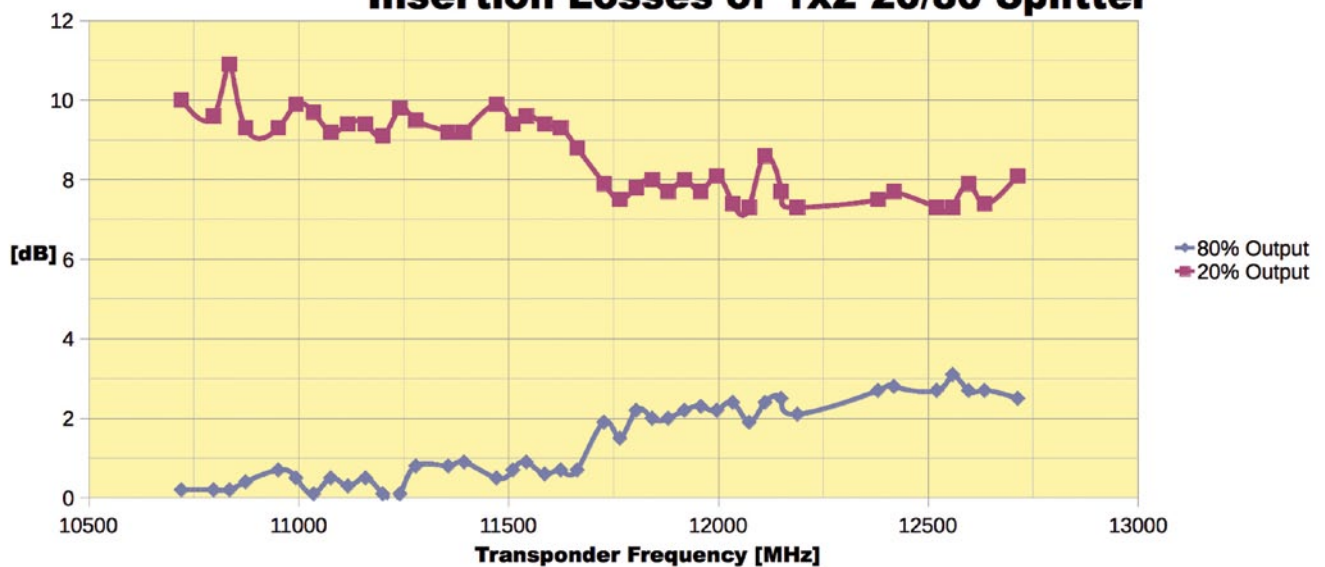
non ideal optic-to-RF conversion - not because of optic splitters imperfections.

We also measured the noise performance and we are happy to inform you that in line with theory, optic fiber cable and optic splitters practically do not add any noise. No matter what output we tested: 90% or 10% MER or C/N readings were at maximum (MER was above 14 dB). This means that your receiver connected to such network would also show very high quality readings (close to 100%).

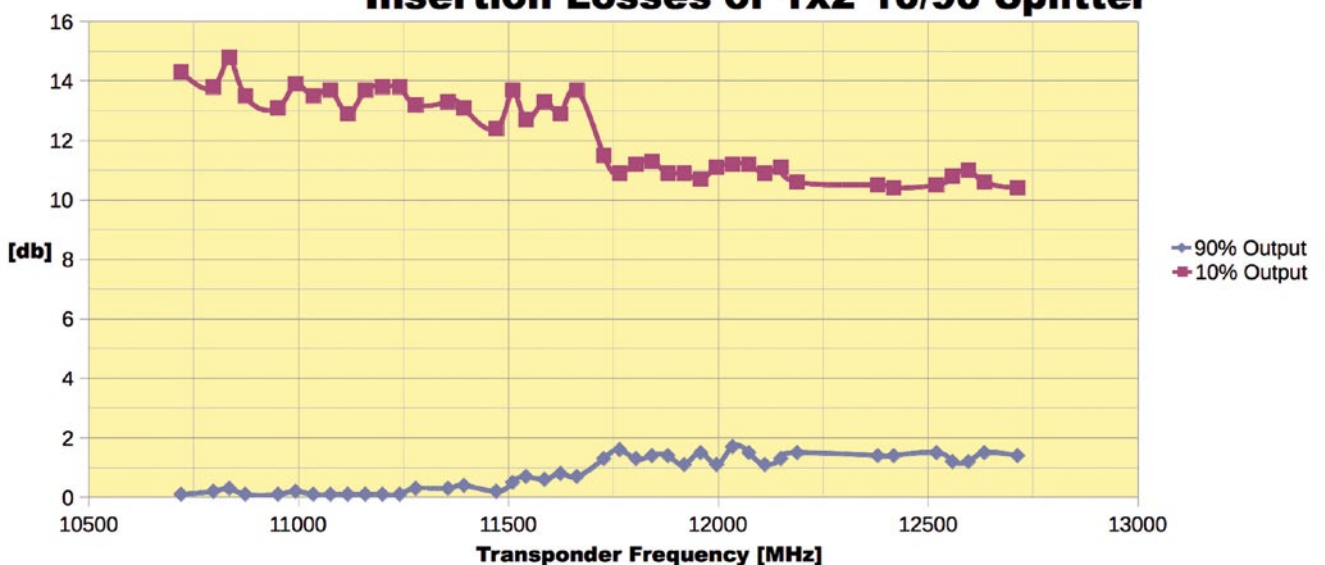
Using a proper combination of Huber+Suhner CLIK! Splitter Boxes, you can easily build a distribution net-

work with even 36 optic outputs provided that your optic LNB generates about 7 dBm of output power what is a quite typical value. Such configuration consists of one 1x4 splitter which splits the LNB output to four optic fiber cables. On every fiber optic cable, eight 1x2 splitters are installed: four 10/90, two 20/80, one 30/70 and one 50/50. In such configuration, you get the output levels from -10.7 dBm through -13.2 dBm. This is quite a sufficient level for an optic-to-RF converter. Now, if your optic-to-RF converters are of quad types, you will be able to connect not 36 but 144 regular satellite receivers!

Insertion Losses of 1x2 20/80 Splitter



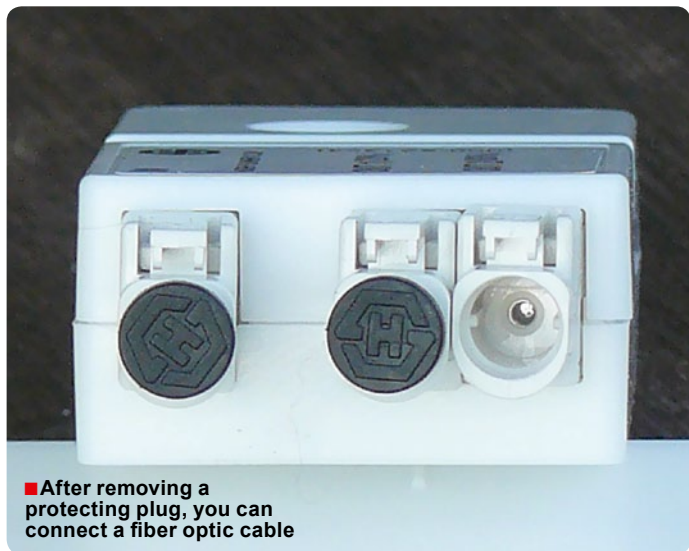
Insertion Losses of 1x2 10/90 Splitter



After taking our measurements, we can honestly confirm that this is not just theoretical possibility but something that can be realized in real world. Time has indeed come to focus and switch to the fiber optical world.



■ A small selection of many accessories available from Huber Suhner



■ After removing a protecting plug, you can connect a fiber optic cable



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HUBER+SUHNER

Fiber Optic Cables and Distribution, Switzerland www.hubersuhner.com



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TECHNICAL DATA

Manufacturer	HUBER+SUHNER AG, Fiber Optics Division Degersheimerstrasse 14, 9100 Herisau/Switzerland
Telephone	+41 71 353 4111
Fax	+41 71 353 4647
Email	info@hubersuhner.com
Web	www.hubersuhner.com
Model	CLIK! Splitter Box
Description	Optic splitter
Operating wavelength	1310 nm and 1550 nm
Operating bandwidth	+/- 40 nm
Power handling	500 mW for 1x2 and 300 mW for 1x4 models
Operating temperature	- 40 to +85° C
Fiber type	Corning SMF-28e XB

Expert Opinion



Very good workmanship – everything fits perfectly
Very easy installation
Loss insertion agrees well with manufacturer specification



None



Jacek Pawlowski
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HDSF 006



HSF 005

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HDSR 620
HD DVB-S2



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Huber+Suhner CLIK! Splitter Boxen 1x2 und 1x4

- Verteilt das vollständige Satellitensignal
- Einfache Konfiguration von Verteilern und Abzweigern
- Das „Einklicken“ der Kabel in die Verteiler und Abzweiger macht den Aufbau besonders einfach
- Stellt allen angeschlossenen Receivern ein perfektes Signal zur Verfügung

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Zur Verteilung digitaler TV-Signale setzt man heute immer mehr auf optische Übertragungswege. Die zwei wichtigsten Vorteile dieser Technik sind der äußerst geringe Signalverlust und die hohe Frequenzbandbreite. Letztere ermöglicht es z.B. das gesamte KU-Band über eine Leitung zu übertragen, ohne auf Hilfsmittel wie Polarisation oder low/high Unterbänder zurückgreifen zu müssen.

Mittlerweile sind bereits optische LNBs am Markt erhältlich, ebenso aber auch entsprechende Konverter, die das optische Signale wieder in ein RF-Signal umwandeln – lesen Sie dazu bitte

die verschiedenen Testberichte in vergangenen Ausgaben der TELE-satellite.

Die Funktion eines optischen Verteilers entspricht im Prinzip der eines gewöhnlichen RF-Verteilers. Die meisten von ihnen leiten einen Teil des Eingangssignals zum Abzweig-Ausgang weiter, mit dem dann ein abschließendes Gerät verbunden wird, der Rest geht zum Stammleitungs-Ausgang, mit dem das weiterführende Kabelnetzwerk verbunden wird.

Weiters gibt es Verteiler, die das Eingangssignal gleichmäßig in zwei, vier oder mehr Ausgänge aufteilen. Abhängig von

der Verkabelungsstruktur und der Position des Verteilers innerhalb dieser Verkabelung benötigen wir also Verteiler mit unterschiedlichen Verteilungsmustern.

Aus genau diesem Grund bietet die Firma Huber + Suhner verschiedene Modelle in deren Produktportfolio an. Zum Erstellen dieses Testberichts wurden uns zur Verfügung gestellt: Ein Modell mit 4 Ausgängen und einem Verteilungsmuster von 25%-25%-25%-25% sowie eine Reihe von Abzweigern mit 2 Ausgängen und folgenden Verteilungsmustern: 50%-50%, 30%-70%, 20%-80% sowie 10%-90%.



Zusätzlich hat uns Huber + Suhner eine Auswahl von deren exzellenten optischen Kabeln und Steckverbindern bereitgestellt, so dass wir ein kleines Netzwerk, nur bestehend aus deren Komponenten, aufbauen konnten.

Die Verarbeitungsqualität aller Bauteile war hervorragend, ebenso wie sich uns die Verteiler vorbildlich beschriftet präsentierten. So kamen keine Zweifel auf, wie die Komponenten miteinander

der zu verbinden sind.

Im Gegensatz zu einer RF-Verkabelung mit F-Steckern besteht bei einem optischen System keine Gefahr, sich die Fingerkuppen zu verletzen. Ein kurzer Druck, danach ein sattes Klick und schon ist das optische Kabel mit dem Verteiler verbunden. Dreimal dürfen Sie jetzt raten welchen Markennamen Huber + Suhrner ihrem optischen Verteilsystem gegeben hat – Richtig: CLIK!

Denjenigen von Ihnen, die eher gewohnt sind mit Signalverlustangaben in Dezibel als mit Prozentangaben des Signalpegels an den jeweiligen Ausgängen umzugehen, wird das Ganze auf den ersten Blick vielleicht nicht behaglich sein, aber nehmen Sie es locker: Das eine entspricht exakt dem anderen! Problemlos können wir die Prozentangaben in die bekannten Anschlußverluste und Abzweigverluste (ausgedrückt in dB) umrechnen (siehe Tabelle).

Einige Zeit haben wir überlegt, welche Werte wir für diesen Testbericht einer genauen Messung unterziehen sollten, damit die Ergebnisse für Sie, unsere Leser, möglichst praxisnahe sind. Schlussendlich einigten wir uns auf eine Messung des RF-Signals, das am Tuner des Receivers ankommt, anstatt das optische Signal vor und nach dem Verteiler unter die Lupe zu nehmen. So haben Sie nämlich eine gute Vorstellung davon, was Sie von einem Verteilungssystem erwarten können, in dem die Verteilerboxen von Huber + Suhrner zum Einsatz kommen.

Unser Testsystem beinhaltet eine auf den HOTBIRD 13° Ost ausgegerichtete 90cm Antenne, ein optisches LNB, eine Lichtleiterverkabelung, optische Verteiler und Abzweiger sowie einen Optisch/RF-Konverter (Re-Modulator), der das passende ZF-Signal für unseren Satellitenreceiver bereitstellt.

Das optische LNB erzeugte einen Lichtstrahl im 1310 nm Band, der auf ein RF-Signal im Bereich 0.95 – 5.45 GHz moduliert wurde, so dass das gesamte KU-Band (low&high Band) sowie beide Polarisierungen in Form mehrerer Blöcke gestapelt, einer über dem anderen, übertragen werden konnten.

Insgesamt haben wir 5 Verteiler-Boxen getestet, die untenstehende Tabelle gibt die Durchgangsdämpfung laut Daten des Herstellers an.

Die Detailergebnisse unserer Messungen können Sie den jeweiligen Diagrammen entnehmen, bedenken Sie aber bitte, dass neben dem Signalverlust durch den optischen Verteiler auch noch ein anderer Störfaktor in Form von Signalverlusten durch die nonlineare Transferfunktion des Optisch/RF-Konverters hinzukommt. Aus diesem Grund erscheinen die Signalverluste für die 10, 20 und 30% Ausgänge etwas höher als für die jeweilige Frequenz vorgegeben. Diese Verluste haben ihre Ursache aber in einer nicht idealen Optisch/RF-Umwandlung und sind nicht bedingt durch die optischen Splitter.

Selbstverständlich haben wir auch das Rauschmaß gemessen und freu-

en uns Ihnen mitteilen zu können, dass optische Verteiler und Lichtleiterkabel, so wie es die Theorie vorgibt, praktisch kein Rauschen hinzufügen. Egal welchen Ausgang wir getestet haben, ob 90% oder 10%, die MER oder C/N Werte waren stets am Maximum (die MER war über 14 dB). Dies bedeutet, dass ein Receiver, der mit einem solchen Signalverteilungsnetzwerk verbunden ist, auch hervorragende Qualitätswerte anzeigen würde (nahe 100%).

Bringt man eine passende Kombination von Splitttern aus dem Hause Huber + Suhrner zum Einsatz, so lässt sich mühelos ein optisches Netzwerk mit 36 optischen Ausgängen realisieren.

Vorausgesetzt ist allerdings, dass das optische LNB ein Ausgangssignal mit einer Leistung von 7 dBm (ein durchaus typischer Wert) generiert. Eine solche Kombination würde aus einem 1x4 Verteiler bestehen, der das Ausgangssignal des LNB

auf vier Lichtleiter verteilt. An jede dieser Leitungen kämen nun acht 1x2 Abzweiger: 4 Stück zu 10/90, zwei zu 20/80, einer zu 30/70 und einer zu 50/50. Auf diese Weise würden Sie Ausgangsspiegel im Bereich zwischen -10.7 dBm und -13.2 dBm erhalten, was einem wirklich ausreichenden Wert für einen Optisch/RF-Konverter entspricht.

Wären Ihre Optisch/RF-Konverter jetzt auch noch Quad Modelle, so könnten Sie nicht bloß 36 sondern 144 gewöhnliche Satellitenreceiver daran anschließen! Nachdem wir die Werte aller Komponenten eingehend gemessen und untersucht haben, können wir mit gutem Gewissen bestätigen, dass dies nicht nur eine theoretische Möglichkeit ist, sondern auch in der Praxis umgesetzt werden kann. Die Zeit ist nun wohl endgültig reif, um die optische Signalübertragung ins Auge zu fassen und auf ein solches System umzusteigen.

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CLIK!
Splitter Boxes
1x2 and 1x4

- distributes the full satellite signal
- easy configuration of taps and splitters
- the most easiest part is the "click" of the cable into the taps and splitters
- gives all connected receivers a perfect signal

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Elgato Tivizen Mobile DVB-T At Home



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- *Transmits DVB-T via WiFi*
- *Quick installation*
- *Exceptional reception capabilities*
- *PVR function possible*



Live TV



Recordings



Settings



MAC TV

Wireless terrestrial reception at home on your mobile phone, tablet or desktop PC

Thomas Haring

Modern SmartPhones are actually portable pocket mini computers that have become incredibly powerful. And this is the perfect reason for the designers at the company Elgato to take the products from Apple and put their power to use in such a way that users can watch TV on their SmartPhones: the Elgato Tivizen makes it possible to receive DVB-T on the Apple iPhone, iPad or the iPod Touch.

But the question is how do the DVB-T signals get to the SmartPhone? Bluetooth? Unfortunately, it's

way to slow. A USB 2.0 connection? Yes, it would be fast enough but who wants to deal with a tangled web of cables? There's only one other way: WiFi, and that's exactly what Elgato decided to use.

The Elgato box is roughly twice the size of a cigarette lighter (92 x 52 x 12mm) and weighs just about 68g including the rechargeable battery. The elegant front and back reflective covers are in perfect harmony with the silver stripe that runs around the outside of the Tivizen. It's easy to recog-



nize the similarities to the Apple iPhone, but then, why not?

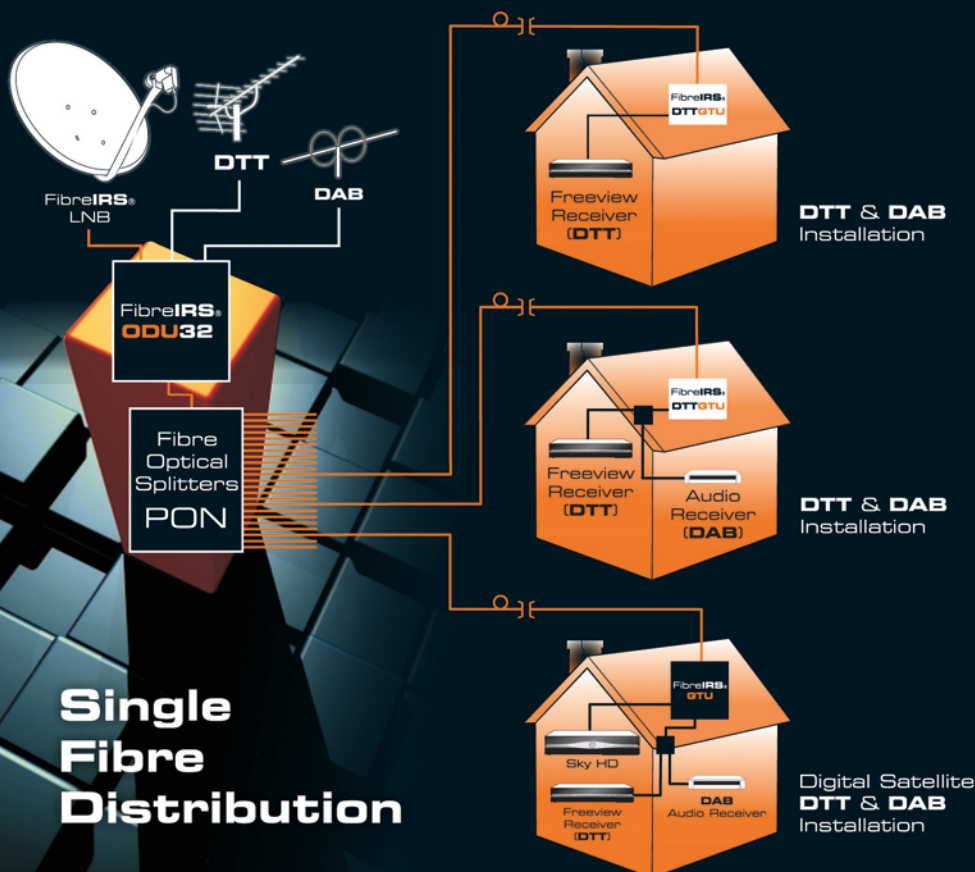
On the underside of the Tivizen can be found a mini USB port hidden behind a small cap which can be used to recharge the internal battery. This also means that you can use any PC or MAC to power the Tivizen through this port. You can even power it in a car or RV using a USB car charger.

Unlike the mini USB cable which is included in the package, a USB power supply is not included. During our tests we were able to determine that a fully



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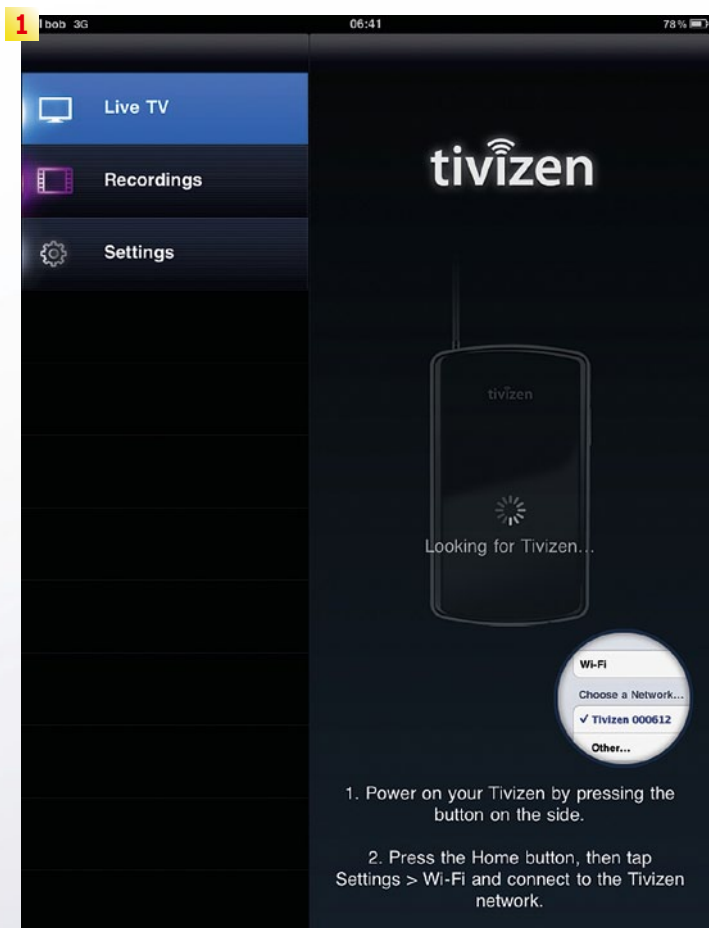


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- Compatible with all DTT/Freeview™ STBs
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- Can be easily expanded to **256** points
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*Compared with existing Fibre Systems

**Single
Fibre
Distribution**





charged battery could provide up to 210 minutes of uninterrupted TV enjoyment and since the battery can easily be swapped out, TV-aholics can simply carry a spare with them.

On the right side is a single button that turns the Tivizen on and off. Right next to this button is a small hole inside which is a recessed reset button; sticking a paperclip into this hole will reset the Tivizen to factory settings.

Momentarily pressing the button on the right side lights up two of the three LEDs (TV operation and charging status/battery capacity) on the top of the Tivizen. The third LED indicates the existence of a WiFi network.

It doesn't matter how strong the DVB-T signals are, the hidden telescopic antenna in the top left side of the Tivizen should be pulled out. When it is fully extended it is 16cm long. The hinge at the bottom of the antenna lets you adjust it 360° for best possible reception. We were

a little concerned that the telescopic antenna is thinnest at the bottom where it connects to the Tivizen box and fattest at the top of the antenna unlike a typical antenna where it would be thickest at the bottom and gets thinner towards the top.

The only thing still missing is the software. For the iPhone, iPad or the iPod Touch, the correct software can be downloaded free of charge from the iTunes App Store. But Elgato didn't forget the owners of PCs or MACs; the necessary download information is included with the Tivizen as well as the required license codes for EyeTV (Mac) and TerraTec Home Cinema (MS Windows).

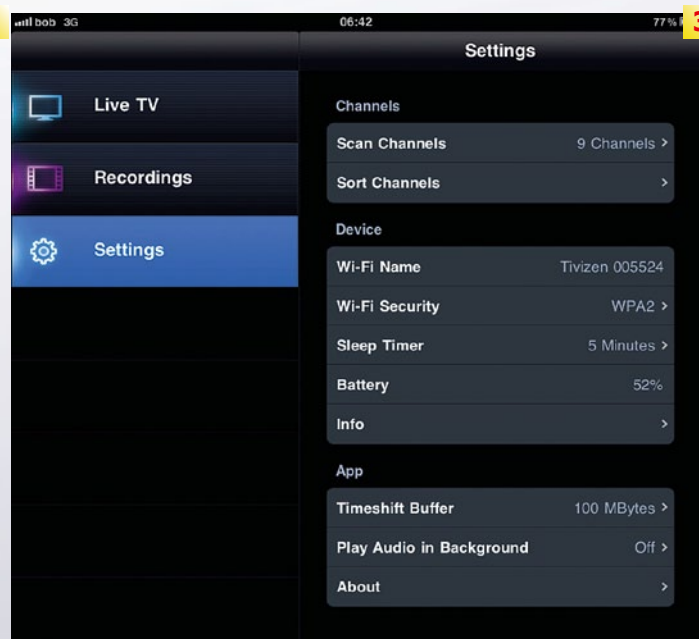
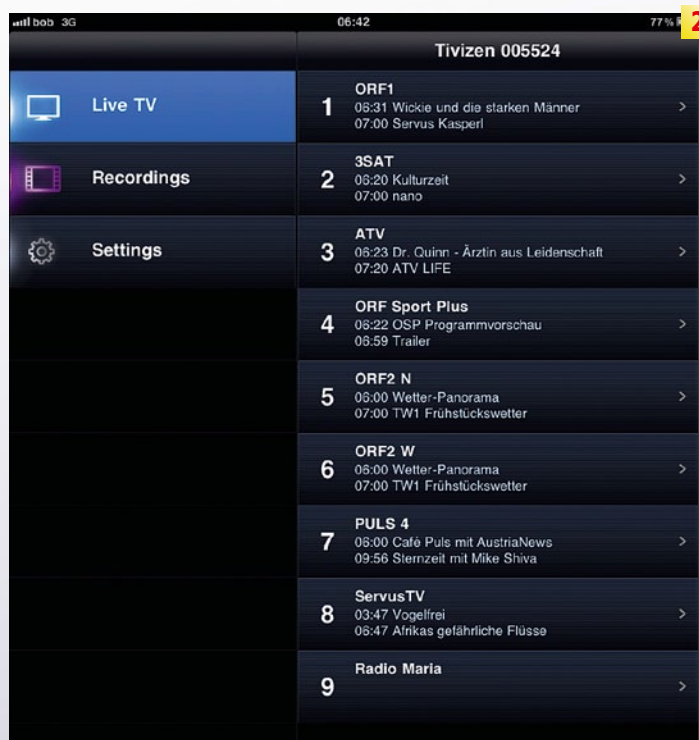
We appreciated the fact that after starting the App precise information was given on how a connection between the Tivizen and the iPhone, iPad or iPod Touch is created. The manufacturer also provided short but detailed notes on the operation of the DVB-T receiver. This information can also be found on the packaging.

To create a connection the settings menu in the iPhone, iPad or iPod Touch needs to be accessed and a search for new WiFi networks started. As long as the Tivizen is turned on the network will appear as its own entry and therefore can easily be selected. To clarify once again: the communication between the iPhone, iPad or iPod Touch and the Tivizen is made possible through the set up of a WiFi network that is operated by the Tivizen. It comes delivered from the factory without the need to enter a keyword.

By double-pushing the Home button, the iPhone, iPad or iPod Touch displays a list of currently running Apps at the bottom of the



■ Contents of the package: Tivizen DVB-T receiver, USB cable, software download card and instructions



1. The Tivizen App Start Screen
2. The Tivizen App's Main Menu with the channel list entries on the right side.
3. Multiple settings can be easily handled through the App.
4. Sorting the available channels
5. The time shift buffer memory size can be increase or decreased as needed.
6. Thanks to its multitasking capabilities, the App can play the current channel along with its audio in the background while another app is active.

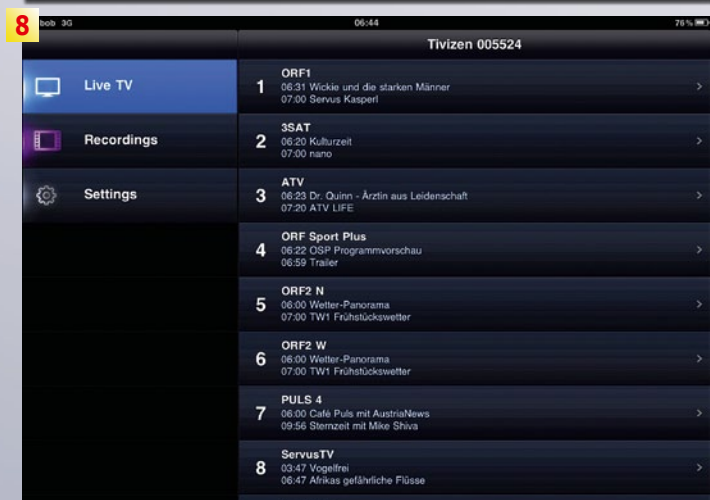
screen; this allows the user to quickly access the Tivizen App to set up a WiFi connection. This is supported by the iPhone 4, the iPhone 3GS, the iPad as well as the iPad 2 and also the third and fourth generations of the iPod Touch. On the software side, the iOS version 4.2 or newer must be installed.

If the Tivizen App is being started for the first time, it will ask the user to select a location. The user can choose from Australia, Austria, Belgium, China, Croatia, The Czech Republic, Denmark, Finland, France, Germany, Greece, Great Britain, Hong Kong, Hungary, Iceland, India, Indonesia, Ireland, Italy, Luxembourg, Macau, Malaysia, New Zealand, The Netherlands, Norway, Portugal, The Russian Federation, San Marino, Singapore, Slovakia, Slovenia, Spain,

South Africa, Sweden, Switzerland, Thailand, Turkey, Ukraine as well as the United Arab Emirates.

After pushing the Channel Scan button, the Tivizen will perform a search across the entire frequency spectrum for any receivable signals. In our tests this scan was completed in about 80 seconds on an iPad 2 or iPhone 4 whereby it found every useable DVB-T frequency and stored them completely and correctly. The ability to perform a manual scan of individual frequencies was unfortunately not included in the App by the manufacturer.

Immediately after the scan is completed, the Tivizen App switches over to the channel list and displays all of the channels that were found. We especially liked the display



of the current and upcoming programs for each of the channels; of course, this would only be possible if this information is made available by the provider.

After briefly pressing the desired channel the App begins playing it back after a short delay of about four seconds. A detailed Info bar is blended in at the bottom of the screen that contains current EPG information for the current and upcoming programs as well as a pair of bar graphs that show the signal strength of the current DVB-T channel as well as the battery level of the Tivizen. If you tap your finger anywhere in the vicinity of the TV signal, a control screen is displayed that can be used to either stop or record the current channel.

If you're scratching your head right now, let us explain: the Tivizen App can store the currently running program in the internal memory of the iPhone, iPad or iPod Touch. There's even a Time Shift function available as well as fast-forward and rewind functions. It makes sense now why the App's Main Menu included a Recordings button in addition to Live TV and Settings buttons. The Recordings button let's you play back previously stored content. Since the Tivizen App uses the widely distributed MPEG format for recordings, there is nearly an unlimited number of editing tools available for you to use. As you can see, the Tivizen in connection with an iPhone, iPad or iPod Touch gives you a complete DVB-T receiver including PVR which you can just carry around in your pocket!

The manufacturer even included the ability to con-

tinue to play the audio of the current channel in the background if the user should start another App in the foreground. This is one way to pass the time during those long commercial breaks. Once the interruption is over, the user simply needs to double-push the Home button to jump right back in to watching DVB-T TV.

The Tivizen ran effortlessly throughout our entire testing process; there were no crashes or other errors to be seen. TV playback flowed smoothly without any pixilation or other interference in the picture and that's not surprising at all considering that the Tivizen uses a powerful ARM 9 RISC processor. We were a little disappointed to find out that the Tivizen in connection with the iPhone, iPad or iPod Touch does not support HD content in MPEG-4 or H.264 via DVB-T; even DVB-T2 is not supported.

On the reception side of things, the Tivizen covers the entire VHF and UHF frequency ranges, that is, from 177.5 to 226.5 MHz (VHF) and 474 to 858 MHz (UHF). The COFDM demodulator supports 16 QAM, 64 QAM and QPSK with bandwidths of 6, 7 and 8 MHz. The integrated telescopic antenna works quite well and easily measures up to active DVB-T room antennas. To test its capabilities, we attempted to latch onto the DVB-T channels from The Czech Republic. We were located about 40km from the border and as you can see by the screenshots that accompany this test report, we managed to accomplish this without any problems at all.

Since we are dealing with a universal App for the iPhone, iPad and iPod Touch, it needs to be downloaded only once; it can then be used on all three of these devices. We also

7. Channel Scan

8. The Tivizen App can be used with the iPad in either horizontal or vertical modes.

9. DVB-T playback

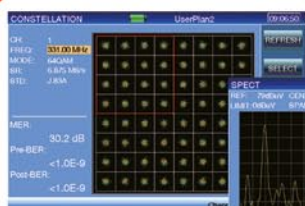
S20 ✓ Satellite Finder

- C, Ku, Ka or L band
- SNR and BER
- Spectrum function
- Signal level and quality display together
- 128×64 dot matrix LCD with back-lighted
- Large lithium battery capacity, over 4 hours working time
- Software upgrade and parameter set via USB interface



S7000 ✓ TV Analyzer

- DVB-C, 8VSB(J.83A/B/C/D), DVB-T/H, DVB-S/S2
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- IPTV analysis option
- HDMI, LAN and USB interface
- Easy to use
- High resolution 7" TFT LCD
- L240×H170×D100, light weight.
- working time >4 hours (battery)



DVB-C Constellation



Spectrum



TV Monitor



DVB-T/H



liked that Elgato matched the App perfectly to all the different display sizes. The huge advantage of the iPad for a better overview was cleverly put to use.

If it's a MacBook that you have, it would be practical to be able to also use this device with the Tivizen. For this purpose Elgato has made version 3.0 of their own EyeTV software suite for Mac available to download for free. On the hardware side, EyeTV requires a minimum of a Mac with Intel CPU as well as Mac OS X 10.5.8. The software itself can be installed with just a few mouse clicks and the necessary activation code is included with the Tivizen. To create a connection with the Tivizen, the WiFi function of the MacBook needs to be used; the necessary settings can be found in the Mac OS X System Settings under the Network icon. And just like the iPhone, iPad and iPod Touch, the MacBook also recognizes the Tivizen as a WiFi hotspot and builds a connection using this transmission path.

Unfortunately, if your MacBook is connected to the Internet via WiFi, you have to make a choice: it's either a WiFi connection to the router for Internet access or a WiFi connection to the Tivizen for DVB-T reception; it cannot be both at the same time. Here it would have been nice if the USB port on the Tivizen could also have been used for data instead of just for recharging the battery.

So, what's the story with

Windows? Just like with the Mac, if you're using a PC, you also have to set up a WiFi connection to the Tivizen. If you take a look at the available networks, you'll see that the Tivizen is recognized as a WiFi hotspot.

After just a few mouse clicks the wireless connection is established. Unfortunately, the same situation exists here in that the Tivizen takes over the WiFi interface and that a simultaneous wireless Internet connection is not possible.

After the TerraTec Home Cinema Software has been downloaded from the Elgato website and then installed and activated using the included product key, it automatically switches over to scan mode and asks the user for a valid channel list. It should be mentioned at this point that in order to use TerraTec Home Cinema, you'd need an MS Windows 7 PC (32 or 64 bit) with at least a 2.0 GHz Intel or AMD processor or Intel Atom CPU (for HD content an Intel Core2Duo CPU) as well as a minimum of 1GB of RAM. The scan process was completed in just about 64 seconds after which the names of all the available DVB-T channels at our location appeared in the channel list.

We were quite surprised to see during our tests that the time the TerraTec Home Cinema needed to switch between channels was around 2-3 seconds; this was nearly twice as fast compared to Elgato's own EyeTV Mac software. We're not sure why there was such a large difference in times but we were nevertheless satisfied to see that a 2-3 second hardware-based channel switching time was possible. Elgato will almost certainly offer an update for EyeTV in the near future in which this difference will be addressed.

10. Changing channels during TV playback.

11. Even the desired audio track can be selected.

12. Recorded programs that include the programs description can be played back at any time.

13. The Czech TV channel CT2 was received effortlessly at a distance of over 40km from the Czech border.

Intelsat / GVF Type Approved

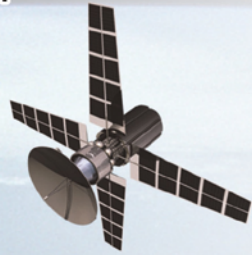
■ Original designer of patented rolled edge reflector

■ Production capacity(≥ 1 Million units per month)

■ High performance

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1

eyetv

Mi., 15. Jun 15:00

LIBRARY

- Recordings
- Schedules
- Channels
- Program Guide

SHARED

SMART GUIDES

PLAYLISTS

- Past Week
- Recording Now
- Exporting

CHANNELS

1	ORF1	14:45	15:10	Gilmore Girls	Das Ber	94/109, Sprung ins Ungewisse
2	3SAT	14:50	Gipfel der Genüsse	15:30	Gipfel der Genüsse	2/4, Das Matragebirge in N
3	ATV	15:00	Dr. Quinn - Ärztin aus Leidenschaft	17/28, Im Namen der Freiheit		
4	ORF Sport Plus	07:00	OSP Programmübersicht			
5	ORF 2	14:25	15:10	Sturm der Liebe	49, Soa	1321, Soap
6	ORF 2	14:25	15:10	Sturm der Liebe	49, Soa	1321, Soap
7	PULS 4	15:00	Mord ist ihr Hobby	Lebendig vernichtet (Unauthorized Obituary)		
8	ServusTV	15:00	Die Sportdokumentation	Abenteuer, Wettkampf und Adrenalin: Die	15:45	M

5

TERRATEC HOME CINEMA

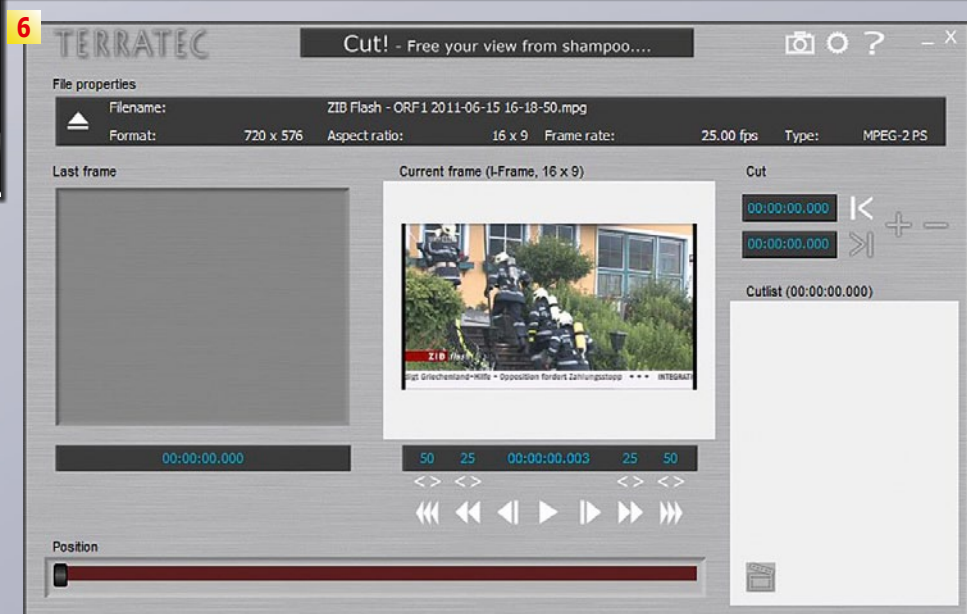
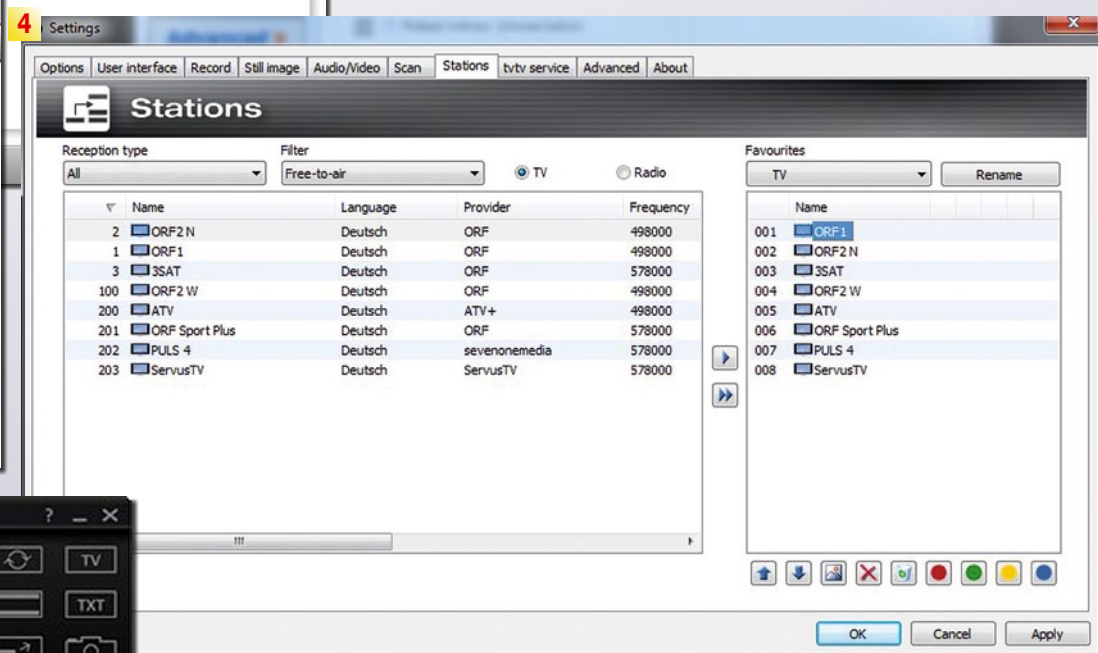
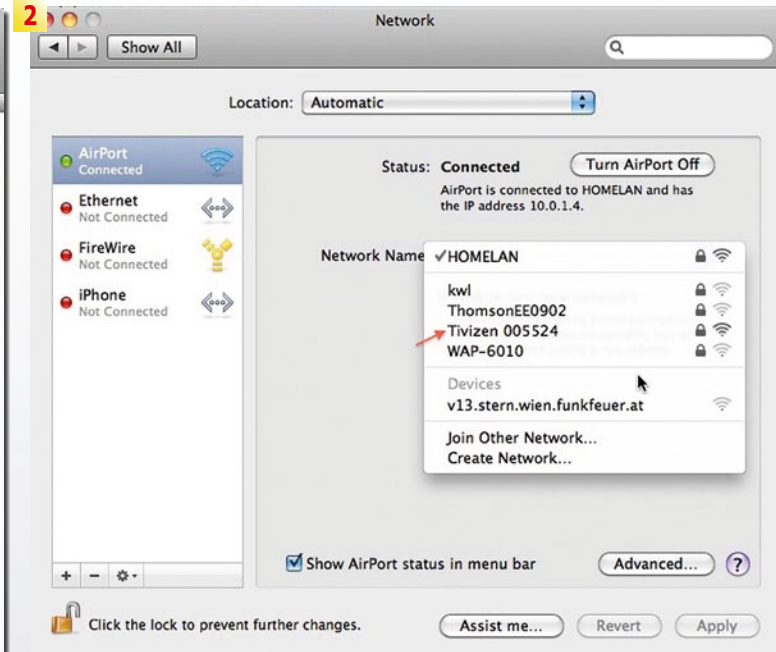
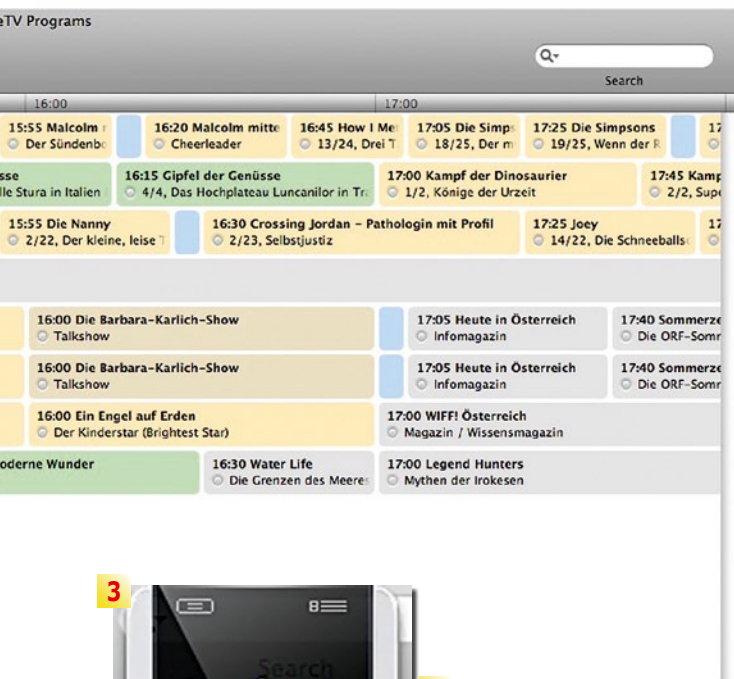
01 - ORF1

Malcolm mittendrin

15:55 - 16:17

16:14 Deutsch

⏮ ⏪ ⏩ ⏭



1. The EyeTV software's detailed EPG. It is used by the Tivizen when connected to a MacBook.
2. The Tivizen appears as a separate entry in the list of available WiFi networks.
3. Thanks to the virtual remote control, all of the software's functions can be controlled.
4. The TerraTec Home Cinema software is used with the Tivizen when connected to a Windows PC.
5. The control center for the TerraTec Home Cinema software.
6. The TerraTec Home Cinema software has its own editor so that commercial breaks can be snipped out.



Logitech®



Logitech Revue

- **Combines video and audio from the Internet, terrestrially and via satellite**
- **HD and 3D compatibility thanks to the HDMI input**
- **Perfect cooperation with the user's available audio/video equipment**
- **Can only be used in the USA**



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www.TELE-satellite.info/12/03/googletv

Direct Contact to Sales Manager



with Google TV

TV, Internet and Multimedia Meld Together to Become One

Together with the companies Google, Sony and Intel, Logitech is one of the companies that has recognized the trend towards the simultaneous use of multiple transmission paths and has addressed it with the Logitech Revue Box. Google TV is the software platform that acts as the interface between the hardware and the end user.

Thanks to this unique interface that is compatible with a variety of different devices, the user will instantly feel at home regardless of whether Google TV runs on a TV, a blue-ray player or, as we will show here in this test report, on the multimedia box Logitech Revue. Currently, the Logitech Revue is only available in the USA.

So, what is it that differentiates the Logitech Revue from other media players that have been on the market for some time now?

With the Revue, Logitech, thanks to Google TV, has not only brought together an immense flood of Internet media content but has also

integrated the interaction between other media such as TV and radio via cable or satellite. This is possible through the HDMI input with which the existing cable or satellite receiver is connected to the box allowing you to take full control over the external satellite or cable receiver, the TV as well as the audio/video system.

The Logitech Revue is enclosed in an elegant black box that at only 3.5cm high is especially flat. Two LEDs can be found on the front; they indicate the current status of the box as well as optically confirm the reception of a remote control signal.

It gets especially exciting when you have a look at the rear panel: there you'll find an HDMI output, an HDMI input, two jacks for the infrared transmitters, two USB 2.0 ports, an RJ45 network interface, an optical S/PDIF digital audio output as well as a jack to connect the external power supply that is used to power the box.

The Logitech Revue is not controlled and operated the

way you might think; instead of a standard remote control there's an extremely lightweight and easy to handle keyboard that is supplemented by several extra buttons as well as a track pad (takes the place of a typical mouse) on the right side.

At first the idea of controlling a set top box from your couch via a keyboard and trackpad might seem unusual, but in the end we were quite surprised at how easy and comfortable this concept really was. Using a real keyboard to enter characters is definitely advantageous over a virtual OSD keyboard, especially in any case where the Internet is involved.

The Logitech Revue is backed by a 1.2 GHz Intel CE4100 chip, 1GB RAM and 5GB of memory. Video and audio quality throughout our tests was top notch but we really didn't expect any different thanks to the 1080p output resolution.

When the box is turned on for the first time, the Installation Assistant appears. And it's right there in the

first step where the output signal is matched to the TV that is being used. The picture can also be expanded or reduced in size in each direction with the help of the arrow buttons until the optimal setting has been found. The output resolution can be set to 1080i, 1080p or 720p.

In the case of the Logitech Revue, a connection to the Internet is an absolute must and for that there's an RJ45 jack for a wired connection as well as a WiFi interface for a wireless link.

The Logitech Revue easily recognized our test center's WiFi network; even the secure WPA2 encryption did not pose any problems. Unfortunately, we determined that the IP address allocation only takes place via DHCP; a manual entry of the necessary data by the user is not possible.

Once the Internet connection has been properly set up, the box immediately checks to see if a software update is available and then downloads and installs it automatically.





In order to take advantage of all the Google TV services that are available, the user must have a Google account which would then be accessed in the next step.

And last but not least, the Logitech Revue asks about the available TV and audio equipment. But before anything else, the local zip code in the USA needs to be entered so that the box can display a list of all the local and regional cable and satellite providers whose receivers can then be controlled by the Logitech Revue.

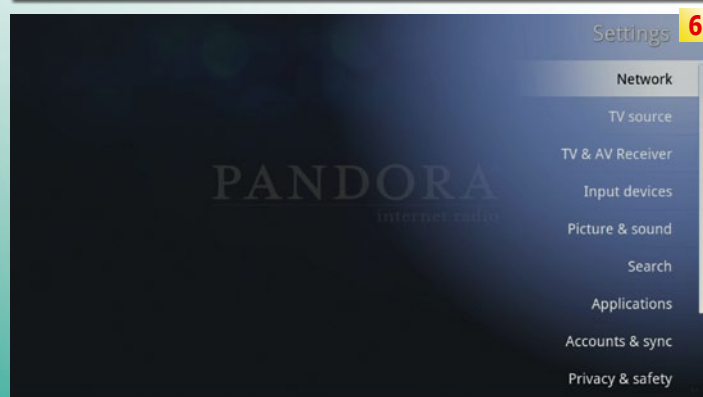
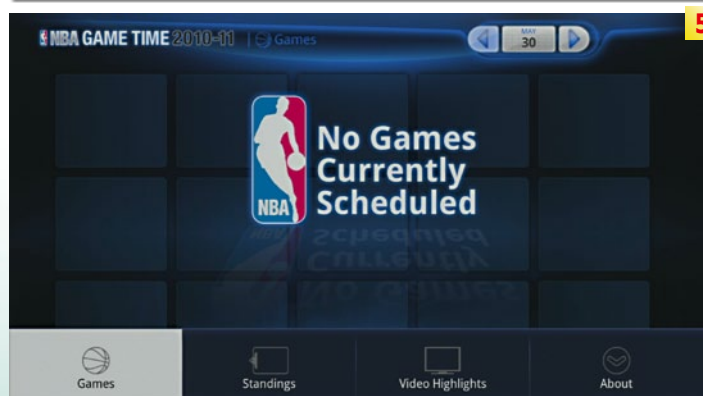
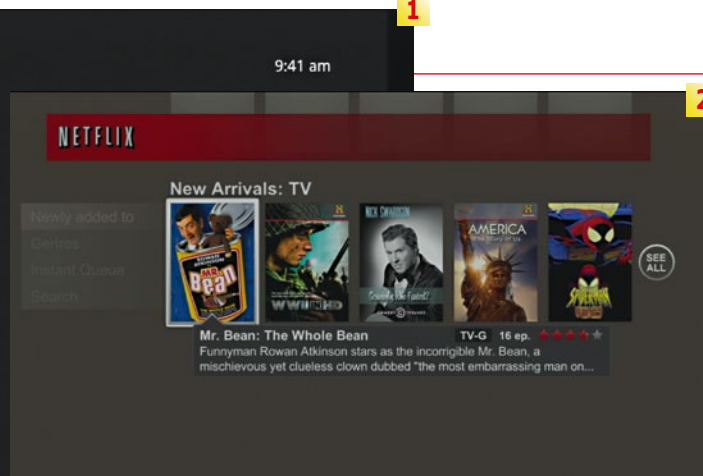
Since the keyboard for the Logitech revue includes a built-in universal remote control for TVs and A/V receivers, the final step of the initial installation involves setting up these components.

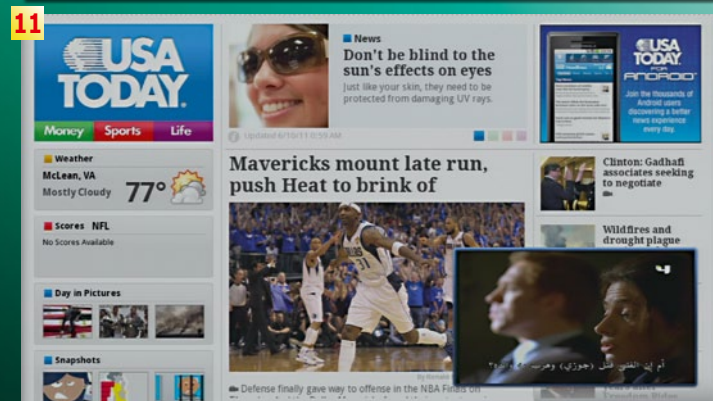
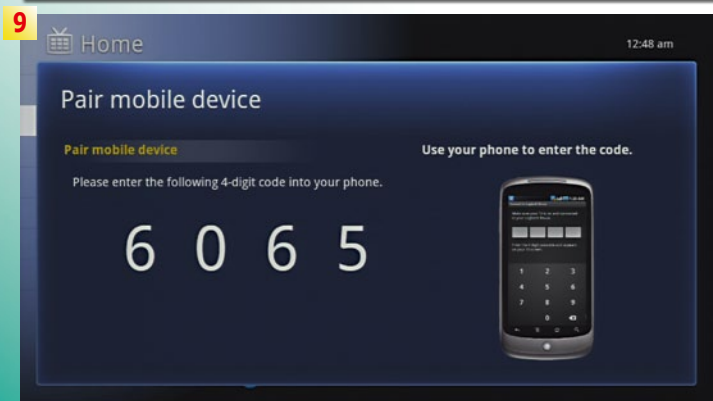
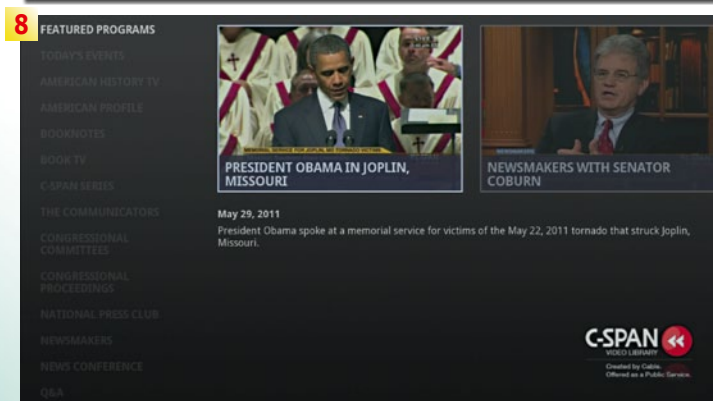
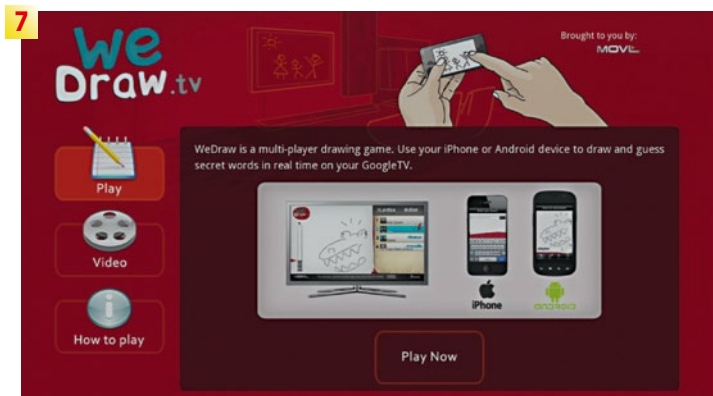
Unlike the product and

manufacturer codes that are used by many other universal remote controls and that have to be picked out from a long list, the Logitech Revue lets you select a manufacturer from a list and then choose the exact product that you have. It then identifies the correct remote control codes from its internal databank.

Once the initial installation has been completed, the box automatically switches over to the main menu that

1. Dozens of applications are ready to be used
2. New releases at Netflix
3. The CNBC Business channel. In addition to the live TV picture, up to date stock prices plus additional information is blended in.
4. TELE-satellite's homepage as viewed on the Logitech Revue through Google Chrome
5. NBA Game Time
6. Various System Settings





is divided into two large sections.

On the left side you'll find the various menu selections while on the right side are all the corresponding sub-entries and details.

The box is shipped from the factory with its bookmark section set up for Live TV (via an HDMI linked set top box), YouTube, Netflix, Amazon Instant Video, Logitech Vid HD as well as the box's Help system.

If you click on the Applications icon under the main menu, you'll then have access to more than two dozen apps that can be used to access nearly all the multimedia services that are available via the Internet in the USA. The most important of them are:

YouTube

The well-known and popular video platform YouTube has been fully integrated into the Logitech Revue such that all of the features can be accessed through its own OSD display. You can also search for specific videos or view the most popular videos at the moment with the push of one button.

The quality of the video playback is outstanding; if the clip is available on YouTube in high definition, the box will also display it in high definition.

Netflix

Netflix is a very popular

service in the USA. For a flat monthly rate a month, you can have DVDs and Blue Ray discs mailed to you. You can even watch movies, TV series, etc. online. You can choose from a wide variety of Hollywood productions as well as a rich assortment of brand new episodes of the most popular TV series. You can have a Netflix account for less than \$10USD a month.

And just like YouTube, Netflix is also presented by the Logitech Revue in its own OSD. Once a title has been chosen, it is streamed directly via the Internet to the Logitech Revue box.

Amazon Instant Video

Amazon Instant Video is similar in concept but in this case the user doesn't pay a flat monthly rate, instead the user pays for each individual movie.

Unlike Netflix, here the user receives a long-term license that allows users to view and replay a movie as often as they want. This option costs just a little less than the selling price of a DVD; current Hollywood hits are available for around \$15USD.

Napster, Pandora and NBA Game Time

The Logitech Revue provides unrestricted access to the Napster platform and thereby gives you the ability to buy music online and directly play it back. And thanks to the fully integrated Pandora streaming service, users can access their favorite music streams directly from their living room couch.

Naturally, the entire Pandora concept was carried over to the Logitech Revue, in other words, the user can

7. wedraw.tv

8. C-SPAN live via the Logitech Revue

9. A SmartPhone can control the Logitech Revue box via a WiFi connection. A one-time code entry is needed to activate it.

10. Selection of satellite or cable providers

11. Thanks to the picture-in-picture function (PIP), live TV can be viewed simultaneously with multimedia content



spark portal



You Tube

YOU PORN



HbbTV

SPARK RELOADED HD

FULL HD LINUX SATELLITE RECEIVER,
MEDIA PLAYER & IP BOX

2 CHANGEABLE FRONT PANELS INCLUDED

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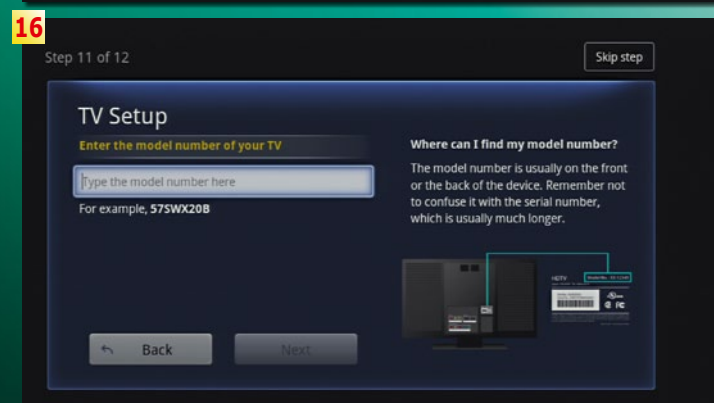
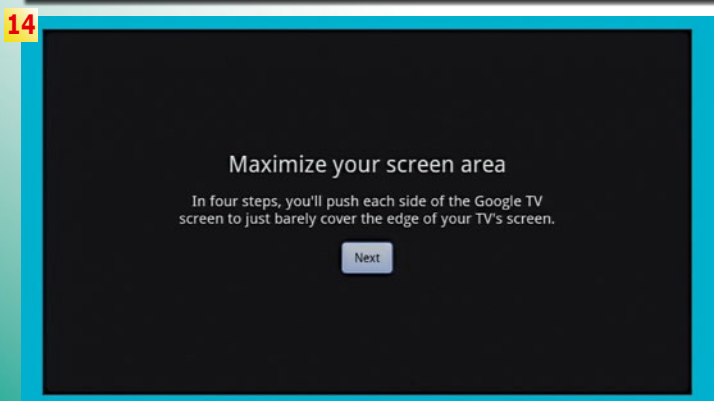
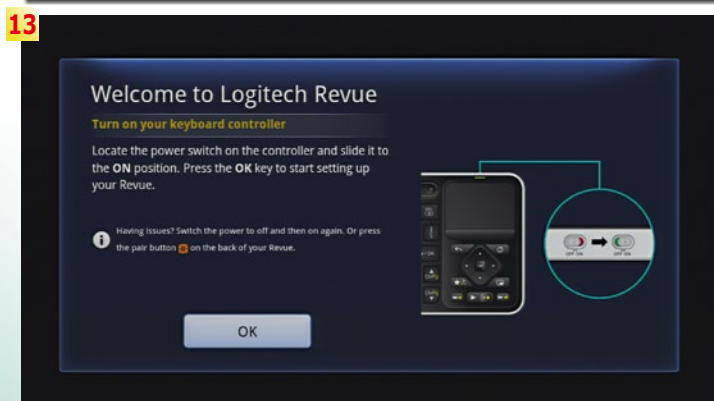
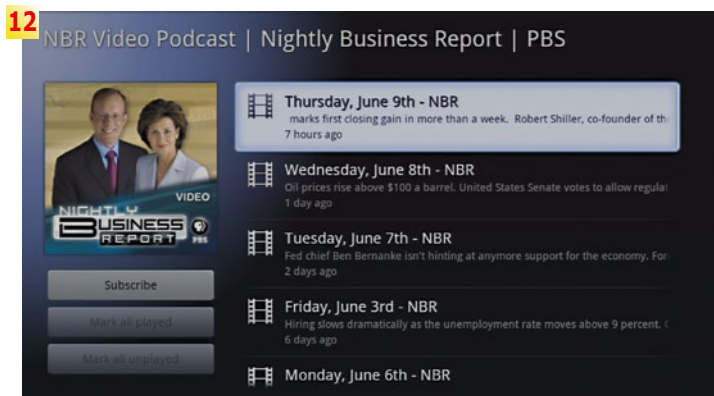
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search for content, is provided with matching streams and can rate individual songs with either the „thumbs up“ or „thumbs down“ button thereby influencing how often the title or similar titles are played back.

Even sports fans will be happy with the NBA Game Time. It provides you with not only an overview of current games as well as up to date scores, but also the ability to view video clip highlights of various games directly on the Logitech Revue box.

In addition to these especially popular services there are also dozens of other things that are available such as specially prepared online versions of a variety of newspapers (like USA Today and The New York Times) as well as exclusive Google TV online content from sources such as CNN, Al Jazeera, C-Span, CNBC plus many more. It provides access to live TV streams and video clips as well as gives the user up-to-date editorial information.

You'll also find content such as PBS Kids, This Week In, Cartoon Network, blip.tv, Vimeo or SideReel on the Logitech Revue.

Thanks to the update and editing functions new services can be added. Logitech also continuously keeps the database of available entries up to date.

Even the integration of Podcasts is possible through

Google TV. You have not only a preprogrammed databank full of a large assortment of content, but you can also add and playback your own Podcasts as well.

Live TV with the Logitech Revue

The features that we've mentioned up until now really don't differentiate the Logitech Revue from any standard media player. But the magic phrase here is HDMI Input!

Most of our readers associate the HDMI interface with set top boxes or receivers only as an output, but with the Logitech Revue it is an HDMI input!

Naturally, the manufacturer didn't limit this interface as a simple connection between the box and external devices, instead, the developers put a lot of work into this so that the Logitech Revue can also be used to control external set top boxes.

As we mentioned earlier during the course of the installation, after entering in your local zip code, you simply need to select your TV provider as well as the receiver model that you are using. This can be done either by selecting the correct designation or you can identify the correct image that is stored in the software of the Logitech Revue. All of the required remote control codes are already preprogrammed as are the channel lists from the cable or satellite providers.

Thanks to this database, the Logitech Revue can work with nearly every type of receiver hardware that a user might have.

In our tests the picture quality via the HDMI output was absolutely outstanding; we were unable to detect any difference between the

12. Even video Podcasts can be displayed

13. Greeting from the Installation Assistant

14. The box's video output can be matched to the TV monitor

15. External cable or satellite receivers can be operated through the Logitech Revue box

16. Even TVs and A/V receivers can be controlled through the Logitech Revue's keyboard

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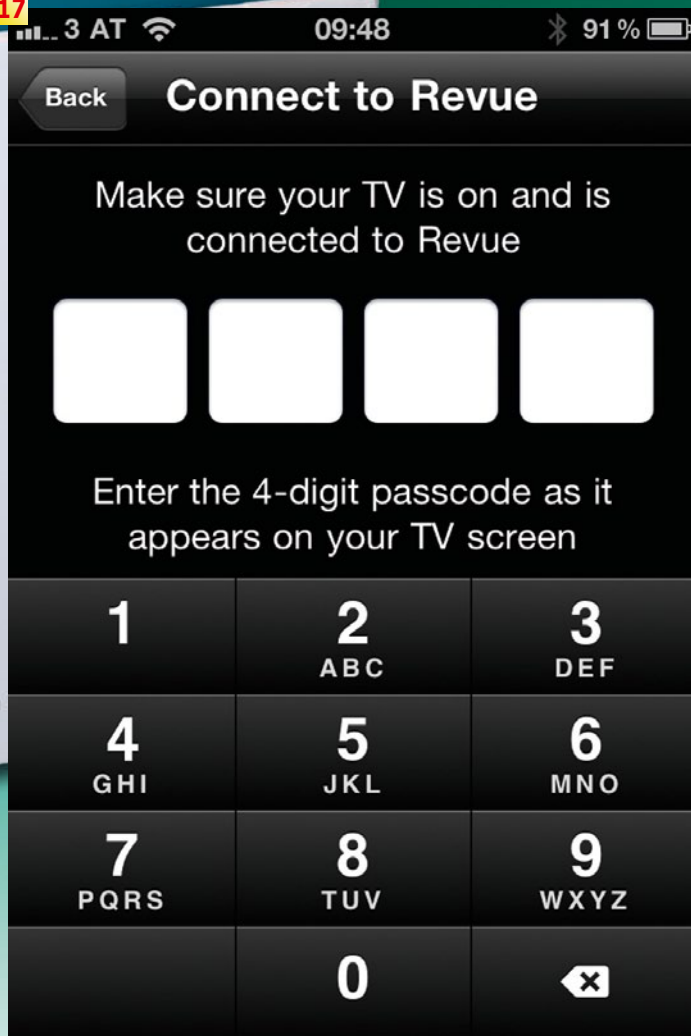
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17



signal output directly on a TV and the same signal as viewed through the Logitech Revue.

We especially liked the box's picture-in-picture function (PIP) with which you can watch TV and use Internet services at the same time. This is where the Logitech Revue's multitasking capabilities stand out; it lets you use streaming services (such as Pandora) in the background while the user views other active services.

Surfing the Internet and External Media

It should really come as no surprise to anyone that the Logitech Revue also comes with a specially adapted version of the Google Chrome Internet browser. It lets users surf the Internet from the comfort of their couches.

Unfortunately, not all add-ons such as Flash Animation are available but, even so, our tests showed that it still is ideal for everyday use.

The screenshots accompanying this report show the

TELE-satellite website that was displayed without any problems. Thanks to the remote control keyboard, Internet pages can be quickly and easily accessed; the integrated track pad makes it easy to select links.

Thanks to the two USB 2.0 ports, external storage media such as USB sticks and hard drives can be linked with the Logitech Revue so that MP3 music, videos and photos can be played back. Our tests demonstrated that these functions worked perfectly and were also fun to play with.

Videochat

With the integrated Logitech Revue HD App the box is also (when you use an external webcam that unfortunately isn't included in the package) video chat compatible - and in HD quality no less!

The station at the other end could be another Logitech Revue box or you can simply install the necessary MS Windows or Mac OS X software on your PC or laptop.

17. iPhone link with the Logitech Revue

18. Smartphone App Main Menu

19. By tapping the SmartPhone's touch screen, the commands are sent via WiFi to the Logitech Revue

20. Even the TV can be controlled via the SmartPhone

21. Control of a cable or satellite receiver linked to the Logitech Revue box is also possible

Control via a SmartPhone

As you would expect with a modern set top box, the Logitech Revue can also be controlled by a SmartPhone. The corresponding apps for Android SmartPhones and Apple's iPhone are available.

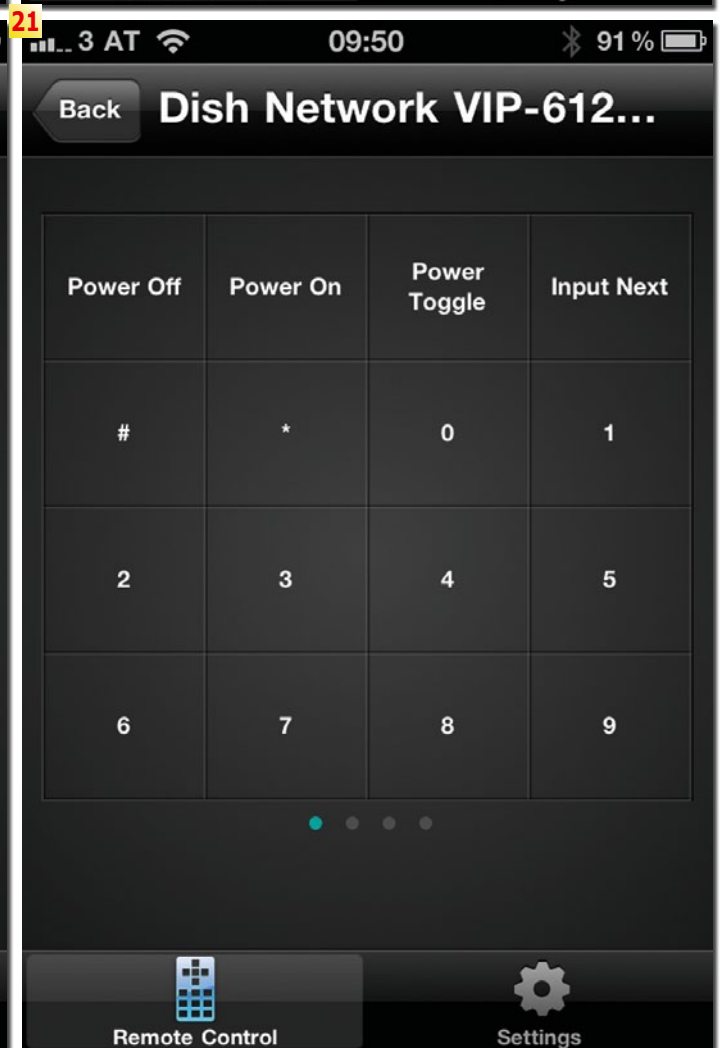
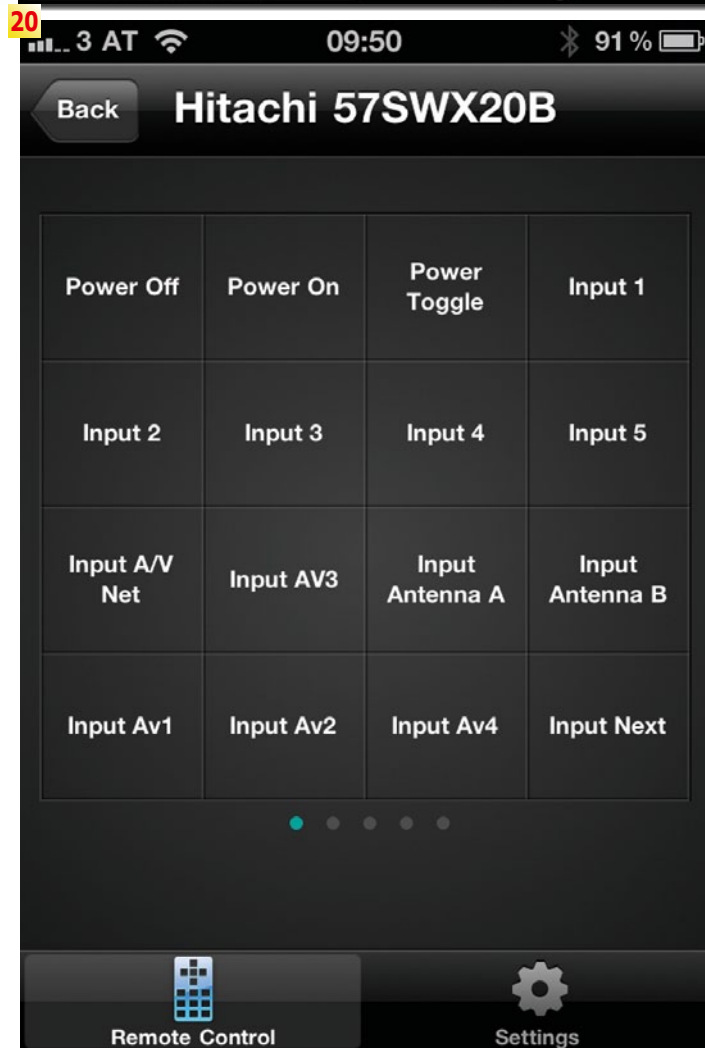
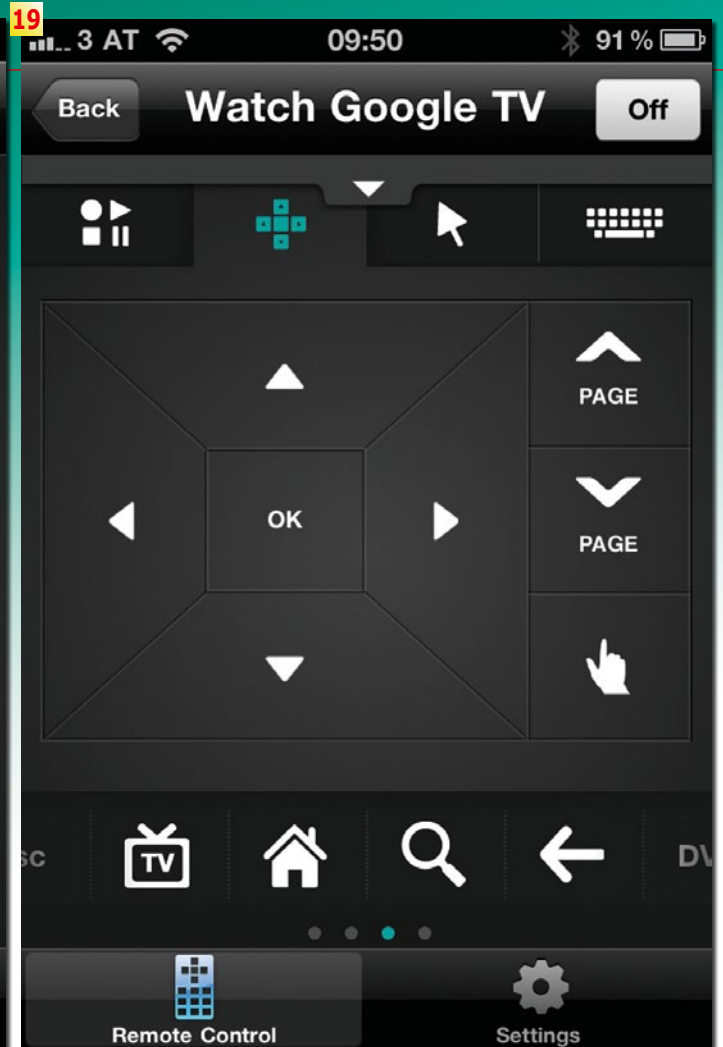
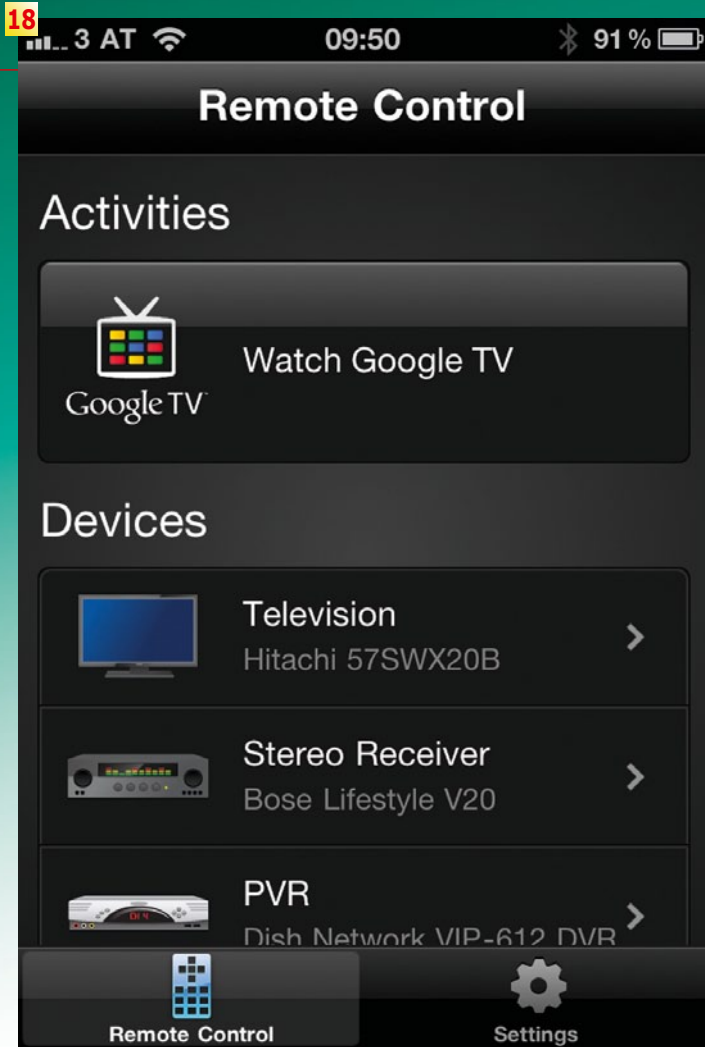
Our tests showed that this function is actually quite practical; the idea of using a smaller control system rather than a relatively larger keyboard to access just a single function is very appealing.

Thanks to the Logitech Harmony App, you have easy and above all complete SmartPhone control of not only the Logitech Revue box, but also external devices such as a set top box, a TV or an A/V receiver.

On top of all the many different practical functions of the Logitech Revue, there's also the ability to update the box's software automatically via the Internet.

While we were performing our tests an update became available from the manufacturer; within just a few minutes it was downloaded to the box and then installed after a short restart.

All in all we had quite a bit of fun testing the Logitech Revue with Google TV. The merging of TV, Internet and multimedia is a fantastic experience for the end user that will bring with it a lot of joy.





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The Wonderful World of Spark

Part 1: YouTube

- *Perfect receiver software integration*
- *Excellent filter function, for example, just HD videos*
 - *Multiple built-in virtual keyboards*
 - *Sophisticated search function*
 - *Easy Saving of video clips*

This Makes it Fun to Watch YouTube With Your Receiver

Thomas Haring

We've reported a number of times already in TELE-satellite about receivers from different manufacturers that included the innovative Spark software from Fulan.

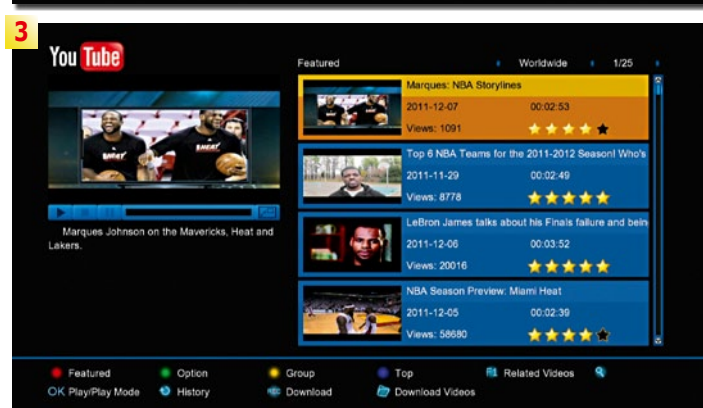
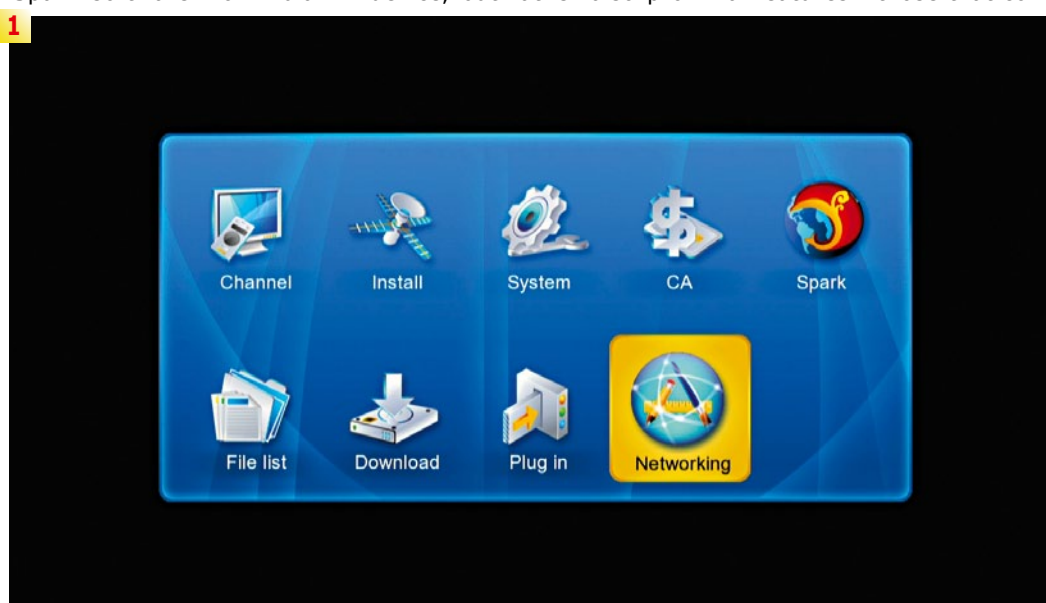
Spark sets new standards for digital receiver software in that it's not limited to just the solid, sophisticated basic structure that operates the device, but rather also pro-

vides numerous elegant additional functions and extra features.

It's exactly these additional features - those that con-

in the Internet the limits between TV reception via satellite, cable, terrestrial antenna and also the Internet are becoming less and less distinct. It's no surprise then that many TV viewers also access YouTube content since the days of pixelated low resolution videos are over - HD is the magical word of the future! But who wants to sit in front of a PC monitor and watch YouTube videos when instead you can watch them in top notch HD quality on that LCD big screen TV you have in your living room? Fulan had this in mind too when they integrated YouTube into their Spark receiver software.

When you start the YouTube app, the user is immediately greeted with the best recommended videos from around the world. But, as a user in Germany, would I be interested in those videos that are currently popular in the USA? Or the other way around, would someone in the USA want to know what the top videos from Korea or Taiwan are?



vert a digital receiver into a multimedia machine with total Internet integration - that are the subject of our new series of articles that will introduce you to these special Spark features individually in the upcoming issues of TELE-satellite.

We're going to start things off with an Internet service that over the past several years has boomed and is becoming increasingly more and more popular: YouTube. Thanks to larger bandwidths

It's exactly for this reason that Fulan integrated three different options into the green function button on their remote control: First of all, you can choose a specific country from a list that includes Worldwide, Australia, Brazil, Canada, France, Germany, The United Kingdom, Holland, Hong Kong Ireland, Italy, Japan, Mexico, New Zealand, Poland, Russia, South Korea, Spain, Taiwan and the USA. The user can therefore limit the search or display results from one of these countries.

The second option allows the user to select how old the displayed video clips should be. The results can be limited to clips from to-

1. The YouTube app can be found under the Networking heading in the Spark software's Main Menu
2. The YouTube app is just one of the many practical apps offered by the Spark software.
3. The YouTube App start page



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USB 2.0 SLOT



For external HDD
or USB-Stick

HDMI



High Definition
Multimedia Connection

1 x SMARTCARD-READER



FEATURES:

- USB 2.0 slot for playback of external hard drive or USB flash drive
- PVRready. Direct recording via USB on external storage media possible
- HDTV & SDTV
- 1 x smart card reader
- EPG (7 days in advance)
- Video-resolution 1080p, 1080i, 720p, 576p
- optical signal to the align the antenna
- 5000 Program presets
- Multilingual screen menu
- HDMI out with HDCP
- Radio reception with background display

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USB 2.0 HOST



For external HDD
or USB-Stick

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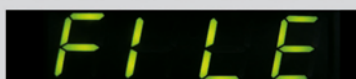
High Definition
Multimedia Connection

1 x COMMON INTERFACE



FEATURES:

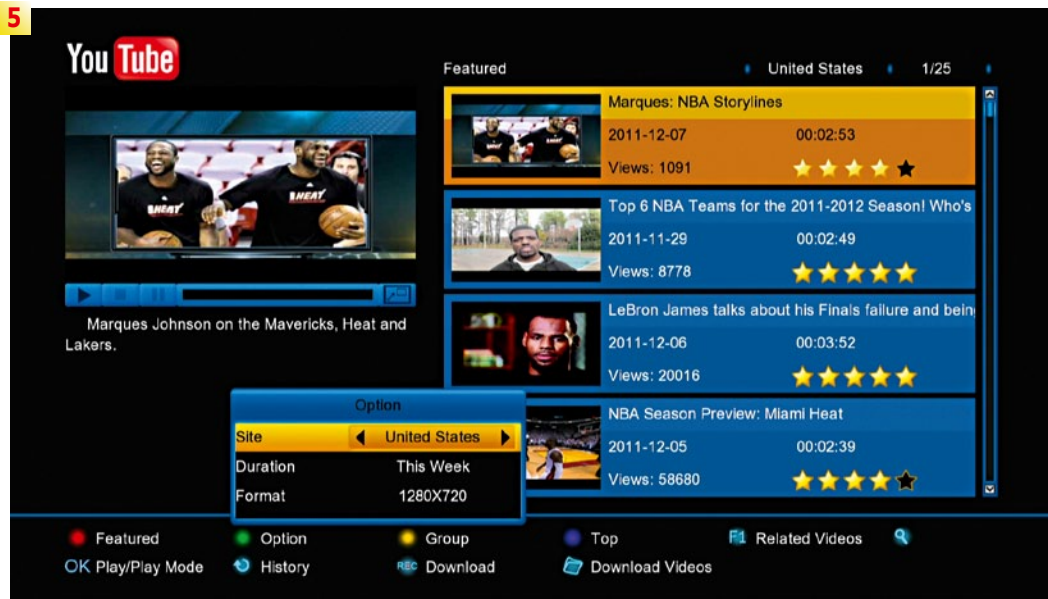
- 1 x Common interface slot
- HDTV & SDTV
- Video-resolution 1080i, 720p, 576p
- USB 2.0 host for playback of external hard drive or USB flash drive
- Easy find software (works only in conjunction with easy find LNB)
- 5000 Program presets
- HDMI out with HDCP



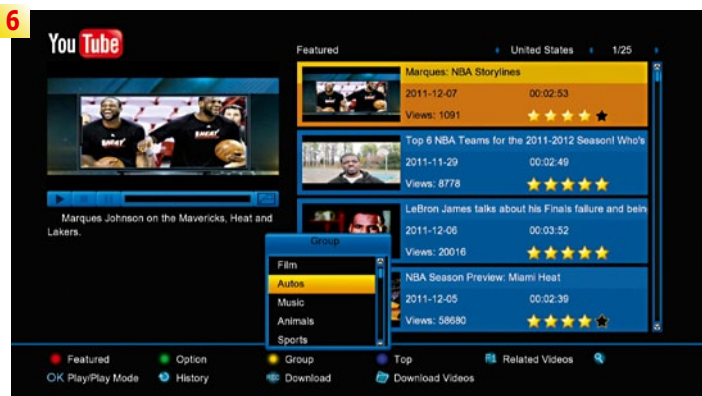


day only, from the current week, the current month or you can choose to show all available videos. With just the push of one button the user can eliminate old clips or those clips that are no longer interesting resulting in search results that are not full of unnecessary trash.

mal, Movies Comedy, Movies Documentation, Movies Action, Movies Classics, Movies Foreign, Movies Horror, Movies Drama, Movies Family, Movies Shorts, Movies SciFi, Movies Thriller as well as Trailers. In this way it's much easier and quicker to find the content you're looking for!

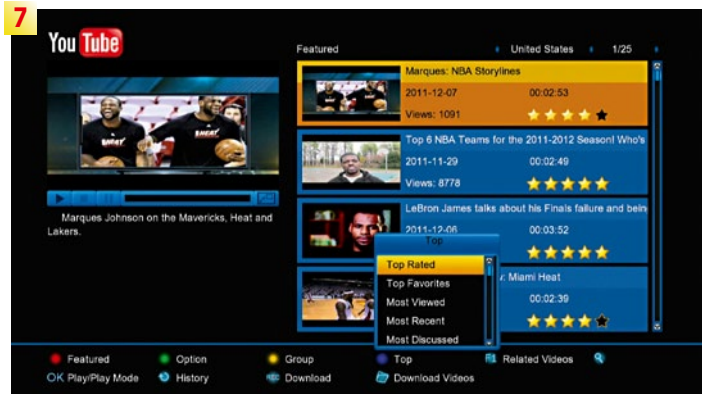


If all of these choices are still not enough, you can search for new videos according to the tastes of others. The blue function button allows you to display video clips based on the following criteria: highest rated, top favorites, top viewed, most talked about, most linked and most commented. Of course, all of these choices can be used in conjunction with the search limitations provided by the green function button with regard to country, date and resolution.



The third option is especially interesting for those who have an HD compatible plasma, LCD or LED TV: you can limit the displayed video clips to those that are in 640x480 or 1280x720 format so that with the push of one button on the remote control you can fine tune the search to ignore non-HD content. We really liked this function in our tests; trying to watch a low resolution video on a 50" LCD TV isn't all that pleasing to the eye.

We also liked the ability to display those videos that are currently being viewed by others. If you're currently watching a recap of an NBA basketball game, you can, with the push of a single button, call up dozens of additional videos that are connected to that game or to the NBA in general. This actually makes it fun to take advantage of the unbelievable number of YouTube videos that are available.



In addition to the ability to take advantage of the three fine tuning search options just mentioned above, the Spark software also supports the capability to access video clips from specific groups including Movies, Cars, Music, Animals, Sports, Travel, Short Movies, Videoblog, Games, Comedy, People, News, Entertainment, Education, HowTo, Nonprofit, Tech, Movies_anime_an-

But what would YouTube be without a sophisticated search function? Fulan put quite a bit of work in this part of it as well. They integrated the ability to search the seemingly endless YouTube archives based on specific keywords. For this you can use a fully fledged OSD keyboard or you can switch over to a mobile telephone style text entry format. Fulan even thought of those users that don't utilize Latin

4. Country selection Spain

5. Limiting the displayed videos to those from the USA, from this week and HD-only

6. The different groups of clips can be called up using the yellow function button

7. The user can also orient themselves to the tastes of other YouTube users

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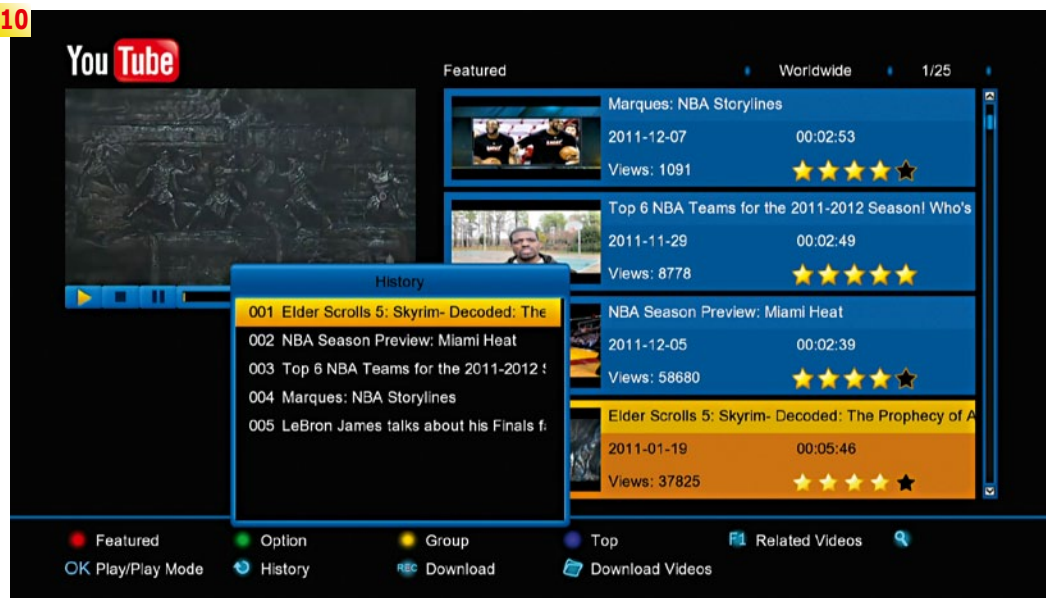
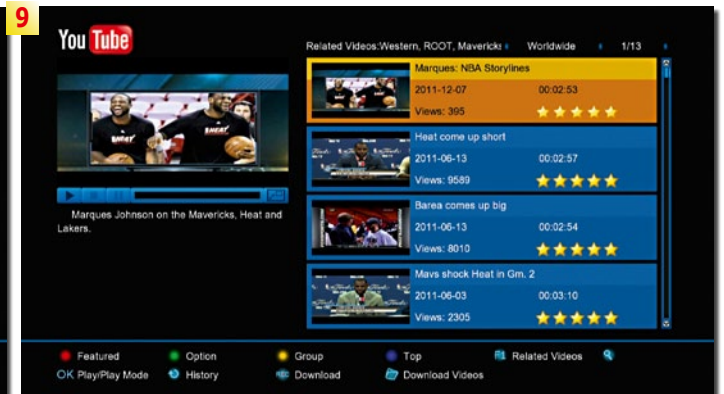
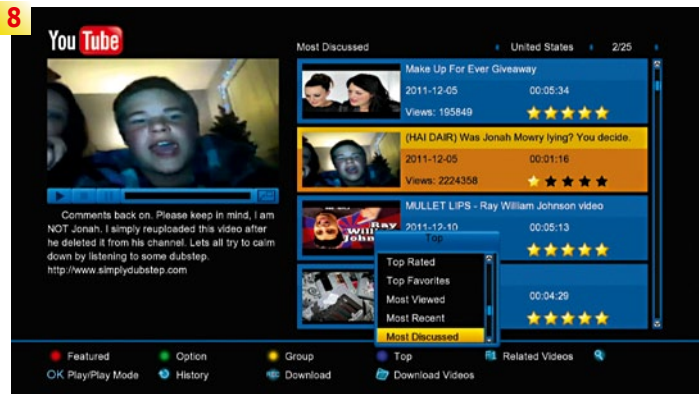
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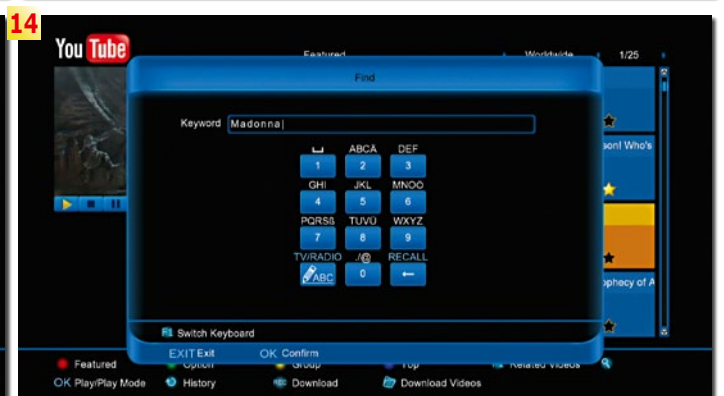
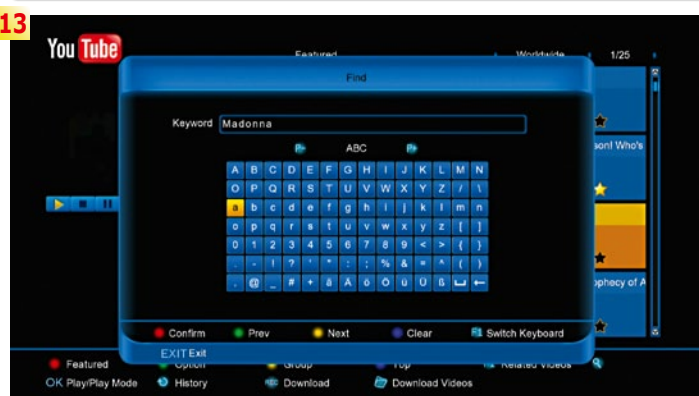
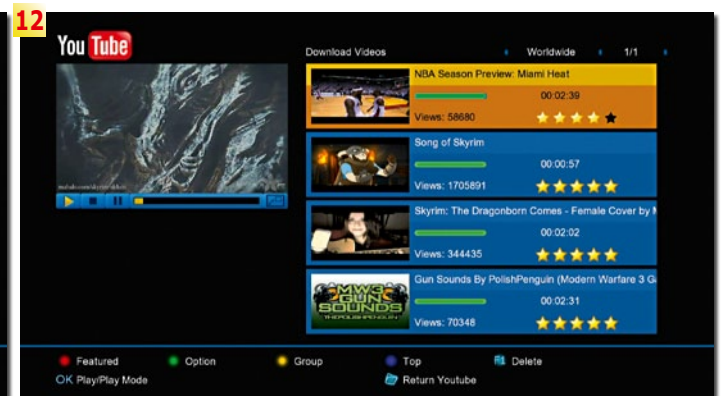
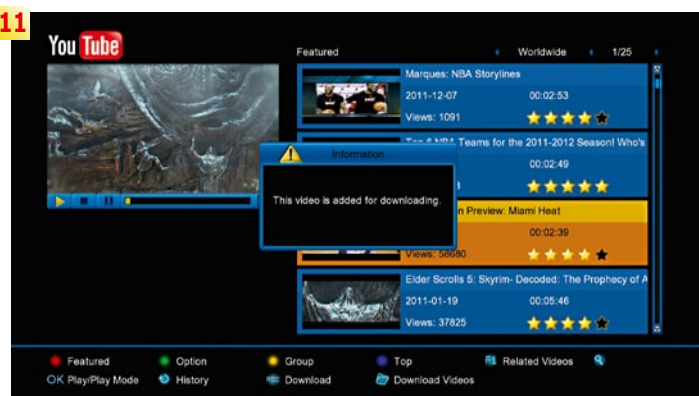
8. Top viewed, most discussed or most commented videos can easily be displayed

9. With the push of just one button the Spark software can show those clips that are currently being viewed by others

10. The History function shows the previously accessed clips

11. YouTube clips can be marked for download with just a single push of a button

12. The Spark software downloads YouTube clips from the Internet in the blink of an eye and stores them on your preferred storage device

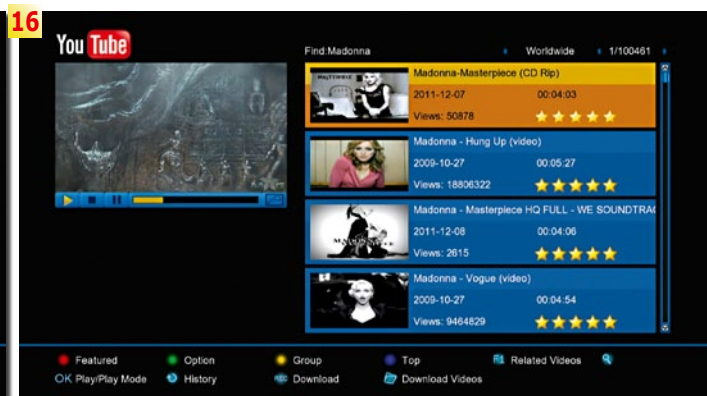
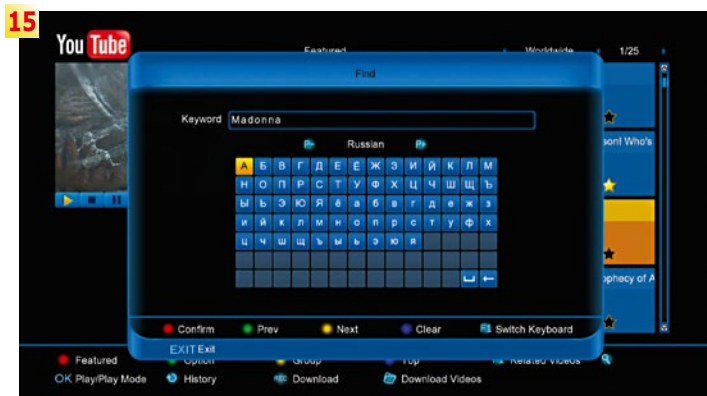


characters; they've provided additional keyboards that come integrated with special characters so that, for example, a Cyrillic keyboard could be presented on the TV. The

search function works very efficiently and delivers the desired results in the blink of an eye. Of course, the green function button can be used to limit these results based

on date, country and resolution. What you end up with are perfect results that in every way represent the desires and requirements of the user.

If you watch YouTube videos on a PC, you might miss the ability to store them on the PC's hard drive so that you could play them back without an Internet connec-



13. Search for „Madonna“

14. Mobile telephone text-style keyboard

15. Even Cyrillic characters are no problem for the Spark software

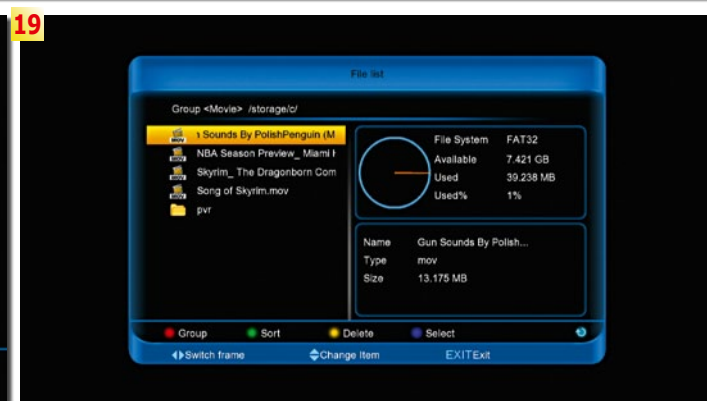
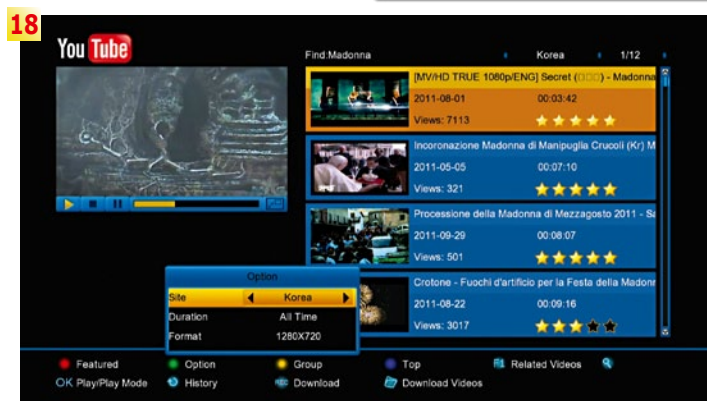
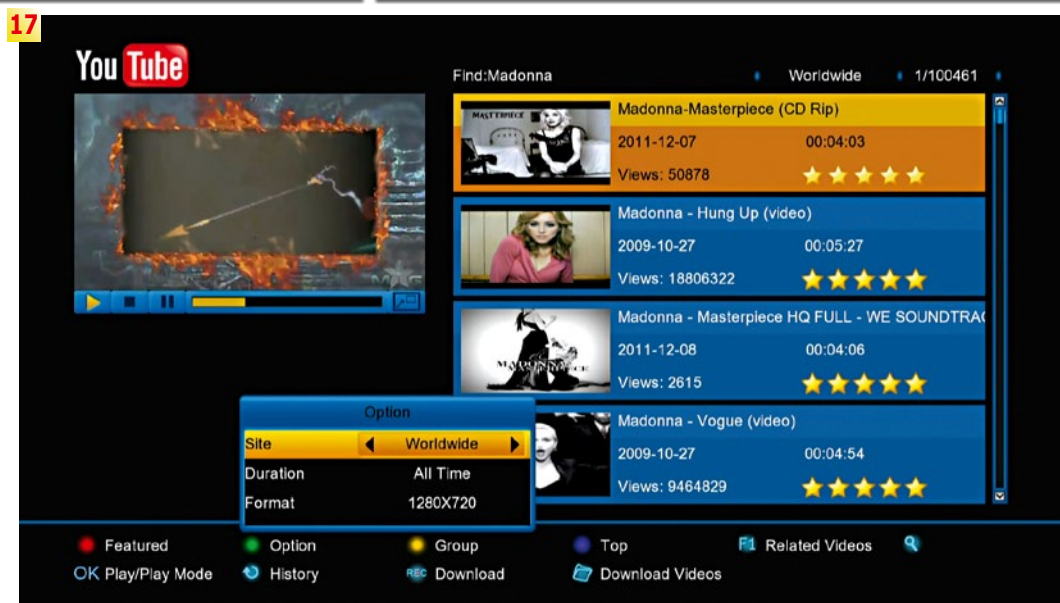
16. Search results for „Madonna“

17. Search results for „Madonna“ limited to USA and HD content

18. The same search for Korea returns completely different results

19. The Spark software can store YouTube videos effortlessly onto local storage devices

20. Playback of locally stored YouTube content



tion if you wanted to. Fulan addressed this problem in their Spark software and has provided the capability to store any of your favorite YouTube videos onto a local storage device. The download process was actually quite fast; we were then able to access the video clips stored on our USB stick outside of the YouTube app through the data manager of our Spark compatible receiver. It handled the YouTube clips just like any other recordings that were received via satellite, cable or terres-

trially. If you link the storage device with a PC, you can edit the video clips to your heart's desire. We appreciated that the clips are stored in MOV format; you can use nearly any playback software without any further conversion.

The array of practical functions in the YouTube app are further enhanced by the History function. It can be used to recall clips that have already been viewed with the push of just one button.

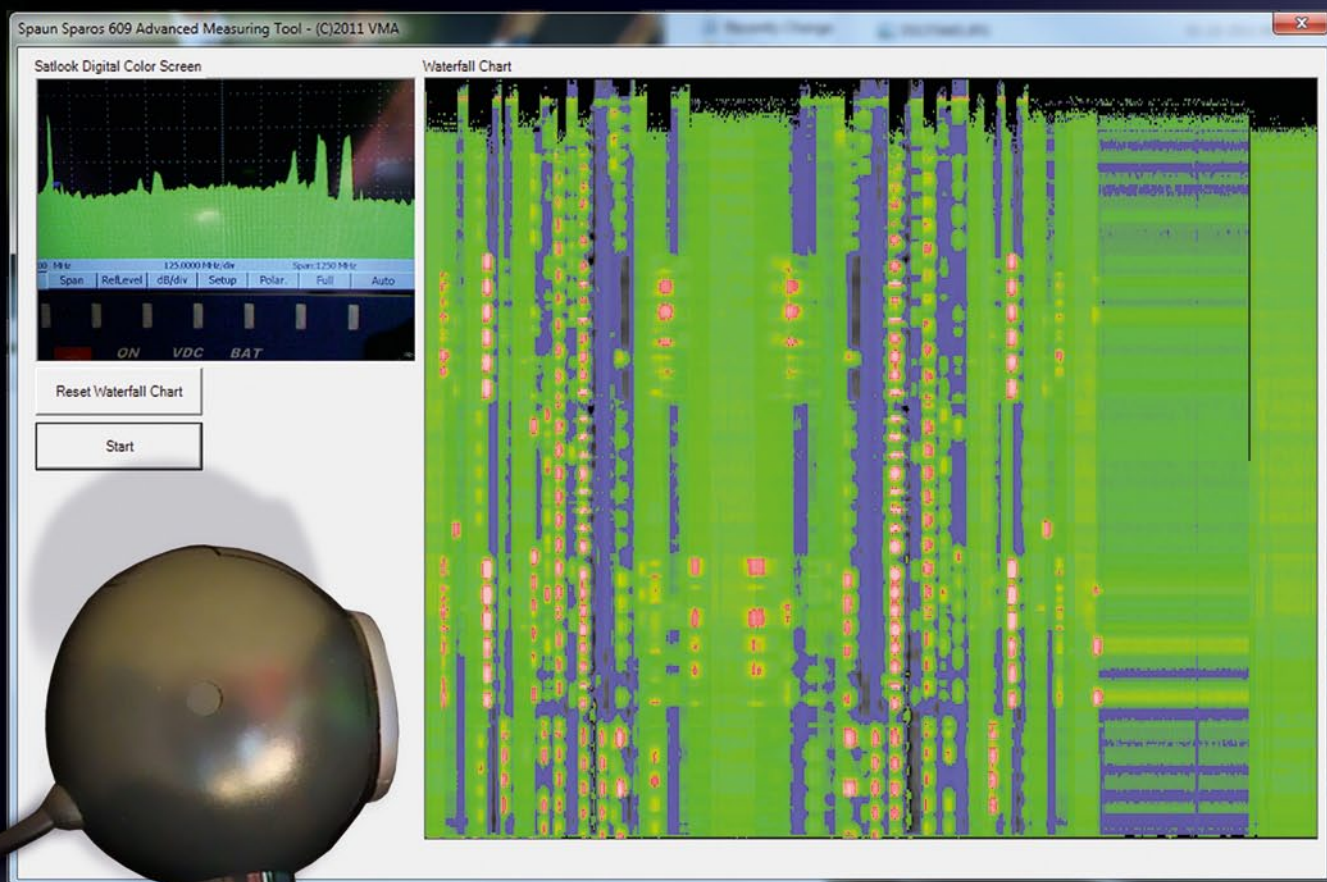
In conclusion we want to



highlight the fact that almost no other manufacturer has integrated YouTube into their digital receiver software so professionally and in such a sophisticated manner. Fu-

lan's software programmers really went all out in providing the user with a well-rounded software package for YouTube reception in the living room.

Waterfall Diagram for the SPAROS 609 Satellite Signal Analyzer



- *Permit's the quick and easy alignment of motorized antennas*
- *SPAROS 609 Signal analyzer ideally suited due to its high resolution fast-response spectrum display*
- *Webcam allows use with other signal analyzer models*
- *Expands SPAROS 609 uses for the installer*



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Real-time Waterfall Diagram Plus High Resolution with the SPAROS 609

Vitor Martins Augusto

A waterfall diagram displays a spectrum over a specific time period. This makes it possible to chronicle the spectrum of a reception system while, for example, the antenna is being moved. We already reported on a software solution in the 12-01/2012 issue of TELE-satellite but there's also a solution for those signal analyzers that don't have a spectrum output.

We already introduced the high-end SPAUN SPAROS 609 satellite signal analyzer to you back in the TELE-satellite 08-09/2009 issue. It has been regularly updated by SPAUN, for example, with a WiFi receiver. The test report for that version appeared in the TELE-satellite 08-09/2010 issue.

The SPAROS 609 comes with numerous functions and it's extremely easy and logical operation lets the user quickly get the desired results. Especially impressive is the spectrum analyzer display. The satellite frequency spectrum is presented in high resolution and also in real time thus making it an ideal base for a waterfall diagram.

Even though this analyzer has a composite video output, it is not appropriate to make the spectrum available at this output. This

actually makes sense considering that the resolution of the PAL signal would not be able to properly display the spectrum; and it's not even necessary since this unusual signal analyzer uses a high-resolution LCD screen.

In order to build a waterfall diagram with the spectrum of the SPAUN SP-

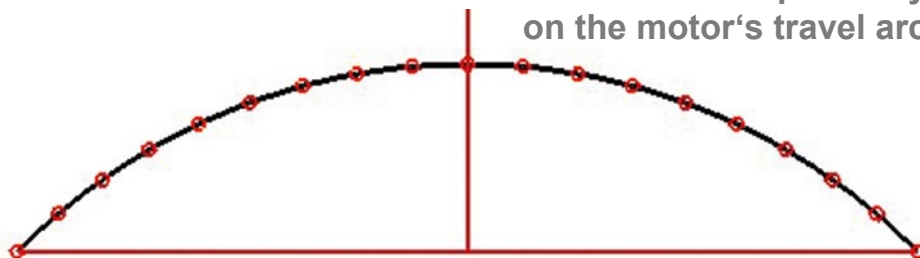
AROS 609 anyway, a rather exotic solution was invented. An HD compatible webcam can film the screen on the SP-AROS 609 and then the video can be graphically analyzed in real time on a PC so that the spectrum can be extracted.

This solution makes it possible to create a high-resolution waterfall diagram in real time. The purpose of this test report is to develop an easy, reproducible procedure for the documentation and alignment of motorized satellite systems. To be able to set up these types of systems properly, three parameters must be correctly configured:

- Inclination of the motor axis
- Inclination of the antenna
- Alignment of the motor with the antenna

If a motorized system like this is incorrectly aligned, it would lead to the following typical situations depending on which of the three parameters are not properly set up (see the Figures).

Correct alignment of the motor and antenna:
all of the satellites are located precisely on the motor's travel arc



Incorrect adjustment of the motor and antenna

1		
	Too Large	Too Small
Inclination of the motor axis	Satellites on outer edge of arc are not received (Antenna too high) 	Satellites on outer edge of arc are not received (Antenna too low)
Inclination of the antenna	All satellites are not received (Antenna too high) 	All satellites are not received (Antenna too low)
Motor Alignment	Satellites to the left are not received because antenna is too low, Satellites to the right are not received because antenna is too high 	Satellites to the left are not received because antenna is too high, Satellites to the right are not received because antenna is too low

Figure 1: Typical problems with the alignment of a motorized satellite antenna system



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Even if an installer correctly calculates the necessary settings and sets up the antenna using these parameters, it's still not unusual for these effects to appear since a motorized system cannot be perfectly aligned in the „blind“. A fine adjustment will always be needed and a waterfall diagram would help to not only make it easier to receive weaker satellite transponders, but it would also provide some bad weather

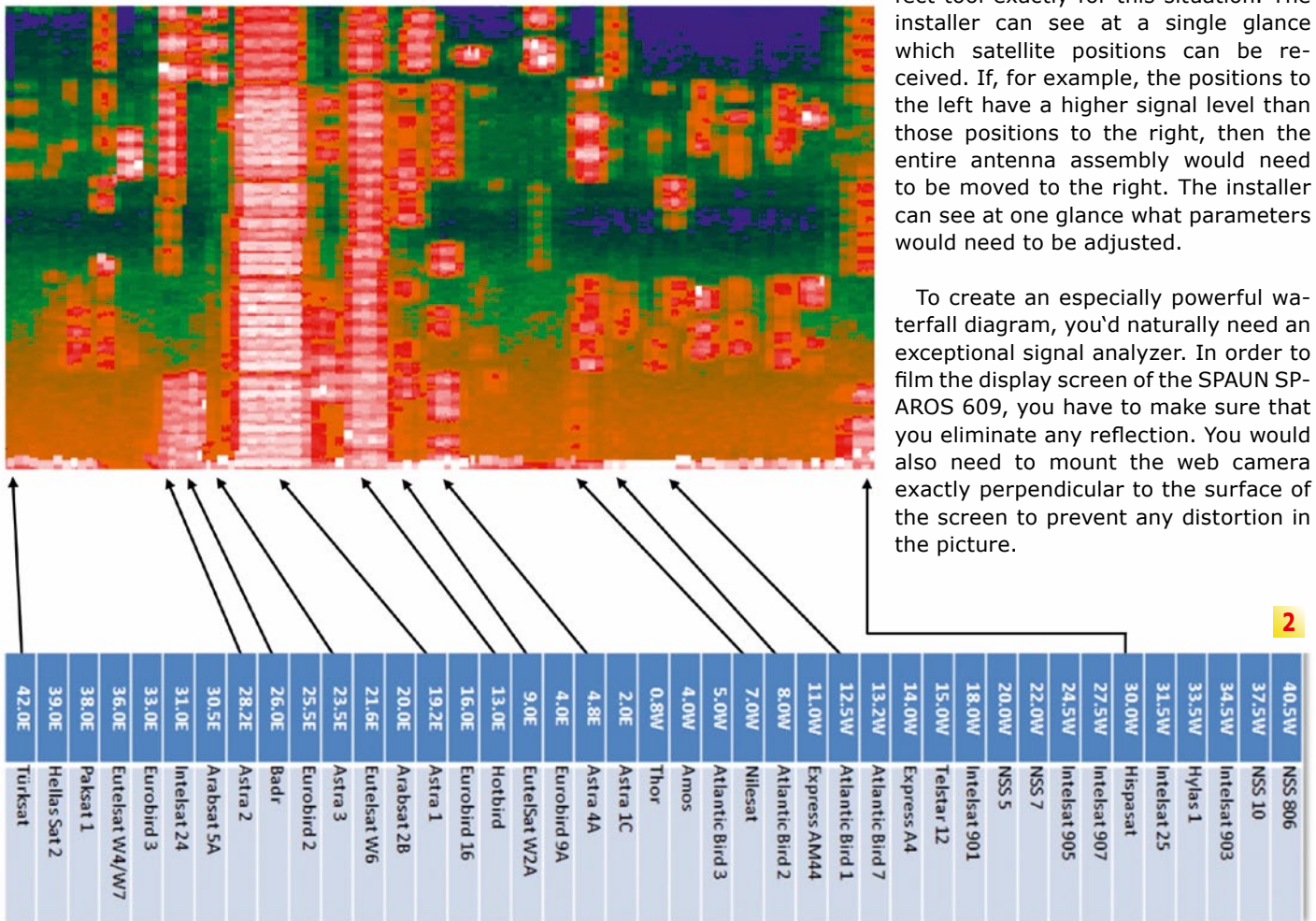
reserves. The more you want to move your antenna to the east or to the west, the more noticeable even the slightest error in alignment will be.

Up until now the installer had only one method at his disposal: after the initial alignment it was acceptable to move the antenna to a far eastern position and a far western position as well as to a position in the middle to deter-

mine which parameter needed to be adjusted. This was essentially a „Trial an Error“ method in that if you adjust one parameter, in all likelihood one of the other parameters would need to be readjusted. If you've ever installed a motorized antenna, you're well aware that this process could take hours.

But this is where the waterfall diagram comes to the rescue. It's a perfect tool exactly for this situation. The installer can see at a single glance which satellite positions can be received. If, for example, the positions to the left have a higher signal level than those positions to the right, then the entire antenna assembly would need to be moved to the right. The installer can see at one glance what parameters would need to be adjusted.

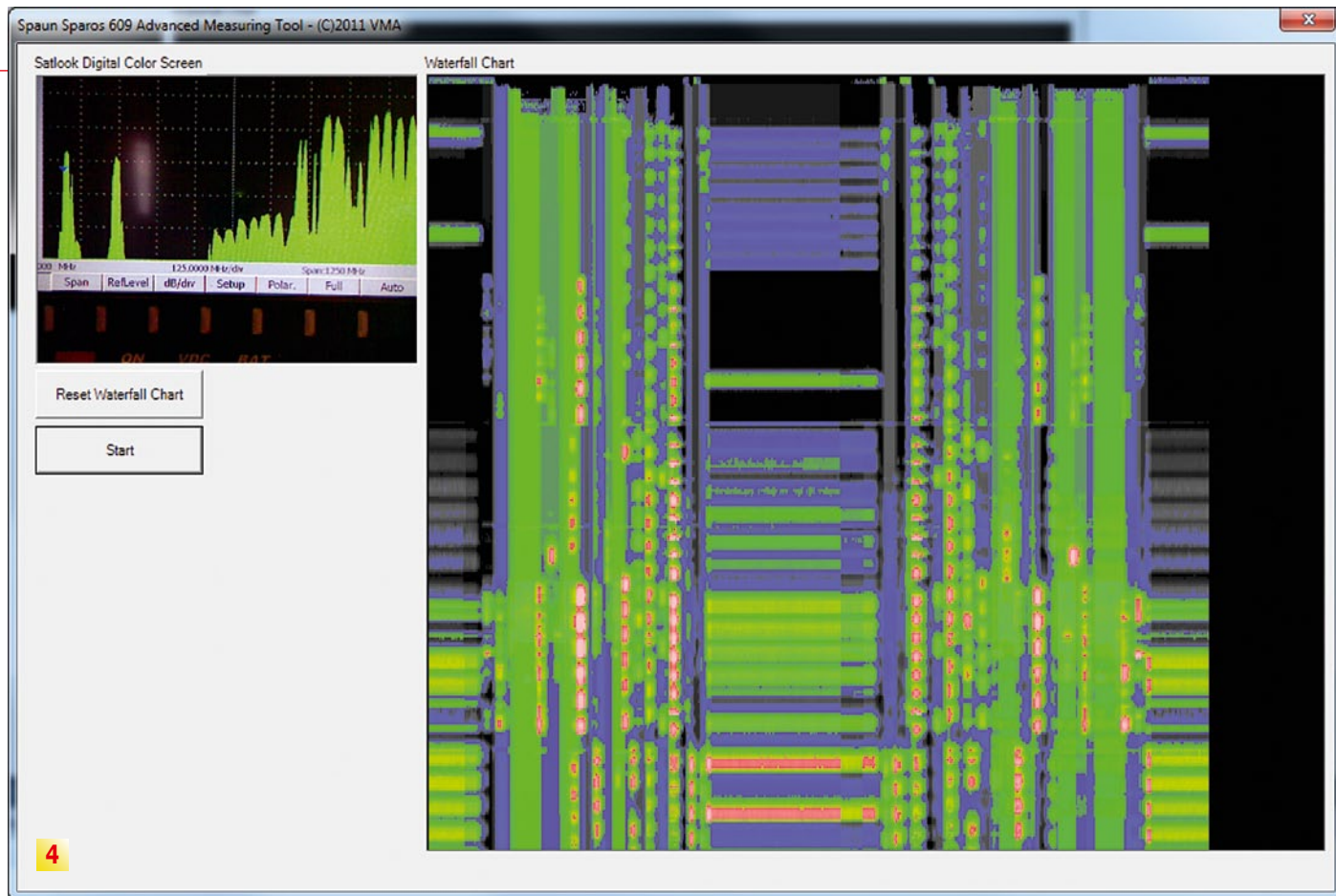
To create an especially powerful waterfall diagram, you'd naturally need an exceptional signal analyzer. In order to film the display screen of the SPAUN SP-AROS 609, you have to make sure that you eliminate any reflection. You would also need to mount the web camera exactly perpendicular to the surface of the screen to prevent any distortion in the picture.



To do this we improvised using a properly sized box on top of which the web cam was placed. We certainly won't win any prizes with this design, but it works!

In this way we used a signal analyzer - that provided a spectrum in high-resolution as well as in real time - for a waterfall diagram. The available software that we highlighted in a report in the 12-01/2012 issue of TELE-satellite had to be somewhat adapted so that it would work with the web cam and the high resolution and yet still would be able to generate a waterfall diagram quick enough.

The procedure for the installer is actually quite simple: the antenna system is aimed after which it's driven



across the entire satellite arc. It's not necessary to first configure a satellite in the signal analyzer or in the motors memory! Every satellite will make itself known through red/bright red to white spots on a vertical line. After just a short familiarization time, the installer will find it easy to recognize the more critical satellites based on its appearance.

Figure 5 shows the waterfall diagram for a correctly aligned antenna. In this case it's a 100cm offset dish with a DiSEqC 1.2 motor. The antenna is located in Portugal and there are walls that inhibit reception beyond 40 degrees east and west. The diagram shows the movement of the antenna from 30.0W to 40.0E and then back again. It's interesting to note that the images are not perfectly symmetrical. This is because the DiSEqC motor was able to drive faster to the left than it could to the right.

Popular positions such as 19.2E, 13.0E or 28.2E can easily be found in the diagram. Since the motor can move at a relatively constant speed (as long as you don't change directions), satellites that were not immediately recognized can be identified through extrapolation. This, for example, is exactly the case with the satellite between 19.2E and 13.0E: the vertical line is precisely in the middle - this could only be the 16.0 position!

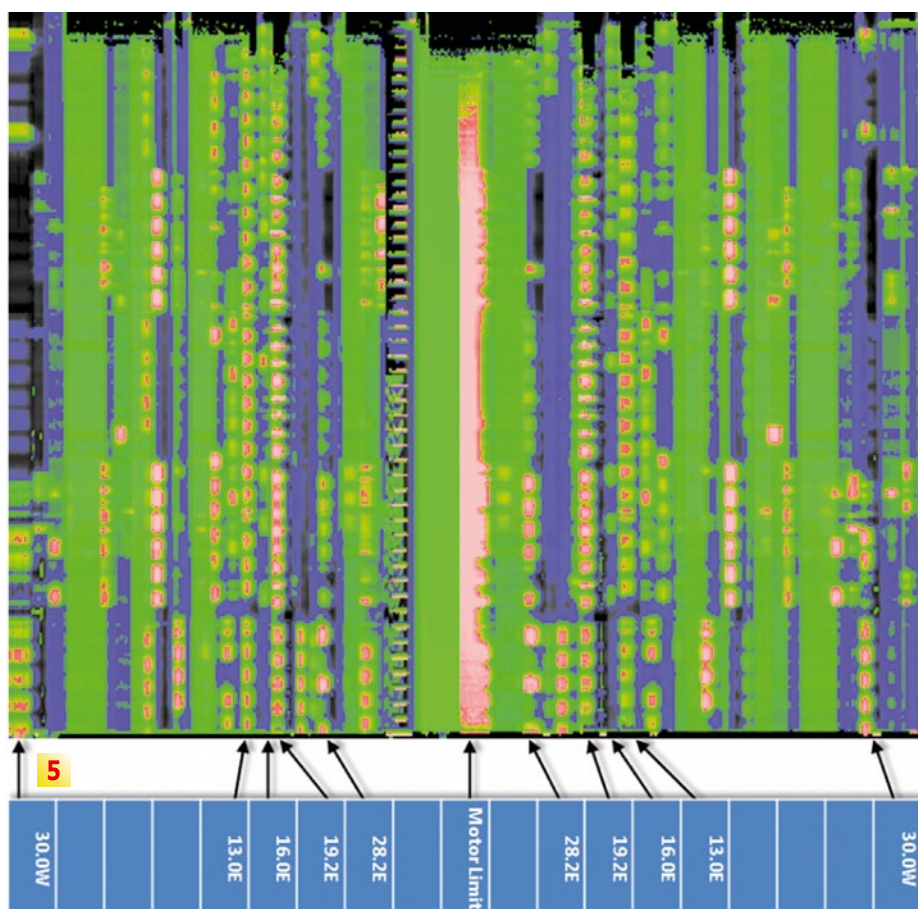
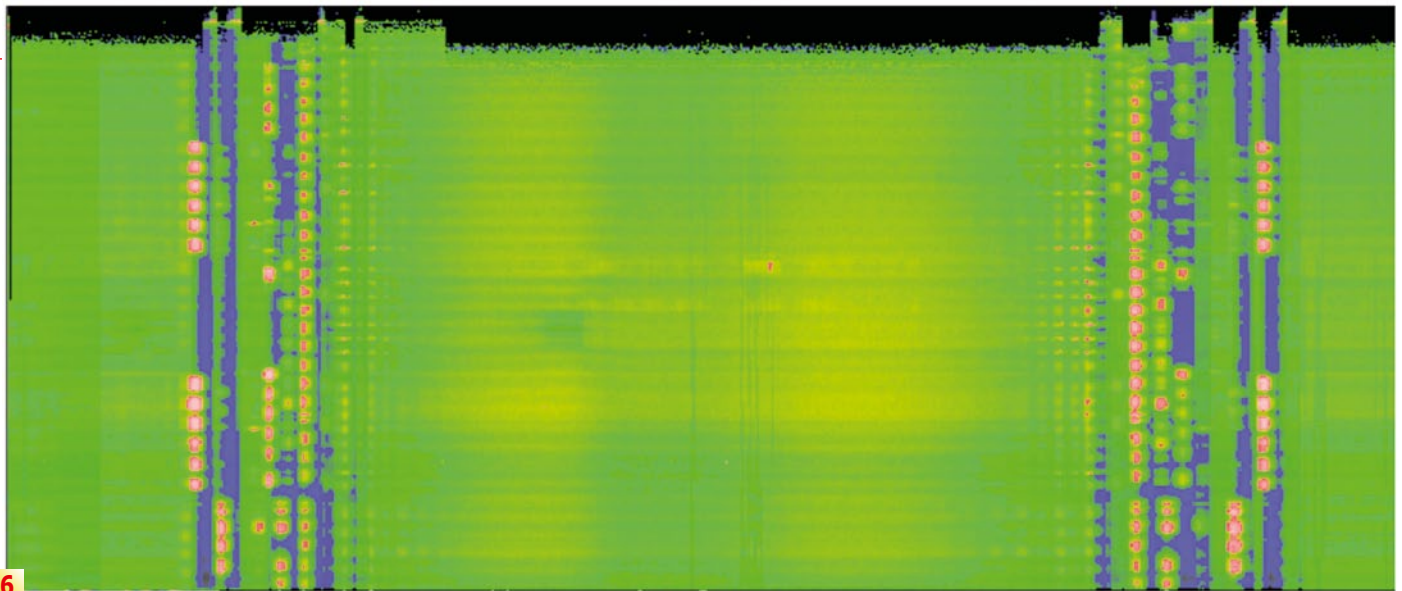


Figure 2: Interpretation of a waterfall diagram – the individual satellites are recognizable

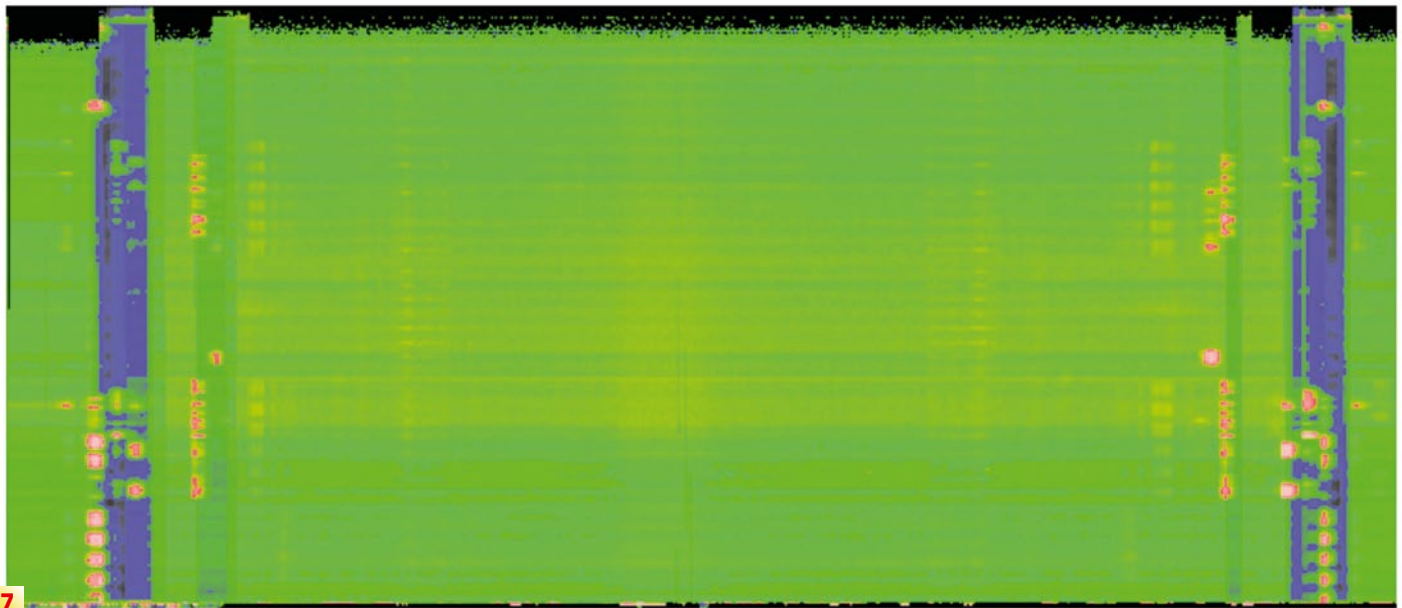
Figure 3: Box-mounted web cam pointed at the SPAUN SPAROS 609's display

Figure 4: The new software, adapted for the SPAUN SPAROS 609. The motor turned from Hispasat at 30.0W to Astra2 at 28.2E and back again to 30.0W

Figure 5: A perfectly aligned motor. The diagram presents an arc from 30.0W to 43.0E and back. As you can see, the stronger transponders are presented in red regardless of whether they are in the middle or on the outside edges. This shows that this system is perfectly set up.



6



7

To demonstrate how the waterfall diagram changes if the antenna is shifted to the left or the right, we deliberately misaligned our dish. Figure 6 shows the consequences of moving the entire motor/antenna assembly to the left. The western satellites have vanished. The overall reception capabilities have been reduced. The large green background is a result of the way the SPAUN SP-AROS 609 behaves: even though the level scale was fixed manually, the analyzer balances the scale anyway when there's only background noise being received. This is distorted somewhat by our software - there should be blue or dark gray here instead of green.

Then we turned our antenna to the right. The waterfall diagram now shows that only the western satellites are being received while the eastern satellites can no longer be seen. If you look closely at the diagram, you'll notice that Astra 19.2E is still weak but recognizable. This is because the Astra 19.2 satellite has an above average power output.

It's important to mention at this point that the user doesn't have to set anything up! The waterfall diagram is generated by the continuous recording of the spectrum. The images presented here resulted from a manual adjustment of the motor within its limits.

The waterfall diagram is a perfect tool to be used when aligning a motorized satellite antenna system. The user doesn't have to worry about storing any satellite positions in their DiSEqC motor; the motor needs only to be moved from its eastern limit to its western limit and with the aid of the waterfall diagram the installer can quickly interpret what corrections need to be made.

Another application would be the documentation of an installation. A complete waterfall diagram across the entire range of a motor would constitute reliable proof of a successful installation. It can also be used as a way to compare how a system's reception capabilities might have changed over the course of time.

Figure 6: The antenna is shifted to the left

Figure 7: The antenna is shifted to the right

After we misaligned our antenna for the purposes of generating the screenshots that are in this test report, it was, of course, no trouble at all to realign our dish with the help of the waterfall diagram.

One thing is for sure: in the end our antenna was perfectly realigned even though we had to leave the signal analyzer in the room since the webcam construction could not be taken on to the roof. Nevertheless, we were not only able to move the antenna back to its original position, but because of the waterfall diagram we were able to extract the last bit of gain from our antenna system.

We rewarded ourselves with a break by watching BBC on 28.2E; it's not an easy position to receive - spot beams are used here...



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5. Supported by DVBDream, DVBViewer, DVblink, ProgDVB, Skynet, Tsreader etc.



PCIe DVB-S2 Dual Tuner Card (TBS 6981)

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4. USB 2.0 interface.



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Function	HDTV DVB-S2 Linux Receiver with Multimedia Features and large Flash-memory for 3 Boot Images
DVB-S2/LAN	• / •
Channel Memory	unlimited
DiSEqC	1.0 / 1.1 / 1.2 / USALS
S-Video/HDMI	— / •
Scart/Digital Audio	— / •



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Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	DVB-S2 DVB-S2 DVB-T PVR Digital Receiver
DVB-S2/LAN	• / •
Channel Memory	4000
PVR	•
S-Video/HDMI	• / •
Scart/Digital Audio	• / •



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Manufacturer	Iccrypt
Website	www.iccrypt.com
Function	HD PVR enabled satellite receiver
DVB S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2
S-Video/HDMI	— / •
Scart/Digital Audio	— / •



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ICECRYPT



Manufacturer	Iccrypt
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Function	Two tuner HD receiver with Linux OS
DVB S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3 (USALS)
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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Manufacturer	Skyworth
Website	www.skyworth.com.hk
Function	ISDB-T Receiver with PVR function
DVB/S2/LAN	— / —
Channel Memory	1000
PVR	•
S-Video/HDMI	— / •
Scart/Digital Audio	— / —



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Manufacturer	Icecrypt
Website	www.icecrypt.com
Function	Digital Satellite Receiver with PVR ready
DVB/S2/LAN	• / •
Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3 (USALS)
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	DVB-S2/S2-L/DVB-T PVR Digital Receiver
DVB-S2/LAN	• / •
Channel Memory	4000
PVR	•
S-Video/HDMI	• / •
Scart/Digital Audio	— / •



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Manufacturer	Inpax
Website	www.inpax.com
Function	HDTV Satellite Receiver with PVR
DVB-S2/LAN	• / •
Channel Memory	10000
DISEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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INPAX



Manufacturer	Amiko
Website	www.amikostb.com
Function	Digital HDTV DVBS2 including dual boot
DVBS2/LAN	• / •
Channel Memory	unlimited
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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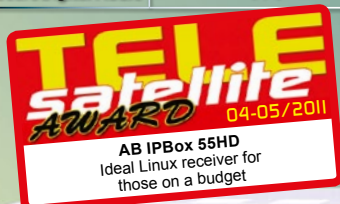
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AMIKO



Manufacturer	AB-COM
Website	www.abcomeu.com
Function	HDTV Linux Receiver with single tuner and USB for PVR
DVBS2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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Website	www.fulansoft.com
Function	Digital HDTV Receiver with Dual-Boot and Spark online-platform
DVB-S2/LAN	• / •
Channel Memory	unlimited
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	— / •



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Manufacturer	AB-COM
Website	www.abcomeu.com
Function	Twin DVB-S2 Multimedia Receiver
DVB-S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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Manufacturer	Jaeger / Doebis
Website	www.doebis.de
Function	Digital HDTV DVBS2 Receiver with Smart Card reader for HD+
DVBS2/LAN	• / —
Channel Memory	5000
DiSEqC	1.0 / 1.2
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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Manufacturer	AZBox
Website	www.azbox.com
Function	Digital HDTV Receiver with DVBS2 and ISDB-T Tuners and various Multimedia & Internet Features
DVBS2/LAN	• / •
Channel Memory	15000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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Function	Digital PVR DVBT Receiver
DVBT/LAN	— / —
Channel Memory	1000
PVR	•
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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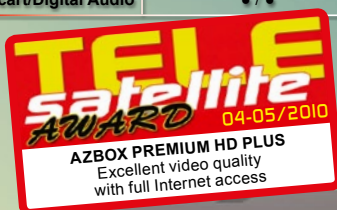
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Function	HDTV DVBS2 receiver with various Multimedia & Internet Features
DVBS2/LAN	• / •
Channel Memory	15000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
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Website	www.netup.tv
Function	Dual DVB-T / DVB-C - CI Professional PC Card
Channel Memory	unlimited
Channel Bandwidth	6,7,8 MHz
FFT mode	2K, 8K
Operating System	Linux



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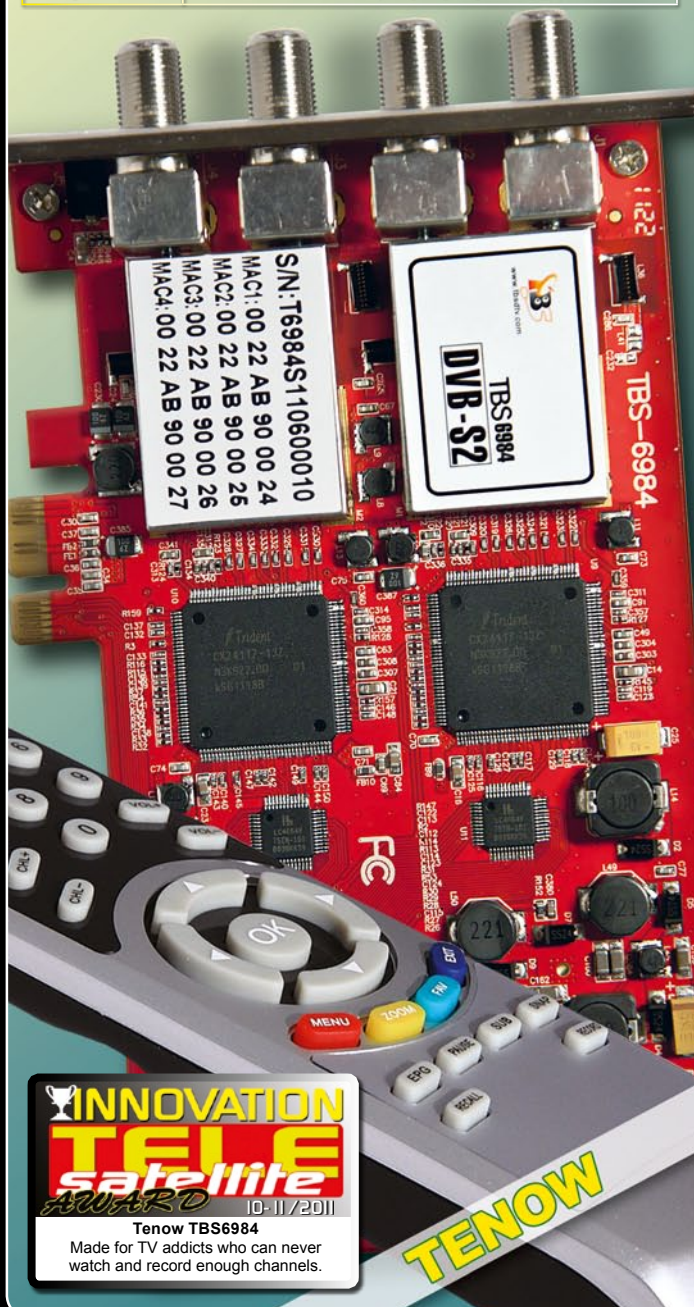
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Manufacturer	Tenow International
Website	www.tbsdtv.com
Function	DVB-S2 PCI-E card with 4 tuners compatible with Windows and Linux operating systems
Channel Memory	unlimited
Satellite Memory	unlimited
Symbol Rates	1-45 Ms/sec (QPSK), 2-36 Ms/sec (8PSK)
DiSEqC	1.0, 1.1, 1.2, 1.3, 2.x



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Website	www.tbsdtv.com
Function	DVB-S2 PCI-E professional card with Blindscan function
Channel Memory	unlimited
Satellite Memory	unlimited
Symbol Rates	0.2-45 Ms/sec (QPSK), 0.2-45 Ms/sec (8PSK)
DiSEqC	1.0, 1.1, 1.2, 1.3, 2.x



Tenow TBS6925

Has every reception feature you could possibly ask for, plus blind scan. The card of choice for true die-hard professionals venturing to the extreme edges of satellite reception.



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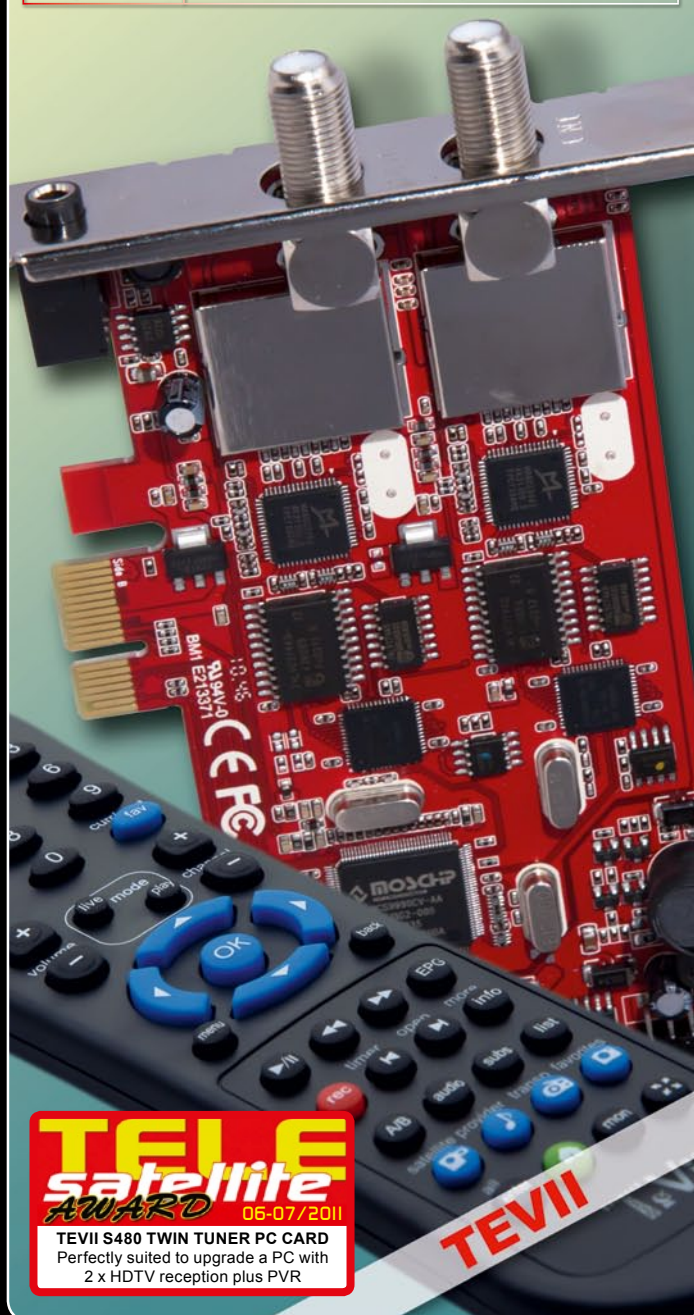
Manufacturer	Tenow International
Website	www.tbsdtv.com
Function	DVB-T / DVB-T2 PCI-E card with 2 Tuners
Channel Memory	unlimited
Channel Bandwidth	6,7,8 MHz
FFT mode	1K, 2K, 4K, 8K, 16K, 32K
Center IF Frequency	3 ~ 5 MHz



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Manufacturer	TeVii Technology
Website	www.tevii.com
Function	PCI-E card for TV & Radio reception on the PC in SDTV and HDTV with two separate Tuners
Channel Memory	unlimited
Satellite Memory	178 preprogrammed - added by user: unlimited
Symbol Rates	2-45 Ms/sec
DiSEqC	1.0, 1.1, 1.2, 1.3

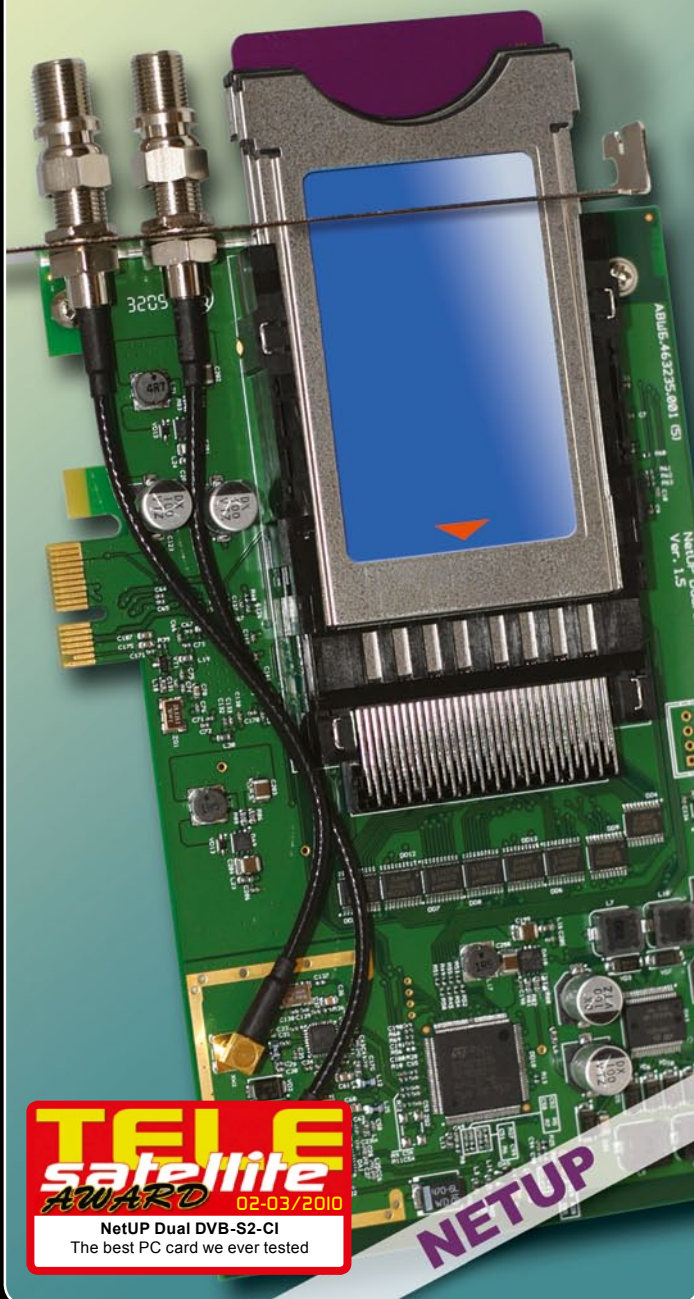




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Manufacturer	NetUP
Website	www.netup.tv
Function	Two Tuners DVB-S2 PCIe card
Channel Memory	unlimited
Satellite Memory	—
Symbol Rates	1 to 47 Ms/sec (QPSK), 1 to 31.5 Ms/sec (8PSK)
DiSEqC	1.0, 1.1, 1.2



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NETUP



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Website	www.tevii.com
Function	PCI-E card for TV reception on the PC in SDTV and HDTV
Channel Memory	unlimited
Satellite Memory	177
Symbol Rates	2-45 Ms/sec
DiSEqC	1.0, 1.1, 1.2, 1.3



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Manufacturer	SatCatcher
Website	www.satcatcher.com
Function	Digital and analog cable TV meter
Frequency Range	46~862 MHz (for digital TV) and 46~870 MHz (for analog TV)
Video Output	—
Built-in Monitor	120 x 64 3.5" LCD color display



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www.TELE-satellite.info/12/01/horizon
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Manufacturer	Horizon Global Electronics
Website	www.horizonhge.com
Function	Satellite and terrestrial antenna meter
Frequency Range	45~861 MHz (terrestrial) and 950~2150 MHz (satellite)
Video Output	—
Built-in Monitor	LCD display





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Manufacturer	WS International
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Function	Digital Satellite Meter with AutoFind and QuickSweep features
Frequency Range	950~2150 MHz
Video Output	—
Built-in Monitor	LCD display



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Dish Installation Tool

LEXIUM



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Function	Satellite Antenna Meter
Frequency Range	950~2150 MHz
Video Output	—
Built-in Monitor	LCD display



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Ideally suited to fastly install dishes





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Manufacturer	8dtek Technology
Website	www.8dtek.com
Function	Satellite Meter for Antenna Alignment
Frequency Range	L-Band (950-2150 MHz), DVB-S/S2 and analog signal
Video Output	A/V (composite + mono)
Built-in Monitor	Color graphic 16:9 LCD



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Manufacturer	8dtek Technology
Website	www.8dtek.com
Function	Satellite Meter for Antenna Alignment
Frequency Range	L-Band (950-2150 MHz), DVB-S/S2 and analog signal
Video Output	Composite
Built-in Monitor	Color graphic LCD





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Manufacturer	SatCatcher
Website	www.satcatcher.com
Function	Signal meter for digital signals in DVB-S, DVB-T and DAB. Analogue signals in FM radio.
Frequency Range	46-870 MHz
Video Output	Composite
Built-in Monitor	120 x 64 3.5" LCD color display



TELE-satellite Magazine Business Voucher

www.TELE-satellite.info/10/11/horizon
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Manufacturer	Horizon Global Electronics
Website	www.horizonhge.com
Function	Antenna Alignment Meter
Frequency Range	950-2150 MHz
Video Output	—
Built-in Monitor	LCD display





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Manufacturer	SPAUN Electronic
Website	www.spaun.de
Function	TV Signal Analyzer with WiFi Receiver
Frequency Range	45~865 MHz (terrestrial) and 950~2150 MHz (satellite)
Video Output	RCA Composite
Built-in Monitor	7 inch 16:9 color LCD display



SPAROS 609 WIFI OPTION
Converts the signal analyzer to a
universally usable tool



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Manufacturer	Horizon Global Electronics
Website	www.horizonhge.com
Function	Digital and analog terrestrial TV meter with spectrum analyzer and USB data output
Frequency Range	49~861 MHz
Video Output	—
Built-in Monitor	LCD display



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Small, economic and fast
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Manufacturer	SatCatcher
Website	www.satcatcher.com
Function	Signal Meter for DVB-T, analogue TV, digital DAB radio, analogue FM radio
Frequency Range	46-870 MHz
Video Output	—
Built-in Monitor	120 x 64 3.5" LCD color display



SATCATCHER DIGIPRO T MAX
Easy to use signal meter that doesn't stop at DVB-T. Everything you want from a signal meter



SATCATCHER



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Manufacturer	Horizon Global Electronics
Website	www.horizonhge.com
Function	DVB-C and analog cable TV meter
Frequency Range	51-858 MHz
Video Output	—
Built-in Monitor	LCD display



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HORIZON



TELE-satellite Magazine Business Voucher

www.TELE-satellite.info/10/05/8dtek
Direct Contact to Sales Manager

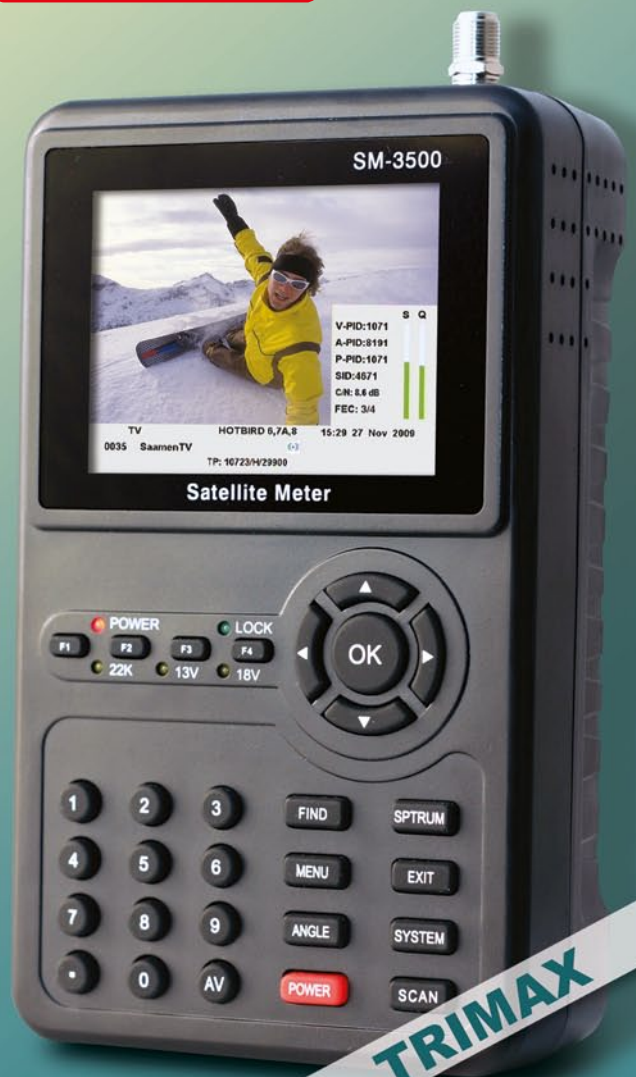
Manufacturer	8dtek Technology
Website	www.8dtek.com
Function	DVB Signal Meter with tv monitor for DVB-S and DVB-T
Frequency Range	950~2150 MHz (satellite) and UHF/VHF (terrestrial)
Video In/Output	RCA/RCA
Built-in Monitor	3.5" LCD color display



TELE-satellite Magazine Business Voucher

www.TELE-satellite.info/10/03/trimax
Direct Contact to Sales Manager

Manufacturer	Trimax Technology
Website	www.trimaxtec.com
Function	Satellite Meter with TV and Spectrum
Frequency Range	930~2150 MHz
Video Output	RCA Composite
Built-in Monitor	3.5" LCD color display





TELE-satellite Magazine Business Voucher

www.TELE-satellite.info/10/01/horizon
Direct Contact to Sales Manager

Manufacturer	Horizon Global Electronics
Website	www.horizonhge.com
Function	Handheld Satellite Meter for fast and easy Dish Alignment
Frequency Range	950~2150 MHz
Video Output	—
Built-in Monitor	128x64 Pixel LCD



TELE-satellite Magazine Business Voucher

www.TELE-satellite.info/10/01/gi
Direct Contact to Sales Manager

Manufacturer	Global Invacom
Website	www.globalinvacom.com
Function	Signal Analyzer with an Optical Input
Frequency Range	950(160)~2150 MHz
Optical Range	+10 to -25 dBm
Video Output	—
Built-in Monitor	Eight-digit LCD display



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NANOSAT



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OPTISCAN



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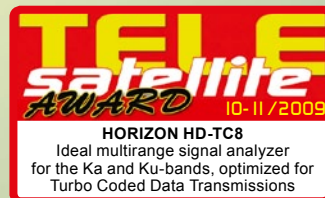
Manufacturer	SatCatcher
Website	www.satcatcher.com
Function	Fully-fledged Signal Meter with TV display
Frequency Range	930~2150 MHz
Video Output	RCA Composite
Built-in Monitor	120x64 3.5" LCD color display



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www.TELE-satellite.info/09/11/horizon
Direct Contact to Sales Manager

Manufacturer	Horizon Global Electronics
Website	www.horizonhge.com
Function	Satellite Meter optimized for Ka-Band
Frequency Range	950~2150 MHz
Video Output	—
Built-in Monitor	LCD display



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Manufacturer	Amino
Website	www.aminocom.com
Function	IPTV Set-top-Box
Stream Protocol	UDP
Menu Standards	NetUP Middleware
WLAN	—



TELE-satellite Magazine Business Voucher

www.TELE-satellite.info/11/03/netup2
Direct Contact to Sales Manager



AMINO



Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	IPTV Set-Top-Box
Stream Protocol	UDP
Menu Standards	HTML4, Javascript 1.5, Java Virtual Machine
WLAN	• (via USB stick)



TELE-satellite Magazine Business Voucher

www.TELE-satellite.info/11/01/jiuzhou
Direct Contact to Sales Manager



JIUZHOU



Manufacturer	NetUP
Website	www.netup.tv
Function	IPTV Gateway for DVB Signals
Stream Protocol	UDP
Menu Standards	NetUP Middleware
WLAN	—



TELE-satellite
Magazine
**Business
Voucher**

www.TELE-satellite.info/10/11/netup
Direct Contact to Sales Manager



Manufacturer	AZBox
Website	www.azbox.com
Function	HDTV DVB-S2 and IPTV receiver with various Multimedia&Internet Features
Stream Protocol	UDP
Menu Standards	html
WLAN	—



TELE-satellite
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www.TELE-satellite.info/10/09/azbox
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► DVB-S2 MPEG-4 HD/SD Receiver:

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- Support customized OSD language
- PVR, time shift
- CA optional with Topreal embedded, silicon security
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- Record one channel & watch another at the same time
- Support subtitle, teletext
- HDMI out with HDCP
- Other models available(DVB-C/S/T, MPEG-2/MPEG-4, HD/SD)

► Topreal CAS+SMS(Billing System):

- | | |
|--------------------------------|----------------------------------|
| • Subscriber Management System | • Advance/Silicon Safety |
| • Supporting simulcrypt | • Entitlement management |
| • IPPV(Impulse Pay per View) | • IPPT(Impulse Pay per Time) |
| • Fingerprint | • Mail/Announcement/Notification |
| • Paired function | • Regional Control |
| • Parent Control | • Card or Embedded CA available |



Beijing Topreal Technologies Co.,Ltd is a professional designer and manufacturer of digital TV head-end system. We have developed products with our own brand,which cover from DVB-S receiver,encoder(MPEG-4 HD/SD encoder,MPEG-2 SD encoder),multiplexer,scrambler,modulator to Set-top-box.

We also offer value-add products like subtitle insertion system,EPG,STB advertisement service system,browser,channel tracing table.All the products fully comply with DVB standard.

■ The administration and R&D teams of OEM/ODM manufacturer Panodic can be found in the futuristic Grentech Building in Shenzhen's High Tech Park.



TELE-satellite Magazine Business Voucher

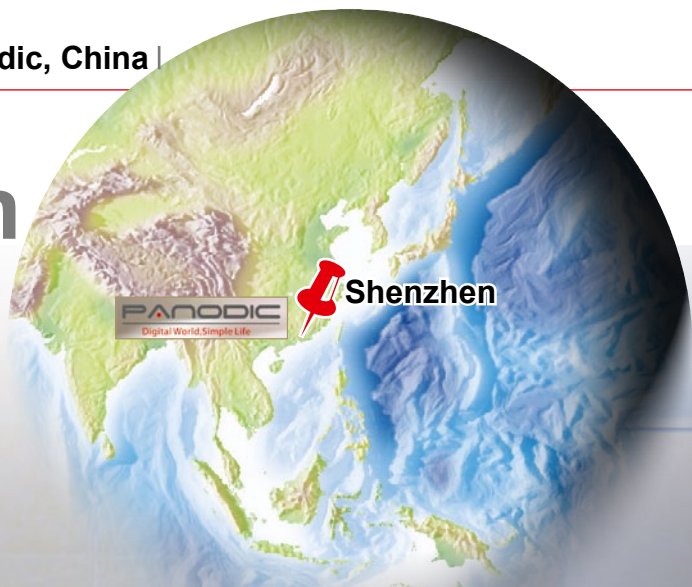
www.TELE-satellite.info/12/03/panodic-mico

Direct Contact to Sales Manager

One of the Top Five: Panodid

- *Multiple quality control points before, during and after production*
- *Concentrating on digital TV products*
- *Cooperating with many license providers*
- *Continuous product palette expansion*

The Big Expansion of Panodic



■ **Company founder:** You Zhen Yu. He and two other partners founded MICO in 1999 and Panodic in 2003.



In 1999 three technically enthusiastic young entrepreneurs founded the company MICO in Hong Kong. Their first product: a DVD player. Since then they have gotten larger and larger so that today they are one of the top five receiver manufacturers in China with more than 1200 production employees and over 100 R&D engineers. The technology and marketing departments are located in the Shenzhen High Tech Park; the production facility is only a half hour car ride away in Fuyong in the Bao'an District. We paid a visit to both facilities to see for ourselves how Panodic managed to get this far.

So, obviously the first question is this: is the company name MICO or Panodic? Marketing Director Alan Yu has the answer for us: "The company MICO Hongkong still exists and is the parent company of the Panodic Group. MICO has its headquarters in Hong Kong and that's where you'll also find the Panodic Group's financial management and logistics."

Panodic itself was founded in Shenzhen in 2009 and sold their products under this name to the local market in China. The company's products are also exported under every possible brand

name, just not the Panodic name. "We export as an OEM and ODM manufacturer and don't use our name at all."

In addition to the production facility in Bao'an, the Panodic Group also includes a branch office in Beijing. "20 engineers work there primarily on our IP receiver's software. The domestic sales team can also be found there." For the Chinese market, Panodic offers primarily DVB-C and IPTV receivers. "TV and Internet are constantly merging closer and closer together; we are integrating Internet services with our DVB-C receivers."

Panodic started exporting their DVB products in 2005. "The first receiver that we manufactured for export was a DVB-T receiver for Great Britain", remembers Alan Yu. That was also the time that Panodic expanded into the then new receiver business. "Panodic's R&D engineers have accomplished quite a bit in just a short time: "We're introducing a new combination receiver for DVB-S2 and DVB-T as well as for DVB-S2 and ISDB-T." A Linux-based IP box was also completed just now.

"An interesting niche is DVB-T modules for reception in a car." This module with DVB-T/MPEG4 is connected to

the DVD players video screen in the car." Rear seated passengers can use a remote control to change channels while the car is in motion." The driver of course is looking out the front window at the traffic. Panodic is planning to make this product available in the first quarter of 2012.

"We're also working on projectors", said Alan Yu surprisingly. Sure enough, in these days of HD there are more and more viewers interested in TV projectors. "A projector really makes HD beautiful", he comments and then promises, "The first samples are already completed with production set to begin in the second quarter of 2012." 3D can't be all that far away then. "In the third quarter of 2012 we'll also be introducing receivers with integrated 3D converters."

Where can you find Panodic's products? "In 2011 we still only sold about 10% of our products domestically here in China. The remaining 90% were exported. In 2012 it will shift to about 20% domestic and 80% export." Alan Yu is expecting to see an increase in DVB-C as well as ABS, the Chinese digital satellite TV standard.

But the Marketing Director is con-



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hewei@china.com

sun Yao1023@gmail.com



vinced that exports will also pick up: "With our new DVB-T2 and DVB-S2 receivers we will increase our market share and the upcoming football world cup will increase ISDB-T sales in South America."

It's becoming clear that Panodic is



1

not a manufacturer that produces only when there are orders; they are continuously active in further development. "We are cooperating with many industrial partners, such as, NDS, Conax, SuperNovelTV as well as chip manufacturers ST and Ali. We've also received licenses from Sisvel DivX and Inview." Inview is a provider of EPG information and Internet-based additional data such as IPTV. Thanks to the appearance of more and more hybrid receivers, the integration with the Internet is moving more and more to the forefront.

And that's how Panodic managed to work themselves up into the group of top five manufacturers in just a few years. From the original three-man founding team the company has grown to over 1500 employees and there's no end in sight. Alan Yu: "We are constantly working on designing and developing higher quality products. This includes, above all, hybrid receivers." These are receivers that are mostly interesting to operators.

The expansion of their product palette suggests that Panodic will continue to climb higher in the ranks of top class companies.

2



1. Huang Wei is one of the founders of MICO/Panodic. He takes care of the strategic orientation of production.

2. Xu Hai Bin is Panodic's CEO. He's in charge of the company's daily operations and can reveal to us: "In 2011 we achieved sales of 70 million USD and in 2012 we're expecting an increase to 100 million USD."

**DESCRIPTION: KU SUPER MINI SINGLE
MODEL :BK5-01**

KU-BAND

Features:

1. Dual Polarity Switchable
2. Super low Noise
3. Digital Ready
4. High Gain Output
5. Easy Installation
6. Waterproof



**DESCRIPTION: C-BAND SINGLE
MODEL :BC-103B**

C-BAND

Features:

1. Dual Polarity Switchable
2. Super low Noise
3. Digital Ready
4. High Gain Output
5. Easy Installation
6. Waterproof



KU-BAND SINGLE
MODEL: BK-101B



KU-BAND TWIN
MODEL: BK-201B



KU-BAND QUAD
MODEL: BK-401



KU-BAND OCTO
MODEL: BK-801



KU BAND DUAL SINGLE
MODEL: BKM-01



C-BAND TWIN
MODEL: BCM-12B



C-BAND QUAD
MODEL: BCM-14



C-BAND ONE CABLE SOLUTION
MODEL: BCS-11



C-BAND V./H. OUTPUT
MODEL: BCM-11



C+KU-BAND
MODEL: BCK-13



DiSEqC 2x1
MODEL: BDS-23



DiSEqC 4x1
MODEL: BDS-43



DiSEqC 4x1
MODEL: BDS-45



DiSEqC 8x1
MODEL: BDS-81



DiSEqC 4x1
MODEL: BDS-46



DiSEqC 4x1
MODEL: BDS-47



MULTISWITCH 2x4
MODEL: BMS-24



MULTISWITCH 2x6
MODEL: BMS-26



MULTISWITCH 2x8
MODEL: BMS-28



MULTISWITCH 4x4
MODEL: BMS-44



MULTISWITCH 4x6
MODEL: BMS-46



MULTISWITCH 4x8
MODEL: BMS-48



Jason
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Angela
INFORMATION

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Marketing Tel: +86-756-8919959 Fax: +86-756-8699312

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PANODIC

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Panodic Electric (Shen Zhen) Limited

研发中心

R&D center

■ Receptionist Yan Jing greets visitors in the lobby



PANODIC
Receiver Manufacturer, China
www.panodic.com

Company Details

Engineers in Research & Development | Total Number of Employees

0 1000 2000

Average Turnover (Previous, This, Next Year Estimates)

0 50 100 Mio US\$

Production Certificates
RoHS, DVB, EMC

Production Categories
OEM

Main Products
Receivers for DVB-T/T2, DVB-S/S2, DVB-C, ISDB-TB, IPTV, DVD
Players, Projectors

www.TELE-satellite.com/TELE-satellite-120/eng/panodic.pdf



■ Panodic's Marketing Director is Alan Yu. He is a loyal reader of TELE-satellite.





Sales Team

1. A look at the Sales Team. The employees from here correspond with customers in Europe, The Middle East and Southeast Asia. As an OEM/ODM, Panodic does not manufacture products under their own name, but they ship products under the customers' brand name to their corresponding countries.

2. Jessica is one of the Sales employees. She covers the CIS region and central Europe.



R&D Team

3. Do not disturb! Employees are working in deep concentration here. This is the IPTV R&D Team. A total of 30 engineers work in this department.

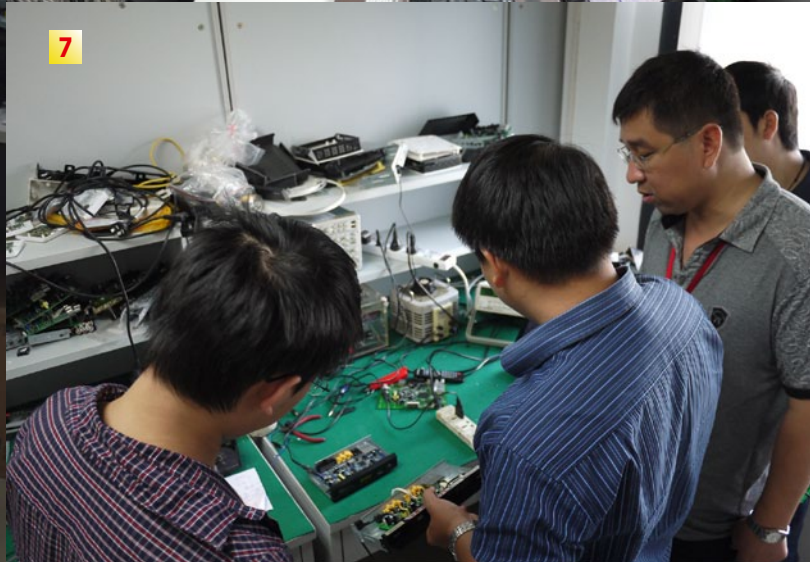
4. Panodic sells DVB-C receivers within China under their own brand name. Alex Li is in charge of the DVB-C R&D Team and makes sure that the 16 engineers on his team continue to enhance the DVB-C units and equip them with new features.

5. The engineers here in the DVB R&D Team are working on the further development of DVB-T2 and DVB-S2 receivers.

6. Two engineers are working on a problem with a CI module.

7. Finally, the practical test. Software solutions are put to the test here.





8

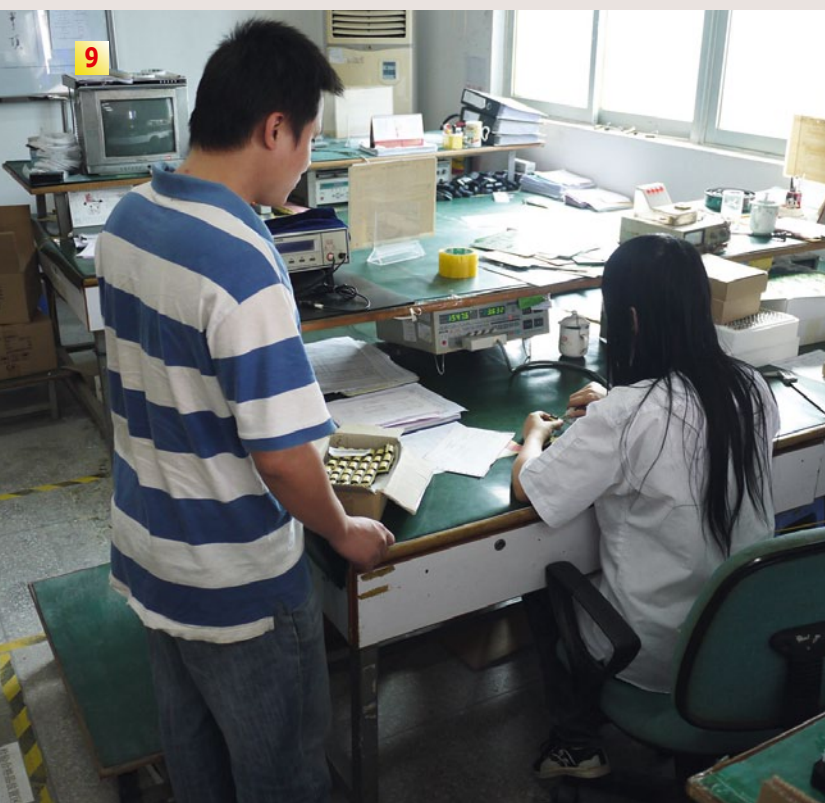


Receiver Production

8. In this building in Bao'an, not far from the Shenzhen airport, you'll find Panodic's production facility.

9. Delivery control point: Samples of electronic components are checked here against their technical data. 14 quality control inspectors are at work here.

10. The heart of every receiver is stored here: the chipset. The chips arrive in a vacuum sealed package. As soon as one of these packages is opened, it has to be immediately placed in this environmental chamber and kept between 18-28°C. An inspection team worker regularly checks the built-in thermometer.

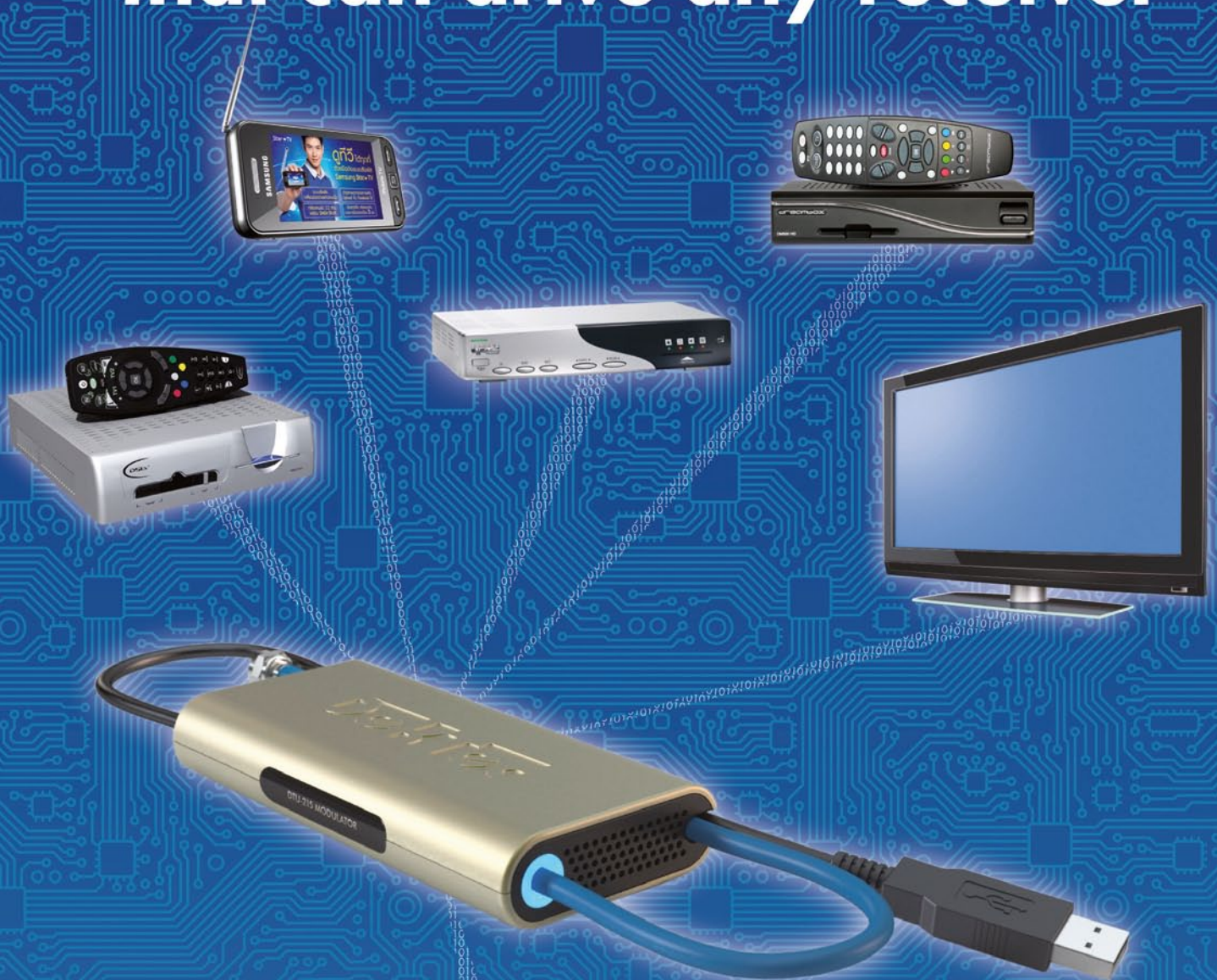


9



10

The USB-2 VHF/UHF Modulator that can drive any receiver



DTU-215-GOLD

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**Channel simulator
included**

DekTec's USB modulator DTU-215-GOLD is an option-packed compact modulator that can cope with any cable or terrestrial modulation standard used throughout the world, including DVB-T2, DVB-C2 and ISDB-T. The modulator comes with streamer software that can run on a PC or laptop. The RF output of the modulator can be connected directly to the antenna input of a digital-TV receiver. As it is powered from the USB-2 bus, no external power adapter is required. This modulator is the ideal tool for demonstrations, research and development and to test drive setup boxes and decoders. For more information visit our website where you also will find our local resellers worldwide.

DeKtec
www.dektec.com



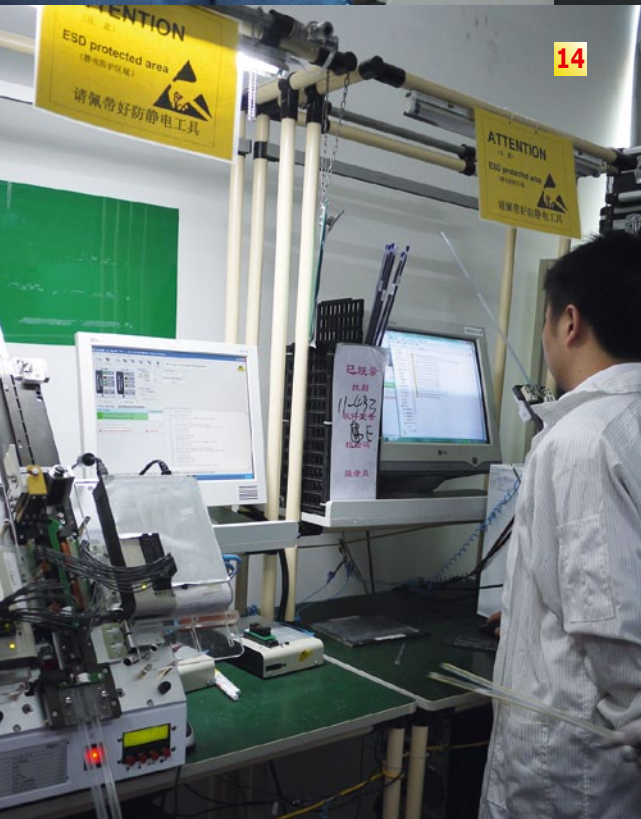
11



12



13



14



15



16

Receiver Production

11. You can't do anything without the circuit board. SMT machines install surface mounted components on the circuit board. Eight SMT lines are in place here. Zhou Bo is the Manager of this department: "We work daily in two eight-hour shifts and produce 24,000 circuit boards with 90 employees."

12. The AOI (Automatic Optical Inspector) checks that all the components are correctly mounted on each circuit board.

13. After all the surface mounted components have been installed, the larger components have to be mounted. Four AI machines (Automatic Insertion) have been operating here since 2011 with more to be added soon.

14. The software is loaded onto the chip here. Two chips can be flashed at the same time, a process that takes about 20 seconds. Two machines operate in parallel. These machines are also new for Panodic; before that the chips were each loaded manually in the programmer.

15. Manual component assembly takes place here. Eight assembly lines are in operation here and Chen Yi Jiao is one of the Manager of this department: "310 employees work here. At the moment we are working one daily eight-hour shift."

16. At the end you have a complete receiver. 10 of these assembly lines can be found on this floor in the Panodic production facility. 450 employees work here.

17. The first station after a receiver is manufactured and before it leaves the factory is where a receiver is "burned in" for a total of four hours; in other words, the receiver is powered up and put into operation.

18. A look in the storeroom. It's 2200 Sq-meters in size and made up of two levels.



17



18

19

Testing Technology at Panodic

19. Only larger manufacturers like Panodic operate their own EMC chamber. The receivers are checked here for any electromagnetic radiation and tolerance. A Panodic employee is seen here placing a receiver in the 2.5 x 4 meter chamber and getting ready to start the test program.

20. 10 inspectors perform production quality checks. Here we can see an engineer checking a receiver taken straight from production.

21. The function of the software is also checked. An employee is seen here verifying that the receiver's menu screen is correctly displayed.

22. Can Panodic's receivers also work in higher outside temperatures? Panodic's quality control department constantly verifies a receiver's technical specifications. Sample units are taken out of production and checked for heat tolerance in this chamber. The receiver has to function correctly for four hours at 50°C. The TV monitors are directly connected to the receivers and show if the receiver in the chamber is working properly. Panodic has two of these ovens.

23. What's true for heat is also true for cold. These refrigeration chambers cool the units to 10°C. And just like before, the receivers have to be able to withstand four hours at this temperature and still work correctly in order to comply with its technical specifications.

24. A saltwater spray is also available to the Quality Control team.

25. What happens if a receiver is dropped? With this drop-testing machine quality control inspectors can check to see if the receivers meet the requirements.

26. Production samples are checked with X-rays.

27. John Dai is happy! He is Panodic's Quality Director. With his 16 inspectors and a supervisor he is responsible for quality control.

22



21





28



29

28. This employee packages Panodic receivers that are sold domestically.

29. The receivers function is not the only important aspect; its design must also fit. One of the 10 employees in the Design department is working on making this HDMI stick visually appealing. A test report on this device will appear in an upcoming issue of TELE-satellite.

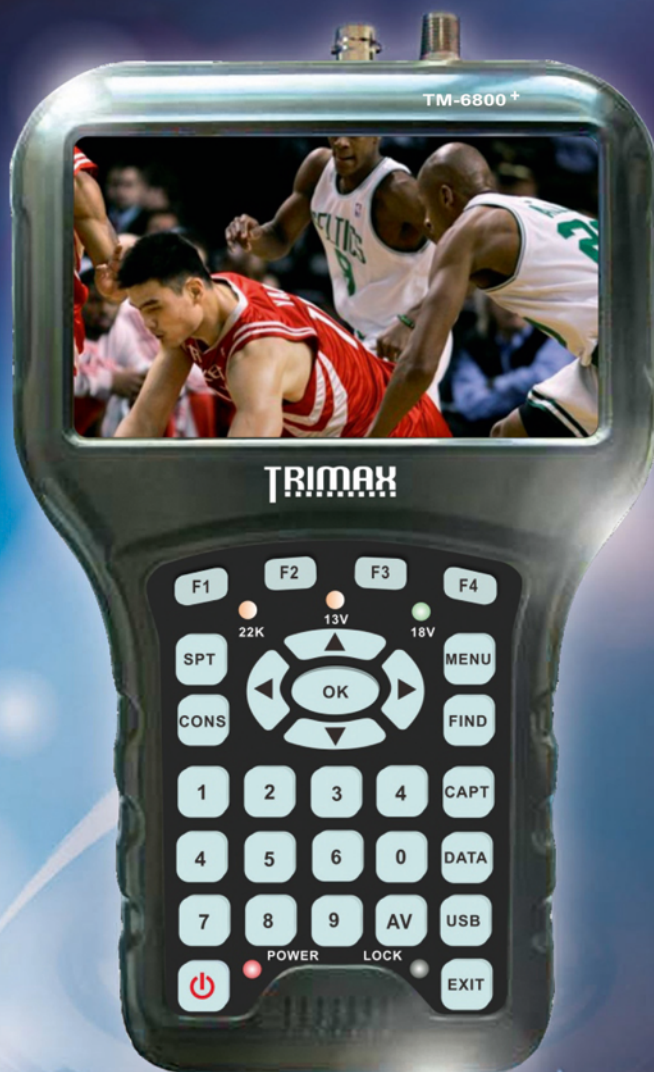
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„Small and Valuable“



TELE-satellite Magazine Business Voucher

www.TELE-satellite.info/12/03/turbosat-icecrypt

Direct Contact to Sales Manager

■ TURBOSAT's headquarters
in Sittingbourne south east of
London

- *own receiver line ICECRYPT*
- *50% of sales outside Great Britain*
- *Focus on receivers, CAM, SmartCards and LNBs*
- *80,000 receivers a year*
- *produces Dolly Buster TV programming via HOTBIRD*



New Receiver from TURBOSAT

■ International Sales Manager Chris Ward in front of small sampling of TURBOSAT's products: ICECRYPT receivers and LNBs. He is the contact for new dealers in Europe and other areas.





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It's not the size that matters but rather what's inside. The founder of TURBOSAT, who's called 'Paddy' by everyone, took this motto and simplified it: "Small and Valuable". We wanted to find out what he meant by this and how a motto like this fits in with a satellite wholesaler and manufacturer so we popped in to visit TURBOSAT in Sittingbourne south east of London.

In Sittingbourne's industrial park you'll find one company after the other. Not far from here is the mouth of the Thames and all the ferries to France, Belgium, Holland, etc., dock nearby and even the Chunnel, the tunnel under the English Channel, is only a few miles away. It's a good location for a company that has their receiver series produced in South Ko-

rea with customers not only in Great Britain but also in Europe. Transport distances are relatively short in all directions!

TURBOSAT is a very old company. The company's founder came to London from Macao in the 1980's to study. Then the first satellite TV channels began to appear and 'Paddy' recognized instantly that this was a huge business opportunity. He started by selling satellite systems.

"In our first actual business year 1986 we sold about 500 satellite systems", remembers "Paddy" from the beginning so long ago. The business flourished and consistently expanded until it was necessary to acquire a large warehouse. They moved into a building in 2004 in Sittingbourne that

is their headquarters still today.

A big reason for the move was the enormous success of their own receiver line that was started in 2000 with the ICECRYPT brand name. "We needed much more warehouse space", remembers 'Paddy'. In the meantime though TURBOSAT sold a gigantic number of ICECRYPT receivers: "In 2010 it was 80,000 receivers and for 2011 the numbers will be about the same", reveals Paddy. For 2012 though he's expecting a significant increase: "That's when the analog terrestrial channels in Great Britain will be turned off."

That the analog shutdown would have such an impact on sales figures is clarified by a look at the receiver models: "Our best selling unit is the T5000, a DVB-T receiver." These huge

1



TURBOSAT
Wholesaler and Manufacturer, UK
www.turbosat.com/

www.TELE-satellite.com/TELE-satellite-1111/enq/turbosat.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0.....12.....25

Average Turnover (Previous, This, Next Year Estimates)

0.....2.5.....5 Mio GB£

Production Certificates
DVB
Production Categories
own brand **ICECRYPT**
Main Products
Satellite Receiver for DVB-T/T2, DVB-S/S2, LNB, SmartCards



2



3



4

1. The UK sales team: Carol Cannon (left), James Sandison (center) and Sara Stacey (right). Dealers from Great Britain place their orders for ICECRYPT receivers, CAMs, SmartCards and LNBs here.

2. Dealers from outside of Great Britain get in touch with Hana Vejmelkova (left, responsible for eastern Europe) and Manuela Fasano (right, responsible for southern and western Europe).

3. Dawn Shoveller keeps the books organized.

4. International Sales Manager Chris Ward is always on the phone talking with dealers in northern and central Europe. His most important customers are in Germany, Austria and Switzerland. He can speak perfect German with them; that's not surprising since he grew up in Germany.

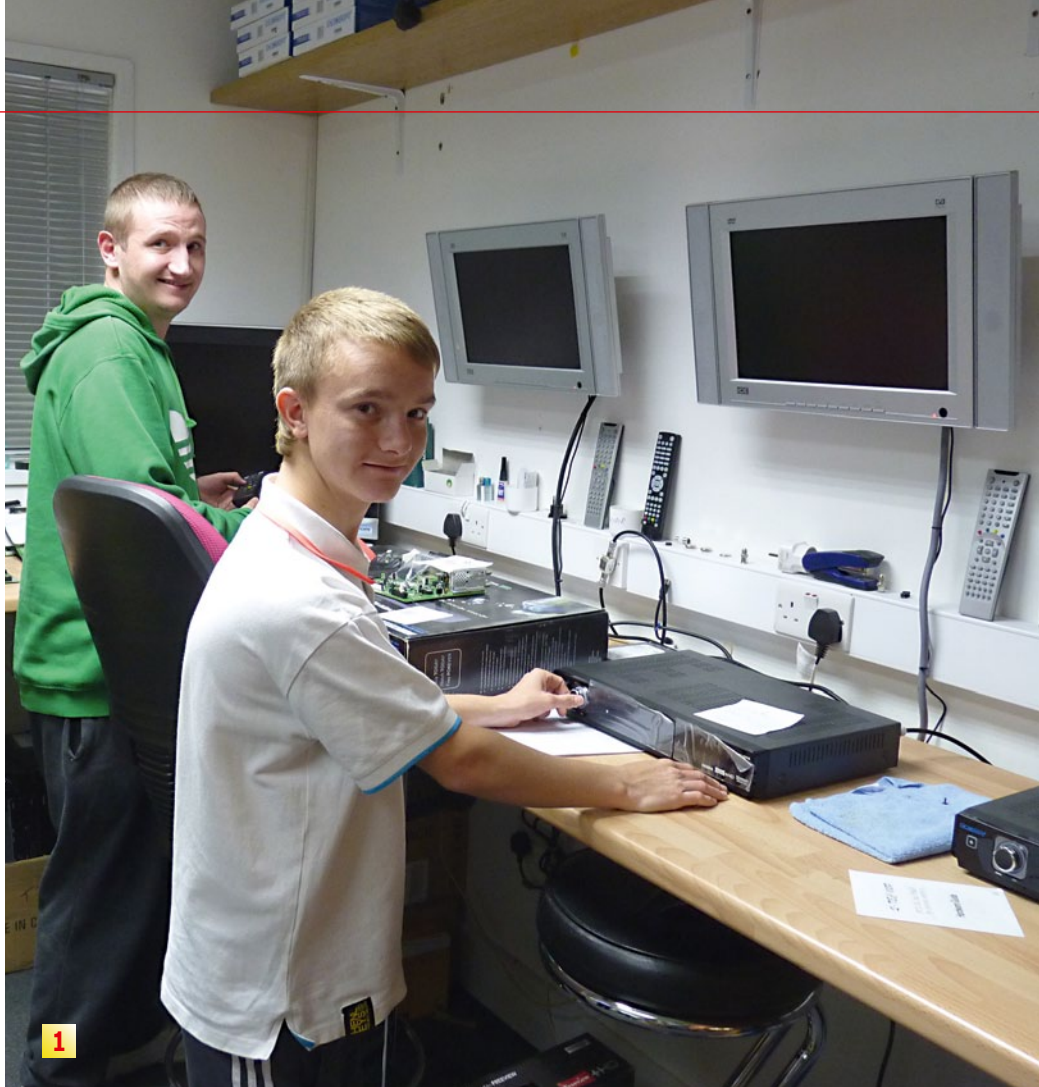
sales figures are supported by another important reason: TURBOSAT receivers are listed with every large chain in Great Britain. "Our receivers can be found in the superstores from TESCO, in the MAPLIN electronics shops, in CPC, Dixons, John Lewis, at Play.com and many others."

Sure enough, three receiver models make up nearly 75% of all receiver sales: "For the national market in Great Britain it's the T5000 for DVB-T and it's brother the T2400 with PVR for DVB-T2 as well as the ICECRYPT 3000 for the European market." The latter receiver we already introduced to you in our TELE-satellite 08-09/2011 issue with a detailed test report. "The T2400 even comes with a 2.0 terabyte hard drive!" says 'Paddy'. Normally, such high-capacity hard drives can't be connected. "A special chip makes it possible."

Sales at TURBOSAT are divided into two regions: "Half of our sales are domestically here in Great Britain; the other half is to Europe." International Sales Manager Chris Ward tells us more: "Our ICECRYPT receivers make up about 50% of our sales with our CAM's accounting for about 20%. SmartCards follow with 15% with the rest consisting of other satellite components such as our own LNB series." The quantity of LNBs may be considerable but because of their low sales value they don't have much of an impact on overall sales.

The high SmartCard sales figures comes from another TURBOSAT business branch. "We have the exclusive rights for the Dolly Buster adult-oriented TV service", reveals Chris Ward. "We have five channels on HOTBIRD and we sell our Dolly Buster SmartCards to any country where HOTBIRD can be received."

And now we come back to the motto that we highlighted earlier, "Small and Valuable". TURBOSAT has placed its entire focus on small products since they are easier to ship. "For this reason we don't deal with larger and heavier products", explains Paddy. TURBOSAT concentrates on valuable products such as receivers, small



1

1. A look in the Technical Department. Defective units are quickly repaired here..

2. Technical Director is Ray Gargiulo. One of his main tasks is to check production samples from the manufacturer in Korea. "TURBOSAT is an ODM (Original Design Manufacturer)", he explains, "Our own Manufacturing Engineers design the receivers; the receivers are then manufactured based on these designs."



2

SmartWi wireless Multi Room Solution



New SmartWi ready for Operators

Please let us introduce the new SmartWi. The market leader in wireless multi-room solutions now comes with a range of improved technical features, and we are frankly very proud of the new design. Coming from Denmark it is almost like the fairy tale 'The Ugly Duckling' that turned into a beautiful swan.

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products like SmartCards and CAMs and keeps its distance from larger and heavier products. TURBOSAT has allowed itself one exception: LNBs. Yes, they are small, but thanks to the overall drop in price, they aren't all that valuable anymore. But since they are easy to ship, TURBOSAT has included them in their product assortment.

Chris Ward tells us how many employees TURBOSAT has: "Four employees are in the domestic sales team for Great Britain with another four for European and Middle eastern sales." Administration and technical have another six employees. "Then there are our manufacturing engineers that develop our receivers; some are here and others are at the manufacturer in

Korea."

And, last but not least, we wanted to know what new products we can expect to see from TURBOSAT in the near future. According to 'Paddy', a number of new receivers are coming down the line: "Currently we're working on a Linux based DVB-S2 receiver with MPEG4, CI+, SmartCard, SCR support and Internet browsing. A DVB-S2 model with MHEG for Great Britain will appear at the end of 2011 that will supplement our DVB-T2 model. We're also working on a combo receiver with DVB-S2 and DVB-T and for early 2012 we're working on a combo DVB-S2 and DVB-T2 receiver."

'Paddy' got it right with his "Small and Valuable" company motto. TURBOSAT concentrates on high-value

products like receivers and equips them with more and more outstanding features.

In this way the company will continue to grow and sales will continue to increase - and this not only at home in Great Britain but also in Europe and beyond!

1. Customer Support is an integral part of a manufacturer. James Evans is in charge here; he gets the calls from customers when there are any problems.

2. Warehouse Manager Nick Deleslie transformed his office into a small showroom. He keeps an eye on incoming and outgoing shipments.

3. Luke Titshall keeps everything organized in the storeroom. He brings the palettes of receivers ordered by their dealer customers out for transport.



2



3



Over-The-Top

■ The OTT Development Team works on the sixth floor of the Jiuzhou Electric Building in Nanshan's Hightech Park in Shenzhen, China.



TELE-satellite Magazine Business Voucher

www.TELE-satellite.info/12/03/jiuzhou-ott

Direct Contact to Sales Manager

by **Jiuzhou**

- ***Developes Digital TV receivers optimized for OTT***
- ***Dedicated OTT development team***
- ***Market for OTT in Europe and North America***
- ***Upgrade of older digital receivers possible with a software upgrade***

Jiuzhou's OTT Development Team

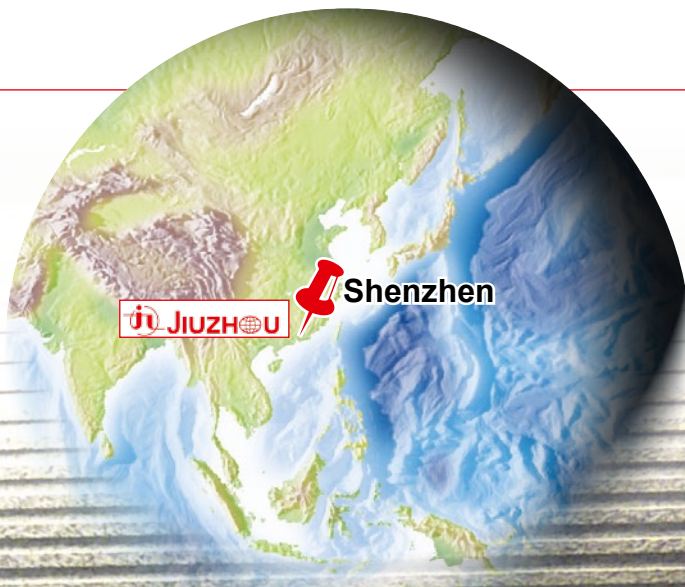
 **JIUZHOU 九洲**

深圳市九洲电
S JIUZHOU



■ Jimmy Zhang is digital TV device manufacturer Jiuzhou's Marketing Vice Manager and is also responsible for the marketing of their OTT units.





Shenzhen

JIUZHOU

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Internet services and terrestrial/satellite TV are constantly merging closer together. Many current digital receivers already have an Internet connection but most of the time this connection is only used to load new software into the receiver or to connect the receiver to a local network. The total integration of Internet video and audio content with digital receivers is still in its infancy. One of the companies that is intensively working on this new technology is Jiuzhou.

Jimmy Zhang is Jiuzhou's Marketing Vice Manager and tells us what it's all about: "OTT stands for Over-The-Top. It means that viewers can not only see their normal TV channels terrestrially, via satellite or cable, they can now use the same device to enjoy video and audio content via the Internet." YouTube and VUDU, a movie service, are just a few examples according to Jimmy Zhang. The end user doesn't really care how the video and audio makes it to his TV screen, as long as he can use one remote control to access everything that's available.

Unfortunately, a weak spot in the OTT technology is the bandwidth of the end user's Internet connection. Video transmissions require a large bandwidth. Therefore, right now these OTT compatible digital receivers would really only have markets in Europe and North America even though there are many other regions that offer scattered high-speed Internet access. "We're focusing on these two markets", confirms Jimmy Zhang, "Buying power is the highest there."

The OTT technology is so important to Jiuzhou that they have put together a dedicated development team: "There are 20 engineers working in the OTT Team", we learn from Vice General Manager Richard who is responsible for the R&D Team. "Our entire R&D Team consists of 200 engineers", clarifies Vice General Manager Richard, "We're working with the Android as well as with the Linux operating systems."

Department Manager Yongjun Zhang is in charge of the Application Team consisting of ten engineers. This is where the functioning of the software is tested and optimized so that end users won't have any trouble accessing all the different Internet services with their Jiuzhou receiver later on.

The best part is that OTT is only being



■ Richard is Vice General Manager and runs the Jiu Zhou R&D team with 200 engineers.

developed in software form”, reveals Marketing Vice Manager Jimmy Zhang to us, “This means that end users merely have to upload a new software version in order to make their existing digital receivers OTT compatible.”

Even though it appears that this can all be easily accomplished technically, two things have to be kept in mind: the first has to do with a license since there are many Internet services that have to be paid for. The second is that even

 **JIUZHOU 九州**

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- 二、请在使用完成后关机。
- 三、请保持实验室的整洁有序。
- 四、请勿在实验室存放其它无关物品。
- 五、未经管理员许可任何人不得迁移仪器设备。
- 六、未经仪器操作培训的人员不得使用仪器，违者后果自负。
- 七、仪器出现故障时，请立即断电并通知仪器管理员。
- 八、为了您的安全，请严格按照操作手册执行。

though older digital receivers can be upgraded with OTT, they might not be good enough to truly take advantage of OTT. "The chips get faster and faster every day and if you upgrade a digital receiver that has an older chipset with OTT, you might not be able to enjoy these OTT services interference-free."

The end result is that it would be far better to upgrade a new digital receiver with OTT services; only then would the menu operation and the speed and capabilities of the built-in chips be optimal for these OTT services.

The Jiuzhou development team is working feverishly on the best possible solutions for OTT.



1. Yongjun Zhang is Department Manager and is in charge of the OTT Application Team with ten development engineers.
2. An OTT modified Jiuzhou digital TV box with the OTT menu on the monitor in the background. The Jiuzhou engineers are working on making the OTT menu as user-friendly as possible.

1



2



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Santa Ifigenia in São Paulo

- *Hundreds of electronics shops in one part of town*
- *Small shops that sell a little bit of everything*
- *Little specialization*
- *Standard products such as 1.5-meter dishes and ISDB-T receivers can be found at many shops*

■ This is the Santa Ifigenia church. The street is named after the church and it is on this street that all the shops that sell electronics such as satellite dishes and digital TV receivers can be found. Hundreds of these shops are spread out along the Santa Ifigenia street and the surrounding side streets. This section even has its own web site: www.portaldasantaifigenia.com.br



TELE-satellite Magazine
Business Voucher
www.TELE-satellite.info/12/03/santa-ifigenia
Direct Contact to Sales Manager

A Common Place for Digital Friends: The Electronics Shopping Paradise in São Paulo



1. There's no doubt: the dishes on the roof of this store in the Santa Ifigenia district show that satellite antennas are being sold here. It's one of the branch offices of the C.S.I. electronics chain.



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In São Paulo's old city you'll find the Santa Ifigenia church. The street on which the church is located has the same name and it is here that you'll find one electronics shop after another. For many blocks there are small and then even smaller shops sometimes with their own storefronts and other times it's just a small stand in one of the many shopping malls. The inhabitants of São Paulo, a.k.a. the Paulistas, can find here any electronic gadget that they could possibly think of.

It's easy to get to this electronics shopping mile: you simply take the "blue" Metro, Linha 1 Azul, to the São Bento station. As soon as you exit the

station, you're standing in front of a church. It's actually the São Bento church (Basilica Nossa Senhora da Assunção).

Once you cross over the Santa Efigenia viaduct you'll end up face to face with the Santa Ifigenia church. The electronics shops start to the left. Since the switchover to digital terrestrial TV in Brazil is the talk of the town, many of these shops sell ISDB-T receivers.

Rogério Teixeira is one of the salesmen for the "Central Santa Ifigenia" chain of stores. Is it just a coincidence that the abbreviation for this chain turns out to be C.S.I.? "We have five stores in this area", he tells us, "The

company was founded ten years ago." In addition to security systems such as wireless cameras, C.S.I. also sells satellite dishes. It's not hard to spot all the dishes on the roof of the store. "We sell 12-15 of these 1.5-meter C-band antennas each month", explains Rogério Teixeira as he points out the packaged segments. The company has nine employees and ISDB-T receivers are also sold here: "We sell from 50 to 80 of these receivers every month depending on demand", we found out. The company can also be found in the Internet at www.antenas.com.br. The company CenterSat has slightly higher digital TV technology sales. Luiz ex-



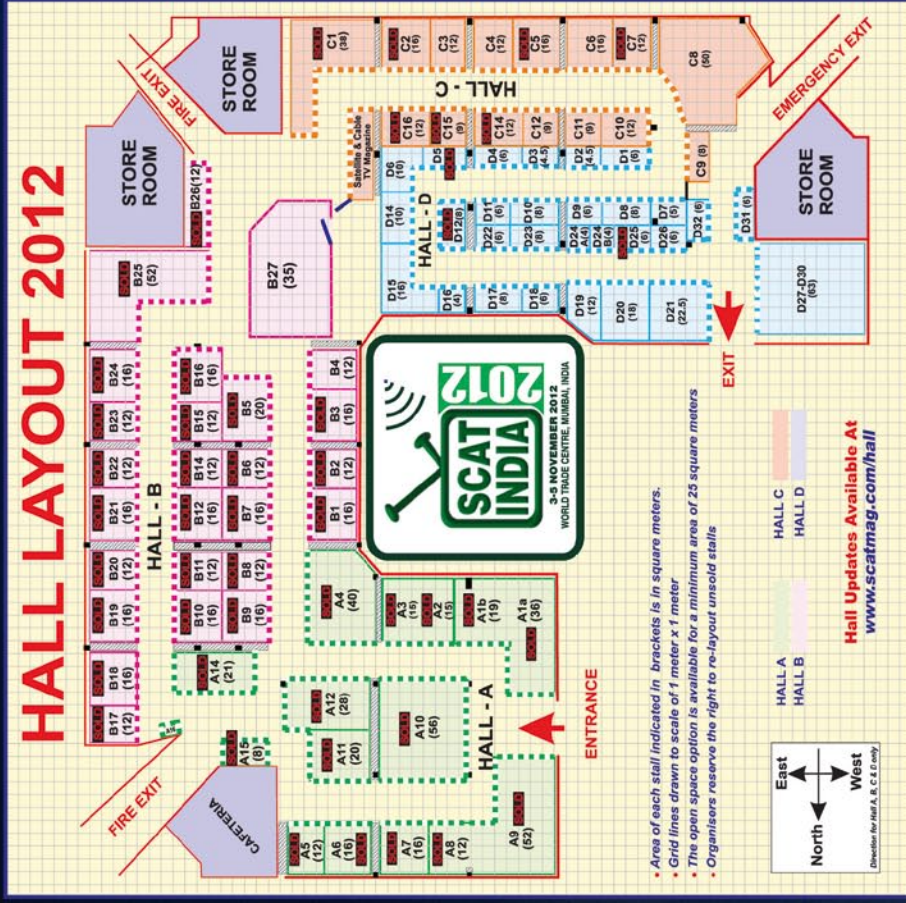
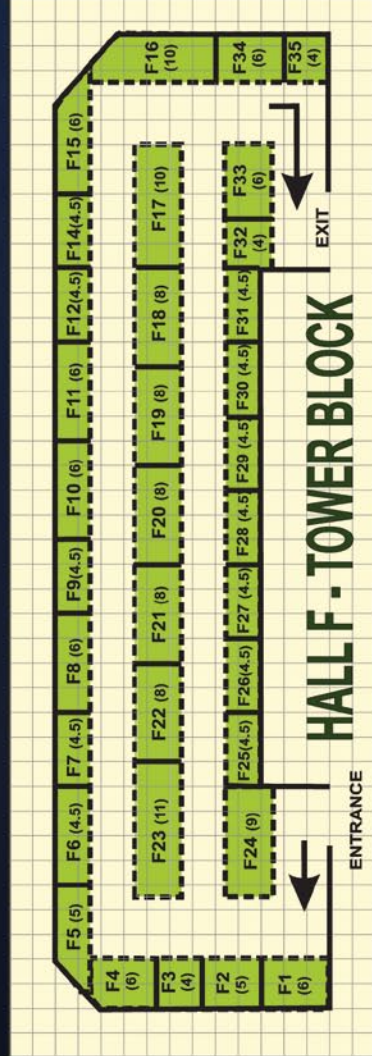
2. Rogério Teixeira sells this 1.50-meter segmented antenna for the C-band. 50-60 of this kind of dish are sold by his C.S.I. shop each month.

The 21st

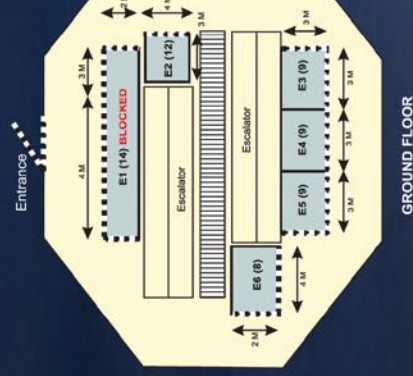


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plains to us that this company has been in existence for 12 years and employs 12 people: "We sell roughly 70 of these 1.5-meter dishes each month as well as 200 ISDB-T receivers." This company can also be found in the Internet at www.jjjdigital.com.br.

Several hundred of these shops are

stuffed together in the Santa Ifigenia. If you add up all the shops, you end up with a large quantity of products. As is typically the case with smaller shops, the owners try to sell everything without specializing in anything particular.

If you're looking for a specific component, you might have a hard time find-

ing the right shop. They all sell everything and none of them sell anything special. Santa Ifigenia would approve.

■ Even at CenterSat the satellite dishes show that digital technology is sold here.





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■ Luiz is a salesman at CenterSat and is happy that his shop sells about 70 satellite antennas every month.

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Trimax is Expanding it's Product Range



- **Makers of the only satellite signal analyzer with an ASI output**
- **Started with Android-based STBs for every distribution mode**
- **Recently acquired new office space to handle their growth**
- **Very large R&D department with new heavy focus on Android**

■ This office complex was recently completed in the expansive, newly christened New-Bao'an industrial park with its eight-lane roads. A five-star hotel is currently being constructed next to the office complex. Here right next to the bay by the Pearl River and not far from the Shenzhen International Airport can be found Trimax's headquarters. Jerry Chu runs the sales of signal analyzers and recently also Android STBs from this location.



TELE-satellite Magazine Business Voucher

www.TELE-satellite.info/12/03/trimax

Direct Contact to Sales Manager

Jerry Chu is expanding his company Trimax one small step at a time

■ Jerry Chu is Trimax's Owner President. Here he can be seen in his office examining a production sample of the new TM6600 Ultra with ASI output.



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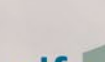
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Jerry Chu recently acquired new office space in a highly modern, brand new office building in the equally brand new district New-Bao'an west of Shenzhen. "We occupy 300 square-meters here on the tenth floor", says Jerry as he highlights the exquisite view from his office window. "That's the Pearl River," comments Jerry as he looks over to the Qianhaiwan Bay just a few hundred meters away. Not far away is Shenzhen's international airport. Shenzhen, a metropolis with 12 million inhabitants, is home to a large number of digital TV companies, one of which is the upcoming company Trimax.

TELE-satellite readers are already familiar with Trimax as a satellite signal meter manufacturer. One of their newest highlights is the TM6600 Ultra Signal Meter with ASI output. As it turns

out though, this device is not their only innovation; on the contrary: "We were very active last year in 2011 and managed to develop a number of new products", explains Jerry Chu. Trimax developed additional TM6600 models: "With CI+ and also a combination model CA and CI+." These meters are available with all the different tuner variations, in DVB-S and DVB-S2 and as a combination unit for DVB-C and DVB-T2 as well as DVB-S2 and DVB-T2.

Receivers, on the other hand, are very new to the Trimax scene. "We recently began offering STBs with the Android 2.3 system." Jerry Chu wants to use this to conquer a new market and justifies this: "STB numbers are significantly higher than signal analyzers." Currently the Android STB market with its Internet integration is limited to the

highly developed European and North American regions. Only in these regions are high speed Internet connections readily available although other regions of the world are quickly catching up. "We offer our Android boxes in all the standards: DVB-T2, DVB-S2, DVB-C and of course ATSC."

The company is showing signs of exceptional growth: "In 2011 the economic crisis lowered our sales, but I'm very optimistic for 2012!" For 2012 Jerry Chu is expecting to nearly double his sales thanks in large part to the start of the Android STB line.

Whether this ambitious goal for Trimax is realistic or not can be determined by our readers: we will be presenting a test report on a Trimax Android box soon in an upcoming issue of TELE-satellite.

■ **Sun Long is Office Manager at Trimax. He coordinates the work of the R&D Team with the eight engineers.**

TRIMAX
Signal Analyzer Manufacturer, China
www.trimaxtec.net

Company Details

Engineers in Research & Development | Total Number of Employees
0 10 20

Average Turnover (Previous, This, Next Year Estimates)
0 2.5 5 Mio US\$

Production Certificates
RoHS, FCC, DVB

Main Products
Signal Analyzer with built-in Monitor for DVB-S/S2, DVB-T and DVB-C, Satellite Receiver based on Android

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- *One of the largest wholesalers in Slovakia*
- *Success through distribution of well-known, high-quality brand names*
- *Move to their own building in 2012*
- *Active in new technologies such as fiber optics and IPTV*

■ Wholesaler SORTEC's headquarters in Bratislava, Slovakia. SORTEC just leases this space and will move to their own new building in 2012.



in Professional Installations



TELE-satellite Magazine
Business Voucher

www.TELE-satellite.info/12/03/sortec

Direct Contact to Sales Manager

Growth Through Quality

In 20 years a company went from starting off as a small installation operation to becoming the largest professional installer in Slovakia and at the same time has become one of the largest wholesalers in the country. We wanted to know more about SORTEC's success story. Their headquarters and main shop are located in the capital city of Bratislava within sight of a large shopping center in which among other things can be found a TESCO hypermarket.

SORTEC is not only an installer and wholesaler; they also operate five retail stores from which end users can buy anything they need for television signal reception. And if you can't visit the stores in person, you can buy from them online. Ľuboš Bezák, Manager of the E-shop, tells us more about them: "At the moment four of these stores can be found in western Slovakia with the fifth one in the east. But in 2012 we are planning to open up two

more shops in the east." SORTEC will then have Slovakia nicely covered with their satellite stores where you can find in addition to all the necessary satellite components, also everything for terrestrial reception. "Slovakia is currently in the transition phase from analog to



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■ Ladislav Šmárik is SORTEC's Founder and President

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1



2

digital terrestrial reception", explains Ľuboš Bezák.

But these retail stores only make up about 15% of SORTEC's business. "The largest portion of our sales comes from our wholesale business and our installation work", explains E-shop Manager Ľuboš Bezák, "From our wholesale activity 90% of sales comes from installations and the remaining 10% comes from our cooperation with large store chains." For these hyper markets and large electronic chains SORTEC delivers complete satellite systems that include dish, LNB and receiver.

"The most requested dish sizes in Slovakia are the 80cm and 90cm antennas; they make up about 90% of our dish sales", says Ľuboš Bezák. "The reason for this is that for Slovaks the more attractive channels can be found on ASTRA at 23.5 east but there are also many free-to-air (FTA) channels on ASTRA at 19.2 east that they want to see", continues Ľuboš Bezák. That's why these larger dishes are fitted with monoblock LNBs so that both satellites can be received.

SORTEC was founded in 1992 by Ladislav Šmárik. Back then he was an antenna installer and was very successful with the installation of professional systems such as those for entire housing blocks in larger communities.

This MATV (Master Antenna) installa-



1. Pavol Macko is SORTEC's General Manager
2. Ľuboš Bezák SORTEC's E-shop Manager.
3. It's always busy in SORTEC's satellite store where end-users shop. Three sales personnel take care of the customers' needs.
4. Two of the four SORTEC Sales Managers: Alexander Záhončík (left) and Pavol Lukáč (right).



1



2

tion segment is still a specialty of the company today. "Since last year we began with ever-increasing success the installation of fiber-optic LNB systems from GlobalInvacom", comments Ľuboš Bezák.

Other product highlights from SORTEC include signal analyzers from HORIZON. "Sales of the HORIZON HD-S2 signal analyzers have been very good", states Ľuboš Bezák, while the DVB-T analyzers from HORIZON have not been as popular. More demanding installers mostly prefer a combo unit."

An interesting product that SORTEC offers are the SmartCard distributors from SmartWi. "We sell many hundreds of these devices, especially since the latest version of SmartWi has become available", he explains. AMIKO receiver sales are also very good: "We generally use these receivers in our complete sets for the large store chains." Because of the conversion to digital terrestrial reception, SORTEC has been selling quite a few DVB-T receivers from SYNAPS (manufactured by Karmacon).

SORTEC has 21 employees of which six are installers divided into three teams: two teams handle private customer antenna installations while the third team involves itself with the setup of large professional systems. "We sell about 22,000 antennas a year and just about as many LNBs and receivers", explains Ľuboš Bezák as he looks at the sales figures that he always keeps an eye on as the E-shop Manager. Does SORTEC also deal with exports? "More than 60% of our sales are domestic, 30% go to the Czech Republic and rest to other countries mostly from EU", he lists for us. In the meantime, the headquarters in Bratislava has become too small. "In 2012 we'll be moving into our own new building", adds Ľuboš Bezák.

SORTEC worked its way up meticulously in two decades and is now one of the leading satellite wholesalers in Slovakia in central Europe. Thanks to an assortment of all the right products, SORTEC will continue to grow and expand its market share.

1. Should there be a problem with a receiver, Peter Hajdin fires up his soldering iron: "Usually, it's the power supply that's at fault and needs to be replaced."

2. An important part of SORTEC's business are MATV systems. Michal Drugaj is team leader for the technicians of these professional systems and can be seen here checking the technical specifications of a cable head end.



The demand for content anytime, anywhere has set in motion a kaleidoscope of infinite consumption options that are enabling unlimited paradigms for success. From rethinking the creative process to revolutionizing delivery — and, ultimately, redefining the viewer and user experience — no aspect of the content lifecycle has been left untouched. Broader-casting® professionals are leading the evolution by responding to shifts and shaping expectations.

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CONFERENCES April 14–19, 2012 EXHIBITS April 16–19
Las Vegas Convention Center, Las Vegas, Nevada USA

www.nabshow.com



NABSHOW®
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■ Warehouse Manager Vlasto Baran is quite familiar with his stockroom: he knows in exactly which box every assembly component can be found.

SORTEC's Success Products



1. The wireless Smartcard distributors from SmartWi are one of SORTEC's most successful niche products of which hundreds are sold every year with an ever-increasing tendency.

2. Another success product are the AMIKO series of receivers of which thousands are sold by SORTEC each year mostly as part of their complete satellite sets.

20th Convergence India 2012

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Pragati Maidan, New Delhi
21-23 March 2012

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AND COUNTING...*

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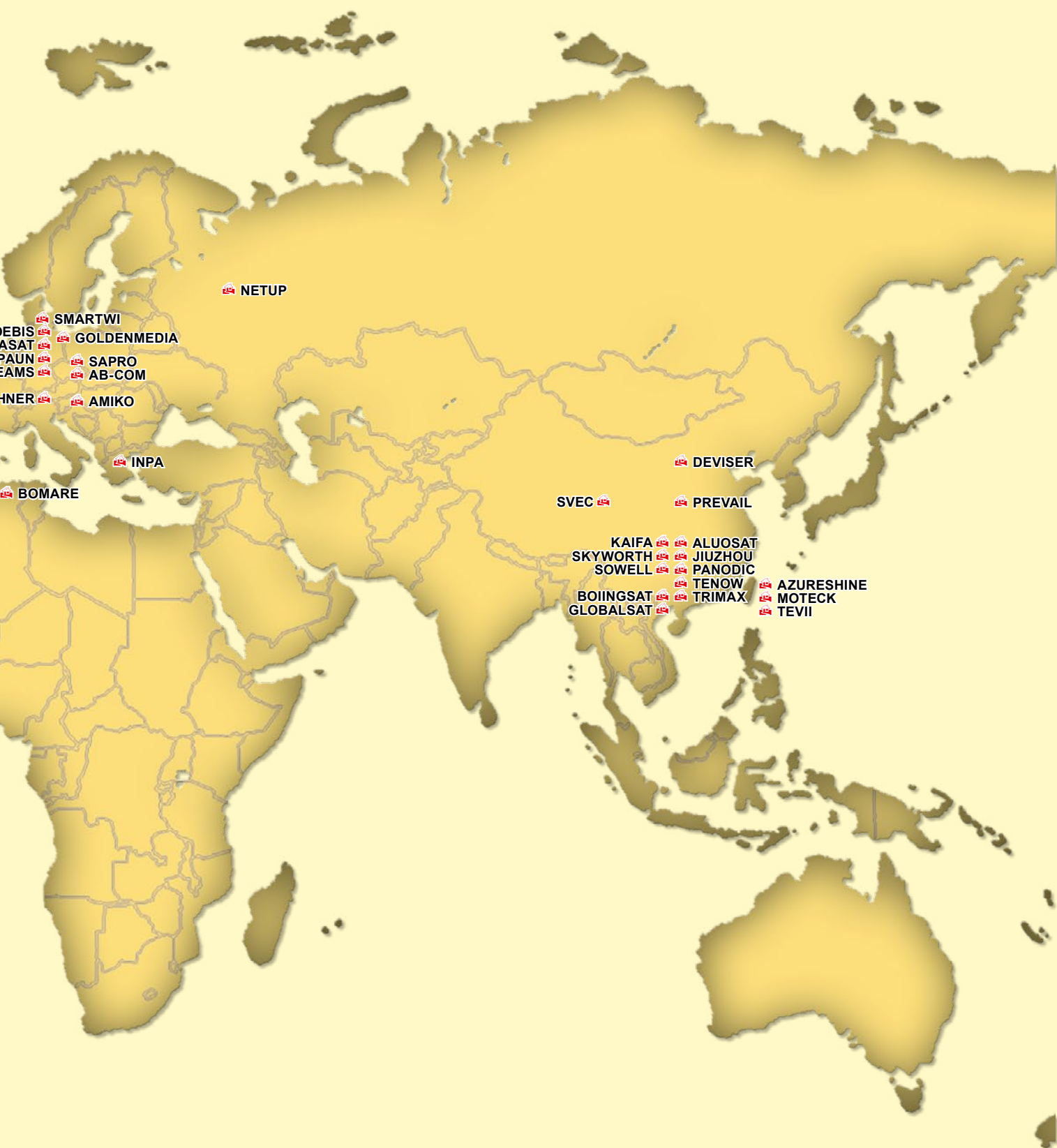
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Satellite Receiver Manufacturer, Slovakia

www.TELE-satellite.com/TELE-satellite-1111/eng/abcom.pdf
www.TELE-satellite.com/TELE-satellite-1009/eng/abipbox.pdf

Satellite Consultant, China

TELE
satellite
Recommended

www.TELE-satellite.com/TELE-satellite-0905/eng/aluosat.pdf

Signal Analyzer Manufacturer, USA



www.TELE-satellite.com/TELE-satellite-1111/eng/applied.pdf

Engineers in Research & Development | Total Number of Employees

Average Turnover (Previous, This, Next Year Estimates)

Production Certificates

DVB

Production Categories

own brand

Main Products

Cable TV Signal Analyzers, Satellite TV Analyzers, Noise Signal Generators, Noise Power Ratio Test Instrument

Satellite Receiver Manufacturer, Portugal



Professional Dish Manufacturer, Taiwan




www.TELE-satellite.com/TELE-satellite-0707/eng/azureshine.pdf

BOINGSAT

LNB Manufacturer, China



www.boingsat.com

COMPANY REPORT LNB Manufacturer Boingsat, China

Boingsat's Numerous Production Facilities

Three Production Locations in Zhuhai, China

Large Sales Expansion in South America

In the Work: LNB with Two Feed Rings

Boingsat, a leading LNB manufacturer in China, has established a strong presence in the global market. The company's facilities are located in Zhuhai, China, and it has a significant sales expansion in South America. The company is currently working on LNBs with two feed rings, which are expected to be a major product line in the near future.

www.TELE-satellite.com/TELE-satellite-1105/eng/boingsat.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 500 1000

Average Turnover (Previous, This, Next Year Estimates)

0 12.5 25 Mio US\$

Production Certificates

RoHS in preparation

Main Products

LNBs for Ku and C bands, Ka band in preparation. Variants in Single, Twin, Quad, Quattro and Octo.

BOMARE

TV and Receiver Manufacturer, Algeria



www.bomarecompany.com

COMPANY REPORT TV-Sets and Receiver Manufacturer Bomare, Algeria

Bomare: a new OEM Manufacturer

In 2005 the European Union entered into an agreement with the Democratic Peoples Republic of Algeria to support economic cooperation between the two. This agreement provides an interesting opportunity for satellite receiver manufacturers and, in the case of the Algerian company Bomare, also for TV manufacturers. Bomare produces both products. For 2013 Bomare has decided to take their first step in the European market. We paid a visit to Bomare's production facility in Algiers, about 20km from Algiers, and had a look around.

www.TELE-satellite.com/TELE-satellite-1103/eng/bomare.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 75 150

Average Turnover (Previous, This, Next Year Estimates)

0 12.5 25 Mio €uro

Production Certificates

RoHS, DVB

Production Categories

OEM, ODM

Main Products

LCD and Plasma TV-Sets with integrated DVB-Tuner, Satellite Receiver for DVB-S/S2, DVB-T, Home Theatre Systems

DEVISER

Signal Analyzer Manufacturer, China



www.devisertek.com

COMPANY REPORT Signal Analyzer Manufacturer DEVISER, China

New on the Scene: DEVISER

Starting off with two satellite signal analyzers

Over 20 years experience as a signal analyzer manufacturer

Fabrication soon to be in a new building

Their own R&D Team with highly qualified engineers

Operates with all of the corresponding quality standards

www.TELE-satellite.com/TELE-satellite-1107/eng/deviser.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 250 500

Average Turnover (Previous, This, Next Year Estimates)

0 12.5 25 Mio US\$

Production Certificates

RoHS, CE, UL, ISO 10012, ISO 90001

Production Categories

OEM, own brand

Main Products

Signal Analyzers for Cable, Terrestrial, Telecommunications, Fiber Optic and Satellite, Spektrum Analyzers, Vector Network Analyzers, Broadcasting Measurement Instruments, QAM Meters

Software Programming, UK

www.dishpointer.com

[illegible]

www.TELE-satellite.com/TELE-satellite-0803/eng/dishpointer.pdf

Satellite Wholesaler, Germany

www.doebis.de



www.TELE-satellite.com/TELE-satellite-1011/eng/doebis.pdf

Fibre Optic Products, UK

www.globalinvacom.com



TELE-sensitivity Writer **©1992 KIMBLE CORP.**

TELE-sensitivity Writer is a powerful, easy-to-use, and affordable word processing and communications package. It's the only word processing package that can be used on a variety of computers, including IBM PCs, compatibles, and Macintoshes. It's the only word processing package that can be used on a variety of operating systems, including DOS, Windows, and Macintosh. It's the only word processing package that can be used on a variety of printers, including dot-matrix, laser, and PostScript. It's the only word processing package that can be used on a variety of modems, including V.22, V.22bis, V.23, V.24, V.26, V.27, V.28, V.29, V.30, V.31, V.32, V.32bis, V.32tertiary, V.34, V.34bis, V.34tertiary, V.35, V.35bis, V.35tertiary, V.36, V.36bis, V.36tertiary, V.37, V.37bis, V.37tertiary, V.38, V.38bis, V.38tertiary, V.39, V.39bis, V.39tertiary, V.40, V.40bis, V.40tertiary, V.41, V.41bis, V.41tertiary, V.42, V.42bis, V.42tertiary, V.43, V.43bis, V.43tertiary, V.44, V.44bis, V.44tertiary, V.45, V.45bis, V.45tertiary, V.46, V.46bis, V.46tertiary, V.47, V.47bis, V.47tertiary, V.48, V.48bis, V.48tertiary, V.49, V.49bis, V.49tertiary, V.50, V.50bis, V.50tertiary, V.51, V.51bis, V.51tertiary, V.52, V.52bis, V.52tertiary, V.53, V.53bis, V.53tertiary, V.54, V.54bis, V.54tertiary, V.55, V.55bis, V.55tertiary, V.56, V.56bis, V.56tertiary, V.57, V.57bis, V.57tertiary, V.58, V.58bis, V.58tertiary, V.59, V.59bis, V.59tertiary, V.60, V.60bis, V.60tertiary, V.61, V.61bis, V.61tertiary, V.62, V.62bis, V.62tertiary, V.63, V.63bis, V.63tertiary, V.64, V.64bis, V.64tertiary, V.65, V.65bis, V.65tertiary, V.66, V.66bis, V.66tertiary, V.67, V.67bis, V.67tertiary, V.68, V.68bis, V.68tertiary, V.69, V.69bis, V.69tertiary, V.70, V.70bis, V.70tertiary, V.71, V.71bis, V.71tertiary, V.72, V.72bis, V.72tertiary, V.73, V.73bis, V.73tertiary, V.74, V.74bis, V.74tertiary, V.75, V.75bis, V.75tertiary, V.76, V.76bis, V.76tertiary, V.77, V.77bis, V.77tertiary, V.78, V.78bis, V.78tertiary, V.79, V.79bis, V.79tertiary, V.80, V.80bis, V.80tertiary, V.81, V.81bis, V.81tertiary, V.82, V.82bis, V.82tertiary, V.83, V.83bis, V.83tertiary, V.84, V.84bis, V.84tertiary, V.85, V.85bis, V.85tertiary, V.86, V.86bis, V.86tertiary, V.87, V.87bis, V.87tertiary, V.88, V.88bis, V.88tertiary, V.89, V.89bis, V.89tertiary, V.90, V.90bis, V.90tertiary, V.91, V.91bis, V.91tertiary, V.92, V.92bis, V.92tertiary, V.93, V.93bis, V.93tertiary, V.94, V.94bis, V.94tertiary, V.95, V.95bis, V.95tertiary, V.96, V.96bis, V.96tertiary, V.97, V.97bis, V.97tertiary, V.98, V.98bis, V.98tertiary, V.99, V.99bis, V.99tertiary, V.100, V.100bis, V.100tertiary, V.101, V.101bis, V.101tertiary, V.102, V.102bis, V.102tertiary, V.103, V.103bis, V.103tertiary, V.104, V.104bis, V.104tertiary, V.105, V.105bis, V.105tertiary, V.106, V.106bis, V.106tertiary, V.107, V.107bis, V.107tertiary, V.108, V.108bis, V.108tertiary, V.109, V.109bis, V.109tertiary, V.110, V.110bis, V.110tertiary, V.111, V.111bis, V.111tertiary, V.112, V.112bis, V.112tertiary, V.113, V.113bis, V.113tertiary, V.114, V.114bis, V.114tertiary, V.115, V.115bis, V.115tertiary, V.116, V.116bis, V.116tertiary, V.117, V.117bis, V.117tertiary, V.118, V.118bis, V.118tertiary, V.119, V.119bis, V.119tertiary, V.120, V.120bis, V.120tertiary, V.121, V.121bis, V.121tertiary, V.122, V.122bis, V.122tertiary, V.123, V.123bis, V.123tertiary, V.124, V.124bis, V.124tertiary, V.125, V.125bis, V.125tertiary, V.126, V.126bis, V.126tertiary, V.127, V.127bis, V.127tertiary, V.128, V.128bis, V.128tertiary, V.129, V.129bis, V.129tertiary, V.130, V.130bis, V.130tertiary, V.131, V.131bis, V.131tertiary, V.132, V.132bis, V.132tertiary, V.133, V.133bis, V.133tertiary, V.134, V.134bis, V.134tertiary, V.135, V.135bis, V.135tertiary, V.136, V.136bis, V.136tertiary, V.137, V.137bis, V.137tertiary, V.138, V.138bis, V.138tertiary, V.139, V.139bis, V.139tertiary, V.140, V.140bis, V.140tertiary, V.141, V.141bis, V.141tertiary, V.142, V.142bis, V.142tertiary, V.143, V.143bis, V.143tertiary, V.144, V.144bis, V.144tertiary, V.145, V.145bis, V.145tertiary, V.146, V.146bis, V.146tertiary, V.147, V.147bis, V.147tertiary, V.148, V.148bis, V.148tertiary, V.149, V.149bis, V.149tertiary, V.150, V.150bis, V.150tertiary, V.151, V.151bis, V.151tertiary, V.152, V.152bis, V.152tertiary, V.153, V.153bis, V.153tertiary, V.154, V.154bis, V.154tertiary, V.155, V.155bis, V.155tertiary, V.156, V.156bis, V.156tertiary, V.157, V.157bis, V.157tertiary, V.158, V.158bis, V.158tertiary, V.159, V.159bis, V.159tertiary, V.160, V.160bis, V.160tertiary, V.161, V.161bis, V.161tertiary, V.162, V.162bis, V.162tertiary, V.163, V.163bis, V.163tertiary, V.164, V.164bis, V.164tertiary, V.165, V.165bis, V.165tertiary, V.166, V.166bis, V.166tertiary, V.167, V.167bis, V.167tertiary, V.168, V.168bis, V.168tertiary, V.169, V.169bis, V.169tertiary, V.170, V.170bis, V.170tertiary, V.171, V.171bis, V.171tertiary, V.172, V.172bis, V.172tertiary, V.173, V.173bis, V.173tertiary, V.174, V.174bis, V.174tertiary, V.175, V.175bis, V.175tertiary, V.176, V.176bis, V.176tertiary, V.177, V.177bis, V.177tertiary, V.178, V.178bis, V.178tertiary, V.179, V.179bis, V.179tertiary, V.180, V.180bis, V.180tertiary, V.181, V.181bis, V.181tertiary, V.182, V.182bis, V.182tertiary, V.183, V.183bis, V.183tertiary, V.184, V.184bis, V.184tertiary, V.185, V.185bis, V.185tertiary, V.186, V.186bis, V.186tertiary, V.187, V.187bis, V.187tertiary, V.188, V.188bis, V.188tertiary, V.189, V.189bis, V.189tertiary, V.190, V.190bis, V.190tertiary, V.191, V.191bis, V.191tertiary, V.192, V.192bis, V.192tertiary, V.193, V.193bis, V.193tertiary, V.194, V.194bis, V.194tertiary, V.195, V.195bis, V.195tertiary, V.196, V.196bis, V.196tertiary, V.197, V.197bis, V.197tertiary, V.198, V.198bis, V.198tertiary, V.199, V.199bis, V.199tertiary, V.200, V.200bis, V.200tertiary, V.201, V.201bis, V.201tertiary, V.202, V.202bis, V.202tertiary, V.203, V.203bis, V.203tertiary, V.204, V.204bis, V.204tertiary, V.205, V.205bis, V.205tertiary, V.206, V.206bis, V.206tertiary, V.207, V.207bis, V.207tertiary, V.208, V.208bis, V.208tertiary, V.209, V.209bis, V.209tertiary, V.210, V.210bis, V.210tertiary, V.211, V.211bis, V.211tertiary, V.212, V.212bis, V.212tertiary, V.213, V.213bis, V.213tertiary, V.214, V.214bis, V.214tertiary, V.215, V.215bis, V.215tertiary, V.216, V.216bis, V.216tertiary, V.217, V.217bis, V.217tertiary, V.218, V.218bis, V.218tertiary

www.TELE-satellite.com/TELE-satellite-1009/eng/globalinvacom.pdf
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www.TELE-satellite.com/TELE-satellite-0909/eng/globalinvacom.pdf

Manufacturer and Distributor, Germany

www.cynextra.com

[illegible]

www.TELE-satellite.com/TELE-satellite-1009/eng/goldenmedia.pdf

Receiver and TV Manufacturer, China

COMPANY REPORT | OEM Receiver Manufacturer GlobalSat, China



www.TELE-satellite.com/TELE-satellite-1103/eng/globalsat.pdf

Engineers in Research & Development | Total Number of Employees

0 250 500

Average Turnover (Previous, This, Next Year Estimates)

0 75 150 Mjo US\$

Production Certificates

RoHS, FCC, UL, CE, DVB, ISO

Main Products

Receiver for HDTV and SDTV in DVB-S/S2, DVB-T, DVB-C, ISDB-T, HD+, CI+ and HbbTV, Multimedia Receiver, IPTV Boxes, Media Player, TV Monitors with built-in receivers

HORIZON

Signal Analyzer Manufacturer, UK



www.horizonhge.com



www.TELE-satellite.com/TELE-satellite-1111/eng/horizon.pdf
www.TELE-satellite.com/TELE-satellite-0801/eng/horizon.pdf
www.TELE-satellite.com/TELE-satellite-0701/eng/horizon.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 50 100

Average Turnover (Previous, This, Next Year Estimates)

0 2.5 5 Mio GB£

Production Certificates

RoHS

Production Categories

own brand and OEM

Main Products

Satellite, Terrestrial and Cable Signal Analyzers and Meters

HUBER+SUHNER

Fibre Optic Cables and Distribution, Switzerland www.hubersuhner.com



www.TELE-satellite.com/TELE-satellite-1111/eng/huber+schuhner.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 2500 5000

Average Turnover (Previous, This, Next Year Estimates)

0 500 1000 Mio SFr

Production Certificates

ISO 9001, ISO 14001, IRIS, RoHS, REACH

Production Categories

own brand CLIK!

Main Products

Connectivity solutions for Radio Frequency, Low Frequency and Fiber Optic applications. Fibre optic distribution systems for professional and home use.

INPA

Receiver Manufacturer, Turkey



www.TELE-satellite.com/TELE-satellite-1201/eng/inpa.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 25 50

Average Turnover (Previous, This, Next Year Estimates)

0 10 20 Mio €uro

Production Certificates

DVB

Production Categories

own brand INPAX

Main Products

Manufacture of Satellite Receiver, Multiswitch, Headend, Wholesale of LNB, Dishes, Cable

JIUZHOU

Receiver Manufacturer, China



www.jiuzhou.com.cn

COMPANY REPORT | DTT at Jiuzhou, China |

Terrestrial Receivers at Jiuzhou

Our readers are very familiar with Jiuzhou - have a look at TELE-satellite issue 32-33/2007. In 2008 Jiuzhou celebrated their 50th birthday and moved into their new Jiuzhou Electric Building (see TELE-satellite issue 42-43/2009). In September 2009, when the Shenzhen Metro Line 1 was extended, Jiuzhou became close to a Metro station. It's a five minute walk to the station which has a nice and fitting name: "Yi Tech Park".



TELE-satellite World

www.TELE-satellite.com/TELE-satellite-1003/eng/jiuzhou.pdf
www.TELE-satellite.com/TELE-satellite-0903/eng/jiuzhou.pdf
www.TELE-satellite.com/TELE-satellite-0803/eng/jiuzhou.pdf

KAIFA

Satellite Receiver Manufacturer, China

COMPANY REPORT | Satellite Receiver Manufacturer Kaifa, China |



The Birth of a New Receiver Manufacturer

Kaifa in China Starts Production

By the time this issue of TELE-satellite will be published, Kaifa will have been manufacturing satellite receivers for just a few weeks. When we paid them a visit, they were just finishing the installation of their assembly line and an initial test run was soon to follow. Who exactly is Kaifa and what makes this company think they're ready to step into the market as a satellite receiver manufacturer?

www.TELE-satellite.com/TELE-satellite-1003/eng/kaifa.pdf

MEGASAT

Wholesaler and Manufacturer, Germany



www.b2c-electronic.de

COMPANY REPORT | Wholesaler and Manufacturer MEGASAT, Germany |

"In the heart of Germany"



- 80% of distributed products come from in-house MEGASAT brand
- full range of satellite components
- special focus on self-aligning camping antennas
- distribution to the whole of Europe

www.TELE-satellite.com/TELE-satellite-1109/eng/megasat.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 12 25

Average Turnover (Previous, This, Next Year Estimates)

0 5 10 Mio €

Production Certificates

DVB

Production Categories

own brand **MEGASAT**

Main Products

Satellite Receiver for DVB-S/S2, LNB with normal size and extremely small size, dishes, multiswitches, Mobile Satellite Systems with automatized two axis motors (CampingSat)

MFC

Satellite Filter Manufacturer, USA



www.microwavefilter.com

COMPANY REPORT | Satellite Filter Manufacturer, USA |

Microwave Filter Company

High Quality Specialized Filters Made in USA



Satellite systems receive not only the TV, radio and data channels that you actually need, but also unwanted signals that may cause interference. How do you get rid of these interfering signals? MFC, a manufacturing power of satellite filters based in the USA, produces a variety of filters that eliminate such interference.

www.TELE-satellite.com/TELE-satellite-0903/eng/mfc.pdf

MOTECK

Antenna Motor Manufacturer, Taiwan



www.motek.com

COMPANY REPORT | Antenna Motor Manufacturer MOTECK |

MOTECK's Motor Professionals



MOTECK's Motor Professionals

www.TELE-satellite.com/TELE-satellite-0707/eng/motek.pdf

SAPRO

Manufacturer and Wholesaler, Czech Republic



www.sapro.cz



www.TELE-satellite.com/TELE-satellite-1109/eng/sapro.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 12 25

Average Turnover (Previous, This, Next Year Estimates)

0 2.5 5 Mio €uro

Production Certificates

DVB

Production Categories

own brands Di-Way, Di-Box, SatElita, Dreamsky, HD-Box

Main Products

Satellite Receivers for economic range, mid range and high range, Wholesaler for LNBs, dishes, accessories

SATBEAMS

Software Programming, Belgium



www.satbeams.com



www.TELE-satellite.com/TELE-satellite-1011/eng/satbeams.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 10 20

Average Turnover (Previous, This, Next Year Estimates)

0 2.5 5 Mio USD

Production Certificates

DVB

Production Categories

own brands GEOSATpro, GLORYSTAR

Main Products

Complete Satellite Systems GLORYSTAR, accessories, LNBs, 19" satellite receivers

SATELLITEAV

Wholesaler and Manufacturer, USA



www.TELE-satellite.com/TELE-satellite-1109/eng/satelliteav.pdf

SKYWORTH

OEM Receiver Manufacturer, China



www.skyworth.com

COMPANY REPORT Receiver Manufacturer SKYWORTH, China

SKYWORTH is Expanding

One of the larger receiver manufacturers in China is SKYWORTH. They've consistently been in expansion mode and have managed to make a phenomenal entrance into the South American marketplace in 2010. A large contract with the government of Argentina involving 400,000 receivers for the terrestrial DVB-T standard resulted in SKYWORTH's intense production activity. "All these receivers have already been shipped," we learn from Jack Jiang, Sales Director of SKYWORTH's receiver division. The company's official name is Shenzhen SKYWORTH Digital Technology Co., Ltd.

www.TELE-satellite.com/TELE-satellite-1103/eng/skyworth.pdf
www.TELE-satellite.com/TELE-satellite-1003/eng/skyworth.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 1250 2500

Average Turnover (Previous, This, Next Year Estimates)

0 1.250 250 Mio US\$

Production Certificates

RoHS, CE, REACH, DVB

Main Products

Receiver for DVB-S/S2, DVB-T, ISDB-T with single, twin and combo tuner, Receiver Sticks for USB, SCART in DVB-S and HDMI in DVB-S2

SOWELL

OEM Receiver Manufacturer, China



www.sowell-tech.com

COMPANY REPORT Receiver Manufacturer Sowell, China

IPTV is Future

Already operating the first IPTV project
3D planned for the future
Integration of TV reception with IPTV
60% of all Sowell receivers are already HD

www.TELE-satellite.com/TELE-satellite-1103/eng/sowell.pdf
www.TELE-satellite.com/TELE-satellite-1205/eng/sowell.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 50 100

Average Turnover (Previous, This, Next Year Estimates)

0 25 50 Mio US\$

Production Certificates

DVB

Main Products

Receiver for DVB-S/S2, DVB-T/T2, DVB-C and ISDB-T, Receivers with 3D graphics, IPTV Boxes, Linux Boxes

SPAUN

Power Supply Manufacturer, Germany



www.spaun.com

COMPANY REPORT Power Supply Unit Manufacturer

Power Supply Units Made by SPAUN - guaranteed!

Every multi-switch and every amplifier comes with one, and of course every receiver has one, too: a power supply unit which is required to connect the device to the mains. It has become such an everyday component of virtually any electronic device that we have stopped thinking about how it actually works. SPAUN, on the other hand, has given it a great deal of thought and has arrived at a remarkable conclusion. Klaus Spaun is the managing director of SPAUN, one of the most renowned quality manufacturers of multi-switches and other accessories for satellite signal distribution. He tells us what it's all about.

www.TELE-satellite.com/TELE-satellite-1011/eng/spaun.pdf

SPAUN

High Quality Accessory Manufacturer, Germany



www.spaun.com

COMPANY REPORT High Quality Accessory Manufacturer

Spaun at 40 years
Moving into the new decade with many new products
Alexander Yllescu

Well, actually, it's hardly 40 years, because the company Spaun doesn't celebrate its 40th anniversary until the end of the year. But it is a very special year for us, because it marks the beginning of a new chapter in our company's history. We are celebrating our 40th anniversary with a new look and a new direction. We are moving into the new decade with many new products and a new vision. We are proud to be part of the satellite industry and to have been able to provide high-quality accessories for over 40 years.

www.TELE-satellite.com/TELE-satellite-0811/eng/spaun.pdf

SMARTWI

Wireless Card Reader Producer, Denmark

www.smartwi.net



SmartWi to Conquer Provider Market

Readers of this magazine have been familiar with wireless card reader manufacturer SmartWi for years. In TELE-satellite issue 06-2007 we published the first report on this Danish company which has come up with a glorious idea: How about transmitting data from a new TV the first time a viewer card to a second card in the same household? All of a sudden your viewing pleasure can be extended from the living room all the way to the bedroom, den or any other room at your place. Play TV wherever you like! And a smart idea that deserves a proper name too, smart Wi, or SmartWi in short.

But there is the small fact that the Danish company has been in the market for over 10 years. In 1997, SmartWi was founded by two brothers, Peter and Michael, who had a vision of creating a wireless card reader that could be used in a variety of environments. The company's first product, the SmartWi 1011, was a small, portable device that could be used to receive data from a satellite dish and transmit it to a computer. This was a revolutionary idea at the time, and it quickly gained popularity. The company's second product, the SmartWi 1012, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television. This was a significant improvement over the first product, and it further solidified the company's position in the market. The company's third product, the SmartWi 1013, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's fourth product, the SmartWi 1014, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's fifth product, the SmartWi 1015, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's sixth product, the SmartWi 1016, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's seventh product, the SmartWi 1017, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's eighth product, the SmartWi 1018, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's ninth product, the SmartWi 1019, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's tenth product, the SmartWi 1020, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market.

www.TELE-satellite.com/TELE-satellite-1011/eng/smartwi.pdf
www.TELE-satellite.com/TELE-satellite-0709/eng/smartwi.pdf

SVEC

Professional Dish Manufacturer, China

www.svec.com.cn



SVEC Dishes from Chengdu/Sichuan

Alexander Wiese

The Sichuan province is well known outside of China for its spicy cuisine. A national favorite is the "hot pot", in one pot with two separated sections a very spicy soup and a mild soup are heated up into which chopsticks are used to dip in different types of food for a few minutes. This could be either sliced pieces of meat or vegetables. Along with that you drink sweetened Wang Lu Kat herbal tea to offset the spiciness of the hot pot. The company SVEC in Sichuan's capital city of Chengdu, a city with eight million inhabitants in southwestern China, has its own spicy menu. SVEC is looking for new challenges adding to their production of satellite dishes: they want to play a much bigger role in the world market with high quality products.

The city of Chengdu itself has a long history. It was founded in 311 BC and has been a major center of culture and commerce in China. The city is known for its spicy cuisine, its beautiful scenery, and its rich history. The company SVEC has been in the market for over 10 years. In 1997, SVEC was founded by two brothers, Peter and Michael, who had a vision of creating a professional dish manufacturer. The company's first product, the SVEC 1011, was a small, portable device that could be used to receive data from a satellite dish and transmit it to a computer. This was a revolutionary idea at the time, and it quickly gained popularity. The company's second product, the SVEC 1012, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television. This was a significant improvement over the first product, and it further solidified the company's position in the market. The company's third product, the SVEC 1013, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's fourth product, the SVEC 1014, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's fifth product, the SVEC 1015, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's sixth product, the SVEC 1016, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's seventh product, the SVEC 1017, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's eighth product, the SVEC 1018, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's ninth product, the SVEC 1019, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's tenth product, the SVEC 1020, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market.

www.TELE-satellite.com/TELE-satellite-1003/eng/svec.pdf

TENOW

PC Card Manufacturer, China

www.tenower.com



Innovative PC Cards from China

One company that is fully concentrated on the development of their products is the young firm Tenow from Shenzhen, China. PC cards are manufactured through the actual production process in subordinated marketing. Also interesting to note about Tenow: the company is run by four partners and all four of them work together as a team to further expand their young company. Tenow is in the process of setting up a new office in Shenzhen's expansive High-Tech Park. When we visit there a week, we meet to their old office located directly next to the Shen Dan Metro Station on route 1.

The company's first product, the Tenow 1011, was a small, portable device that could be used to receive data from a satellite dish and transmit it to a computer. This was a revolutionary idea at the time, and it quickly gained popularity. The company's second product, the Tenow 1012, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television. This was a significant improvement over the first product, and it further solidified the company's position in the market. The company's third product, the Tenow 1013, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's fourth product, the Tenow 1014, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's fifth product, the Tenow 1015, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's sixth product, the Tenow 1016, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's seventh product, the Tenow 1017, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's eighth product, the Tenow 1018, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's ninth product, the Tenow 1019, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's tenth product, the Tenow 1020, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market.

www.TELE-satellite.com/TELE-satellite-1103/eng/tenow.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 12 25

Average Turnover (Previous, This, Next Year Estimates)

0 1.5 3 Mio €

Production Certificates

RoHS, DVB

Main Products

PC-Cards for DVB-S/S2, DVB-T/T2, DVB-C with single, dual and quad tuner, CAM Box for DVB-S2, USB-Stick for DVB-S/S2, DVB-C and ISDB-T

TEVII

PC Card & Receiver Manufacturer, Taiwan

www.tevii.com



TeVII Tapping Into New Markets

TeVII - while being young of age - has already worked up a solid reputation for its PC cards and USB boxes and is now in the progress of launching a new range for new markets. Matteo Liu is the founder of TeVII and the company's top-selling sales director. He reveals some future plans in a meeting we had with him in March, one of a number of global destinations he recently visited.

TeVII's first product, the TeVII 1011, was a small, portable device that could be used to receive data from a satellite dish and transmit it to a computer. This was a revolutionary idea at the time, and it quickly gained popularity. The company's second product, the TeVII 1012, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television. This was a significant improvement over the first product, and it further solidified the company's position in the market. The company's third product, the TeVII 1013, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's fourth product, the TeVII 1014, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's fifth product, the TeVII 1015, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's sixth product, the TeVII 1016, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's seventh product, the TeVII 1017, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's eighth product, the TeVII 1018, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's ninth product, the TeVII 1019, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market. The company's tenth product, the TeVII 1020, was a more advanced device that could be used to receive data from a satellite dish and transmit it to a computer, as well as to a television, and to a mobile phone, and to a tablet, and to a smartwatch, and to a smartwatch, and to a smartwatch. This was a significant improvement over the previous products, and it further solidified the company's position in the market.

Company Details

Engineers in Research & Development | Total Number of Employees

0 25 50

Average Turnover (Previous, This, Next Year Estimates)

0 2.5 5 Mio US\$

Production Certificates

RoHS

Production Categories

OEM, ODM

Main Products

PC Cards for DVB-S/S2 and DVB-T/MPEG-4, Boxes for DVB-S/S2, DVB-T/MPEG-4, PC Sticks for DVB-S/S2

TRIMAX

Signal Analyzer Manufacturer, China



www.trimaxtec.net

COMPANY REPORT TELE-satellite 1103/eng/trimax.pdf

Satellite Meter and Receiver Manufacturer Trimax, China

Trimax is Expanding its Product Range

- Makers of the only satellite signal analyzer with an ASI output
- Started with Android-based STBs for every distribution mode
- Recently acquired new office space to handle their growth
- Very large R&D department with new heavy focus on Android

www.TELE-satellite.com/TELE-satellite-1103/eng/trimax.pdf
www.TELE-satellite.com/TELE-satellite-1203/eng/trimax.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 10 20

Average Turnover (Previous, This, Next Year Estimates)

0 2.5 5 Mio US\$

Production Certificates

RoHS, FCC, DVB

Main Products

Signal Analyzer with built-in Monitor for DVB-S/S2, DVB-T and DVB-C, Satellite Receiver based on Android

TURBOSAT

Wholesaler and Manufacturer, UK



www.turbosat.com

COMPANY REPORT TELE-satellite 1203/eng/turbosat.pdf

Wholesaler and Manufacturer TURBOSAT, Great Britain

„Small and Valuable“

- own receiver line ICECRYPT
- 50% of sales outside Great Britain
- Focus on receivers, CAM, SmartCards and LNBs
- 80,000 receivers a year
- produces Dolly Buster TV programming via HOTBIAD

www.TELE-satellite.com/TELE-satellite-1203/eng/turbosat.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 12 25

Average Turnover (Previous, This, Next Year Estimates)

0 2.5 5 Mio GB£

Production Certificates

DVB

Production Categories

own brand ICECRYPT

Main Products

Satellite Receiver for DVB-T/T2, DVB-S/S2, LNB, SmartCards

WS INTERNATIONAL

Wholesaler and Manufacturer, USA



www.wsidigital.com

COMPANY REPORT TELE-satellite 1109/eng/wsinternational.pdf

Wholesaler and Manufacturer, USA

World Satellite International, USA

- Successful Young Company with Ambition
- Manufacturer of Satellite Components
- Plan for Worldwide Expansion with Satellite Signal Analyzers
- Inexpensive Products Thanks to Efficient Production and Distribution

www.TELE-satellite.com/TELE-satellite-1109/eng/wsinternational.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 10 20

Average Turnover (Previous, This, Next Year Estimates)

0 2.5 5 Mio US\$

Production Certificates

DVB

Production Categories

own brands LEXIUM

Main Products

Receiver for DVB-S, dishes 75cm up to 4.5m, LNB and LNB holders for KU and C band, DiSEqC switches, signal analyzers

CASTOR: More than an

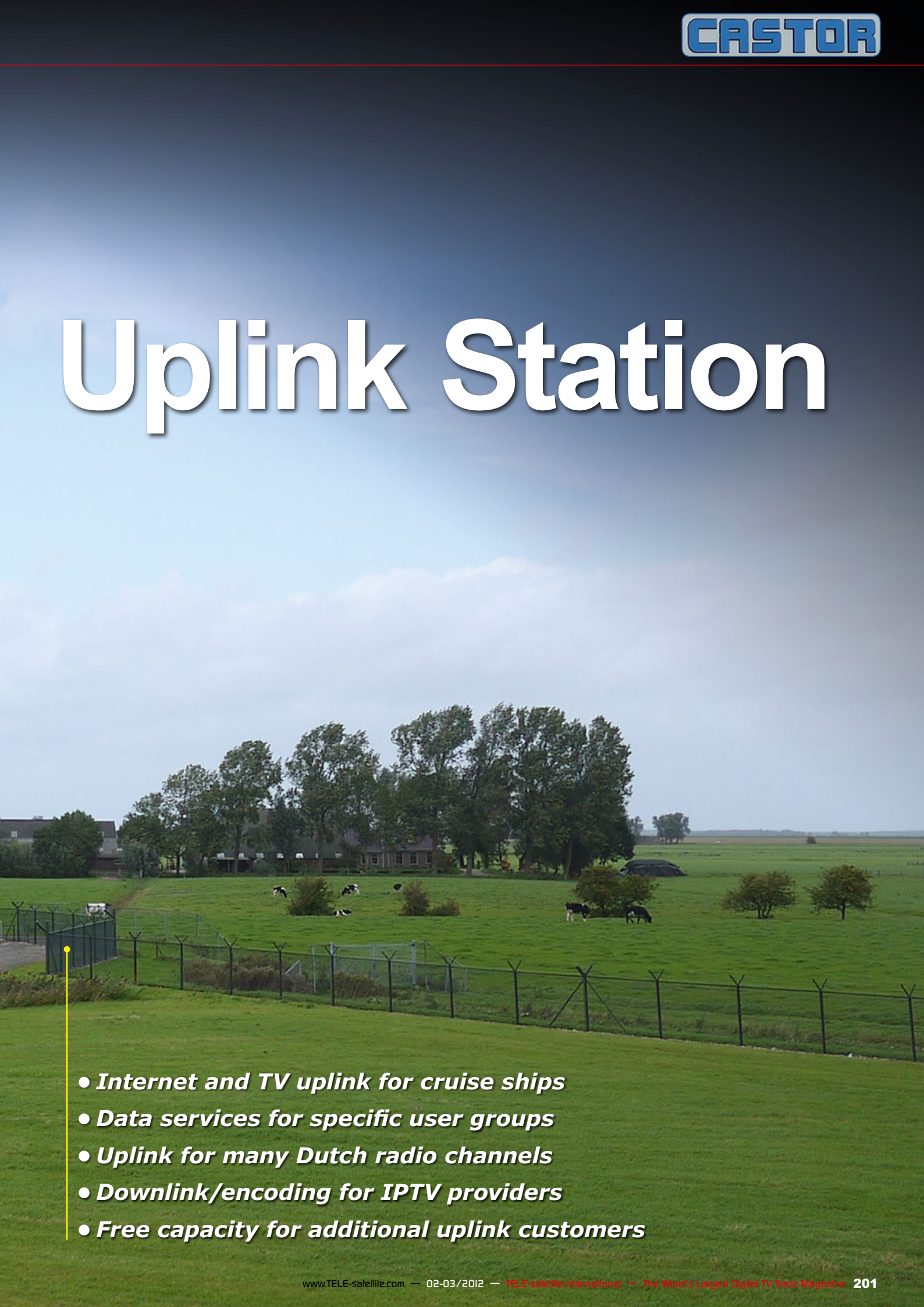


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www.TELE-satellite.info/12/03/castor-satellite-uplink

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 - *Uplink for many Dutch radio channels*
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 - *Free capacity for additional uplink customers*



TV, Radio and Internet Uplinks for Europe and Africa

■ Edwin Cras is Managing Director of the satellite uplink station CASTOR. He is an enthusiastic satellite DXer that has been reading TELE-satellite for many years. "My first satellite dish was a 1.5-meter antenna that I installed in 1990." Today he uses a motorized 2.0-meter antenna at home. He absolutely enjoys being at CASTOR and working with all those large dishes every day; it's something that a private satellite DXer can only dream of.



If you ever find yourself traveling in northern Holland through the town of Burum, you won't be able to help but notice the giant satellite antenna farm. Large 32-meter antennas stand alongside 16.4-meter dishes as well as many nine-meter antennas. There's also a large assortment of smaller dishes of all sizes. The groundstation used to belong to the Dutch telecommunications provider KPN but is now owned by Stratos, a leading provider for Inmarsat services. Ivo Veldkamp successfully negotiated a management buy-out in early 2005 and established CASTOR. As a result CASTOR has become an important provider at the Burum Teleport together with Stratos itself.

Managing Director Edwin Cras told us more about those early days: "We started with seven employees; they had control over a total of six antennas: a small 4.6-meter dish, two 6.0-meter antennas and three of the large 9.0-meter giants." The young company proved to be successful in the market and has been able to increase their sales from four million Euros back then towards almost 10 million Euros today. "We grow between 10 and 20% every year."

Who are the heavyweights for CASTOR at the Burum Teleport? "An important part of our business is with Maritime Ser-

vice Providers," comments Edwin Cras, "which includes for example the Miami based company MTN, one of the largest in this segment." MTN has been using CASTOR Teleport for many years to provide Internet service as well as their own onboard TV channels to cruise ships at this side of the globe. "For these customers we put our largest system into service: the 16.4-meter dish that is fixed on NSS12 at 57 east."

The 16.4-meter dish is not the only antenna that was added since the founding of the company; nine-meter dishes were also added. "Three of our five 9.0-meter antennas are used for the Ku-band: one is pointed to AM1 at 40E, another to ASTRA 3B at 23.5E and the third is aligned with EUTELSAT W2A at 10E." We were surprised to learn what these satellites are used for; Edwin Cras explains: "They are used to provide passenger planes with Internet access so that the passengers don't have to do without their laptops or Smartphones." For this service CASTOR handles both the uplink and downlink Internet traffic. The remaining two nine-meter dishes are used for the C-band. "One of them is pointed to EXPRESS A4

at 14W while the other one is aligned with INTELSAT 906 at 64E." Both of these uplinks are used for maritime data transmissions. CASTOR has also been uplinking transponders for the Dutch DTH bouquet Canal Digitaal from Burum using a 9 meter antenna on Astra 3B.

CASTOR has been offering occasional capacity (short SNG transmissions) since 2010. "We have leased an entire transponder with 54 MHz bandwidth on AM44 at 11W and use it to offer SNG transmissions", Edwin Cras tells us, "One hour of transmission time with a bandwidth of 36 MHz costs 600 Euros with us." The bandwidth is precisely set up for an HD channel. "Customers can select the slots on their own through our online booking system", he adds.

But CASTOR's main source of earnings comes from 'closed user groups'. Edwin Cras explains what that means: "We have, for example, a European country

■ Administrative building in Burum in northern Holland, where CASTOR rents offices from Stratos.



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1



2

CASTOR BURUM-52 (OST)



3



as a customer that wants to provide their embassies in Africa with secure Internet service." For this customer CASTOR provides the uplink and downlink Internet connection not only for their internal operation but also for the public Internet. "Other similar customers are mining companies or oil companies that want to link all of their branch offices together." This business segment makes up about 50% of CASTOR's total sales. Edwin Cras is expecting that this will increase to 70% by 2013.

CASTOR has an ideal location in the flatlands of northern Holland: "We can see all the satellites from 70.5E to 55W." Their Burum location is just one part of CASTOR. "We also operate another up-link station in Hilversum south of Amster-

1. Edwin Cras in the engineering area
2. The 16.4-meter antenna is controlled from here. The satellite beacon signal receiver is at the top. In the middle is the control system for the antenna with a display of the actual value of the antenna (at the top of the display) and the desired value (at the bottom of the display) of the antenna for, in this case, the NSS-12 satellite. The LNB controller is at the bottom. If an LNB should fail, this system automatically switches over to the spare LNB.
3. The labeling gives it away: the TV channels received by CASTOR from the Congo for an IPTV provider are processed here.

■ CASTOR uses this dish to receive the TV channels from the Congo off of the RASCOM satellite at 2E.



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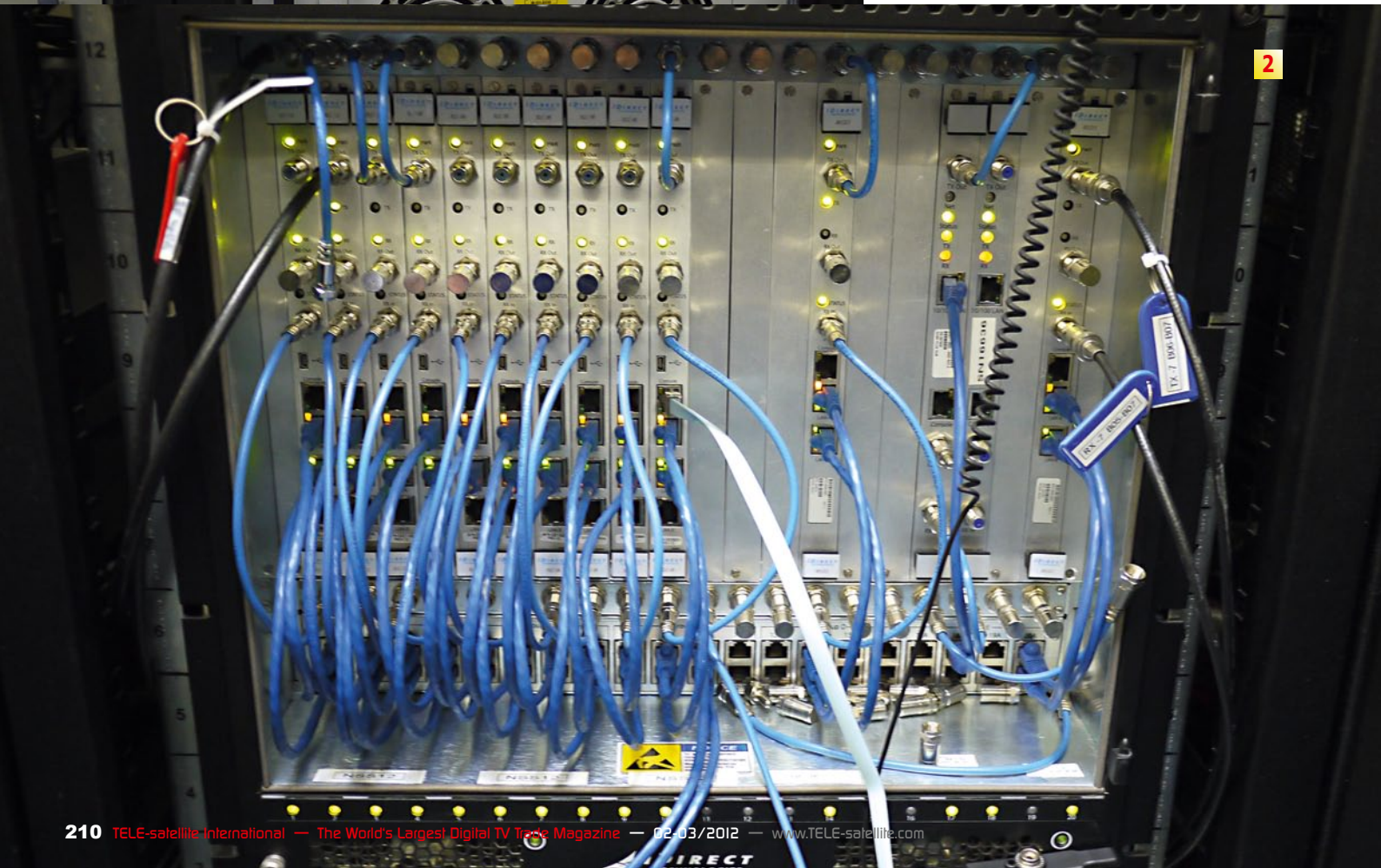
dam." This location is very active with the uplink of radio stations. He lists them: "We have been uplinking for Radio 538, Sky Radio, Veronica, Slam FM, 100%NL as well as Arrow Rock and Arrow Jazz since the early '90s." But that's still not enough. CASTOR is developing another business sector: "We receive the satellite channels for IPTV providers who then offer them to customers via the Internet." One of them is the IPTV provider 'Bouquet Uhuru' with TV channels from the Congo that CASTOR receives in the C-band from the RASCOM satellite at 2E. Another is the provider 'Premier Satellite' with some English language TV channels from ASTRA at 28.2E.

From the original seven employees it has become 14 and CASTOR is involved in many activities in many different areas that should allow them to tackle any future opportunities. "Since we have so many antennas of different sizes available to us, we can react very quickly to any requests", comments Edwin Cras and then continues, "And because of our inexpensive rates we are very attractive to new customers."

1. One of CASTOR's prominent customers is the American firm MTN. They provide cruise ships with TV and Internet services. Here we see the four-way C-band amplifiers with redundancy for CASTOR's satellite uplink with three-way redundancy.
2. VSAT platform (iDirect) for one of the 'closed user group' customers.



1



2



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■ **Hardly visible from the street:**
all the dishes on the roof and side
of Saul Spinetti's house in São
Paulo.

11 Out of a Total of 16 Satellite Dishes

Technology Fan Saul Can Hardly Fit Any More Satellite Antennas



■ Saul Spinetti in his living room in front of his reception system. He has two satellite receivers that are connected in parallel to his 11 dishes via DiSEqC switches. "The one receiver has more features; the other has a better Blind Scan." On the TV monitor Saul tuned into the TPA channel from Angola on TELSTAR 12. In general it's a difficult satellite to receive in Sao Paulo because of its low elevation.



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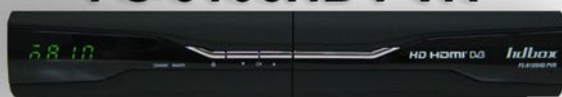
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1

1. A 1.2-meter dish for C-band reception in the foreground and another smaller 60cm antenna.
2. Three of the 60cm antennas that Saul erected on his house.



What does a technology fan from Brazil do when he picks a German visitor up from the Metro station? Saul Spinetti managed to surprise us: during the ride through Jardim Maria Estella, a suburb of the metropolis São Paulo with its 12 million inhabitants, a live German radio program was playing from his car radio. A few years ago this would have been technologically impossible, but today it's just a question of connectivity: Saul simply used his iPhone and 3G Internet connection to receive a German radio station and played it back on his car radio through its audio inputs.

Obviously Saul is a technology fan. He has 11 satellite dishes installed on the roof of his house and can receive all of them simultaneously with his two satellite receivers through his 16-input multiswitch without reconnecting anything. The still leaves him with five free inputs, "but I don't have much room for any more satellite dishes", says Saul.

The small antennas for the Ku-band satellites that he can receive using 60cm dishes have covered all of those satellites. The only thing missing is antennas for C-band satellites. "But there's absolutely no room for any larger dishes."

Saul Spinetti works in an animal supply factory. He acquired his first dish in 2005. "I was so unhappy with the picture quality and selection of programming from our terrestrial broadcaster back then that I decided to give DirecTV a try." He was thrilled: finally excellent picture quality and he was even happy with the choice of programming.

Two years later came the second satellite dish: "I wanted to receive GALAXY 28." Two more dishes followed but that's when the problems started: "The installers didn't know what they were doing and couldn't properly install these antennas." Saul Spinetti was frustrated until he stumbled across Carlos from Antenaomegasat (TELE-satellite already reported on this online shop and installer). He finally found someone that could properly set up his antennas and organized them by installing a matching multiswitch.

Since then Carlos has installed more dishes for Saul Spinetti at a rate of almost one every six months. "Each time I had to sit down and talk with my wife", grins Saul, "now I have a total of 11 dishes."

What does a guy like Saul enjoy

watching the most? "I am always impressed with the picture quality of NHK HD on INTELSAT 9." Saul has a big screen TV and naturally wants to enjoy the picture quality. "Even Brazil's TV Bandeirantes transmits an excellent HD picture." He also likes to watch CCTV-4's Spanish-language channel.

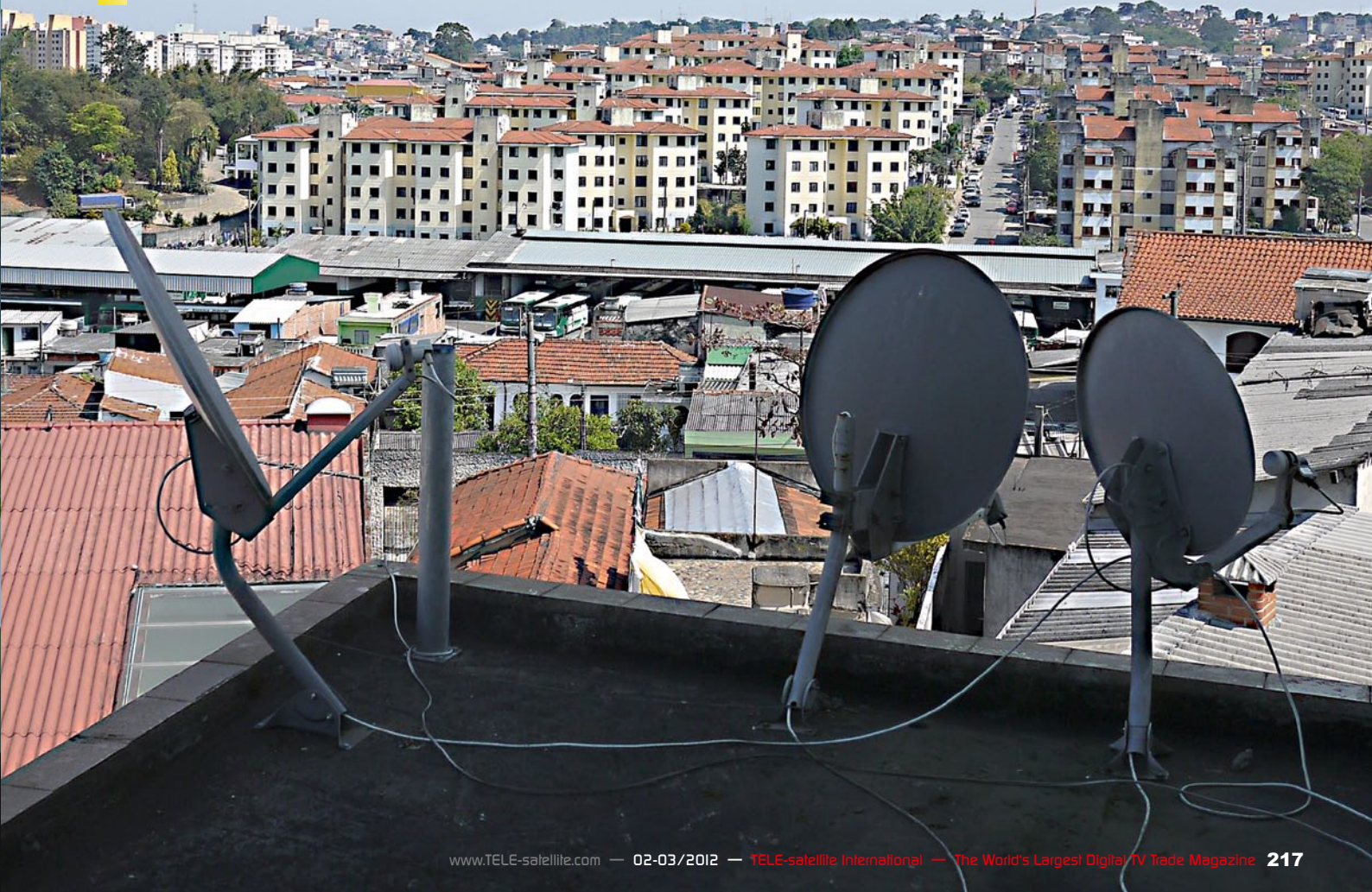
"I'm also a passionate feed hunter", explains Saul, "and enjoy watching the feeds on HISPASAT, INTELSAT 85 and TELSTAR 12." He trades information with other feed hunters. "We meet on the Internet page www.exploradores-desatelites.com."

With any luck he'll manage to install a twelfth dish. "I would point that one to BRASISAT 4." He also likes the AMC6 satellite in the C-band, "but in this case there's interference with terrestrial signals."

As a technology fan, he also equipped his home with cameras. He can check out his security cameras at any time with his iPhone and 3G network.

Saul Spinetti is making good use of today's technology and really enjoys doing it.

2



Live your Dream!



TELE-satellite Magazine **Business Voucher**

www.TELE-satellite.info/12/03/dxer-budapest

Direct Contact to Sales Manager

- *Receives every satellite than can possibly be received.*
- *Acquired almost all of his 50 dishes in used condition.*
- *Interested in the various dish reception technologies*
- *Able to fabricate missing components*

■ Dishes on the roof? Dishes on the wall? It almost looks like they're growing out of the house. Sure enough, it's György's antenna farm. He's a satellite enthusiast from Budapest, Hungary.

A Fulltime Satellite DXer



■ Can you find György? He's standing on the first floor between two dishes. Two large 2.2-meter antennas are leaning on the garden wall, unfortunately, there's no place to install these monster dishes as yet.

What could be better in life than actually living your dream? What could be better for a satellite enthusiast than to erect as many dishes as he wants to? It's exactly this dream that György in Budapest is living right now. He has managed to install 11 satellite antennas on the roof of his house plus another 20 dishes on the side of his house and on a secondary wall. "Here in my garage there are more dishes", he says to us on a visit to his home in Budapest's district 13, not too far from the center.

György (that's George in English) has installed not only normal antennas, but he can show us all the different dish variants that have existed over time, from offset and prime focus dishes to double-reflector antennas and even unusual models such as a dish with a magnifying glass reflector.

He doesn't even want to attempt to calculate how much all of this has cost him: "It has to be several thousand Euros". Actually, he only bought just a few components new for his incredible antenna array. "I'm always scanning through eBay; many people have no idea what they're selling and very often I can get dishes and other components very cheaply." One of the highlights of all this is the EGIS rotors that he has. They are highly professional motors and were very popular in the early days of satellite reception since they were able to move large 1.8-meter antennas. György has five of these motors all of which are in use: "The first two I bought brand new but the others I managed to acquire very inexpensively through eBay."

György first started playing around with satellite reception in 1980: "Back then the Olympics were in Moscow and I was there when the TV headquarters was built." Hungary had delivered several hundred TV monitors and György was there when the first satellite dish-



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1



2

es were erected in Moscow with which CNN was received. György worked for many years in Moscow: "I worked for a local authority and handled electronic communications", he says as he thinks back to those days.

Today György is retired and can therefore spend as much time as he wants with his hobby. "A few years ago I was in the USA and bought a number of large used dishes." He packed them in a container in order to get them home; they are now all mounted on the wall of his home. There are six apartments in his building. "When

my neighbor moved out, I bought his apartment", says György who then tore down the dividing wall between the two apartments. This all had a nice side effect: one less person to complain about all of his dishes. "With my other neighbors upstairs who happen to come from Russia, I came to an agreement. They get all of their Russian TV channels from me and in return don't complain about all the antennas", grins György.

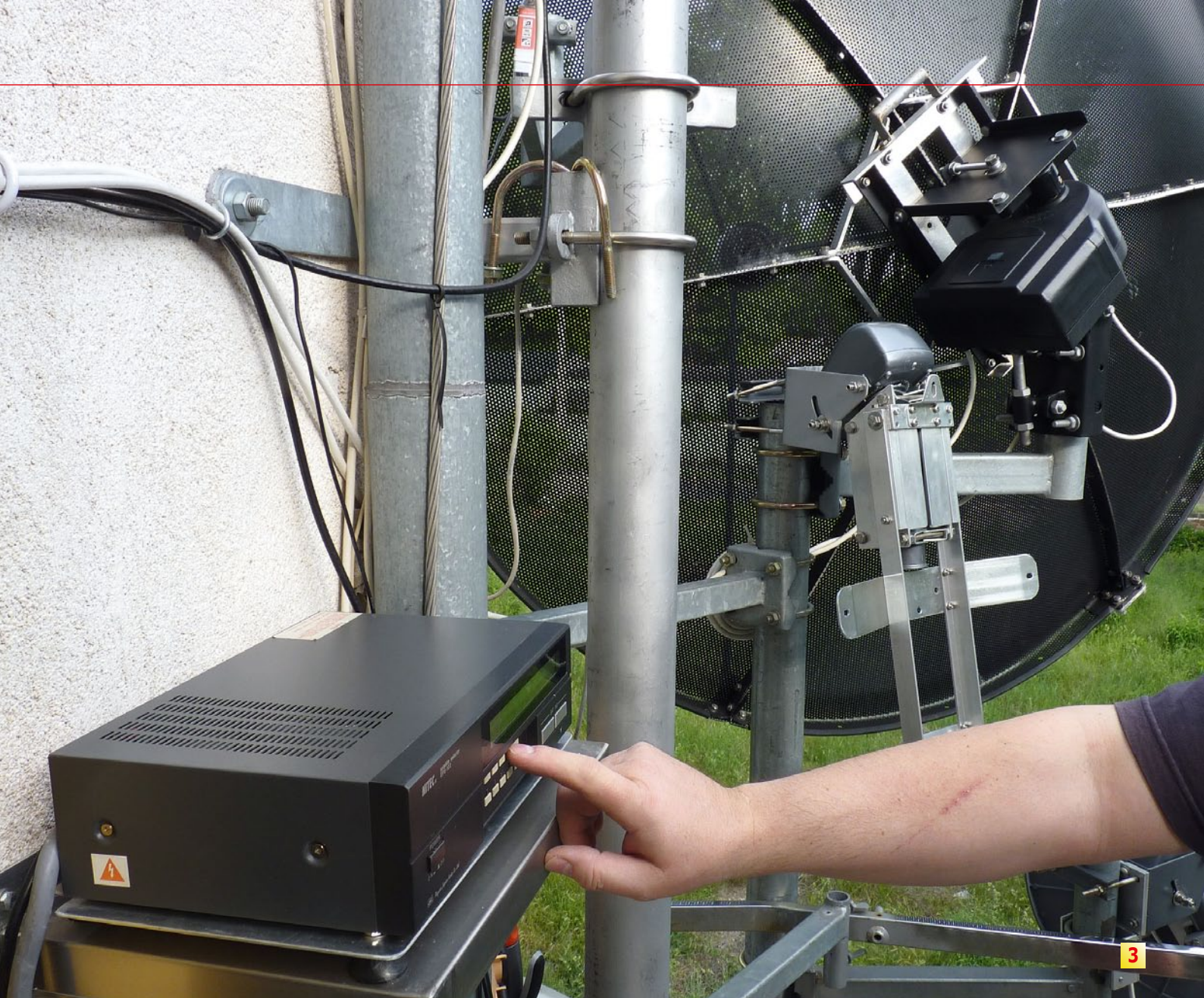
The vacant property next door will have a house built on it in the near future. "I already inquired about buying the apartment upstairs so that I can

1. Everything he needs to set up his dishes can be found in this weather-proof cabinet on the outside wall of his home. This includes among other things a receiver with a monitor as well as an array of tools that he uses to tighten mounting screws, loosen mounting screws to reposition a dish and/or adjust its elevation angle. A flashlight is inside the cabinet; György likes to do most of his work in the evenings. He can even connect a projection TV to his receiver: "This lets me project the TV picture onto the wall of my house making it very easy for me to adjust dishes that are located a little further away." A projection TV for antenna alignment! Surely György is unique when it comes to this! He can even attach a laptop to the lid of this cabinet; the power cable and Internet connection are already hard-wired in place - all he has to do is connect them to his laptop. Then he can chat with his hobby colleagues via the Internet while he's adjusting an antenna.

2. György even mounted the monitor on a pull out carrier so that he can increase his viewing range to the monitor.

3. The control box for the EGIS rotor can be found hidden under a rain hood.

4. What is this? Sure enough, György even installed a small video camera so that he can see from inside his house how his dish is turning.





1



2

1. György even installed antennas in his garden. Here a friend is helping him with a new mount on a 1.8-meter used fiber glass antenna.

2. Everything comes together here. With a professional signal analyzer and multiple receivers, György can control all of his dishes and watch all of the TV channels.



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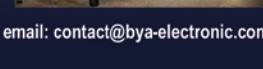
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also install dishes on that roof." He does have one handicap that he has to deal with: "This tree blocks my reception of THAICOM at 78.5 east!" But that's the only obstacle that blocks his otherwise unobstructed view of the sky. "I can receive every satellite here. At the far eastern end is the EXPRESS satellite at 96.5 east that I receive with a 2.20-meter PFA and at the other end is a C-band satellite at 55 west." A highlight of his antenna farm is the 1.8-meter antenna pointed at ASTRA at 28.2 east. "With this dish I can receive BBC and ITV."

György is always building something. At the moment he is working on a 1.5-meter antenna that he acquired very cheaply from somewhere: "The mount is missing so I'm building a new one myself."

György is very handy when it comes to do-it-yourself projects and he has all the necessary tools in his workshop. But he does more than just deal with the mechanical side of things: "I'm working on programming an Internet connection for an EGIS rotor." His goal is to be able to control this rotor remotely via the Internet. "The control units for these rotors date back to the previous century and are written in ancient code.", explains György the challenges involved in adapting such old technology to current times.



György lives with his dishes. He's always on the lookout for new dishes that he can get for a very good price so that he can work on putting them back into service. He's always testing, probing and building. Once and a while he'll actually sit down and watch TV, but for a real satellite enthusiast, watching TV is more of a side thing to do. The actual excitement is being able to receive anything and everything and taking advantage of all the necessary technology.

His true hobby is how a satellite signal can be received with a dish and an LNB. He wasn't satisfied with just a few dishes, rather, he continued to expand and fine-tune his dish farm!

1. In György's shack: He's fabricating a new LNB holder by himself for one of his dishes. Many of the used antennas that he buys have missing or have worn out parts or have to be retrofitted to match the size of today's LNBs.

2. György has his large assortment of mechanical components nicely organized and includes a vast collection of screws, nuts, washers, etc.

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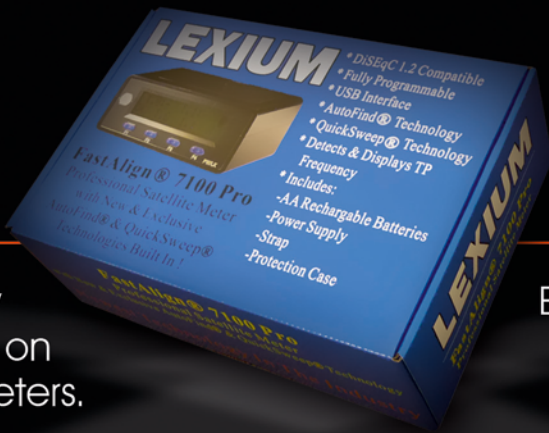
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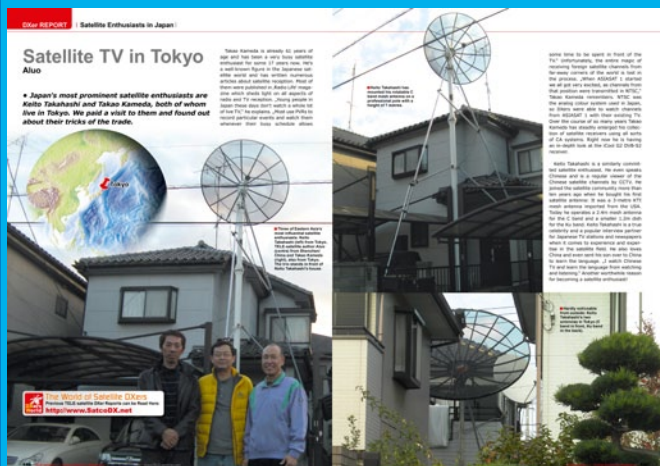
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COMPANY REPORT | Satellite Consultant, China

Aluo-sat Knows Everybody!

Somebody active in the satellite field in China can hardly get around meeting Luo Shi Gang sooner or later, not only because he's been distributing THK-satellite in China for many years, but also because he is a high-profile figure in many other satellite areas as well. Since China is entering the DTH age in 2009 now is a good time for visiting Luo Shi Gang in his office in Shenzhen.

Luo has named his company *Alu-sat* for a simple reason: In the Chinese dialect spoken in southern China as "W" is often pronounced to the first name of a person, *So Luo becomes Alu*.

Originally, Luo came from Southern in China's southeast, he studied electronic engineering and got his first job at a computer production electronic components for the Chinese military in Lanzhou City in the northwest. Among other things, his first employer also manufactured satellite equipment.

Luo experienced genuine satellite reception for the first time when he returned again from DSHW at DLR East, which fascinated by the first



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Rini de Weijze, Amsterdam

Rini de Weijze, Amsterdam

EX-66 REPORT : Satellite Reception in The Netherlands

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Pieter Redelinghuys, Klerksdorp

Pieter Redelinghuys, Klerksdorp

A man in a blue patterned jacket and dark trousers stands between two large satellite dishes. The dish on the left is black and mounted on a wooden frame, while the one on the right is white and mounted on a metal pole. The background shows a rural landscape with trees and a small building. A small inset photo in the bottom left corner shows a man in a blue and white striped shirt standing in front of a white fence.

„The pharmacist“

Pieter Redelinghuys lives in the small town of Klerksdorp, some 200 km south-west of Johannesburg in the North West Province and is one of the pioneers of sat-

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Ron Eberson, Amsterdam

Ron Eberson, Amsterdam

THE REPORT : Executive Summary

First Steps in the Ka Band Reception Experiments In the 20 GHz Range

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Diego Fernando Sanchez Rosende, Tenerife

Diego Fernando Sanchez Rosende, Tenerife

Opinion

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US TV in Europe

Alexander Wiese



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Juan Carlos Miranda Duarte, Santiago

Juan Carlos Miranda Duarte, Santiago

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Satelliten in Santiago

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Tony

Tony Di Rienzo, Toronto

SATELLITE DX | Portrait |

Tony Di Rienzo



Tony moved his equipment cabinet away from the wall to show us the sabing. He ran seven up to six receivers on his antennas. A 40TV receiver functions as a central power supply for the LNBs and also acts as the positioner for the selector motor. All additional receivers are connected as slaves via a splitter or DiSEqC switch.



Tony Di Rienzo in his backyard standing next to his 8-meter dish. In front of him is one of his 120cm antennas with 8tab motor.

Tony Di Rienzo should be a familiar name with TELE-satellite readers. In the 03/2006 issue, TELE-satellite reported on his C-band reception experiments using a small dish. That report created quite a stir on the satellite scene. We wanted to know what Tony was up to so

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Canada

Leo

Leo Stouten, Leuven

SATELLITE DX | Portrait |

Leo Stouten

A satellite DXer in the heart of Europe! In the city of Leuven, home to Europe's oldest university (dating back to the 13th century), which happens to be near Brussels, the "capital" of the European Union, Leo Stouten has his antenna farm erected on a small row of attached houses. He has been retired for quite some time yet at 74 he is at the prime of life. Only recently did he acquire a DDM radio (Digital Radio Mondiale) because he wanted to hear what it sounded like listening to AM digital radio signals.

But his true love has always been satellite reception. It began with him back in 1987 with a 1.2-meter offset dish and Niles's first analog receiver. He has since stuck with the Niles name and is today using the Niles Mediamaster, although for blind scanning he opted for a receiver from Fortracar. 1996 was the year of the motorized antenna for him: a 1.2-meter Gregorian antenna, an antenna with a second reflector for the LNB. This kind of dish gives the same performance as a standard 1.5-meter antenna. Leo is very proud to say, "I can now receive almost all of it, just not with that much bad weather reserve." His motorized setup makes it possible for him to receive all the band satellites from 70° east to 60° west.



Leo Stouten on his roof next to his 1.2-meter motorized Gregorian antenna.

"I did have some big problems with the motor at first," explains Leo. "This is the fifth motor I've had to install." Fortunately, this last motor has been working perfectly for several years now. Leo is extremely satisfied with his antenna system, the signals from which he observes on his 16:9 TV. "The LNB has a noise figure of 0.7 dB," admits Leo, "I couldn't

ask for a better system." Leo, who worked for many years for Philips in their computer department, is very active in Belgium's satellite scene and is well-known by many in the satellite industry. He regularly visits the satellite trade shows ANSA in Cologne and BIC in Amsterdam, you might bump into him there some day!

www.TELE-satellite.com/TELE-satellite-0705/eng/leostouten.pdf

Grandfather South Africa

Ivor Cartmell, Johannesburg

ENDUSER REPORT |

"Satellite Grandfather"

Best Grandfather in very general of his country, Ivor Cartmell, 74, is a retired engineer and a satellite enthusiast. He has been receiving satellite signals for over 20 years. He has a large antenna farm in his backyard, which includes several large dishes and a motorized antenna. He is a member of the South African Satellite Enthusiasts Club (SASEC) and has been active in the club for many years. He has also been a member of the International Amateur Radio Union (IARU) and the International Telecommunication Union (ITU).



Ivor Cartmell is a retired engineer and a satellite enthusiast. He has been receiving satellite signals for over 20 years. He has a large antenna farm in his backyard, which includes several large dishes and a motorized antenna. He is a member of the South African Satellite Enthusiasts Club (SASEC) and has been active in the club for many years. He has also been a member of the International Amateur Radio Union (IARU) and the International Telecommunication Union (ITU).



www.TELE-satellite.com/TELE-satellite-0711/eng/grandfather.pdf

BSH Belgium

Aimé Holvoet, Brussels

SATELLITE DX | Portrait |

Belgian Satellite Hoppers

A bunch of Belgian satellite DXers have found a wonderful name for their club: Belgian Satellite Hoppers. This association was founded in 1999 and since then its membership base has increased to almost 100 very active persons.

One of the most enthusiastic among them is Aimé Holvoet, who started his career in 1991 with a 1.2 m dish. In 1994 he added an antenna with a 3.1 m diameter and in 1996 he installed the object of all his pride: a professional 4m pole was anchored in his garden with a concrete block of three cubic meters and a 3.7 m ATI mast antenna complete with a



Aimé's antenna is an huge you can hardly fit the 1.2m head (above) and Aimé's head (below) on one picture. On the left side in the background you can see another 1.5 m

www.TELE-satellite.com/TELE-satellite-0705/eng/bsh.pdf

Ingo South Africa

Ingo Salomon, Stilfontein

DXER REPORT |

Satellite Reception in South Africa

Ingo Wants to Know!

Alexander Wies

First reception of satellite from Ingo Salomon in the "Sun" of our country. Ingo Salomon is a retired engineer and a satellite enthusiast. He has been receiving satellite signals for over 20 years. He has a large antenna farm in his backyard, which includes several large dishes and a motorized antenna. He is a member of the South African Satellite Enthusiasts Club (SASEC) and has been active in the club for many years. He has also been a member of the International Amateur Radio Union (IARU) and the International Telecommunication Union (ITU).

Ingo Salomon is a retired engineer and a satellite enthusiast. He has been receiving satellite signals for over 20 years. He has a large antenna farm in his backyard, which includes several large dishes and a motorized antenna. He is a member of the South African Satellite Enthusiasts Club (SASEC) and has been active in the club for many years. He has also been a member of the International Amateur Radio Union (IARU) and the International Telecommunication Union (ITU).



www.TELE-satellite.com/TELE-satellite-0709/eng/ingo.pdf

Thomas Austria

Thomas Haring, Vienna

SATELLITE RECEPTION |

C-Band Reception in Europe With a 120cm Antenna

Thomas Haring

In the last issue of TELE-satellite we saw how Thomas Haring, a retired engineer and a satellite enthusiast, had been receiving satellite signals for over 20 years. He has a large antenna farm in his backyard, which includes several large dishes and a motorized antenna. He is a member of the Austrian Satellite Enthusiasts Club (ASEC) and has been active in the club for many years. He has also been a member of the International Amateur Radio Union (IARU) and the International Telecommunication Union (ITU).

Thomas Haring is a retired engineer and a satellite enthusiast. He has been receiving satellite signals for over 20 years. He has a large antenna farm in his backyard, which includes several large dishes and a motorized antenna. He is a member of the Austrian Satellite Enthusiasts Club (ASEC) and has been active in the club for many years. He has also been a member of the International Amateur Radio Union (IARU) and the International Telecommunication Union (ITU).



www.TELE-satellite.com/TELE-satellite-0609/eng/c-band.pdf

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for testing STB and headends

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DMB-TH

DVB-C

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DVB-S2

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DVB-S	with 3D (ASTRA)
DVB-2	with MPEG2 and H.264 mix (PALAPA)
DVB-S	in MIS (ATLANTIC BIRD)
DVB-S2	with HDTV (HOTBIRD)
DVB-S2	with 3D (TURKSAT)
DVB-S2	with HDTV (AMAZONAS)
DVB-S2	with 3D (THOR)
DVB-T	with radio (Netherlands)
DVB-T	with MHEG (UK)
DVB-T	as retransmission off satellite (Qatar)
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DVB-S 23.5°E ASTRA
DVB-S2 28.2°E ASTRA
DVB-S2 42°E TURKSAT
DVB-S 108°E TELKOM 1
DVB-S 113°E PALAPA D



Highlights:

ATSC with HDTV (USA)
DMB-TH with HDTV (China)
DMB-TH with MHEG (Hongkong)
DVB-C in NagraVision 3 (Portugal)
DVB-S with 3D (ASTRA)

DVB-2 with MPEG2 and H.264 mix (PALAPA)
DVB-S in MIS (ATLANTIC BIRD)
DVB-S2 with HDTV (HOTBIRD)
DVB-S2 with 3D (TURKSAT)
DVB-S2 with HDTV (AMAZONAS)
DVB-S2 with 3D (THOR)

DVB-S2 with 1Seg mobile TV (AMC 6)
DVB-T with radio (Netherlands)
DVB-T with MHEG (UK)
DVB-T as retransmission off satellite (Qatar)
DVB-T2 with HDTV (Germany, UK)
ISDB-T with 1Seg mobile TV and HD (Brazil)

terrestrial

USA



Ron Roessel

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	64	0x0040	PMT	-	15.06	0.08	WNYW	5134	0x140E	ETT	-	1.70	0.01	N/A	
49	0x0031	MPEG2 Video	-	12624.19	65.08	WWOR-TV	0	0x0030	PMT	-	15.04	0.08	WWOR-TV	5135	0x140F	ETT	-	1.68	0.01	N/A
65	0x0041	MPEG2 Video	-	3189.60	16.44	WNYW	48	0x0000	PAT	-	15.04	0.08	N/A	5133	0x140D	ETT	-	1.68	0.01	N/A
8191	0x1FFF	Null Packets	-	2512.07	12.95	N/A	5128	0x1408	ETT	-	9.86	0.05	N/A	5006	0x138E	EIT	-	1.53	0.01	N/A
52	0x0034	AC3 Audio	-	470.16	2.42	WWOR-TV	5132	0x140C	ETT	-	3.06	0.02	N/A	5005	0x138D	EIT	-	1.53	0.01	N/A
68	0x0044	AC3 Audio	-	282.14	1.45	WNYW	5130	0x140A	ETT	-	2.60	0.01	N/A	5002	0x138A	EIT	-	1.42	0.01	N/A
53	0x0035	AC3 Audio	-	141.04	0.73	WWOR-TV	5001	0x1389	EIT	-	2.36	0.01	N/A	5007	0x138F	EIT	-	1.22	0.01	N/A
8187	0x1FFB	MGT	-	81.94	0.42	N/A	5131	0x140B	ETT	-	1.83	0.01	N/A	5129	0x1409	ETT	-	1.07	0.01	N/A
5000	0x1388	EIT	-	17.89	0.09	N/A	5004	0x138C	EIT	-	1.83	0.01	N/A	5003	0x138B	EIT	-	0.85	0.00	N/A

www.transponderstream.com/ATSC/US/NewYork-Ch9-1110.ts

terrestrial

China



TELE-satellite

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	85	0x0055	MPEG Audio	-	69.70	0.72	GZ-M3	1	0x0001	CAT	-	15.05	0.16	N/A	
163	0x00A3	MPEG2 Video	-	3079.28	31.92	GZ-M3	81	0x0051	MPEG Audio	-	69.70	0.72	_Service 154	17	0x0011	SNT	-	2.97	0.03	N/A
512	0x0200	MPEG2 Video	-	2772.28	28.74	_Service 1	01	0x0000	PAT	-	16.73	0.17	N/A	16	0x0010	IDT	-	2.97	0.03	N/A
161	0x00A1	MPEG2 Video	-	1950.78	20.22	_Service 154	32	0x0020	PMT	-	15.15	0.16	_Service 1	20	0x0014	TOT	-	0.20	0.00	N/A
8191	0x1FFF	Null Packets	-	1489.94	15.44	N/A	1027	0x0403	PMT	-	15.05	0.16	_Service 154							
650	0x028A	MPEG Audio	-	132.56	1.37	_Service 1	1026	0x0402	PMT	-	15.05	0.16	GZ-M3							

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TELE-satellite

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	2001	0x07D1	AC3 Audio	-	262.33	1.26	SZTV-HD	33	0x0021	PMT	-	15.06	0.07	SZTV-3	
101	0x0065	H.264 Video	-	10428.31	50.15	SZTV-HD	18	0x0012	EIT	-	224.23	1.08	N/A	45	0x002D	PMT	-	15.02	0.07	CCTV-4
104	0x0068	H.264 Video	-	2405.08	11.57	SZTV-7	1014	0x03F6	MPEG Audio	-	66.10	0.32	CCTV-4	34	0x0022	PMT	-	15.02	0.07	SZTV-HD
103	0x0067	H.264 Video	-	2002.94	9.63	SZTV-5	1013	0x03F5	MPEG Audio	-	66.10	0.32	GDTV	32	0x0020	PMT	-	15.02	0.07	SZTV-HD
102	0x0066	H.264 Video	-	1421.97	6.84	SZTV-3	1004	0x03EC	MPEG Audio	-	66.10	0.32	SZTV-7	0	0x0000	PAT	-	15.02	0.07	N/A
113	0x0071	H.264 Video	-	1351.58	6.50	GDTV	1003	0x03EB	MPEG Audio	-	66.10	0.32	SZTV-5	17	0x0011	SDT	-	4.55	0.02	N/A
114	0x0072	H.264 Video	-	1105.19	5.31	CCTV-4	1002	0x03EA	MPEG Audio	-	66.10	0.32	SZTV-3	20	0x0014	TOT	-	2.60	0.01	N/A
8191	0x1FFF	Null Packets	-	687.67	3.31	N/A	44	0x002C	PMT	-	15.06	0.07	GDTV	21	0x0015	Network Sync	-	1.52	0.01	N/A
1001	0x03E9	AC3 Audio	-	459.03	2.21	SZTV-HD	35	0x0023	PMT	-	15.06	0.07	SZTV-7	16	0x0010	NIT	-	1.30	0.01	N/A

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TELE-satellite

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name	1011	0x03F3	ACS Audio	-	459.43	1.88	CCTV-1 HD	17	0x0011	SDT	-	3.97	0.02	N/A
112	0x0070	H.264 Video	-	11465.37	47.01	CCTV-HD	18	0x0012	EIT	-	215.68	0.88	N/A	20	0x0014	TOT	-	2.64	0.01	N/A
111	0x006F	H.264 Video	-	10973.21	44.99	CCTV-1 HD	42	0x002A	PMT	-	15.09	0.06	CCTV-1 HD	16	0x0010	NIT	-	1.32	0.01	N/A
8191	0x1FFF	Null Packets	-	762.57	3.13	N/A	43	0x002B	PMT	-	15.04	0.06	CCTV-HD							
1012	0x03F4	ACS Audio	-	459.43	1.88	CCTV-HD	0	0x0000	PAT	-	15.04	0.06	N/A							

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HK

HongKong

DMBTH

HK

Network Name

MFN_TV

Recording

TELE-satellite

Transmitter

HongKong Channel 35

Remark

MHEG

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	Transmitter	MFN_TV	Recording	TELE-satellite
851	0x0353	H.264 Video	-	11970.85	55.26	High Definition Jade	823 0x0337 AC3 Audio - 197.41 0.91 J2	21 0x0015 Network Sync - 1.49 0.01 N/A	
821	0x0335	H.264 Video	-	3698.76	17.07	J2	822 0x0336 AC3 Audio - 197.41 0.91 J2	17 0x0011 SDT - 0.95 0.00 N/A	
831	0x033F	H.264 Video	-	2983.64	13.77	iNews	832 0x0340 AC3 Audio - 133.20 0.61 iNews	16 0x0010 NIT - 0.36 0.00 N/A	
8191	0x1FFF	Null Packets	-	866.69	4.00	N/A	834 0x0342 AC3 Audio - 100.73 0.47 iNews	20 0x0014 TOT - 0.18 0.00 N/A	
1001	0x03E9	MHEG	-	490.60	2.26	J2	833 0x0341 AC3 Audio - 100.73 0.47 iNews	857 0x0359 DVB Subtitles - 0.05 0.00 High Definition Jade	
853	0x0355	AC3 Audio	-	423.06	1.95	High Definition Jade	850 0x0352 PMT - 15.04 0.07 High Definition Jade	856 0x0358 DVB Subtitles - 0.05 0.00 High Definition Jade	
852	0x0354	AC3 Audio	-	235.06	1.09	High Definition Jade	830 0x033E PMT - 15.04 0.07 iNews	855 0x0357 DVB Subtitles - 0.05 0.00 High Definition Jade	
18	0x0012	EIT	-	200.74	0.93	N/A	820 0x0334 PMT - 15.04 0.07 J2	825 0x0339 DVB Subtitles - 0.05 0.00 J2	
							0 0x0000 PAT - 15.04 0.07 N/A		

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DVB-C

cable

PT

Portugal

DVB-C

PT

Network Name

Cabo Porto

Recording

Vitor Martins Augusto

Transmitter

Porto Channel 54

Remark

Nagravision 3

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	Transmitter	Porto Channel 54	Recording	Vitor Martins Augusto
5184	0x1440	MPEG2 Video	\$	5827.72	15.32	TVI	8144 0x1FD0 Private Sections - 200.03 0.53 N/A	6760 0x1A68 Data - 100.02 0.26 Canal de Teste	
7968	0x1F20	MPEG2 Video	\$	4930.85	12.97	SIC Noticias	8096 0x1FA0 Private Sections - 200.01 0.53 N/A	119 0x0077 ECM/EMM - 92.30 0.24 N/A	
5168	0x1430	MPEG2 Video	\$	3740.60	9.84	SIC	5185 0x1441 MPEG Audio \$ 198.53 0.52 TVI	17 0x0011 SDT - 56.40 0.15 N/A	
7210	0x1C2A	MPEG2 Video	\$	3603.73	9.48	RTP Informaçao	5233 0x1471 MPEG Audio \$ 198.51 0.52 Canal Panda	217 0x00D9 ? - 56.30 0.15 N/A	
5152	0x1420	MPEG2 Video	\$	3562.78	9.37	RTP 2	5169 0x1431 MPEG Audio \$ 198.51 0.52 SIC	0 0x0000 PAT - 37.51 0.10 N/A	
8191	0x1FFF	Null Packets	-	3027.04	7.96	N/A	5153 0x1421 MPEG Audio \$ 198.51 0.52 RTP 2	1 0x0001 CAT - 24.70 0.06 N/A	
5136	0x1410	MPEG2 Video	\$	2988.99	7.86	RTP 1	5137 0x1411 MPEG Audio \$ 198.51 0.52 RTP 1	16 0x0010 NIT - 21.76 0.06 N/A	
5232	0x1470	MPEG2 Video	\$	2266.82	5.96	Canal Panda	7969 0x1F21 MPEG Audio \$ 198.48 0.52 SIC Noticias	1193 0x04A9 ECM/EMM - 15.05 0.04 Panda Biggs	
7648	0x1DE0	MPEG2 Video	\$	2087.22	5.49	Panda Biggs	7649 0x1DE1 MPEG Audio \$ 198.48 0.52 Panda Biggs	1166 0x048E ECM/EMM - 15.05 0.04 RTP Informaçao	
18	0x0012	EIT	-	696.07	1.83	N/A	7211 0x1C2B MPEG Audio \$ 198.48 0.52 RTP Informaçao	1017 0x03F9 ECM/EMM - 15.05 0.04 SIC Noticias	
6743	0x1A57	?	-	350.08	0.92	N/A	33 0x0021 Private Sections - 198.18 0.52 N/A	1006 0x03EE ECM/EMM - 15.05 0.04 Canal Panda	
6772	0x1A74	Data	-	300.07	0.79	DSMCC - IPPV	5280 0x14A0 MPEG2 Video - 195.96 0.52 Canal de Teste	1003 0x03EB ECM/EMM - 15.05 0.04 TVI	
817	0x0331	PMT	-	297.25	0.78	Canal de Teste	5138 0x1412 Teletext - 188.10 0.49 RTP 1	1002 0x03EA ECM/EMM - 15.05 0.04 SIC	
5186	0x1442	Teletext	-	263.26	0.69	TVI	6776 0x1A78 Data - 170.04 0.45 DSMCC - RADIOS	1001 0x03E9 ECM/EMM - 15.05 0.04 RTP 2	
5170	0x1432	Teletext	-	225.63	0.59	SIC	8162 0x1FE2 Private Sections - 150.02 0.39 N/A	1000 0x03E8 ECM/EMM - 15.05 0.04 RTP 1	
8160	0x1FE0	Private Sections	-	200.03	0.53	N/A	8128 0x1FC0 Private Sections - 150.02 0.39 N/A	216 0x00D8 ? - 8.38 0.02 N/A	
							8176 0x1FF0 Private Sections - 100.02 0.26 N/A	20 0x0014 TOT - 2.74 0.01 N/A	

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DVB-S

satellite

9°E

EUROBIRD

DVB-S

9°E

Network Name

BSS LIEDEKERKE

Recording

Thomas Haring

Transmitter

EUROBIRD 11.843V

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	Transmitter	BSS LIEDEKERKE	Recording	Thomas Haring
2511	0x09CF	H.264 Video	-	8001.68	21.04	TRACE TROPICAL HD	3015 0x0BC7 MPEG Audio - 132.62 0.35 LUXE. TV HD	3010 0x0BC2 PMT - 3.17 0.01 LUXE. TV HD	
3011	0x0BC3	H.264 Video	-	5134.35	13.50	LUXE. TV HD	3013 0x0BC5 MPEG Audio - 132.62 0.35 LUXE. TV HD	2510 0x09CE PMT - 3.17 0.01 TRACE TROPICAL HD	
8191	0x1FFF	Null Packets	-	4596.79	12.09	N/A	2504 0x09C8 MPEG Audio - 132.33 0.35 EUROSPORT 2 BL	704 0x02C0 PMT - 3.17 0.01 DENG RADIO	
2500	0x09C4	MPEG2 Video	\$	4300.86	11.31	EUROSPORT 2 BL	768 0x0300 MPEG Audio - 118.39 0.31 DENG RADIO	410 0x019A PMT - 3.17 0.01 NEWROZ TV	
2051	0x0803	MPEG2 Video	-	3992.95	10.50	BSS	2052 0x0804 MPEG Audio - 116.40 0.31 BSS	0 0x0000 PAT - 3.17 0.01 N/A	
711	0x02C7	MPEG2 Video	-	3468.58	9.12	MESOPOTAMIA TV	712 0x02C8 MPEG Audio - 116.40 0.31 MESOPOTAMIA TV	2050 0x0802 PMT - 3.16 0.01 BSS	
701	0x02BD	MPEG2 Video	-	3205.81	8.43	ROJ TV	702 0x02BE MPEG Audio - 116.40 0.31 ROJ TV	710 0x02C6 PMT - 3.16 0.01 MESOPOTAMIA TV	
411	0x019B	MPEG2 Video	-	3055.43	8.04	NEWROZ TV	412 0x019C MPEG Audio - 116.40 0.31 NEWROZ TV	700 0x02BC PMT - 3.16 0.01 ROJ TV	
2512	0x09D0	MPEG Audio	-	198.49	0.52	TRACE TROPICAL HD	2502 0x09C6 MPEG Audio \$ 100.29 0.26 EUROSPORT 2 BL	1 0x0001 CAT - 3.16 0.01 N/A	
3014	0x0BC6	MPEG Audio	-	165.32	0.43	LUXE. TV HD	2501 0x09C5 MPEG Audio \$ 100.29 0.26 EUROSPORT 2 BL	17 0x0011 SDT - 1.58 0.00 N/A	
2503	0x09C7	MPEG Audio	-	164.53	0.43	EUROSPORT 2 BL	2508 0x09CC Teletext - 75.22 0.20 EUROSPORT 2 BL	2509 0x09CD Private Sections - 1.51 0.00 N/A	
3018	0x0BCA	MPEG Audio	-	132.62	0.35	LUXE. TV HD	33 0x0021 ECM/EMM - 15.83 0.04 EUROSPORT 2 BL	16 0x0010 NIT - 0.32 0.00 N/A	
3017	0x0BC9	MPEG Audio	-	132.62	0.35	LUXE. TV HD	32 0x0020 ECM/EMM - 15.83 0.04 EUROSPORT 2 BL	20 0x0014 TOT - 0.19 0.00 N/A	
3016	0x0BC8	MPEG Audio	-	132.62	0.35	LUXE. TV HD	18 0x0012 EIT - 12.66 0.03 N/A		
							500 0x01F4 PMT - 6.34 0.02 EUROSPORT 2 BL		

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9°E

Network Name

E.B.9 NMX

Recording

Thomas Haring

Transmitter

EUROBIRD 11.938H

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	Transmitter	E.B.9 NMX	Recording	Thomas Haring
4331	0x10EB	MPEG2 Video	\$ 4105.59	10.79	RAI Africa	1102 0x044E MPEG Audio	- 132.36 0.35	PTV	1570 0x0622 PMT - 7.91 0.02 RFI Bucarest
1026	0x0402	MPEG2 Video	\$ 3659.23	9.62	Disney Channel ME	1101 0x044D MPEG Audio	\$ 132.36 0.35	Walf TV	1569 0x0621 PMT - 7.91 0.02 RFI Lisbonne
1011	0x03F3	MPEG1 Video	- 2862.23	7.53	CCTV9 DOCUMENTARY	1321 0x0529 MPEG Audio	- 132.33 0.35	Ayngaran TV	1568 0x0620 PMT - 7.91 0.02 RFI Sofia
1005	0x03ED	MPEG2 Video	- 2759.03	7.25	NET 25 INTERNATIONAL	1109 0x0455 MPEG Audio	- 132.33 0.35	Africa 7	1567 0x061F PMT - 7.91 0.02 RFI Bakou
1003	0x03EB	MPEG2 Video	- 2327.30	6.12	JSTV	1103 0x044F MPEG Audio	- 132.33 0.35	JSTV	1566 0x061E PMT - 7.91 0.02 RFI Tbilissi
1004	0x03EC	MPEG2 Video	\$ 2215.43	5.82	TFM Senegal	1111 0x0457 MPEG Audio	- 131.57 0.35	CCTV9 DOCUMENTARY	1565 0x061D PMT - 7.91 0.02 RFI Prague
1221	0x04C5	MPEG2 Video	- 2105.53	5.54	Ayngaran TV	1605 0x0645 MPEG Audio	- 69.66 0.18	RFI Divers 1	1564 0x061C PMT - 7.91 0.02 RFI Germany
1231	0x04CF	MPEG2 Video	- 1941.20	5.10	Jaya TV	8190 0x1FFE PCR	- 44.25 0.12	CCTV9 DOCUMENTARY	1563 0x061B PMT - 7.91 0.02 RFI Americas 5
1211	0x04BB	MPEG2 Video	- 1649.68	4.34	Touba Medias	1029 0x0405 PCR	- 39.37 0.10	N/A	1562 0x061A PMT - 7.91 0.02 RFI Music
1002	0x03EA	MPEG2 Video	- 1498.68	3.94	PTV	18 0x0012 EIT	- 25.40 0.07	N/A	1561 0x0619 PMT - 7.91 0.02 RFI Divers 4
1007	0x03EF	MPEG2 Video	- 1437.95	3.78	YAARL TV	8000 0x1F40 ECM/EMM	- 15.83 0.04	RAI Africa	1560 0x0618 PMT - 7.91 0.02 RFI Divers 3
601	0x0259	Data	- 1426.52	3.75	PMI Streaming W3	1511 0x05E7 ECM/EMM	- 15.83 0.04	Walf TV	1559 0x0617 PMT - 7.91 0.02 RFI Latine
1001	0x03E9	MPEG2 Video	\$ 1390.50	3.66	Walf TV	971 0x03CB ECM/EMM	- 15.83 0.04	TFM Senegal	1558 0x0616 PMT - 7.91 0.02 RFI Rmc Mo
1008	0x03F0	MPEG2 Video	- 1159.79	3.05	KURD1	961 0x03C1 ECM/EMM	- 15.83 0.04	Walf TV	1557 0x0615 PMT - 7.91 0.02 RFI Divers 7
8191	0x1FFF	Null Packets	- 1027.15	2.70	N/A	126 0x007E PMT	- 15.83 0.04	Disney Channel ME	1556 0x0614 PMT - 7.91 0.02 RFI Divers 2
1009	0x03F1	MPEG2 Video	- 926.76	2.44	Africa 7	0 0x0000 PAT	- 15.83 0.04	N/A	1555 0x0613 PMT - 7.91 0.02 RFI Divers 1
600	0x0258	Data	- 200.91	0.53	PMI File W3	17 0x0011 SDT	- 15.71 0.04	N/A	1554 0x0612 PMT - 7.91 0.02 RFI Afrique
1154	0x0482	MPEG Audio	\$ 200.65	0.53	RFM	1130 0x046A DVB Subtitles	- 13.73 0.04	Disney Channel ME	1553 0x0611 PMT - 7.91 0.02 RFI Langues Div
1127	0x0467	MPEG Audio	\$ 198.55	0.52	Disney Channel ME	500 0x01F4 PMT	- 7.94 0.02	PMI File W3	1552 0x0610 PMT - 7.91 0.02 RFI Langues Est
1129	0x0469	MPEG Audio	\$ 198.52	0.52	Disney Channel ME	111 0x006F PMT	- 7.94 0.02	CCTV9 DOCUMENTARY	1551 0x060F PMT - 7.91 0.02 RFI Français
4332	0x10EC	MPEG Audio	\$ 196.81	0.52	RAI Africa	102 0x0066 PMT	- 7.94 0.02	PTV	501 0x01F5 PMT - 7.91 0.02 PMI Streaming W3
1128	0x0468	MPEG Audio	\$ 196.81	0.52	Disney Channel ME	1599 0x063F PMT	- 7.91 0.02	RFI Test	151 0x0097 PMT - 7.91 0.02 Walf 2
1126	0x0466	MPEG Audio	\$ 196.81	0.52	Disney Channel ME	1592 0x0638 PMT	- 7.91 0.02	RFI Skopje	150 0x0096 PMT - 7.91 0.02 Walf 1
1150	0x047E	MPEG Audio	\$ 135.88	0.36	Walf 1	1591 0x0637 PMT	- 7.91 0.02	RFI Anik	123 0x007B PMT - 7.91 0.02 Jaya TV
1612	0x064C	MPEG Audio	- 135.85	0.36	RFI Music	1589 0x0635 PMT	- 7.91 0.02	RFI Barcelona	122 0x007A PMT - 7.91 0.02 Ayngaran TV
1611	0x064B	MPEG Audio	- 135.85	0.36	RFI Divers 4	1588 0x0634 PMT	- 7.91 0.02	RFI OrdSPACE	121 0x0079 PMT - 7.91 0.02 Touba Medias
1610	0x064A	MPEG Audio	- 135.85	0.36	RFI Divers 3	1587 0x0633 PMT	- 7.91 0.02	RFI Hispasat2	114 0x0072 PMT - 7.91 0.02 RFM
1609	0x0649	MPEG Audio	- 135.85	0.36	RFI Hispasat1	1586 0x0632 PMT	- 7.91 0.02	RFI Hispasat1	109 0x006D PMT - 7.91 0.02 Africa 7
1606	0x0646	MPEG Audio	- 135.85	0.36	RFI Divers 2	1585 0x0631 PMT	- 7.91 0.02	RFI Rmc Amman	108 0x006C PMT - 7.91 0.02 KURD1
1604	0x0644	MPEG Audio	- 135.85	0.36	RFI Test	1584 0x0630 PMT	- 7.91 0.02	RFI Orbit	107 0x006B PMT - 7.91 0.02 YAARL TV
1603	0x0643	MPEG Audio	- 135.85	0.36	RFI Erevan	1583 0x062F PMT	- 7.91 0.02	RFI Austria	105 0x0069 PMT - 7.91 0.02 NET 25 INTERNATIONAL
1601	0x0641	MPEG Audio	- 135.85	0.36	RFI Skopje	1582 0x062E PMT	- 7.91 0.02	RFI M Orient	104 0x0068 PMT - 7.91 0.02 TFM Senegal
1151	0x047F	MPEG Audio	\$ 135.85	0.36	Walf 2	1581 0x062D PMT	- 7.91 0.02	RFI Multilingue	101 0x0065 PMT - 7.91 0.02 Walf TV
1608	0x0648	MPEG Audio	- 135.82	0.36	RFI Rmc Amman	1580 0x062C PMT	- 7.91 0.02	RFI Ekaterinbourg	35 0x0023 PMT - 7.91 0.02 JSTV
1607	0x0647	MPEG Audio	- 135.82	0.36	RFI Divers 7	1579 0x062B PMT	- 7.91 0.02	RFI Liban	32 0x0020 PMT - 7.91 0.02 RAI Africa
1602	0x0642	MPEG Audio	- 135.82	0.36	RFI Langues Est	1578 0x062A PMT	- 7.91 0.02	RFI Montenegro	1 0x0001 CAT - 7.91 0.02 N/A
1331	0x0533	MPEG Audio	- 132.39	0.35	Jaya TV	1577 0x0629 PMT	- 7.91 0.02	RFI Kosovo	1199 0x04AF ECM/EMM - 5.09 0.01 Disney Channel ME
1107	0x0453	MPEG Audio	- 132.39	0.35	YAARL TV	1576 0x0628 PMT	- 7.91 0.02	RFI Albania	1132 0x046C DVB Subtitles - 3.00 0.01 Disney Channel ME
1311	0x051F	MPEG Audio	- 132.36	0.35	Touba Medias	1575 0x0627 PMT	- 7.91 0.02	RFI Chisinau	1131 0x046B DVB Subtitles - 3.00 0.01 Disney Channel ME
1108	0x0454	MPEG Audio	- 132.36	0.35	KURD1	1574 0x0626 PMT	- 7.91 0.02	RFI Ocean Indien	16 0x0010 NIT - 0.64 0.00 N/A
1105	0x0451	MPEG Audio	- 132.36	0.35	NET 25 INTERNATIONAL	1573 0x0625 PMT	- 7.91 0.02	RFI Erevan	1226 0x04CA ECM/EMM - 0.61 0.00 N/A
1104	0x0450	MPEG Audio	\$ 132.36	0.35	TFM Senegal	1572 0x0624 PMT	- 7.91 0.02	RFI Russia	20 0x0014 TOT - 0.06 0.00 N/A
						1571 0x0623 PMT	- 7.91 0.02	RFI Astra 4	

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9°E

Network Name

AFN Eurobird 9A

Recording

Thomas Haring

Transmitter

EUROBIRD 12.418V

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	Transmitter	AFN Eurobird 9A	Recording	Thomas Haring
8191	0x1FFF	Null Packets	- 3900.20	10.25	N/A	1300 0x051A MPEG Audio	\$ 125.39 0.33	AFN Freedom	5010 0x1392 PMT - 15.05 0.04 Movie Channel
510	0x01FE	MPEG2 Video	\$ 2836.36	7.46	News	1002 0x03EA MPEG Audio	- 125.39 0.33	AFN Freedom	5009 0x1391 PMT - 15.05 0.04 Family Channel
910	0x038E	MPEG2 Video	\$ 2800.37	7.36	Family Channel	1000 0x03E8 MPEG Audio	\$ 125.39 0.33	Movie Channel	5008 0x1390 PMT - 15.05 0.04 Pentagon Channel
810	0x032A	MPEG2 Video	- 2621.95	6.89	Pentagon Channel	900 0x0384 MPEG Audio	\$ 125.39 0.33	Family Channel	5006 0x138E PMT - 15.05 0.04 AFN Xtra
110	0x00D2	MPEG2 Video	\$ 2498.79	6.57	AFN Vicenza / Livorno	700 0x02BC MPEG Audio	\$ 125.39 0.33	AFN Rota	5005 0x138D PMT - 15.05 0.04 News
1310	0x051E	MPEG2 Video	\$ 2393.11	6.29	AFN Freedom	600 0x0258 MPEG Audio	\$ 125.39 0.33	AFN Xtra	1 0x0001 CAT - 15.05 0.04 N/A
610	0x0262	MPEG2 Video	\$ 2382.07	6.26	AFN Xtra	509 0x01FD MPEG Audio	\$ 125.39 0.33	News	0 0x0000 PAT - 15.05 0.04 N/A
1010	0x03F2	MPEG2 Video	\$ 2326.88	6.12	Movie Channel	400 0x0190 MPEG Audio	\$ 125.39 0.33	AFN Sigonella	6262 0x1876 ECM/EMM - 14.88 0.04 AFN Freedom Radio
410	0x019A	MPEG2 Video	\$ 2299.75	6.05	AFN Sigonella	300 0x012C MPEG Audio	\$ 125.39 0.33	AFN Naples	6223 0x184F ECM/EMM - 14.88 0.04 AFN Power Net - Livorno 107FM
110	0x006E	MPEG2 Video	\$ 2267.42	5.96	AFN Aviano	200 0x00C8 MPEG Audio	\$ 125.39 0.33	AFN Vicenza / Livorno	6222 0x184E ECM/EMM - 14.88 0.04 AFN The Eagle - Livorno 108FM
710	0x02C6	MPEG2 Video	\$ 2242.15	5.90	AFN Rota	100 0x0064 MPEG Audio	\$ 125.39 0.33	AFN Aviano	6203 0x183B ECM/EMM - 14.88 0.04 AFN Power Net - Sigonella 107FM
310	0x0136	MPEG2 Video	\$ 1882.06	4.95	AFN Naples	800 0x0320 MPEG Audio	- 109.72 0.29	Pentagon Channel	6202 0x183A ECM/EMM - 14.88 0.04 AFN The Eagle - Sigonella 108 FM
1061	0x0425	Private Data	- 1679.74	4.42	News	506 0x01FA MPEG Audio	\$ 109.72 0.29	News	6183 0x1827 ECM/EMM - 14.88 0.04 AFN Power Net - Naples 107FM
902	0x0386	MPEG Audio	\$ 266.48	0.70	Family Channel	5026 0x13A2 PMT	- 15.07 0.04	AFN Freedom	6182 0x1826 ECM/EMM - 14.88 0.04 AFN The Eagle - Naples 108FM
904	0x0388	PCR	\$ 172.42	0.45	N/A	5262 0x148E PMT	- 15.05 0.04	AFN Freedom Radio	6164 0x1814 ECM/EMM - 14.88 0.04 AFN The Eagle Sicily 107 FM
706	0x02C2	MPEG Audio	\$ 172.42	0.45	AFN Rota	5223 0x1467 PMT	- 15.05 0.04	AFN Power Net - Naples 107FM	6163 0x1813 ECM/EMM - 14.88 0.04 AFN Rota Power Net
1304	0x0518	MPEG Audio	\$ 141.09	0.37	AFN Freedom	5222 0x1466 PMT	- 15.05 0.04	AFN The Eagle - Livorno 109FM	6162 0x1812 ECM/EMM - 14.88 0.04 AFN The Eagle Rota 102.5FM
202	0x00CA	MPEG Audio	\$ 141.09	0.37	AFN Vicenza / Livorno	5203 0x1453 PMT	- 15.05 0.04	AFN Power Net - Sigonella 107FM	6143 0x17FF ECM/EMM - 14.88 0.04 AFN Power Net - Sigonella 107FM
106	0x006A	MPEG Audio	\$ 141.09	0.37	AFN Aviano	5202 0x1452 PMT	- 15.05 0.04	AFN The Eagle - Sigonella 108 FM	6142 0x17FE ECM/EMM - 14.88 0.04 AFN The Eagle - Livorno 108FM
1306	0x051A	MPEG Audio	\$ 141.07	0.37	AFN Freedom	5183 0x143F PMT	- 15.05 0.04	AFN Power Net - Naples 107FM	6123 0x17EB ECM/EMM - 14.88 0.04 AFN Aviano 107FM
1302	0x0516	MPEG Audio	\$ 141.07	0.37	AFN Freedom	5182 0x143E PMT	- 15.05 0.04	AFN The Eagle - Naples 108FM	6122 0x17EA ECM/EMM - 14.88 0.04 AFN Aviano 106FM
1006	0x03EE	MPEG Audio	- 141.07	0.37	AFNS Audio Test Signal	5164 0x142C PMT	- 15.05 0.04	AFN The Eagle Sicily 107 FM	6042 0x179A ECM/EMM - 14.88 0.04 AFN Power Net - Vicenza 108 FM
804	0x0324	MPEG Audio	- 141.07	0.37	Pentagon Channel	5163 0x142B PMT	- 15.05 0.04	AFN Rota Power Net	6041 0x1799 ECM/EMM - 14.88 0.04 AFN The Eagle - Vicenza 108 FM
802	0x0322	MPEG Audio	- 141.07	0.37	Pentagon Channel	5162 0x142A PMT	- 15.05 0.04	AFN The Eagle Rota 102.5FM	6026 0x178A ECM/EMM - 14.88 0.04 AFN Freedom
704	0x02C0	MPEG Audio	\$ 141.07	0.37	AFN Rota	5143 0x1417 PMT	- 15.05 0.04	AFN Power Net - Sigonella 107FM	6020 0x1784 ECM/EMM - 14.88 0.04 AFN Sigonella
702	0x02BE	MPEG Audio	\$ 141.07	0.37	AFN Rota	5142 0x1416 PMT	- 15.05 0.04	AFN The Eagle - Livorno 109FM	6018 0x1782 ECM/EMM - 14.88 0.04 AFN Naples
602	0x025A	MPEG Audio	\$ 141.07	0.37	AFN Xtra	5123 0x1403 PMT	- 15.05 0.04	AFN Aviano 107FM	6014 0x177E ECM/EMM - 14.88 0.04 AFN Sigonella / Livorno
504	0x01F8	MPEG Audio	\$ 141.07	0.37	News	5122 0x1402 PMT	- 15.05 0.04	AFN Aviano 106FM	6012 0x177C ECM/EMM - 14.88 0.04 AFN Aviano
502	0x01F6	MPEG Audio	\$ 141.07	0.37	News	5062 0x13C6 PMT	- 15.05 0.04	AFNS Audio Test Signal	6010 0x177A ECM/EMM - 14.88 0.04 Movie Channel
404	0x0194	MPEG Audio	\$ 141.07	0.37	AFN Sigonella	5043 0x13B3 PMT	- 15.05 0.04	AFN PowerTalk	6009 0x1779 ECM/EMM - 14.88 0.04 Family Channel
402	0x0192	MPEG Audio	\$ 141.07	0.37	AFN Sigonella	5042 0x13B2 PMT	- 15.05 0.04	AFN Power Net - Vicenza 108 FM	6006 0x1776 ECM/EMM - 14.88 0.04 AFN Xtra
304	0x0130	MPEG Audio	\$ 141.07	0.37	AFN Naples	5041 0x13B1 PMT	- 15.05 0.04	AFN The Eagle - Vicenza 108 FM	6005 0x1775 ECM/EMM - 14.88 0.04 News
302	0x012E	MPEG Audio	\$ 141.07	0.37	AFN Naples	5020 0x139C PMT	- 15.05 0.04	AFN Sigonella	6016 0x1780 ECM/EMM - 14.86 0.04 AFN Rota
204	0x00CC	MPEG Audio	\$ 141.07	0.37	AFN Vicenza / Livorno	5018 0x139A PMT	- 15.05 0.04	AFN Naples	18 0x0012 EIT - 10.03 0.03 N/A
104	0x0068	MPEG Audio	\$ 141.07	0.37	AFN Aviano	5016 0x1398 PMT	- 15.05 0.04	AFN Rota	17 0x0011 SDT - 5.02 0.01 N/A
102	0x0066	MPEG Audio	\$ 141.07	0.37	AFN Aviano	5014 0x1396 PMT	- 15.05 0.04	AFN Vicenza / Livorno	16 0x0010 NIT - 3.01 0.01 N/A
						5012 0x1394 PMT	- 15.05 0.04	AFN Aviano	20 0x0014 TOT - 0.15 0.00 N/A

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References



www.dishpointer.com
info@dishpointer.com

19°E

ASTRA



19°E

Network Name
Transmitter

ASTRA1
ASTRA 11.023H

Recording
Remark

Thomas Haring
3D side-by-side

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	2062	0x080E	MPEG Audio	-	138.13	0.41	Radio Beograd	34	0x0022	PMT	-	18.85	0.06	3D Tile Format	
8191	0x1FFF	Null Packets	-	13188.42	38.98	N/A	2052	0x080A	MPEG Audio	-	137.98	0.41	RTS SAT	32	0x0020	PMT	-	18.85	0.06	ASTRA 3D demo
3	0x0021	H.264 Video	-	8188.04	24.20	ASTRA 3D demo	641	0x0281	MPEG Audio	-	131.63	0.39	AB Channel	5220	0x1464	PMT	-	18.77	0.06	AB Channel
2091	0x082B	MPEG2 Video	-	6173.50	18.25	ASTRA Caption	1701	0x06A5	PCR	-	42.72	0.13	N/A	1	0x0001	CAT	-	3.77	0.01	N/A
2051	0x0803	MPEG2 Video	-	3547.00	10.48	RTS SAT	1301	0x0515	PCR	-	42.72	0.13	N/A	0	0x0000	PAT	-	3.77	0.01	N/A
640	0x0280	MPEG2 Video	-	1430.39	4.23	AB Channel	2060	0x080C	PMT	-	18.85	0.06	Radio Beograd	16	0x0010	NIT	-	2.00	0.01	N/A
36	0x0024	Private Data	-	459.99	1.36	ASTRA 3D demo	2050	0x0802	PMT	-	18.85	0.06	RTS SAT	17	0x0011	SDT	-	1.77	0.01	N/A
642	0x0282	Teletext	-	225.71	0.67	AB Channel	1112	0x0458	PMT	-	18.85	0.06	ASTRA Caption	20	0x0014	TOT	-	0.15	0.00	N/A

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23.5°E

ASTRA



23.5°E

Network Name

Skylink

Recording

Thomas Haring

Transmitter

ASTRA 11.798H

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name	Transmitter	Skylink	Recording	Thomas Haring
2720	0x0AA0	MPEG2 Video	\$	4166.89	10.96	TV JOJ	3206 0x0C86 Teletext	-	37.62 0.10 NGC	2803 0x0AF3 PMT - 8.60 0.02 History channel
2721	0x0AA1	MPEG2 Video	\$	3218.99	8.47	JOJ PLUS	3281 0x0CD1 Private PES	-	37.60 0.10 JOJ PLUS	2801 0x0AF1 PMT - 8.60 0.02 JOJ PLUS
2728	0x0AA8	MPEG2 Video	\$	3078.58	8.10	NG Wild	3131 0x0C3B Private PES	-	37.60 0.10 Sport 2	2008 0x07D8 PMT - 8.60 0.02 HBO Comedy
2727	0x0AA7	MPEG2 Video	\$	2480.98	6.52	Discovery	2603 0x0A2B DVB Subtitles	-	36.01 0.09 History channel	2007 0x07D7 PMT - 8.60 0.02 TV Paprika
2723	0x0AA3	MPEG2 Video	\$	2328.28	6.12	History channel	16 0x0D10 NIT	-	34.40 0.09 N/A	2006 0x07D6 PMT - 8.60 0.02 Sport 2
2729	0x0AA9	MPEG2 Video	-	2281.81	6.00	Fashion TV	3383 0x0D37 DVB Subtitles	-	28.23 0.07 History channel	1 0x0001 CAT - 8.60 0.02 N/A
2016	0x07E0	H.264 Video	\$	2200.72	5.79	Sport 2	17 0x0011 SDT	-	18.32 0.05 N/A	0 0x0000 PAT - 8.60 0.02 N/A
2722	0x0AA2	MPEG2 Video	-	2195.87	5.78	TA3	418 0x01A2 ECM/EMM	-	15.05 0.04 NG Wild	2815 0x0AFF PMT - 8.59 0.02 History channel DUT
2018	0x07E2	H.264 Video	\$	2097.76	5.52	HBO Comedy	408 0x0198 ECM/EMM	-	15.05 0.04 NG Wild	2813 0x0AFD PMT - 8.59 0.02 duck tv
2732	0x0AAC	MPEG2 Video	-	2058.70	5.41	tv8	348 0x015C ECM/EMM	-	15.05 0.04 NG Wild	2809 0x0AF9 PMT - 8.59 0.02 Fashion TV
2017	0x07E1	H.264 Video	\$	1778.14	4.68	TV Paprika	328 0x0148 ECM/EMM	-	15.05 0.04 NG Wild	2802 0x0AF2 PMT - 8.59 0.02 TA3
2726	0x0AA6	MPEG2 Video	\$	1707.02	4.49	NGC	308 0x0134 ECM/EMM	-	15.05 0.04 NG Wild	2800 0x0AF0 PMT - 8.59 0.02 TV JOJ
8191	0x1FFF	Null Packets	-	1648.86	4.34	N/A	198 0x00C6 ECM/EMM	-	15.05 0.04 NG Wild	2010 0x07DA PMT - 8.59 0.02 NG Wild BG
2733	0x0AAD	MPEG2 Video	\$	866.99	2.28	duck tv	196 0x00C4 ECM/EMM	-	15.05 0.04 NGC	2009 0x07D9 PMT - 8.59 0.02 History channel BG
2892	0x0B4C	MPEG Audio	-	266.38	0.70	tv8	191 0x00BF ECM/EMM	-	15.05 0.04 JOJ PLUS	3368 0x0D28 ECM/EMM - 7.52 0.02 NG Wild
3280	0x0C00	Teletext	-	263.26	0.69	TV JOJ	190 0x00BE ECM/EMM	-	15.05 0.04 TV JOJ	3371 0x0D2B ECM/EMM - 7.35 0.02 duck tv
3200	0x0C80	Teletext	-	263.26	0.69	TV JOJ	178 0x00B2 ECM/EMM	-	15.05 0.04 NG Wild	3363 0x0D23 ECM/EMM - 7.35 0.02 History channel
18	0x0012	EIT	-	242.25	0.64	N/A	176 0x00B0 ECM/EMM	-	15.05 0.04 NGC	2848 0x0B20 ECM/EMM - 5.02 0.01 NG Wild
3053	0x0BED	MPEG Audio	\$	203.72	0.54	duck tv	171 0x00AB ECM/EMM	-	15.05 0.04 JOJ PLUS	2846 0x0B1E ECM/EMM - 5.02 0.01 NGC
2882	0x0B42	MPEG Audio	-	203.72	0.54	TA3	170 0x00AA ECM/EMM	-	15.05 0.04 TV JOJ	2841 0x0B19 ECM/EMM - 5.02 0.01 JOJ PLUS
2880	0x0B40	MPEG Audio	\$	203.72	0.54	TV JOJ	148 0x0094 ECM/EMM	-	15.05 0.04 NGC	2840 0x0B18 ECM/EMM - 5.02 0.01 TV JOJ
2038	0x07F6	MPEG Audio	\$	203.72	0.54	HBO Comedy	146 0x0092 ECM/EMM	-	15.05 0.04 NGC	268 0x010C ECM/EMM - 5.02 0.01 NG Wild
2028	0x07EC	MPEG Audio	\$	203.72	0.54	HBO Comedy	141 0x008D ECM/EMM	-	15.05 0.04 JOJ PLUS	266 0x010A ECM/EMM - 5.02 0.01 NGC
2026	0x07EA	MPEG Audio	\$	203.72	0.54	Sport 2	140 0x008C ECM/EMM	-	15.05 0.04 TV JOJ	261 0x0105 ECM/EMM - 5.02 0.01 JOJ PLUS
3046	0x0BE6	MPEG Audio	\$	203.70	0.54	NGC	183 0x00B7 ECM/EMM	-	14.89 0.04 duck tv	260 0x0104 ECM/EMM - 5.02 0.01 TV JOJ
2889	0x0B49	MPEG Audio	-	203.70	0.54	Fashion TV	177 0x00B1 ECM/EMM	-	14.89 0.04 Discovery	248 0x00F8 ECM/EMM - 5.02 0.01 NG Wild
2881	0x0B41	MPEG Audio	\$	203.70	0.54	JOJ PLUS	147 0x0093 ECM/EMM	-	14.89 0.04 Discovery	246 0x00F6 ECM/EMM - 5.02 0.01 NGC
101	0x0065	ECM/EMM	-	197.55	0.52	N/A	2333 0x091D ECM/EMM	-	14.88 0.04 History channel	241 0x00F1 ECM/EMM - 5.02 0.01 JOJ PLUS
2047	0x07FF	MPEG Audio	\$	141.02	0.37	TV Paprika	2323 0x0913 ECM/EMM	-	14.88 0.04 History channel	240 0x00F0 ECM/EMM - 5.02 0.01 TV JOJ
2027	0x07EB	MPEG Audio	\$	141.02	0.37	TV Paprika	361 0x0169 ECM/EMM	-	14.88 0.04 duck tv	2268 0x08DC ECM/EMM - 4.96 0.01 HBO Comedy
102	0x0066	ECM/EMM	-	140.01	0.37	N/A	331 0x014B ECM/EMM	-	14.88 0.04 duck tv	2267 0x08DB ECM/EMM - 4.96 0.01 TV Paprika
2967	0x0B97	MPEG Audio	\$	133.20	0.35	Discovery	323 0x0143 ECM/EMM	-	14.88 0.04 History channel	2266 0x08DA ECM/EMM - 4.96 0.01 Sport 2
2887	0x0B47	MPEG Audio	\$	133.20	0.35	Discovery	311 0x0137 ECM/EMM	-	14.88 0.04 duck tv	2258 0x08D2 ECM/EMM - 4.96 0.01 HBO Comedy
2538	0x09EA	MPEG Audio	\$	133.20	0.35	NG Wild	173 0x00AD ECM/EMM	-	14.88 0.04 History channel	2257 0x08D1 ECM/EMM - 4.96 0.01 TV Paprika
2528	0x09E0	MPEG Audio	\$	133.20	0.35	NG Wild	153 0x0099 ECM/EMM	-	14.88 0.04 duck tv	2256 0x08D0 ECM/EMM - 4.96 0.01 Sport 2
2966	0x0B96	MPEG Audio	\$	133.19	0.35	NGC	143 0x008F ECM/EMM	-	14.88 0.04 History channel	273 0x0111 ECM/EMM - 4.96 0.01 duck tv
2963	0x0B93	MPEG Audio	\$	133.19	0.35	History channel	2598 0x0A26 DVB Subtitles	-	11.34 0.03 NG Wild	267 0x010B ECM/EMM - 4.96 0.01 Discovery
2886	0x0B46	MPEG Audio	\$	133.19	0.35	NGC	2814 0x0AFE ?	-	8.60 0.02 N/A	263 0x0107 ECM/EMM - 4.96 0.01 History channel
2883	0x0B43	MPEG Audio	\$	133.19	0.35	History channel	2812 0x0AFC PMT	-	8.60 0.02 tv8	253 0x00FD ECM/EMM - 4.96 0.01 duck tv
103	0x0067	ECM/EMM	-	120.95	0.32	N/A	2811 0x0AFB PMT	-	8.60 0.02 duck tv DUT	247 0x00F7 ECM/EMM - 4.96 0.01 Discovery
2558	0x09FE	MPEG Audio	\$	87.74	0.23	NG Wild	2808 0x0AF8 PMT	-	8.60 0.02 NG Wild	243 0x00F3 ECM/EMM - 4.96 0.01 History channel
3208	0x0C88	Teletext	-	75.22	0.20	NG Wild	2807 0x0AF7 PMT	-	8.60 0.02 Discovery	3286 0x0CD6 DVB Subtitles - 3.02 0.01 NGC
104	0x0068	ECM/EMM	-	72.50	0.19	N/A	2806 0x0AF6 PMT	-	8.60 0.02 NGC	105 0x0069 ? - 2.04 0.01 N/A
							2804 0x0AF4 PMT	-	8.60 0.02 NG Wild DUT	

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108°E

TELKOM 1



108°E

Network Name

Network1

Recording

Vincent Witjhun

Transmitter

TELKOM 1 3.620H

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name	Transmitter	Network1	Recording	Vincent Witjhun
111	0x006F	MPEG2 Video	\$	3628.16	9.78	GlobalTV	124 0x007C MPEG Audio	\$	135.93 0.37 FOXCrime	37 0x0025 PMT - 30.10 0.08 _Service 9990
120	0x0078	MPEG2 Video	\$	2637.51	7.11	Goal TV 2	121 0x0079 MPEG Audio	\$	135.93 0.37 Goal TV 2	35 0x0023 PMT - 30.10 0.08 Trial Radio
126	0x007E	MPEG2 Video	\$	2616.85	7.05	Disney Junior	115 0x0073 MPEG Audio	\$	135.93 0.37 SCTV	33 0x0021 PMT - 30.10 0.08 Trial Radio JAK FM
135	0x0087	MPEG2 Video	\$	2400.74	6.47	NG Adventure	112 0x0070 MPEG Audio	\$	135.93 0.37 GlobalTV	1 0x0001 CAT - 30.10 0.08 N/A
117	0x0075	MPEG2 Video	\$	2368.70	6.39	AXN Beyond	106 0x006A MPEG Audio	\$	135.93 0.37 Indosiar	0 0x0000 PAT - 30.10 0.08 N/A
129	0x0081	MPEG2 Video	\$	2305.45	6.22	FOX Channel	103 0x0067 MPEG Audio	\$	135.93 0.37 Metro TV	17 0x0011 SDT - 17.34 0.05 N/A
138	0x008A	MPEG2 Video	\$	2286.72	6.16	Alif TV	100 0x0064 MPEG Audio	\$	135.93 0.37 RCTI	2307 0x0903 ECM/EMM - 4.99 0.01 Trial Radio JAK FM
102	0x0066	MPEG2 Video	\$	2103.35	5.67	Metro TV	97 0x0061 MPEG Audio	\$	135.93 0.37 RCTI	1046 0x0416 ECM/EMM - 4.99 0.01 B Channel
96	0x0060	MPEG2 Video	\$	1935.93	5.22	RCTI	127 0x007F MPEG Audio	\$	135.79 0.37 Disney Junior	1045 0x0415 ECM/EMM - 4.99 0.01 Alif TV
141	0x008D	MPEG2 Video	\$	1858.81	5.01	B Channel	118 0x0076 MPEG Audio	\$	135.79 0.37 AXN Beyond	1044 0x0414 ECM/EMM - 4.99 0.01 NG Adventure
123	0x007B	MPEG2 Video	\$	1745.07	4.70	FOXCrime	1024 0x0400 Private Data	-	97.23 0.26 _Service 9990	1043 0x0413 ECM/EMM - 4.99 0.01 MGM
105	0x0069	MPEG2 Video	\$	1671.97	4.51	Indosiar	143 0x008F PMT	-	30.10 0.08 B Channel	1042 0x0412 ECM/EMM - 4.99 0.01 FOX Channel
132	0x0084	MPEG2 Video	\$	1656.86	4.47	MGM	140 0x008C PMT	-	30.10 0.08 Alif TV	1041 0x0411 ECM/EMM - 4.99 0.01 Disney Junior
108	0x006C	MPEG2 Video	\$	1488.05	4.01	ANTV	137 0x0089 PMT	-	30.10 0.08 NG Adventure	1040 0x0410 ECM/EMM - 4.99 0.01 FOXCrime
99	0x0063	MPEG2 Video	\$	1398.03	3.77	Bali TV	134 0x0086 PMT	-	30.10 0.08 MGM	1033 0x0409 ECM/EMM - 4.99 0.01 Goal TV 2
114	0x0072	MPEG2 Video	\$	1336.16	3.60	SCTV	131 0x0083 PMT	-	30.10 0.08 FOX Channel	1032 0x0408 ECM/EMM - 4.99 0.01 AXN Beyond
34	0x0022	MPEG Audio	-	181.15	0.49	Trial Radio	128 0x0080 PMT	-	30.10 0.08 Disney Junior	1031 0x0407 ECM/EMM - 4.99 0.01 SCTV
32	0x0020	MPEG Audio	\$	181.15	0.49	Trial Radio JAK FM	125 0x007D PMT	-	30.10 0.08 FOXCrime	1030 0x0406 ECM/EMM - 4.99 0.01 GlobalTV
769	0x0301	ECM/EMM	-	141.90	0.38	N/A	122 0x007A PMT	-	30.10 0.08 Goal TV 2	1029 0x0405 ECM/EMM - 4.99 0.01 ANTV
18	0x0012	EIT	-	141.76	0.38	N/A	119 0x0077 PMT	-	30.10 0.08 AXN Beyond	1028 0x0404 ECM/EMM - 4.99 0.01 Indosiar
109	0x006D	MPEG Audio	\$	136.21	0.37	ANTV	116 0x0074 PMT	-	30.10 0.08 SCTV	1027 0x0403 ECM/EMM - 4.99 0.01 Metro TV
142	0x008E	MPEG Audio	\$	135.93	0.37	B Channel	113 0x0071 PMT	-	30.10 0.08 GlobalTV	1026 0x0402 ECM/EMM - 4.99 0.01 Bali TV
139	0x008B	MPEG Audio	\$	135.93	0.37	Alif TV	110 0x006E PMT	-	30.10 0.08 ANTV	1025 0x0401 ECM/EMM - 4.99 0.01 RCTI
136	0x0088	MPEG Audio	\$	135.93	0.37	NG Adventure	107 0x006B PMT	-	30.10 0.08 Indosiar	16 0x0010 NIT - 3.88 0.01 N/A
133	0x0085	MPEG Audio	\$	135.93	0.37	MGM	104 0x0068 PMT	-	30.10 0.08 Metro TV	20 0x0014 TOT - 0.14 0.00 N/A
130	0x0082	MPEG Audio	\$	135.93	0.37	FOX Channel	101 0x0065 PMT	-	30.10 0.08 Bali TV	
							98 0x0062 PMT	-	30.10 0.08 RCTI	

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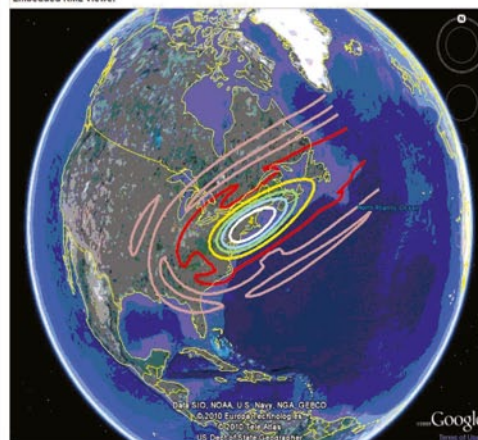
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113°E

PALAPA D

DVB-S

113°E

Network Name

Indosat 01

Recording

Vincent Witjhun

LV3S						113°E		Transmitter		PALAPA D 4.080H		Remark		MPEG-2 and H.264						
PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	1803	0x070B	MPEG Audio	-	262.54	0.79	Ch 18	107	0x006B	PMT	-	13.25	0.04	CH7	
513	0x0201	MPEG2 Video	-	6136.76	18.47	MetroTV	666	0x029A	MPEG Audio	-	262.54	0.79	POP FM	106	0x006A	PMT	-	13.25	0.04	CH6
516	0x0204	MPEG2 Video	-	2688.50	8.09	NHK	665	0x0299	MPEG Audio	-	262.54	0.79	BBC	104	0x0068	PMT	-	13.25	0.04	Spacetoan
519	0x0207	H.264 Video	-	2557.16	7.69	CH10	658	0x0292	MPEG Audio	-	262.54	0.79	CH11	103	0x0067	PMT	-	13.25	0.04	CH3
512	0x0200	MPEG2 Video	-	2412.66	7.26	CH3	655	0x028F	MPEG Audio	-	262.54	0.79	CH6	102	0x0066	PMT	-	13.25	0.04	MetroTV
515	0x0203	MPEG2 Video	-	2305.19	6.94	Spacetoan	1804	0x070C	MPEG Audio	-	131.67	0.40	Rodja	2900	0x0B54	PMT	-	13.20	0.04	Radio 19
514	0x0202	MPEG2 Video	-	2098.78	6.32	Lejel	2001	0x07D1	MPEG Audio	-	66.18	0.20	Reda Crossa	2800	0x0AF0	PMT	-	13.20	0.04	Rodja
2102	0x0836	MPEG2 Video	-	2083.89	6.27	CH 20	1904	0x0770	MPEG Audio	-	66.18	0.20	Radio 19	2100	0x0834	PMT	-	13.20	0.04	CH 20
1902	0x076E	MPEG2 Video	-	2057.68	6.19	Ch 19	8190	0x1FFE	PCR	-	44.28	0.13	N/A	2000	0x07D0	PMT	-	13.20	0.04	Reda Crossa
1802	0x070A	MPEG2 Video	-	2053.75	6.18	Ch 18	202	0x00CA	PCR	-	39.65	0.12	N/A	1900	0x076C	PMT	-	13.20	0.04	Ch 19
518	0x0206	MPEG2 Video	-	1760.92	5.30	CH7	2101	0x0835	PCR	-	39.60	0.12	N/A	1800	0x0708	PMT	-	13.20	0.04	Ch 18
517	0x0205	MPEG2 Video	-	1557.64	4.69	CH6	1901	0x076D	PCR	-	39.60	0.12	N/A	117	0x0075	PMT	-	13.20	0.04	POP FM
520	0x0208	H.264 Video	-	511.41	1.54	CH11	211	0x00D3	PCR	-	39.60	0.12	N/A	116	0x0074	PMT	-	13.20	0.04	BBC
664	0x0298	MPEG Audio	-	262.63	0.79	MTA FM	210	0x00D2	PCR	-	39.60	0.12	N/A	115	0x0073	PMT	-	13.20	0.04	68H
1903	0x076F	MPEG Audio	-	262.59	0.79	Ch 19	207	0x00CF	PCR	-	39.60	0.12	N/A	114	0x0072	PMT	-	13.20	0.04	MTA FM
657	0x0291	MPEG Audio	-	262.59	0.79	CH10	206	0x00CE	PCR	-	39.60	0.12	N/A	111	0x006F	PMT	-	13.20	0.04	CH11
656	0x0290	MPEG Audio	-	262.59	0.79	CH7	205	0x00CD	PCR	-	39.60	0.12	N/A	110	0x006E	PMT	-	13.20	0.04	CH10
654	0x028E	MPEG Audio	-	262.59	0.79	NHK	204	0x00CC	PCR	-	39.60	0.12	N/A	105	0x0069	PMT	-	13.20	0.04	NHK
653	0x028D	MPEG Audio	-	262.59	0.79	Spacetoan	203	0x00CB	PCR	-	39.60	0.12	N/A	101	0x0065	PMT	-	13.20	0.04	Lejel
652	0x028C	MPEG Audio	-	262.59	0.79	Lejel	201	0x00C9	PCR	-	39.60	0.12	N/A	17	0x0011	SDT	-	4.54	0.01	N/A
651	0x028B	MPEG Audio	-	262.59	0.79	MetroTV	1801	0x0709	PCR	-	39.55	0.12	N/A	16	0x0010	NIT	-	0.19	0.00	N/A
650	0x028A	MPEG Audio	-	262.59	0.79	CH3	1	0x0001	CAT	-	15.03	0.05	N/A	20	0x0014	TOT	-	0.05	0.00	N/A
2103	0x0837	MPEG Audio	-	262.54	0.79	CH 20	0	0x0000	PAT	-	15.03	0.05	N/A							

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DVB-S

113°E

Network Name

NoName

Recording

Vincent Witjhun

LV3S		113°E		Network Name		Name		Recording		Vincent Wignam					
						Transmitter		PALAPA D 4.185V							
PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	0	0x0000 PAT	-	17.27 0.21	N/A	17	0x0011 SDT	-	1.49 0.02	N/A
1110	0x0456	MPEG2 Video	-	7750.06 92.87	MNCTV Selatu di Hati	1002	0x03EA PMT	-	17.08 0.20	R.DANGDUT TPI	20	0x0014 TOT	-	0.19 0.00	N/A
1211	0x04BB	MPEG Audio	-	268.68 3.22	MNCTV Selatu di Hati	1001	0x03E9 PMT	-	16.90 0.20	MNCTV Selatu di Hati	16	0x0010 NIT	-	0.19 0.00	N/A
1213	0x04BD	MPEG Audio	-	268.31 3.22	R.DANGDUT TPI	18	0x0012 EIT	-	5.01 0.06	N/A					

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247°E (113°W)

SATMEX 6



247°E

Network Name

ADTH

Recording

Juan Carlos Duarte

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name
8191	0x1FFF	Null Packets	-	6192.45	17.45	N/A
322	0x0142	MPEG2 Video	-	3408.32	9.60	BVN-TV
274	0x0112	MPEG2 Video	-	2703.91	7.62	DA-AI
306	0x0132	MPEG2 Video	-	2225.93	6.27	MACTV
273	0x0111	MPEG2 Video	-	1899.26	5.35	HWAZAN
1001	0x03E9	H.264 Video	-	1047.01	2.95	GDTV
258	0x0102	H.264 Video	\$	861.17	2.43	ETNEWS
37	0x0025	H.264 Video	\$	765.41	2.16	CCTV-MOV
4216	0x1078	H.264 Video	-	744.43	2.10	CCTV4
3105	0x0C21	H.264 Video	\$	742.95	2.09	GDTV
112	0x0070	H.264 Video	\$	701.70	1.98	ZHEJIANG
83	0x0053	H.264 Video	\$	698.15	1.97	BT
51	0x0033	H.264 Video	\$	684.54	1.93	TVS
74	0x004A	H.264 Video	\$	683.84	1.93	CCTV-ENT
57	0x0039	H.264 Video	\$	681.95	1.92	JIANGSU
66	0x0042	H.264 Video	\$	679.87	1.92	HUNAN
86	0x0056	H.264 Video	\$	675.53	1.90	DRGT
109	0x006D	H.264 Video	\$	663.25	1.87	XIAMEN
290	0x0122	H.264 Video	\$	659.12	1.86	ETGLB
76	0x004C	H.264 Video	\$	640.39	1.80	PSTV
62	0x003E	H.264 Video	\$	632.57	1.78	ATV
4194	0x1062	H.264 Video	\$	628.59	1.77	PTVN
60	0x003C	H.264 Video	\$	627.60	1.77	CYRTV
69	0x0045	H.264 Video	\$	562.68	1.59	CCTV-OPR
44	0x002C	H.264 Video	\$	560.60	1.58	FUJIAN
71	0x0047	H.264 Video	\$	540.73	1.52	CCTV-E
338	0x0152	MPEG Audio	-	165.37	0.47	RNW-2
339	0x0153	MPEG Audio	-	165.34	0.47	RNW-3
337	0x0151	MPEG Audio	-	165.34	0.47	RNW-1
323	0x0143	MPEG Audio	-	136.91	0.39	BVN-TV
307	0x0133	MPEG Audio	-	132.25	0.37	MACTV
4195	0x1063	MPEG Audio	-	125.74	0.35	CCTV4
259	0x0103	MPEG Audio	\$	125.56	0.35	ETNEWS
79	0x004F	MPEG Audio	\$	125.50	0.35	CCTV-ENT
291	0x0123	MPEG Audio	\$	124.48	0.35	ETGLB
275	0x0113	MPEG Audio	-	104.60	0.29	DA-AI
3766	0x0EB6	?	-	101.14	0.29	N/A
33	0x0021	MPEG Audio	-	99.24	0.28	HWAZAN
342	0x0156	MPEG Audio	-	99.21	0.28	RNW-6
341	0x0155	MPEG Audio	-	99.18	0.28	RNW-5
152	0x0098	ECM/EMM	-	92.53	0.26	N/A
1002	0x03EA	AAC Audio	-	89.76	0.25	GDTV
2018	0x07E2	?	-	75.31	0.21	N/A
2013	0x07DD	?	-	75.31	0.21	N/A
2011	0x07DB	?	-	75.31	0.21	N/A
2007	0x07D7	?	-	75.31	0.21	N/A

Transmitter	SATMEX 6 12.080H
2005	0x07D5 ? - 75.31 0.21 N/A
2010	0x07DA ? - 75.28 0.21 N/A
340	0x0154 MPEG Audio - 66.12 0.19 RVI-1
68	0x0044 MPEG Audio \$ 62.87 0.18 CCTV-OPR
38	0x0026 MPEG Audio \$ 62.87 0.18 CCTV-MOV
4100	0x1004 MPEG Audio \$ 62.75 0.18 PTVN
113	0x0071 MPEG Audio \$ 62.75 0.18 ZHEJIANG
87	0x0057 MPEG Audio \$ 62.75 0.18 DRGT
84	0x0054 MPEG Audio \$ 62.75 0.18 BT
72	0x0048 MPEG Audio \$ 62.75 0.18 CCTV-E
67	0x0043 MPEG Audio \$ 62.75 0.18 HUNAN
61	0x003D MPEG Audio \$ 62.75 0.18 CYRTV
53	0x0035 MPEG Audio \$ 62.75 0.18 TVS
110	0x006E MPEG Audio \$ 62.72 0.18 XIAMEN
77	0x004D MPEG Audio \$ 62.72 0.18 PSTV
63	0x003F MPEG Audio \$ 62.72 0.18 ATV
58	0x003A MPEG Audio \$ 62.69 0.18 JIANGSU
47	0x002F MPEG Audio \$ 62.51 0.18 FUJIAN
3106	0x0C22 AAC Audio \$ 61.43 0.17 GDTV
17	0x0011 SDT - 25.14 0.07 N/A
16	0x0010 NIT - 25.11 0.07 N/A
1	0x0001 CAT - 25.11 0.07 N/A
0	0x0000 PAT - 25.11 0.07 N/A
114	0x0072 PMT - 24.30 0.07 ZHEJIANG
111	0x006F PMT - 24.30 0.07 XIAMEN
102	0x0066 PMT - 24.30 0.07 GDTV
101	0x0065 PMT - 24.30 0.07 RNW-6
100	0x0064 PMT - 24.30 0.07 RNW-5
99	0x0063 PMT - 24.30 0.07 RVI-1
98	0x0062 PMT - 24.30 0.07 RNW-3
97	0x0061 PMT - 24.30 0.07 BVN-TV
96	0x0060 PMT - 24.30 0.07 RNW-1
88	0x0058 PMT - 24.30 0.07 DRGT
85	0x0055 PMT - 24.30 0.07 BT
82	0x0052 PMT - 24.30 0.07 CCTV-ENT
81	0x0051 PMT - 24.30 0.07 PTVN
78	0x004E PMT - 24.30 0.07 PSTV
75	0x004B PMT - 24.30 0.07 HWAZAN
73	0x0049 PMT - 24.30 0.07 CCTV-E
70	0x0046 PMT - 24.30 0.07 HUNAN
65	0x0041 PMT - 24.30 0.07 CYRTV
64	0x0040 PMT - 24.30 0.07 ATV
59	0x003B PMT - 24.30 0.07 JIANGSU
56	0x0038 PMT - 24.30 0.07 TVS
54	0x0036 PMT - 24.30 0.07 BVN-TV
52	0x0034 PMT - 24.30 0.07 CCTV4
50	0x0032 PMT - 24.30 0.07 FUJIAN

49	0x0031	PMT	-	24.30	0.07	GDTV
46	0x002E	PMT	-	24.30	0.07	ETNEWS
40	0x0028	PMT	-	24.30	0.07	CCTV-MOV
39	0x0027	PMT	-	24.30	0.07	DA-AI
36	0x0024	PMT	-	24.30	0.07	CCTV-OPR
35	0x0023	PMT	-	24.30	0.07	MACTV
34	0x0022	PMT	-	24.30	0.07	ETGLB
6144	0x1800	ECM/EMM	-	10.12	0.03	ETNEWS
5640	0x1608	ECM/EMM	-	7.65	0.02	ETGLB
5637	0x1605	ECM/EMM	-	7.65	0.02	CCTV-OPR
5636	0x1604	ECM/EMM	-	7.65	0.02	CCTV-MOV
5635	0x1603	ECM/EMM	-	7.65	0.02	CCTV-ENT
5633	0x1601	ECM/EMM	-	7.65	0.02	BT
5680	0x1630	ECM/EMM	-	7.62	0.02	XIAMEN
5673	0x1629	ECM/EMM	-	7.62	0.02	ZHEJIANG
5670	0x1626	ECM/EMM	-	7.62	0.02	TVS
5664	0x1620	ECM/EMM	-	7.62	0.02	PTVN
5657	0x1619	ECM/EMM	-	7.62	0.02	PSTV
5655	0x1617	ECM/EMM	-	7.62	0.02	JIANGSU
5654	0x1616	ECM/EMM	-	7.62	0.02	DRGT
5652	0x1614	ECM/EMM	-	7.62	0.02	HUNAN
5651	0x1613	ECM/EMM	-	7.62	0.02	GDTV
5650	0x1612	ECM/EMM	-	7.62	0.02	FUJIAN
5641	0x1609	ECM/EMM	-	7.62	0.02	ETNEWS
5638	0x1606	ECM/EMM	-	7.62	0.02	CYRTV
5634	0x1602	ECM/EMM	-	7.62	0.02	CCTV-E
5632	0x1600	ECM/EMM	-	7.62	0.02	ATV
6153	0x1809	ECM/EMM	-	5.12	0.01	CCTV-MOV
6152	0x1808	ECM/EMM	-	5.12	0.01	CCTV-ENT
6149	0x1805	ECM/EMM	-	5.12	0.01	BT
6145	0x1801	ECM/EMM	-	5.12	0.01	ETGLB
6192	0x1830	ECM/EMM	-	5.09	0.01	ZHEJIANG
6185	0x1829	ECM/EMM	-	5.09	0.01	XIAMEN
6184	0x1828	ECM/EMM	-	5.09	0.01	TVS
6176	0x1820	ECM/EMM	-	5.09	0.01	PTVN
6169	0x1819	ECM/EMM	-	5.09	0.01	PSTV
6167	0x1817	ECM/EMM	-	5.09	0.01	JIANGSU
6165	0x1815	ECM/EMM	-	5.09	0.01	HUNAN
6164	0x1814	ECM/EMM	-	5.09	0.01	GDTV
6163	0x1813	ECM/EMM	-	5.09	0.01	FUJIAN
6162	0x1812	ECM/EMM	-	5.09	0.01	DRGT
6161	0x1811	ECM/EMM	-	5.09	0.01	CYRTV
6160	0x1810	ECM/EMM	-	5.09	0.01	CCTV-OPR
6148	0x1804	ECM/EMM	-	5.09	0.01	ATV
6147	0x1803	ECM/EMM	-	5.09	0.01	CCTV-E
20	0x0014	TOT	-	1.51	0.00	N/A
153	0x0099	ECM/EMM	-	1.35	0.00	N/A

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297°E (63°W)

ESTRELLA DEL SUR



297°E

Network Name

ENTEL

Recording

Juan Carlos Duarte

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name
272	0x0110	MPEG2 Video	-	4519.88	23.84	Via X
256	0x0100	MPEG2 Video	-	4217.90	22.24	Zona Latina
3	0x0003	MPEG2 Video	-	3992.16	21.05	UCV
304	0x0130	MPEG2 Video	-	3238.42	17.08	Vive Deportes
8191	0x1FFF	Null Packets	-	2149.11	11.33	N/A

Transm.	ESTRELLA DEL SUR 11.600V
2	0x0002 MPEG Audio - 198.24 1.05 UCV
273	0x0111 MPEG Audio - 135.75 0.72 Via X
257	0x0101 MPEG Audio - 135.68 0.72 Zona Latina
305	0x0131 MPEG Audio - 135.46 0.71 Vive Deportes
4	0x0004 PMT - 30.17 0.16 UCV
264	0x0108 PMT - 30.09 0.16 Zona Latina

17	0x0011	SDT	-	30.09	0.16	N/A
16	0x0010	NIT	-	30.09	0.16	N/A
280	0x0118	PMT	-	30.02	0.16	Via X
0	0x0000	PAT	-	30.02	0.16	N/A
1	0x0001	CAT	-	29.94	0.16	N/A
312	0x0138	PMT	-	29.87	0.16	Vive Deportes

Transponderstream Technical Service File Download for Clients Only

Duration: 3 Min, File Size: 286 MB

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297°E

Network Name

ENTEL

Recording

Juan Carlos Duarte

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name
305	0x0131	MPEG2 Video	\$	5303.59	18.16	03 CANAL 13
273	0x0111	MPEG2 Video	\$	5303.59	18.16	01 MEGA
289	0x0121	MPEG2 Video	-	3886.08	13.30	02 TELETRAK
337	0x0151	MPEG2 Video	-	3702.48	12.68	05 CHILEVISION
353	0x0161	MPEG2 Video	\$	3371.44	11.54	06 CAMARA DIPUTADOS
321	0x0141	MPEG2 Video	-	2268.00	7.76	04 SENADO TV
369	0x0171	MPEG2 Video	\$	1781.57	6.10	07 Business TV
8191	0x1FFF	Null Packets	-	1573.69	5.39	N/A
354	0x0162	MPEG Audio	\$	271.74	0.93	06 CAMARA DIPUTADOS
338	0x0152	MPEG Audio	-	271.74	0.93	05 CHILEVISION
306	0x0132	MPEG Audio	\$	271.74	0.93	03 CANAL 13

Transm.	ESTRELLA DEL SUR 11.640V
274	0x0112 MPEG Audio \$ 271.74 0.93 01 MEGA
385	0x0181 MPEG Audio - 198.60 0.68 TEST RADIO1
370	0x0172 MPEG Audio \$ 135.87 0.47 07 Business TV
322	0x0142 MPEG Audio - 135.87 0.47 04 SENADO TV
290	0x0122 MPEG Audio - 135.87 0.47 02 TELETRAK
1281	0x0501 ECM/EMM - 32.32 0.11 N/A
17	0x0011 SDT - 22.59 0.08 N/A
389	0x0185 PMT - 22.56 0.08 TEST RADIO1
373	0x0175 PMT - 22.56 0.08 07 Business TV
357	0x0165 PMT - 22.56 0.08 06 CAMARA DIPUTADOS
341	0x0155 PMT - 22.56 0.08 05 CHILEVISION
325	0x0145 PMT - 22.56 0.08 04 SENADO TV

309	0x0135	PMT	-	22.56	0.08	03 CANAL 13
293	0x0125	PMT	-	22.56	0.08	02 TELETRAK
277	0x0115	PMT	-	22.56	0.08	01 MEGA
2	0x0002	NIT	-	22.56	0.08	N/A
1	0x0001	CAT	-	22.56	0.08	N/A
0	0x0000	PAT	-	22.56	0.08	N/A
515	0x0203	ECM/EMM	-	5.66	0.02	03 CANAL 13
519	0x0207	ECM/EMM	-	5.63	0.02	07 Business TV
518	0x0206	ECM/EMM	-	5.63	0.02	06 CAMARA DIPUTADOS
513	0x0201	ECM/EMM	-	5.63	0.02	01 MEGA
20	0x0014	TOT	-	0.40	0.00	N/A

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DVB-T MonitoringSTB-Design
Internet
radioMDTV TV-Software
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CATV

330°E (30°W)

HISPASAT



330°E

Network Name

TVE, America

Recording

Juan Carlos Duarte

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	
8191	0x1FFF	Null Packets	-	9215.00	24.21	N/A
4368	0x1110	MPEG2 Video	\$ 5585.14	14.67	TVEA1	
4384	0x1120	MPEG2 Video	\$ 4055.85	10.66	24HTVE	
1160	0x0488	MPEG2 Video	\$ 3688.44	9.69	ANTENA3	
4416	0x1140	MPEG2 Video	\$ 3180.82	8.36	TVEA2	
4240	0x1090	MPEG2 Video	-	2703.57	7.10	TV3 Cat
4256	0x10A0	MPEG2 Video	-	2703.52	7.10	CANAL VASCO
4208	0x1070	MPEG2 Video	-	2703.52	7.10	TVGA
4209	0x1071	MPEG Audio	-	271.96	0.71	TVGA
36	0x0024	MPEG Audio	-	271.96	0.71	RCLA
46	0x002E	MPEG Audio	-	271.91	0.71	RNE3
45	0x002D	MPEG Audio	-	207.90	0.55	C.R.
44	0x002C	MPEG Audio	-	207.85	0.55	REUS
42	0x002A	MPEG Audio	-	207.85	0.55	C.C.

Transmitter	Network Name	TVE, America
43 0x002B MPEG Audio	-	207.80 0.55 EUSK
41 0x0029 MPEG Audio	-	207.80 0.55 RGA
4257 0x10A1 MPEG Audio	-	198.73 0.52 CANAL VASCO
4241 0x1091 MPEG Audio	-	198.68 0.52 TV3 Cat
1120 0x0460 MPEG Audio	-	141.18 0.37 ANTENA3
47 0x002F MPEG Audio	-	136.01 0.36 REE
4417 0x1141 MPEG Audio	\$	135.95 0.36 TVEA2
49 0x0031 MPEG Audio	-	135.95 0.36 RNE5
38 0x0026 MPEG Audio	-	135.95 0.36 SAR7
4385 0x1121 MPEG Audio	\$	135.90 0.36 24HTVE
4369 0x1111 MPEG Audio	\$	135.90 0.36 TVEA1
35 0x0023 MPEG Audio	-	135.90 0.36 RNE1
68 0x0044 MPEG Audio	-	134.47 0.35 Radio Galicia 2
4386 0x1122 Private Data	\$	131.81 0.35 24HTVE
4370 0x1112 Private Data	\$	131.81 0.35 TVEA1

4418	0x1142	Private Data	\$	131.76	0.35	TVEA2
48	0x0030	PMT	-	83.62	0.22	ANTENA3
1211	0x04BB	MPEG Audio	-	71.02	0.19	NSE Radio
17	0x0011	SDT	-	51.62	0.14	N/A
16	0x0010	NIT	-	30.11	0.08	N/A
1	0x0001	CAT	-	30.11	0.08	N/A
0	0x0000	PAT	-	30.11	0.08	N/A
6001	0x1771	ECM/EMM	-	15.05	0.04	ANTENA3
192	0x00C0	ECM/EMM	-	13.72	0.04	N/A
20	0x0014	TOT	-	10.04	0.03	N/A
4431	0x114F	ECM/EMM	-	6.14	0.02	TVEA2
4399	0x112F	ECM/EMM	-	6.14	0.02	24HTVE
4383	0x111F	ECM/EMM	-	6.14	0.02	TVEA1

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330°E

Network Name

n.a.

Recording

Juan Carlos Duarte

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name
255	0x00FF	MPEG2 Video	\$ 3089.68	42.62	SOLO TANGO
257	0x0101	MPEG2 Video	- 2581.48	35.61	CANAL 21
8191	0x1FFF	Null Packets	- 804.71	11.10	N/A
266	0x010A	MPEG Audio	- 135.66	1.87	SIGLO 21
261	0x0105	MPEG Audio	- 135.66	1.87	CADENA 3
258	0x0102	MPEG Audio	- 135.66	1.87	CANAL 21
256	0x0100	MPEG Audio	\$ 135.62	1.87	SOLO TANGO

Transmitter	Network Name	n.a.
267 0x010B MPEG Audio	-	70.22 0.97 RADIO COOPERATIVA
262 0x0106 MPEG Audio	-	70.22 0.97 RADIO 3 PATAGONICA
601 0x0259 ECM/EMM	-	30.95 0.43 N/A
0 0x0000 PAT	-	13.68 0.19 N/A
100 0x0064 PMT	-	7.71 0.11 SOLO TANGO
18 0x0012 EIT	-	5.44 0.08 N/A
8190 0x1FFE ECM/EMM	-	4.99 0.07 SOLO TANGO
108 0x006C PMT	-	4.57 0.06 RADIO COOPERATIVA

107	0x006B	PMT	-	4.57	0.06	SIGLO 21
106	0x006A	PMT	-	4.57	0.06	CADENA 3
104	0x0068	PMT	-	4.57	0.06	RADIO 3 PATAGONICA
101	0x0065	PMT	-	4.57	0.06	CANAL 21
1	0x0001	CAT	-	3.87	0.05	N/A
17	0x0011	SDT	-	0.58	0.01	N/A
20	0x0014	TOT	-	0.33	0.00	N/A

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352.5°E (7.5°W)

ATLANTIC BIRD 1



352.5°E

Network Name

TIMB4

Recording

Thomas Haring

Transmitter ATLANTIC BIRD 1 12.718H

Remark

MIS

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name
757	0x02F5	H.264 Video	-	9232.66	41.14	LA7 HD
762	0x02FA	H.264 Video	-	9232.39	41.14	LA7 test 3D
101	0x0065	H.264 Video	-	1801.87	8.03	LA7 test MOSAICO
8191	0x1FFF	Null Packets	-	1158.70	5.16	N/A
763	0x02FB	MPEG Audio	-	394.77	1.76	LA7 test 3D
758	0x02F6	MPEG Audio	-	394.68	1.76	LA7 HD

18	0x0012	EIT	-	39.17	0.17	N/A
104	0x0068	AAC Audio	-	26.64	0.12	LA7 test MOSAICO
102	0x0066	AAC Audio	-	26.64	0.12	LA7 test MOSAICO
105	0x0069	AAC Audio	-	26.55	0.12	LA7 test MOSAICO
103	0x0067	AAC Audio	-	26.55	0.12	LA7 test MOSAICO
1	0x0001	CAT	-	15.13	0.07	N/A
771	0x0303	PMT	-	15.04	0.07	LA7 test MOSAICO

761	0x02F9	PMT	-	15.04	0.07	LA7 test 3D
756	0x02F4	PMT	-	15.04	0.07	LA7 HD
0	0x0000	PAT	-	15.04	0.07	N/A
21	0x0015	Network Sync	-	2.51	0.01	N/A
17	0x0011	SDT	-	1.58	0.01	N/A
16	0x0010	NIT	-	0.28	0.00	N/A
20	0x0014	TOT	-	0.09	0.00	N/A

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DVB-S2

satellite

9°E

EUROBIRD



9°E

Network Name

E.B.9 NMX

Recording

Thomas Haring

Transmitter EUROBIRD 11.881V

Remark

HDTV

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name
8191	0x1FFF	Null Packets	-	9324.02	17.51	N/A
2010	0x07DA	H.264 Video	\$	8202.59	15.40	National Geographic HD
2011	0x07DB	H.264 Video	\$	8002.47	15.03	FOX HD
2001	0x07D1	H.264 Video	-	7302.32	13.71	FTV HD
2007	0x07D7	H.264 Video	\$	6567.28	12.33	MEZZO HD
2002	0x07D2	H.264 Video	\$	5414.85	10.17	iConcerts
2006	0x07D6	H.264 Video	\$	4501.45	8.45	Duck TV HD
3006	0x0BBE	MPEG Audio	\$	397.01	0.75	Duck TV HD
3001	0x0BB9	MPEG Audio	-	397.01	0.75	FTV HD
5011	0x1393	AC3 Audio	\$	394.92	0.74	FOX HD
4010	0x0FAA	AC3 Audio	\$	394.92	0.74	National Geographic HD
3010	0x0BC2	AC3 Audio	\$	394.92	0.74	National Geographic HD
3007	0x0BBF	MPEG Audio	\$	266.41	0.50	MEZZO HD
3002	0x0BBA	MPEG Audio	\$	266.41	0.50	iConcerts
502	0x01F6	ECM/EMM	-	211.56	0.40	N/A
3011	0x0BC3	MPEG Audio	\$	198.51	0.37	FOX HD

4011	0x0FAB	MPEG Audio	\$	198.50	0.37	FOX HD
1000	0x03E8	ECM/EMM	-	98.30	0.18	N/A
18	0x0012	EIT	-	85.39	0.16	N/A
501	0x01F5	ECM/EMM	-	78.33	0.15	N/A
4001	0x0FA1	MPEG Audio	-	73.14	0.14	FTV HD
16	0x0010	NIT	-	25.08	0.05	N/A
1	0x0001	CAT	-	25.06	0.05	N/A
0	0x0000	PAT	-	25.06	0.05	N/A
1011	0x03F3	PMT	-	24.26	0.05	FOX HD
1010	0x03F2	PMT	-	24.26	0.05	National Geographic HD
1008	0x03F0	PMT	-	24.26	0.05	Penthouse HD
1007	0x03EF	PMT	-	24.26	0.05	MEZZO HD
1006	0x03EE	PMT	-	24.26	0.05	Duck TV HD
1002	0x03EA	PMT	-	24.26	0.05	iConcerts
1001	0x03E9	PMT	-	24.26	0.05	FTV HD
116	0x0074	ECM/EMM	-	15.10	0.03	MEZZO HD
132	0x0084	ECM/EMM	-	15.09	0.03	MEZZO HD

119	0x0077	ECM/EMM	-	15.09	0.03	National Geographic HD
121	0x0079	ECM/EMM	-	15.07	0.03	National Geographic HD
118	0x0076	ECM/EMM	-	15.07	0.03	FOX HD
117	0x0075	ECM/EMM	-	15.07	0.03	MEZZO HD
112	0x0070	ECM/EMM	-	15.07	0.03	Duck TV HD
108	0x006C	ECM/EMM	-	15.07	0.03	Duck TV HD
131	0x0083	ECM/EMM	-	15.05	0.03	iConcerts
114	0x0072	ECM/EMM	-	15.05	0.03	Penthouse HD
133	0x0085	ECM/EMM	-	15.04	0.03	Penthouse HD
120	0x0078	ECM/EMM	-	15.04	0.03	FOX HD
115	0x0073	ECM/EMM	-	15.04	0.03	Penthouse HD
100	0x0064	ECM/EMM	-	7.57	0.01	MEZZO HD
101	0x0065	ECM/EMM	-	7.55	0.01	MEZZO HD
103	0x0067	ECM/EMM	-	7.53	0.01	iConcerts
102	0x0066	ECM/EMM	-	7.53	0.01	iConcerts
17	0x0011	SDT	-	6.02	0.01	N/A
20	0x0014	TOT	-	0.13	0.00	N/A

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13°E

HOTBIRD



13°E

Network Name

EUTELSAT 13 EAST

Recording

Thomas Haring

Transmitter HOTBIRD 10.971H

Remark

HD tests

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name
532	0x0214	H.264 Video	\$	10500.60	18.26	TSR1 HD
542	0x021E	H.264 Video	\$	10500.55	18.26	TSR2 HD
512	0x0200	H.264 Video	\$	10500.55	18.26	SF zwei HD
502	0x01F6	H.264 Video	\$	10500.55	18.26	SF 1 HD
8191	0x1FFF	Null Packets	-	9526.50	16.57	N/A
18	0x0012	EIT	-	1060.37	1.84	N/A
535	0x0217	AC3 Audio	\$	460.64	0.80	TSR1 HD
515	0x0203	AC3 Audio	\$	460.64	0.80	SF zwei HD
505	0x01F9	AC3 Audio	\$	460.64	0.80	SF 1 HD
545	0x0221	AC3 Audio	\$	460.59	0.80	TSR2 HD
537	0x0219	Teletext	-	263.23	0.46	TSR1 HD
507	0x01FB	Teletext	-	263.23	0.46	SF 1 HD

547	0x0223	Teletext	-	263.18	0.46	TSR2 HD
517	0x0205	Teletext	-	263.18	0.46	SF zwei HD
543	0x021F	MPEG Audio	\$	198.50	0.35	TSR2 HD
514	0x0202	MPEG Audio	\$	198.50	0.35	SF zwei HD
544	0x0220	MPEG Audio	\$	198.45	0.35	TSR2 HD
534	0x0216	MPEG Audio	\$	198.45	0.35	TSR1 HD
533	0x0215	MPEG Audio	\$	198.45	0.35	TSR1 HD
513	0x0201	MPEG Audio	\$	198.45	0.35	SF zwei HD
504	0x01F8	MPEG Audio	\$	198.45	0.35	SF 1 HD
503	0x01F7	MPEG Audio	\$	198.45	0.35	SF 1 HD
602	0x025A	ECM/EMM	-	99.74	0.17	N/A
604	0x025C	ECM/EMM	-	99.70	0.17	N/A
603	0x025B	ECM/EMM	-	99.70	0.17	N/A

1	0x0001	CAT	-	15.03	0.03	N/A
0	0x0000	PAT	-	15.03	0.03	N/A
541	0x021D	PMT	-	13.61	0.02	TSR2 HD
531	0x0213	PMT	-	13.61	0.02	TSR1 HD
511	0x01FF	PMT	-	13.61	0.02	SF zwei HD
501	0x01F5	PMT	-	13.61	0.02	SF 1 HD
17	0x0011	SDT	-	7.61	0.01	N/A
739	0x02E3	ECM/EMM	-	7.56	0.01	SF 1 HD
729	0x02D9	ECM/EMM	-	7.56	0.01	SF 1 HD
719	0x02CF	ECM/EMM	-	7.56	0.01	SF 1 HD
16	0x0010	NIT	-	4.58	0.01	N/A
20	0x0014	TOT	-	1.46	0.00	N/A

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DVB-S2

13°E

Network Name
Transmitter

CYFRA+
HOTBIRD 11.411H

Recording
Remark

Thomas Haring
3D tests

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name	18	0x0012	EIT	-	225.62	0.33	N/A	33	0x0021	?	-	22.57	0.03	N/A
161	0x00A1	H.264 Video	\$	11419.29	16.75	CANAL+ GOL HD	96	0x0060	AC3 Audio	\$	197.45	0.29	teleTOON+ HD	32	0x0020	?	-	22.57	0.03	N/A
166	0x00A6	H.264 Video	\$	8748.77	12.83	KUCHNIA+ HD	92	0x005C	AC3 Audio	\$	197.44	0.29	MINIMINI+ HD	0	0x0000	PAT	-	20.01	0.03	N/A
165	0x00A5	H.264 Video	\$	7405.04	10.86	PLANETE+ HD	182	0x00B6	ECM/EMM	-	186.35	0.27	N/A	183	0x00B7	ECM/EMM	-	17.02	0.02	N/A
167	0x00A7	H.264 Video	\$	7107.82	10.43	DOMO+ HD	680	0x02A8	?	-	183.85	0.27	N/A	1080	0x0438	PMT	-	10.03	0.01	_Service 14280
162	0x00A2	H.264 Video	\$	6255.24	9.18	C+ WEEKEND HD	501	0x01F5	Teletext	-	37.59	0.06	CANAL+ FILM HD	17	0x0011	SDT	-	10.03	0.01	N/A
163	0x00A3	H.264 Video	\$	5582.34	8.19	MINIMINI+ HD	2110	0x083E	ECM/EMM	-	22.57	0.03	CANAL+ 3D test	16	0x0010	NIT	-	10.03	0.01	N/A
164	0x00A4	H.264 Video	\$	4928.63	7.23	teleTOON+ HD	2109	0x083D	ECM/EMM	-	22.57	0.03	ALE KINO+ HD	1	0x0001	CAT	-	10.03	0.01	N/A
168	0x00A8	H.264 Video	\$	4071.44	5.97	ALE KINO+ HD	2108	0x083C	ECM/EMM	-	22.57	0.03	DOMO+ HD	1010	0x03F2	PMT	-	10.01	0.01	CANAL+ 3D test
160	0x00A0	H.264 Video	\$	3975.70	5.83	CANAL+ FILM HD	2107	0x083B	ECM/EMM	-	22.57	0.03	KUCHNIA+ HD	1009	0x03F1	PMT	-	10.01	0.01	ALE KINO+ HD
169	0x00A9	H.264 Video	\$	3520.78	5.16	CANAL+ 3D test	2106	0x083A	ECM/EMM	-	22.57	0.03	PLANETE+ HD	1008	0x03F0	PMT	-	10.01	0.01	DOMO+ HD
88	0x0058	AC3 Audio	\$	394.90	0.58	C+ WEEKEND HD	2105	0x0839	ECM/EMM	-	22.57	0.03	teleTOON+ HD	1007	0x03EF	PMT	-	10.01	0.01	KUCHNIA+ HD
113	0x0071	AC3 Audio	\$	394.89	0.58	ALE KINO+ HD	2104	0x0838	ECM/EMM	-	22.57	0.03	MINIMINI+ HD	1006	0x03EE	PMT	-	10.01	0.01	PLANETE+ HD
84	0x0054	AC3 Audio	\$	394.89	0.58	CANAL+ GOL HD	2103	0x0837	ECM/EMM	-	22.57	0.03	C+ WEEKEND HD	1005	0x03ED	PMT	-	10.01	0.01	teleTOON+ HD
81	0x0051	AC3 Audio	\$	394.89	0.58	CANAL+ FILM HD	2102	0x0836	ECM/EMM	-	22.57	0.03	CANAL+ GOL HD	1004	0x03EC	PMT	-	10.01	0.01	MINIMINI+ HD
8191	0x1FFF	Null Packets	-	370.46	0.54	N/A	2101	0x0835	ECM/EMM	-	22.57	0.03	CANAL+ FILM HD	1003	0x03EB	PMT	-	10.01	0.01	C+ WEEKEND HD
104	0x0068	AC3 Audio	\$	263.27	0.39	KUCHNIA+ HD	1039	0x040F	PMT	-	22.57	0.03	ALE KINO+ HD	1002	0x03EA	PMT	-	10.01	0.01	CANAL+ GOL HD
100	0x0064	AC3 Audio	\$	263.27	0.39	PLANETE+ HD	1038	0x040E	PMT	-	22.57	0.03	DOMO+ HD	1001	0x03E9	PMT	-	10.01	0.01	CANAL+ FILM HD
116	0x0074	AC3 Audio	\$	263.26	0.39	CANAL+ 3D test	1037	0x040D	PMT	-	22.57	0.03	KUCHNIA+ HD	184	0x00B8	ECM/EMM	-	8.28	0.01	N/A
112	0x0070	AC3 Audio	\$	263.26	0.39	ALE KINO+ HD	1036	0x040C	PMT	-	22.57	0.03	PLANETE+ HD	721	0x02D1	DVB Subtitles	-	7.60	0.01	CANAL+ FILM HD
108	0x006C	AC3 Audio	\$	263.26	0.39	DOMO+ HD	1035	0x040B	PMT	-	22.57	0.03	teleTOON+ HD	729	0x02D9	DVB Subtitles	-	3.69	0.01	ALE KINO+ HD
80	0x0050	AC3 Audio	\$	263.26	0.39	CANAL+ FILM HD	1034	0x040A	PMT	-	22.57	0.03	MINIMINI+ HD	20	0x0014	TOT	-	0.38	0.00	N/A

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28.2°E

ASTRA

DVB-S2

28.2°E

Network Name

ASTRA

Recording

TELE-satellite

Transmitter

ASTRA 12.460H

Remark

3D

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	642	0x0282	MPEG Audio	\$	196.76	0.46	Sky 3D	257	0x0101	PMT	-	21.44	0.05	Sky 3D	
513	0x0201	H.264 Video	\$	17747.89	41.10	Sky Arts 1 HD	52	0x0034	?	-	189.54	0.44	N/A	1033	0x0409	Private Sections	-	17.99	0.04	N/A
514	0x0202	H.264 Video	\$	12610.29	29.20	Sky 3D	2305	0x0901	Private Sections	-	167.34	0.39	N/A	1030	0x0406	Private Sections	-	17.77	0.04	N/A
512	0x0200	H.264 Video	\$	8502.03	19.69	Sky News HD	89	0x0059	?	-	89.63	0.21	N/A	1283	0x0503	ECM/EMM	-	15.09	0.03	Sky 3D
3080	0x0C08	Private Sections	-	724.90	1.68	N/A	85	0x0055	?	-	59.01	0.14	N/A	1282	0x0502	ECM/EMM	-	15.09	0.03	Sky Arts 1 HD
3081	0x0C09	Private Sections	-	500.09	1.16	N/A	259	0x0103	PMT	-	42.98	0.10	Sky Arts 1 HD	1280	0x0500	ECM/EMM	-	15.09	0.03	Sky News HD
661	0x0295	AC3 Audio	\$	393.51	0.91	Sky Arts 1 HD	258	0x0102	PMT	-	42.98	0.10	Sky News HD	1032	0x0408	Private Sections	-	10.94	0.03	N/A
660	0x0294	AC3 Audio	\$	393.51	0.91	Sky News HD	2308	0x0904	Teletext	-	37.57	0.09	Sky News HD	80	0x0050	?	-	7.22	0.02	N/A
662	0x0296	AC3 Audio	\$	393.46	0.91	Sky 3D	18	0x0012	EIT	-	27.23	0.06	N/A	1	0x0001	CAT	-	1.53	0.00	N/A
192	0x00C0	ECM/EMM	-	311.92	0.72	N/A	1034	0x040A	Private Sections	-	24.99	0.06	N/A	16	0x0010	NIT	-	1.42	0.00	N/A
96	0x0060	?	-	286.93	0.66	N/A	261	0x0105	PMT	-	21.49	0.05	Sky 3D	20	0x0014	TOT	-	0.11	0.00	N/A
17	0x0011	SDT	-	269.98	0.63	N/A	0	0x0000	PAT	-	21.49	0.05	N/A							

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288°E (72°W)

AMC 6

DVB-S2

288°E

Network Name

Arsat

Recording

Juan Carlos Duarte

Transmitter

AMC 6 12.020V

Remark

Mobile TV

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	289	0x0121	AAC Audio	-	69.76	0.10	Tecnopolis	66	0x0042	PMT	-	24.31	0.03	Video Exito	
8191	0x1FFF	Null Packets	-	15195.79	20.87	N/A	353	0x0161	AAC Audio	\$	69.55	0.10	Gol TV	65	0x0041	PMT	-	24.31	0.03	G360
1296	0x0510	H.264 Video	-	9519.19	13.07	TV Pública	305	0x0131	AAC Audio	-	69.35	0.10	Encuentro	64	0x0040	PMT	-	24.31	0.03	Suri TV
400	0x0190	H.264 Video	-	3306.41	4.54	Incaa TV	321	0x0141	AAC Audio	\$	69.28	0.10	C5N	63	0x003F	PMT	-	24.31	0.03	Gol TV Móvil
368	0x0170	H.264 Video	-	3306.41	4.54	Paka Paka	273	0x0111	AAC Audio	\$	69.15	0.09	CN 23	62	0x003E	PMT	-	24.31	0.03	TV Pública Móvil
352	0x0160	H.264 Video	\$	3306.41	4.54	Gol TV	369	0x0171	AAC Audio	-	68.95	0.09	Paka Paka	61	0x003D	PMT	-	24.31	0.03	Encuentro Móvil
304	0x0130	H.264 Video	-	3306.41	4.54	Encuentro	385	0x0181	AAC Audio	\$	68.81	0.09	TaTeTi	50	0x0032	PMT	-	24.31	0.03	Radio 911
288	0x0120	H.264 Video	-	3306.41	4.54	Tecnopolis	1297	0x0511	AAC Audio	\$	68.61	0.09	TV Pública	47	0x002F	PMT	-	24.31	0.03	Radio 921
384	0x0180	H.264 Video	\$	3306.34	4.54	TaTeTi	387	0x0183	AAC Audio	\$	40.25	0.06	Radio Nacional	46	0x002E	PMT	-	24.31	0.03	Radio 910
416	0x01A0	H.264 Video	\$	2805.68	3.85	Vivra	355	0x0163	AAC Audio	\$	40.11	0.06	Radio 961	44	0x002C	PMT	-	24.31	0.03	Radio 991
448	0x01C0	H.264 Video	\$	2805.48	3.85	Video Exito	339	0x0153	AAC Audio	\$	40.04	0.05	Radio 951	42	0x002A	PMT	-	24.31	0.03	Radio Nacional
464	0x01D0	H.264 Video	\$	2654.89	3.65	G360	307	0x0133	AAC Audio	\$	40.04	0.05	Radio 931	41	0x0029	PMT	-	24.31	0.03	Telesur
496	0x01F0	H.264 Video	\$	2654.82	3.65	Construir	51	0x0033	AAC Audio	\$	36.74	0.05	Radio 911	39	0x0027	PMT	-	24.31	0.03	Radio 971
320	0x0140	H.264 Video	\$	2654.76	3.65	C5N	433	0x01B1	AAC Audio	\$	35.59	0.05	Suri TV	38	0x0026	PMT	-	24.31	0.03	CN 23 Móvil
272	0x0110	H.264 Video	\$	2654.76	3.65	CN 23	465	0x01D1	AAC Audio	\$	35.52	0.05	G360	37	0x0025	PMT	-	24.31	0.03	Radio 961
43	0x002B	H.264 Video	\$	2654.62	3.65	Telesur	481	0x01E1	AAC Audio	-	35.39	0.05	Turismo	36	0x0024	PMT	-	24.31	0.03	Radio 951
432	0x01B0	H.264 Video	\$	2103.79	2.89	Suri TV	449	0x01C1	AAC Audio	\$	35.39	0.05	Video Exito	33	0x0021	PMT	-	24.31	0.03	Radio 941
480	0x01E0	H.264 Video	-	2103.72	2.89	Turismo	403	0x0193	AAC Audio	\$	35.32	0.05	Radio 991	17	0x0011	SDT	-	11.07	0.02	N/A
70	0x0046	H.264 Video	-	293.61	0.40	Encuentro Móvil	401	0x0191	AAC Audio	-	35.32	0.05	Incaa TV	1329	0x0531	ECM/EMM	-	5.06	0.01	Video Exito
49	0x0031	H.264 Video	\$	293.34	0.40	CN 23 Móvil	371	0x0173	AAC Audio	\$	35.32	0.05	Radio 971	1313	0x0521	ECM/EMM	-	5.06	0.01	CN 23 Móvil
74	0x004A	H.264 Video	\$	293.28	0.40	Gol TV Móvil	323	0x0143	AAC Audio	\$	35.32	0.05	Radio 941	1409	0x0581	ECM/EMM	-	5.00	0.01	TV Pública
72	0x0048	H.264 Video	-	293.07	0.40	TV Pública Móvil	75	0x004B	AAC Audio	\$	35.32	0.05	Gol TV Móvil	1376	0x0560	ECM/EMM	-	5.00	0.01	Radio 910
18	0x0012	EIT	-	253.84	0.35	N/A	73	0x0049	AAC Audio	-	35.32	0.05	TV Pública Móvil	1369	0x0559	ECM/EMM	-	5.00	0.01	Radio 991
236	0x00EC	PCR	-	100.21	0.14	_Service 4094	71	0x0047	AAC Audio	-	35.32	0.05	Encuentro Móvil	1368	0x0558	ECM/EMM	-	5.00	0.01	Radio Nacional
235	0x00EB	PCR	-	100.21	0.14	_Service 4093	48	0x0030	AAC Audio	\$	35.32	0.05	Radio 921	1367	0x0557	ECM/EMM	-	5.00	0.01	Radio 971
417	0x01A1	AAC Audio	\$	72.26	0.10	Vivra	35	0x0023	AAC Audio	\$	35.32	0.05	CN 23 Móvil	1366	0x0556	ECM/EMM	-	5.00	0.01	Radio 961
497	0x01F1	AAC Audio	\$	71.72	0.10	Construir	32	0x0020	AAC Audio	\$	35.32	0.05	Radio 910	1365	0x0555	ECM/EMM	-	5.00	0.01	Radio 951
45	0x002D	AAC Audio	\$	71.24	0.10	Telesur	1	0x0001	CAT	-	25.12	0.03	N/A	1364	0x0554	ECM/EMM	-	5.00	0.01	Radio 941
482	0x01E2	AAC Audio	-	70.70	0.10	Turismo	0	0x0000	PAT	-	25.05	0.03	N/A	1363	0x0553	ECM/EMM	-	5.00	0.01	Radio 931
466	0x01D2	AAC Audio	\$	70.57	0.10	G360	4094	0x00FE	PMT	-	24.31	0.03	_Service 4094	1362	0x0552	ECM/EMM	-	5.00	0.01	Radio 921
434	0x01B2	AAC Audio	\$	70.57	0.10	Suri TV	4093	0x00FD	PMT	-	24.31	0.03	_Service 4093	1361	0x0551	ECM/EMM	-	5.00	0.01	Radio 911
58	0x003A	AAC Audio	-	70.57	0.10	Incaa TV	2362	0x093A	PMT	-	24.31	0.03	Radio 931	1332	0x0534	ECM/EMM	-	5.00	0.01	Construir
55	0x0037	AAC Audio	\$	70.57	0.10	Gol TV	1306	0x051A	PMT	-	24.31	0.03	TV Pública	1330	0x0532	ECM/EMM	-	5.00	0.01	G360
56	0x0038	AAC Audio	-	70.50	0.10	Paka Paka	426	0x01AA	PMT	-	24.31	0.03	Vivra	1328	0x0530	ECM/EMM	-	5.00	0.01	Suri TV
34	0x0022	AAC Audio	-	70.50	0.10	Tecnopolis	410	0x019A	PMT	-	24.31	0.03	Incaa TV	1314	0x0522	ECM/EMM	-	5.00	0.01	Gol TV Móvil
450	0x01C2	AAC Audio	\$	70.36	0.10	Video Exito	394	0x018A	PMT	-	24.31	0.03	TaTeTi	1298	0x0512	ECM/EMM	-	5.00	0.01	Vivra
59	0x003B	AAC Audio	\$	70.30	0.10	Vivra	378	0x017A	PMT	-	24.31	0.03	Paka Paka	1288	0x0508	ECM/EMM	-	5.00	0.01	TaTeTi
53	0x0035	AAC Audio	\$	70.30	0.10	C5N	362	0x016A	PMT	-	24.31	0.03	Gol TV	1286	0x0506	ECM/EMM	-	5.00	0.01	Gol TV
52	0x0034	AAC Audio	\$	70.30	0.10	CN 23	330	0x014A	PMT	-	24.31	0.03	C5N	1285	0x0505	ECM/EMM	-	5.00	0.01	Telesur
40	0x0028	AAC Audio	-	70.30	0.10	Encuentro	314	0x013A	PMT	-	24.31	0.03	Encuentro	1284	0x0504	ECM/EMM	-	5.00	0.01	C5N
54	0x0036	AAC Audio	\$	70.16	0.10	Telesur	298	0x012A	PMT	-	24.31	0.03	Tecnopolis	1281	0x0501	ECM/EMM	-	5.00	0.01	CN 23
60	0x003C	AAC Audio	\$	70.09	0.10	TV Pública	282	0x011A	PMT	-	24.31	0.03	CN 23	16	0x0010	NIT	-	3.98	0.01	N/A
57	0x0039	AAC Audio	\$	69.96	0.10	TaTeTi	69	0x0045	PMT	-	24.31	0.03	Turismo	1537	0x0601	ECM/EMM	-	1.69	0.00	N/A
498	0x01F2	AAC Audio	\$	69.82	0.10	Construir	67	0x0043	PMT	-	24.31	0.03	Construir	20	0x0014	TOT	-	1.55	0.00	N/A

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299°E

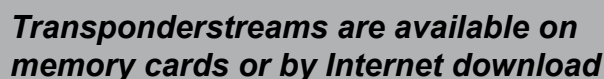
AMAZONAS

						Network Name				AMZ-2		Recording		Juan Carlos Duarte						
						Transmitter		AMAZONAS 10.728V		Remark		HD								
PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name	18	0x0012	EIT	-	248.16	0.43	N/A	4011	0x0FAB	ECM/EMM	-	15.09	0.03	TNT HD
2024	0x07E8	H.264 Video	\$	6751.80	11.60	A&E HD	286	0x011E	ECM/EMM	-	199.63	0.34	N/A	4010	0x0FFAA	ECM/EMM	-	15.09	0.03	TNT HD
2019	0x07E3	H.264 Video	\$	6477.40	11.13	MAX HD	3022	0x008C	MPEG Audio	\$	198.74	0.34	Cinema Golden HD	1022	0x03FE	PMT	-	15.09	0.03	Space HD
2021	0x07E5	H.264 Video	\$	6434.07	11.06	Sony HD	288	0x0120	ECM/EMM	-	157.34	0.27	N/A	1006	0x03EE	PMT	-	15.09	0.03	History Channel HD
2025	0x07E9	H.264 Video	\$	5812.80	9.99	Space HD	17	0x0011	SDT	-	148.79	0.26	N/A	1005	0x03ED	PMT	-	15.09	0.03	Cinema Golden HD
2627	0x0A43	H.264 Video	\$	5649.14	9.71	AXN HD	16	0x0010	NIT	-	20.59	0.04	N/A	1003	0x03EB	PMT	-	15.09	0.03	TNT HD
2624	0x0A40	H.264 Video	\$	5649.07	9.71	Warner Channel HD	4658	0x1232	ECM/EMM	-	15.09	0.03	AXN HD	4068	0x0FE4	ECM/EMM	-	15.01	0.03	MAX HD
2020	0x07E4	H.264 Video	\$	5509.12	9.47	TNT HD	4657	0x1231	ECM/EMM	-	15.09	0.03	AXN HD	4067	0x0FE3	ECM/EMM	-	15.01	0.03	MAX HD
2022	0x07E6	H.264 Video	\$	4541.13	7.80	Cinema Golden HD	4623	0x120F	ECM/EMM	-	15.09	0.03	Warner Channel HD	1627	0x065B	PMT	-	15.01	0.03	AXN HD
2023	0x07E7	H.264 Video	\$	4018.42	6.91	History Channel HD	4622	0x120E	ECM/EMM	-	15.09	0.03	Warner Channel HD	1624	0x0658	PMT	-	15.01	0.03	Warner Channel HD
8191	0x1FFF	Null Packets	-	1976.25	3.40	N/A	4032	0x0FC0	ECM/EMM	-	15.09	0.03	Space HD	1007	0x03EF	PMT	-	15.01	0.03	A&E HD
287	0x011F	ECM/EMM	-	557.72	0.96	N/A	4030	0x0FBC	ECM/EMM	-	15.09	0.03	Space HD	1004	0x03EC	PMT	-	15.01	0.03	Sony HD
3640	0x0E38	AC3 Audio	\$	423.86	0.73	AXN HD	4028	0x0FBC	ECM/EMM	-	15.09	0.03	A&E HD	1002	0x03EA	PMT	-	15.01	0.03	MAX HD
3618	0x0E22	AC3 Audio	\$	423.86	0.73	Warner Channel HD	4026	0x0FBA	ECM/EMM	-	15.09	0.03	A&E HD	0	0x0000	PAT	-	15.01	0.03	N/A
3025	0x0BD1	AC3 Audio	\$	423.86	0.73	Space HD	4024	0x0FB8	ECM/EMM	-	15.09	0.03	History Channel HD	1	0x0001	CAT	-	14.86	0.03	N/A
3024	0x0BD0	AC3 Audio	\$	423.86	0.73	A&E HD	4022	0x0FB6	ECM/EMM	-	15.09	0.03	History Channel HD	292	0x0124	ECM/EMM	-	1.04	0.00	N/A
3023	0x0BCF	AC3 Audio	\$	423.86	0.73	History Channel HD	4020	0x0FB4	ECM/EMM	-	15.09	0.03	Cinema Golden HD	291	0x0123	ECM/EMM	-	1.04	0.00	N/A
3020	0x0BCC	AC3 Audio	\$	423.86	0.73	TNT HD	4016	0x0FB0	ECM/EMM	-	15.09	0.03	Cinema Golden HD	290	0x0122	ECM/EMM	-	1.04	0.00	N/A
3021	0x0BCD	AC3 Audio	\$	423.79	0.73	Sony HD	4014	0x0FAE	ECM/EMM	-	15.09	0.03	Sony HD	289	0x0121	ECM/EMM	-	1.04	0.00	N/A
3019	0x0BCB	AC3 Audio	\$	423.79	0.73	MAX HD	4012	0x0FA8	ECM/EMM	-	15.09	0.03	Sony HD	20	0x0014	TOT	-	1.04	0.00	N/A

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www.transponderstream.com/DVB-S2/299/AMAZONAS-10728V-1110.ts



www.transponderstream.com

359°E

THOR 5

DVB-S2

359°E

Network Name

Telenor

Recording

Thomas Haring

Transmitter

THOR 5 11.785H

Remark

3D tests encrypted

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name			
516	0x0204	H.264 Video	\$ 13846.91	20.65	TV 2 3D	610	0x0262	DVB Subtitles	-	15.49	0.02	Nat Geo HD	75	0x004B	ECM/EMM	-	15.12	0.02	Nat Geo Wild HD	
515	0x0203	H.264 Video	\$ 12305.98	18.35	ESPN America HD	612	0x0264	DVB Subtitles	-	15.24	0.02	Nat Geo HD	261	0x0105	PMT	-	14.99	0.02	TV 2 3D	
512	0x0200	H.264 Video	\$ 12038.82	17.95	Nat Geo HD	272	0x0110	PMT	-	15.12	0.02	MTV Live HD	184	0x00B8	ECM/EMM	-	14.99	0.02	Nat Geo HD	
513	0x0201	H.264 Video	\$ 11995.69	17.89	Nat Geo Wild HD	271	0x010F	PMT	-	15.12	0.02	Nat Geo Wild HD	174	0x00AE	ECM/EMM	-	14.99	0.02	Nat Geo HD	
514	0x0202	H.264 Video	\$ 9947.94	14.83	MTV Live HD	270	0x010E	PMT	-	15.12	0.02	Nat Geo HD	102	0x0066	ECM/EMM	-	14.99	0.02	MTV Live HD	
8191	0x1FFF	Null Packets	-	3428.83	5.11	N/A	260	0x0104	PMT	-	15.12	0.02	MTV Live HD	100	0x0064	ECM/EMM	-	14.99	0.02	Nat Geo HD
641	0x0281	AC3 Audio	\$ 462.09	0.69	Nat Geo HD	259	0x0103	PMT	-	15.12	0.02	ESPN America HD	1	0x0001	CAT	-	14.99	0.02	N/A	
48	0x0030	ECM/EMM	-	413.14	0.62	N/A	258	0x0102	PMT	-	15.12	0.02	ESPN America HD	0	0x0000	PAT	-	14.99	0.02	N/A
18	0x0012	EIT	-	401.25	0.60	N/A	257	0x0101	PMT	-	15.12	0.02	Nat Geo Wild HD	611	0x0263	DVB Subtitles	-	13.63	0.02	Nat Geo HD
657	0x0291	AC3 Audio	-	400.75	0.60	TV 2 3D	256	0x0100	PMT	-	15.12	0.02	Nat Geo HD	16	0x0010	NIT	-	12.89	0.02	N/A
648	0x0288	AC3 Audio	\$ 400.75	0.60	MTV Live HD	104	0x0068	ECM/EMM	-	15.12	0.02	TV 2 3D	95	0x005F	ECM/EMM	-	5.08	0.01	Nat Geo Wild HD	
656	0x0290	MPEG Audio	\$ 267.17	0.40	TV 2 3D	103	0x0067	ECM/EMM	-	15.12	0.02	ESPN America HD	94	0x005E	ECM/EMM	-	5.08	0.01	Nat Geo HD	
652	0x028C	MPEG Audio	\$ 263.20	0.39	ESPN America HD	101	0x0065	ECM/EMM	-	15.12	0.02	Nat Geo Wild HD	97	0x0061	ECM/EMM	-	4.96	0.01	ESPN America HD	
644	0x0284	MPEG Audio	\$ 229.99	0.34	Nat Geo Wild HD	96	0x0060	ECM/EMM	-	15.12	0.02	ESPN America HD	616	0x0268	DVB Subtitles	-	2.97	0.00	Nat Geo Wild HD	
640	0x0280	MPEG Audio	\$ 221.12	0.30	Nat Geo HD	87	0x0057	ECM/EMM	-	15.12	0.02	ESPN America HD	615	0x0267	DVB Subtitles	-	2.97	0.00	Nat Geo Wild HD	
17	0x0011	SDT	-	25.03	0.04	N/A	85	0x0055	ECM/EMM	-	15.12	0.02	Nat Geo Wild HD	614	0x0266	DVB Subtitles	-	2.97	0.00	Nat Geo Wild HD
						77	0x004D	ECM/EMM	-	15.12	0.02	ESPN America HD	20	0x0014	TOT	-	2.97	0.00	N/A	

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DVB-T

terrestrial

AT

Austria

DVB-T

AT

Network Name

ORS DVB-T T2

Recording

Thomas Haring

Transmitter

Vienna Channel 34

Remark

Radio

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	1066	0x042A	MPEG Audio	-	175.78	1.06	ServusTV	153	0x0099	PMT	-	18.88	0.11	ServusTV	
1060	0x0424	MPEG2 Video	-	3262.60	19.64	ORF Sport Plus	1051	0x041B	MPEG Audio	-	175.69	1.06	PULS 4	152	0x0098	PMT	-	18.88	0.11	ORF Sport Plus
1064	0x0428	MPEG2 Video	-	3196.39	19.24	ServusTV	1061	0x0425	MPEG Audio	-	175.61	1.06	ORF Sport Plus	151	0x0097	PMT	-	18.88	0.11	3SAT
1055	0x041F	MPEG2 Video	-	3188.06	19.19	3SAT	1057	0x0421	MPEG Audio	-	175.61	1.06	3SAT	150	0x0096	PMT	-	18.88	0.11	PULS 4
1050	0x041A	MPEG2 Video	-	3079.65	18.54	PULS 4	1056	0x0420	MPEG Audio	-	175.53	1.06	3SAT	111	0x006F	PMT	-	18.88	0.11	Radio Maria
8191	0x1FFF	Null Packets	-	1477.70	8.90	N/A	1111	0x0457	MPEG Audio	-	138.02	0.83	Radio Maria	0	0x0000	PAT	-	3.71	0.02	N/A
1052	0x041C	Teletext	-	301.26	1.81	PULS 4	18	0x0012	EIT	-	132.66	0.80	N/A	21	0x0015	Network Sync	-	2.80	0.02	N/A
1058	0x0422	Teletext	-	301.18	1.81	3SAT	1069	0x042D	Private PES	-	37.68	0.23	ORF Sport Plus	17	0x0011	SDT	-	1.98	0.01	N/A
1068	0x042C	Teletext	-	263.67	1.59	ServusTV	1059	0x0423	Private PES	-	37.68	0.23	3SAT	16	0x0010	NIT	-	0.25	0.00	N/A
1067	0x042B	MPEG Audio	-	175.78	1.06	ServusTV	1169	0x0491	Private PES	-	37.60	0.23	ServusTV	20	0x0014	TOT	-	0.16	0.00	N/A

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www.transponderstream.com/DVB-T/AT/Vienna-Ch34-1109.ts

CN

China

DVB-T

CN

Network Name

SZTVM

Recording

TELE-satellite

Transmitter

Shenzhen Channel 52

Remark

DVB Tests

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	256	0x0100	MPEG Audio	-	104.40	1.32	SZTVM01	17	0x0011	SDT	-	22.54	0.29	N/A	
161	0x00A1	MPEG2 Video	-	2348.05	29.76	SZTVM02	92	0x005C	MPEG Audio	-	104.40	1.32	SZTVM04	16	0x0010	NIT	-	22.54	0.29	N/A
308	0x0134	MPEG2 Video	-	2235.69	28.33	SZTVM01	67	0x0043	PMT	-	22.54	0.29	SZTVM04	0	0x0000	PAT	-	22.54	0.29	N/A
163	0x00A3	MPEG2 Video	-	1397.22	17.71	SZTVM04	66	0x0042	PMT	-	22.54	0.29	SZTVM03	21	0x0015	Network Sync	-	2.48	0.03	N/A
162	0x00A2	MPEG2 Video	-	1309.02	16.59	SZTVM03	65	0x0041	PMT	-	22.54	0.29	SZTVM02	20	0x0014	TOT	-	0.34	0.00	N/A
84	0x0054	MPEG Audio	-	104.46	1.32	SZTVM02	33	0x0021	PMT	-	22.54	0.29	Data							
88	0x0058	MPEG Audio	-	104.43	1.32	SZTVM03	32	0x0020	PMT	-	22.54	0.29	SZTVM01							

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Receptor Digital de Satélite F11
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DE

Germany

DVB-T

DE

Network Name
Transmitter

ARD BAYERN
Munich Channel 54

Recording

TELE-satellite

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name	514	0x0202	MPEG Audio	-	203.71	1.61	Das Erste	524	0x020C	Private Sections	-	7.74	0.06	N/A
513	0x0201	MPEG2 Video	-	3445.16	27.19	Das Erste	98	0x0062	MPEG Audio	-	203.71	1.61	EinsPlus	108	0x006C	Private Sections	-	6.10	0.05	N/A
49	0x0031	MPEG2 Video	-	2844.51	22.45	Phoenix	50	0x0032	MPEG Audio	-	203.71	1.61	Phoenix	0	0x0000	PAT	-	5.47	0.04	N/A
33	0x0021	MPEG2 Video	-	2038.59	16.09	arte	35	0x0023	MPEG Audio	-	203.71	1.61	arte	1	0x0001	CAT	-	3.17	0.03	N/A
97	0x0061	MPEG2 Video	-	1889.14	14.91	EinsPlus	34	0x0022	MPEG Audio	-	203.71	1.61	arte	20	0x0014	TOT	-	3.02	0.02	N/A
18	0x0012	EIT	-	305.67	2.41	N/A	44	0x002C	Private Sections	-	9.29	0.07	N/A	21	0x0015	Network Sync	-	2.45	0.02	N/A
516	0x0204	Teletext	-	263.25	2.08	Das Erste	512	0x0200	PMT	-	8.59	0.07	Das Erste	60	0x003C	Private Sections	-	1.55	0.01	N/A
100	0x0064	Teletext	-	263.25	2.08	EinsPlus	96	0x0060	PMT	-	8.59	0.07	EinsPlus	16	0x0010	NIT	-	0.95	0.01	N/A
52	0x0034	Teletext	-	263.25	2.08	Phoenix	48	0x0030	PMT	-	8.59	0.07	Phoenix	17	0x0011	SDT	-	0.80	0.01	N/A
36	0x0024	Teletext	-	263.25	2.08	arte	32	0x0020	PMT	-	8.59	0.07	arte							

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DVB-T

DE

Network Name
Transmitter

BR
Munich Channel 56

Recording

TELE-satellite

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name	546	0x0222	MPEG Audio	-	203.66	1.60	Bayerisches FS Süd	3612	0x0E1C	Private Sections	-	6.25	0.05	N/A
561	0x0231	MPEG2 Video	-	3171.05	24.88	BR-alpha	562	0x0232	MPEG Audio	-	203.63	1.60	BR-alpha	0	0x0000	PAT	-	5.48	0.04	N/A
65	0x0041	MPEG2 Video	-	2720.55	21.35	EinsExtra	66	0x0042	MPEG Audio	-	203.63	1.60	EinsExtra	1	0x0001	CAT	-	3.15	0.02	N/A
545	0x0221	MPEG2 Video	-	2370.25	18.60	Bayerisches FS Süd	549	0x0225	MPEG Audio	-	133.16	1.04	Bayerisches FS Süd	556	0x022C	Private Sections	-	3.12	0.02	N/A
3601	0x0E11	MPEG2 Video	-	2345.96	18.41	SWR Fernsehen	555	0x022B	Private Data	-	26.98	0.21	Bayerisches FS Süd	572	0x023C	Private Sections	-	3.06	0.02	N/A
18	0x0012	EIT	-	299.95	2.35	N/A	560	0x0230	PMT	-	8.61	0.07	BR-alpha	554	0x022A	Private Data	-	3.03	0.02	Bayerisches FS Süd
3604	0x0E14	Teletext	-	263.17	2.06	SWR Fernsehen	544	0x0220	PMT	-	8.61	0.07	Bayerisches FS Süd	20	0x0014	TOT	-	3.00	0.02	N/A
564	0x0234	Teletext	-	263.17	2.06	BR-alpha	64	0x0040	PMT	-	8.61	0.07	EinsExtra	21	0x0015	Network Sync	-	2.48	0.02	N/A
548	0x0224	Teletext	-	263.17	2.06	Bayerisches FS Süd	3600	0x0E10	PMT	-	8.58	0.07	SWR Fernsehen	17	0x0011	SDT	-	0.86	0.01	N/A
3602	0x0E12	MPEG Audio	-	203.66	1.60	SWR Fernsehen	76	0x004C	Private Sections	-	7.66	0.06	N/A	16	0x0010	NIT	-	0.74	0.01	N/A

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HU

Hungary



Network Name

DTT Hungary

Recording

TELE-satellite

Transmitter

Budapest Channel 38

Remark

Radio

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	Transmitter	DTT Hungary	Recording	TELE-satellite
1011	0x03F3	H.264 Video	-	6650.33	29.96	m2 HD	1202 0x04B2 MPEG Audio - 132.30 0.60 Duna	1200 0x04B0 PMT - 15.03 0.07 Duna	
1001	0x03E9	H.264 Video	-	5549.83	25.00	m1 HD	1012 0x03F4 MPEG Audio - 132.30 0.60 m2 HD	1010 0x03F2 PMT - 15.03 0.07 m2 HD	
1211	0x04BB	H.264 Video	-	5450.87	24.55	Duna 2 HD	1002 0x03EA MPEG Audio - 132.30 0.60 m1 HD	1000 0x03E8 PMT - 15.03 0.07 m1 HD	
1201	0x04B1	H.264 Video	-	1573.21	7.09	Duna	1312 0x0520 AAC Audio - 102.69 0.46 MR2 Petofi Radio	0 0x0000 PAT - 15.03 0.07 N/A	
18	0x0012	EIT	-	521.11	2.35	N/A	1322 0x052A AAC Audio - 102.64 0.46 MR3 Bartok Radio	1700 0x06A4 PMT - 15.00 0.07 DataService_A	
1014	0x03F6	AC3 Audio	-	423.03	1.91	m2 HD	1302 0x0516 AAC Audio - 69.21 0.31 MR1 Kossuth Radio	17 0x0011 SDT - 3.00 0.01 N/A	
1004	0x03EC	AC3 Audio	-	423.03	1.91	m1 HD	1 0x0001 CAT - 15.06 0.07 N/A	21 0x0015 Network Sync - 2.46 0.01 N/A	
1214	0x04BE	AC3 Audio	-	423.00	1.91	Duna 2 HD	1320 0x0528 PMT - 15.03 0.07 MR3 Bartok Radio	16 0x0010 NIT - 0.93 0.00 N/A	
1003	0x03EB	Teletext	-	225.63	1.02	m1 HD	1310 0x051E PMT - 15.03 0.07 MR2 Petofi Radio	20 0x0014 TOT - 0.28 0.00 N/A	
1212	0x04BC	MPEG Audio	-	132.33	0.60	Duna 2 HD	1300 0x0514 PMT - 15.03 0.07 MR1 Kossuth Radio		
							1210 0x04BA PMT - 15.03 0.07 Duna 2 HD		

TELE-satellite Technical Service File Download for TELE-satellite Cooperation Partners Only

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Network Name

DTT Hungary

Recording

TELE-satellite

Transmitter

Budapest Channel 62

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	Transmitter	DTT Hungary	Recording	TELE-satellite
2131	0x0853	H.264 Video	-	2016.78	9.09	Euronews Teszt	2102 0x0836 AAC Audio \$ 68.10 0.31 ATV	2100 0x0834 PMT - 15.03 0.07 ATV	
2061	0x080D	H.264 Video	\$	1826.25	8.23	Disney Channel	2122 0x084A AAC Audio \$ 67.99 0.31 Sportklub	2099 0x0833 ECM/EMM - 15.03 0.07 Private Spice	
2121	0x0849	H.264 Video	\$	1611.13	7.26	Sportklub	2132 0x0854 AAC Audio - 67.96 0.31 Euronews Teszt	2090 0x082A PMT - 15.03 0.07 Private Spice	
2011	0x07DB	H.264 Video	-	1552.19	7.00	TV2	2082 0x0822 AAC Audio \$ 67.96 0.31 FEM3	2089 0x0829 ECM/EMM - 15.03 0.07 FEM3	
2001	0x07D1	H.264 Video	-	1552.19	7.00	RTL Klub	2074 0x081A AAC Audio \$ 67.91 0.31 AXN	2080 0x0820 PMT - 15.03 0.07 FEM3	
2021	0x07E5	H.264 Video	\$	1393.41	6.28	Cool	2136 0x0858 AAC Audio - 67.85 0.31 Euronews Teszt	2079 0x081F ECM/EMM - 15.03 0.07 AXN	
2101	0x0835	H.264 Video	\$	1375.96	6.20	ATV	2134 0x0856 AAC Audio - 67.85 0.31 Euronews Teszt	2070 0x0816 PMT - 15.03 0.07 AXN	
2081	0x0821	H.264 Video	\$	1212.13	5.46	FEM3	2112 0x0840 AAC Audio \$ 67.85 0.31 HirTV	2069 0x0815 ECM/EMM - 15.03 0.07 Disney Channel	
2041	0x07F9	H.264 Video	\$	1158.78	5.22	HBO	2032 0x07F0 AAC Audio \$ 67.85 0.31 Film+	2060 0x080C PMT - 15.03 0.07 Disney Channel	
2031	0x07EF	H.264 Video	\$	1092.65	4.93	Film+	2022 0x07E6 AAC Audio \$ 67.85 0.31 Cool	2059 0x080B ECM/EMM - 15.03 0.07 National Geographic	
2111	0x083F	H.264 Video	\$	919.30	4.14	HirTV	2012 0x07DC AAC Audio - 67.85 0.31 TV2	2050 0x0802 PMT - 15.03 0.07 National Geographic	
2051	0x0803	H.264 Video	\$	905.75	4.08	National Geographic	2002 0x07D2 AAC Audio - 67.85 0.31 RTL Klub	2049 0x0801 ECM/EMM - 15.03 0.07 HBO	
2071	0x0817	H.264 Video	\$	804.19	3.63	AXN	2072 0x0818 AAC Audio \$ 67.80 0.31 AXN	2040 0x07F8 PMT - 15.03 0.07 HBO	
18	0x0012	EIT	-	531.62	2.40	N/A	2064 0x0810 AAC Audio \$ 67.75 0.31 Disney Channel	2039 0x07F7 ECM/EMM - 15.03 0.07 Film+	
2141	0x085D	H.264 Video	-	530.07	2.39	Info csatorna	2062 0x080E AAC Audio \$ 67.75 0.31 Disney Channel	2030 0x07EE PMT - 15.03 0.07 Film+	
2046	0x07FE	AC3 Audio	\$	422.53	1.90	HBO	2054 0x0806 AAC Audio \$ 67.55 0.30 National Geographic	2029 0x07ED ECM/EMM - 15.03 0.07 Cool	
2013	0x07DD	Teletext	-	300.79	1.36	TV2	2052 0x0804 AAC Audio \$ 67.55 0.30 National Geographic	2020 0x07E4 PMT - 15.03 0.07 Cool	
2003	0x07D3	Teletext	-	225.63	1.02	RTL Klub	2092 0x082C AAC Audio \$ 66.11 0.30 Private Spice	2010 0x07DA PMT - 15.03 0.07 TV2	
2091	0x082B	H.264 Video	\$	224.02	1.01	Private Spice	1 0x0001 CAT - 15.05 0.07 N/A	2000 0x07D0 PMT - 15.03 0.07 RTL Klub	
2113	0x0841	Teletext	\$	188.02	0.85	HirTV	2700 0x0A8C PMT - 15.03 0.07 DataService_C	0 0x0000 PAT - 15.03 0.07 N/A	
2103	0x0837	Teletext	\$	188.02	0.85	ATV	2200 0x0898 PMT - 15.03 0.07 Neo FM	2119 0x0847 ECM/EMM - 15.00 0.07 HirTV	
2043	0x07FB	Teletext	\$	112.77	0.51	HBO	2140 0x085C PMT - 15.03 0.07 Info csatorna	17 0x0011 SDT - 6.00 0.03 N/A	
2042	0x07FA	AAC Audio	\$	101.37	0.46	HBO	2130 0x0852 PMT - 15.03 0.07 Euronews Teszt	2075 0x081B DVB Subtitles \$ 3.03 0.01 AXN	
2044	0x07FC	AAC Audio	\$	101.26	0.46	HBO	2129 0x0851 ECM/EMM - 15.03 0.07 Sportklub	21 0x0015 Network Sync - 2.45 0.01 N/A	
5000	0x1388	ECM/EMM	-	83.40	0.38	N/A	2120 0x0848 PMT - 15.03 0.07 Sportklub	16 0x0010 NIT - 0.90 0.00 N/A	
2202	0x089A	AAC Audio	-	69.27	0.31	Info csatorna	2110 0x083E PMT - 15.03 0.07 HirTV	20 0x0014 TOT - 0.33 0.00 N/A	
							2109 0x083D ECM/EMM - 15.03 0.07 ATV		

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IL

Israel



Network Name

Harashut Hashnia

Recording

Benjamin Ganor

Transmitter

Eilat Channel 29

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	Transmitter	Harashut Hashnia	Recording	Benjamin Ganor
2561	0x0A01	H.264 Video	-	3044.07	22.93	Ch 1	2690 0x0A82 AAC Audio - 52.89 0.40 Ch 99	2608 0x0A30 DVB Subtitles - 9.23 0.07 Ch 2	
2657	0x0A61	H.264 Video	-	3039.96	22.89	Ch 33	94 0x005E PCR - 45.13 0.34 N/A	17 0x0011 SDT - 6.05 0.05 N/A	
2625	0x0A41	H.264 Video	-	2889.05	21.76	Ch 10	2817 0x0B01 AAC Audio - 36.66 0.28 R01	2610 0x0A32 DVB Subtitles - 3.58 0.03 Ch 2	
2593	0x0A21	H.264 Video	-	2295.87	17.29	Ch 2	2993 0x0BB1 AAC Audio - 36.57 0.28 R12	2609 0x0A31 DVB Subtitles - 3.58 0.03 Ch 2	
2689	0x0A81	H.264 Video	-	1062.76	8.00	Ch 99	0 0x0000 PAT - 30.09 0.23 N/A	2642 0x0A52 DVB Subtitles - 3.15 0.02 Ch 10	
8191	0x1FFF	Null Packets	-	261.74	1.97	N/A	2992 0x0B80 PMT - 10.04 0.08 R12	2641 0x0A51 DVB Subtitles - 3.15 0.02 Ch 10	
18	0x0012	EIT	-	160.12	1.21	N/A	2816 0x0B00 PMT - 10.04 0.08 R01	2640 0x0A50 DVB Subtitles - 3.15 0.02 Ch 10	
2658	0x0A62	AAC Audio	-	53.19	0.40	Ch 33	2688 0x0A80 PMT - 10.04 0.08 Ch 99	20 0x0014 TOT - 3.03 0.02 N/A	
2594	0x0A22	AAC Audio	-	53.12	0.40	Ch 2	2624 0x0A40 PMT - 10.04 0.08 Ch 10	16 0x0010 NIT - 3.03 0.02 N/A	
2562	0x0A02	AAC Audio	-	53.09	0.40	Ch 1	2592 0x0A20 PMT - 10.04 0.08 Ch 2	21 0x0015 Network Sync - 2.48 0.02 N/A	
2626	0x0A42	AAC Audio	-	53.04	0.40	Ch 10	2560 0x0A00 PMT - 10.04 0.08 Ch 1		
							2656 0x0A60 PMT - 10.03 0.08 Ch 33		

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NL

The Netherlands

DVB-T

NL

Network Name

Digitenne

Recording

TELE-satellite

Transmitter

Amsterdam Channel 27

Remark

Radio

PID	Hex PID	Stream	Type	Encrypted	kbps	%	Service Name	Transmitter	Amsterdam	Channel	27	Digitenne	Recording	TELE-satellite
4041	0x0FC9	MPEG2 Video	-	2682.41	22.44		TV Drenthe tijdelijk	4042	0x0FCA	MPEG Audio	-	165.78	1.39	TV Drenthe tijdelijk
4011	0x0FAB	MPEG2 Video	-	2552.21	21.36		Nickelodeon/TeenNick	4112	0x1010	MPEG Audio	-	165.58	1.39	BBC Radio 1
4031	0x0FBF	MPEG2 Video	-	2484.09	20.79		SLAM!TV	182	0x00B6	ECM/EMM	-	98.73	0.83	N/A
4021	0x0FB5	MPEG2 Video	-	1918.51	16.05		13th Street	18	0x0012	EIT	-	83.55	0.70	N/A
4043	0x0FCB	Teletext	-	297.96	2.49		TV Drenthe tijdelijk	20	0x0014	TOT	-	20.01	0.17	N/A
4013	0x0FAD	Teletext	-	223.62	1.87		Nickelodeon/TeenNick	4139	0x102B	ECM/EMM	-	15.17	0.13	BBC Radio 3
4012	0x0FAC	MPEG Audio	-	166.37	1.39		Nickelodeon/TeenNick	4119	0x1017	ECM/EMM	-	15.17	0.13	BBC Radio 1
4122	0x101A	MPEG Audio	-	166.18	1.39		BBC Radio 2	4039	0x0FC7	ECM/EMM	-	15.17	0.13	SLAM!TV
4032	0x0FC0	MPEG Audio	-	166.11	1.39		SLAM!TV	4029	0x0FBD	ECM/EMM	-	15.17	0.13	13th Street
4022	0x0FB6	MPEG Audio	-	166.11	1.39		13th Street	4019	0x0FB3	ECM/EMM	-	15.17	0.13	Nickelodeon/TeenNick
4142	0x102E	MPEG Audio	-	165.98	1.39		BBC Radio 4	4149	0x1035	ECM/EMM	-	15.11	0.13	BBC Radio 4
4132	0x1024	MPEG Audio	-	165.91	1.39		BBC Radio 3	4129	0x1021	ECM/EMM	-	15.11	0.13	BBC Radio 2
								4140	0x102C	PMT	-	15.04	0.13	BBC Radio 4

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PL
Poland

PL
Network Name
TP EmiTel
Recording
Jacek Pawlowski
Transmitter
Poznan Channel 46

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name
8191	0x1FFF	Null Packets	-	3521.45	14.15
802	0x0322	H.264 Video	-	3277.97	13.17
202	0x00CA	H.264 Video	-	2936.74	11.80
502	0x01F6	H.264 Video	-	2563.76	10.30
102	0x0066	H.264 Video	-	2154.60	8.65
302	0x012E	H.264 Video	-	2149.47	8.63
702	0x02BE	H.264 Video	-	1817.12	7.30
402	0x0192	H.264 Video	-	1563.09	6.28
602	0x025A	H.264 Video	-	819.43	3.29
18	0x0012	EIT	-	571.33	2.30
204	0x00CC	AC3 Audio	-	459.22	1.84
504	0x01F8	AC3 Audio	-	393.62	1.58
305	0x0131	Teletext	-	225.72	0.91

205	0x00CD	Teletext	-	225.71	0.91	TVN
105	0x0069	Teletext	-	225.71	0.91	Polsat
505	0x01F9	Teletext	-	225.69	0.91	TVN Siedem
803	0x0323	MPEG Audio	-	196.82	0.79	Polsat Sport News
403	0x0193	MPEG Audio	-	196.82	0.79	TV Puls
303	0x012F	MPEG Audio	-	196.82	0.79	TV4
703	0x02BF	MPEG Audio	-	196.80	0.79	TV6
603	0x025B	MPEG Audio	-	196.80	0.79	PULS 2
503	0x01F7	MPEG Audio	-	196.80	0.79	TVN Siedem
203	0x00CB	MPEG Audio	-	196.80	0.79	TVN
103	0x0067	MPEG Audio	-	196.80	0.79	Polsat
106	0x006A	DVB Subtitles	-	38.60	0.16	Polsat
701	0x02BD	PMT	-	14.95	0.06	TV6
601	0x0259	PMT	-	14.95	0.06	PULS 2

801	0x0321	PMT	-	14.93	0.06	Polsat Sport News
501	0x01F5	PMT	-	14.93	0.06	TVN Siedem
401	0x0191	PMT	-	14.93	0.06	TV Puls
301	0x012D	PMT	-	14.93	0.06	TV4
201	0x00C9	PMT	-	14.93	0.06	TVN
101	0x0065	PMT	-	14.93	0.06	Polsat
0	0x0000	PAT	-	14.93	0.06	N/A
506	0x01FA	DVB Subtitles	-	3.78	0.02	TVN Siedem
206	0x00CE	DVB Subtitles	-	3.78	0.02	TVN
17	0x0011	SDT	-	3.02	0.01	N/A
20	0x0014	TOT	-	3.01	0.01	N/A
21	0x0015	Network Sync	-	2.46	0.01	N/A
16	0x0010	NIT	-	0.19	0.00	N/A

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PT
Portugal

PT
Network Name
1101
Recording
Vitor Martins Augusto
Transmitter
Porto Channel 56

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name
8191	0x1FFF	Null Packets	-	6271.02	31.43
512	0x0200	H.264 Video	-	4723.41	23.67
256	0x0100	H.264 Video	-	2495.07	12.50
1024	0x0400	H.264 Video	-	2373.95	11.90
768	0x0300	H.264 Video	-	1935.72	9.70
3840	0x0F00	H.264 Video	-	501.31	2.51
35	0x0023	Teletext	-	263.93	1.32
34	0x0022	Teletext	-	226.16	1.13

18	0x0012	EIT	-	218.33	1.09	N/A
33	0x0021	Teletext	-	188.40	0.94	RTP 2
32	0x0020	Teletext	-	188.40	0.94	RTP 1
513	0x0201	AAC Audio	-	104.14	0.52	RTP 2
1025	0x0401	AAC Audio	-	103.89	0.52	TVI
257	0x0101	AAC Audio	-	103.81	0.52	RTP 1
769	0x0301	AAC Audio	-	103.48	0.52	SIC
0	0x0000	PAT	-	25.07	0.13	N/A
3856	0x0F10	PMT	-	24.32	0.12	HD

1040	0x0410	PMT	-	24.32	0.12	TVI
784	0x0310	PMT	-	24.32	0.12	SIC
528	0x0210	PMT	-	24.32	0.12	RTP 2
272	0x0110	PMT	-	24.32	0.12	RTP 1
20	0x0014	TOT	-	2.64	0.01	N/A
21	0x0015	Network Sync	-	2.47	0.01	N/A
16	0x0010	NIT	-	1.15	0.01	N/A
17	0x0011	SDT	-	0.74	0.00	N/A

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UK
United Kingdom

UK
Network Name
London.
Recording
TELE-satellite
Transmitter
London Channel 29
Remark
MHEG

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name
601	0x0259	MPEG2 Video	-	2076.92	11.59
201	0x00C9	MPEG2 Video	-	2055.00	11.46
101	0x0065	MPEG2 Video	-	2023.19	11.29
2101	0x0835	MPEG2 Video	-	1988.94	11.10
301	0x012D	MPEG2 Video	-	1769.96	9.87
701	0x02BD	MPEG2 Video	-	1746.56	9.74
2391	0x0957	MPEG2 Video	-	1653.11	9.22
501	0x01F5	MPEG2 Video	-	1556.10	8.68
18	0x0012	EIT	-	428.38	2.39
3010	0x0BC2	MHEG	-	208.33	1.16
702	0x02BE	MPEG Audio	-	137.96	0.77
2392	0x0958	MPEG Audio	-	137.94	0.77
2102	0x0836	MPEG Audio	-	137.94	0.77
602	0x025A	MPEG Audio	-	137.94	0.77
502	0x01F6	MPEG Audio	-	137.94	0.77
302	0x012E	MPEG Audio	-	137.94	0.77
202	0x00CA	MPEG Audio	-	137.94	0.77
102	0x0066	MPEG Audio	-	137.94	0.77
1901	0x076D	MPEG Audio	-	135.86	0.76
1801	0x0709	MPEG Audio	-	135.86	0.76
1101	0x044D	MPEG Audio	-	135.86	0.76
1201	0x04B1	MPEG Audio	-	94.07	0.52
1501	0x05DD	MPEG Audio	-	94.04	0.52
1701	0x06A5	MPEG Audio	-	94.02	0.52
1301	0x0515	MPEG Audio	-	94.02	0.52
1401	0x0579	MPEG Audio	-	70.00	0.39

1601	0x0641	MPEG Audio	-	69.98	0.39	Premier Radio
105	0x0069	MHEG	-	47.64	0.27	4Music
3022	0x0BCE	Data	-	15.44	0.09	Channel Zero
3021	0x0BCD	Data	-	12.38	0.07	Channel Zero
2346	0x092A	MHEG	-	10.18	0.06	ADULT Babestn
303	0x012F	DVB Subtitles	-	9.17	0.05	Yesterday
103	0x0067	DVB Subtitles	-	8.51	0.05	4Music
2376	0x0948	MHEG	-	7.77	0.04	Al Jazeera Eng
1042	0x0412	PMT	-	7.55	0.04	QVC Beauty
1030	0x0406	PMT	-	7.55	0.04	Smash Hits!
1017	0x03F9	PMT	-	7.55	0.04	ADULT smileTV2
1041	0x0411	PMT	-	7.52	0.04	Channel Zero
1040	0x0410	PMT	-	7.52	0.04	Premier Radio
1039	0x040F	PMT	-	7.52	0.04	Sky Text
1037	0x040D	PMT	-	7.52	0.04	ITV4
1035	0x040B	PMT	-	7.52	0.04	Rocks & Co 1
1033	0x0409	PMT	-	7.52	0.04	Al Jazeera Eng
1032	0x0408	PMT	-	7.52	0.04	ADULT Section
1029	0x0405	PMT	-	7.52	0.04	Q
1028	0x0404	PMT	-	7.52	0.04	Magic
1027	0x0403	PMT	-	7.52	0.04	The Hits Radio
1024	0x0400	PMT	-	7.52	0.04	SMOOTH RADIO
1023	0x03FF	PMT	-	7.52	0.04	Kerrang!
1022	0x03FE	PMT	-	7.52	0.04	heat
1021	0x03FD	PMT	-	7.52	0.04	Kiss
1018	0x03FA	PMT	-	7.52	0.04	ADULT Section
1016	0x03F8	PMT	-	7.52	0.04	Russia Today

1008	0x03F0	PMT	-	7.52	0.04	Film4
1005	0x03ED	PMT	-	7.52	0.04	Ideal World
1003	0x03EB	PMT	-	7.52	0.04	Yesterday
1002	0x03EA	PMT	-	7.52	0.04	VIVA
1001	0x03E9	PMT	-	7.52	0.04	4Music
0	0x0000	PAT	-	7.52	0.04	N/A
1036	0x040C	PMT	-	6.88	0.04	ADULT Babestn
17	0x0011	SDT	-	6.51	0.04	N/A
2336	0x0920	MHEG	-	5.77	0.03	Rocks & Co 1
1802	0x070A	MHEG	-	5.77	0.03	Magic
1602	0x0642	MHEG	-	5.77	0.03	Premier Radio
1402	0x057A	MHEG	-	5.77	0.03	SMOOTH RADIO
1202	0x04B2	MHEG	-	5.77	0.03	heat
1102	0x044E	MHEG	-	5.77	0.03	Kiss
516	0x0204	MHEG	-	5.77	0.03	ADULT smileTV2
603	0x025B	DVB Subtitles	-	5.40	0.03	ITV4
2116	0x0844	MHEG	-	5.01	0.03	ADULT Section
1902	0x076E	MHEG	-	5.01	0.03	Q
1702	0x06A6	MHEG	-	5.01	0.03	The Hits Radio
1302	0x0516	MHEG	-	5.01	0.03	Kerrang!
1502	0x05DE	MHEG	-	4.51	0.03	Smash Hits!
3012	0x0BC4	Data	-	3.01	0.02	Sky Text
20	0x0014	TOT	-	3.01	0.02	N/A
3020	0x0BCC	Data	-	1.18	0.01	Channel Zero
16	0x0010	NIT	-	1.18	0.01	N/A
3023	0x0BCF	Data	-	0.20	0.00	Channel Zero

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France

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Email: contact@oipf.tv
Website: www.oipf.tv

DVB-T

UK

Network Name

London.

Recording

TELE-satellite

Transmitter

London Channel 28

Remark

MHEG

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name	305	0x0131	Data	-	81.00	0.48	303	702	0x02BE	PMT	-	7.90	0.05	BBC FOUR
204	0x00CC	MPEG2 Video	\$	4725.64	27.88	Sky Sports 2	4147	0x1033	ECM/EMM	-	48.81	0.29	N/A	1	0x0001	CAT	-	7.14	0.04	N/A
201	0x00C9	MPEG2 Video	-	2958.53	17.45	CBeebies	1203	0x04B3	ECM/EMM	-	15.04	0.09	Sky Sports 2	17	0x0011	SDT	-	6.01	0.04	N/A
202	0x00CA	MPEG2 Video	\$	2187.05	12.90	Sky Sports 1	1202	0x04B2	ECM/EMM	-	15.04	0.09	Sky Sports 2	605	0x025D	DVB Subtitles	-	3.00	0.02	BBC Parliament
205	0x00CD	MPEG2 Video	-	1229.36	7.25	BBC Parliament	1201	0x04B1	ECM/EMM	-	15.04	0.09	Sky Sports 2	603	0x025B	DVB Subtitles	-	3.00	0.02	Sky Sports 2
301	0x012D	Data	-	949.95	5.60	303	1103	0x044F	ECM/EMM	-	15.04	0.09	Sky Sports 1	602	0x025A	DVB Subtitles	-	3.00	0.02	Sky Sports 1
203	0x00CB	MPEG2 Video	-	891.57	5.26	_Service 19456	1102	0x044E	ECM/EMM	-	15.04	0.09	Sky Sports 1	330	0x014A	MHEG	-	3.00	0.02	BBC Parliament
18	0x0012	EIT	-	426.65	2.52	N/A	1101	0x044D	ECM/EMM	-	15.04	0.09	Sky Sports 1	312	0x0138	MHEG	-	3.00	0.02	303
401	0x0191	MPEG Audio	-	263.17	1.55	CBeebies	601	0x0259	DVB Subtitles	-	14.01	0.08	CBeebies	309	0x0135	Data	-	3.00	0.02	CBeebies
439	0x01B7	MPEG Audio	-	200.55	1.18	BBC Radio 4	4150	0x1036	ECM/EMM	-	9.99	0.06	N/A	308	0x0134	MHEG	-	3.00	0.02	CBeebies
438	0x01B6	MPEG Audio	-	200.53	1.18	BBC Radio 3	715	0x02CB	PMT	-	7.93	0.05	BBC Radio 1	307	0x0133	MHEG	-	3.00	0.02	BBC FOUR
437	0x01B5	MPEG Audio	-	200.53	1.18	BBC Radio 2	711	0x02C7	PMT	-	7.93	0.05	Sky Sports 2	306	0x0132	Data	-	3.00	0.02	BBC FOUR
436	0x01B4	MPEG Audio	-	200.53	1.18	BBC Radio 1	703	0x02BF	PMT	-	7.93	0.05	CBeebies	20	0x0014	TOT	-	3.00	0.02	N/A
407	0x0197	MPEG Audio	-	198.41	1.17	_Service 19456	701	0x02BD	PMT	-	7.93	0.05	Sky Sports 1	314	0x013A	MHEG	-	2.98	0.02	_Service 19456
434	0x01B2	MPEG Audio	-	167.10	0.99	BBC R1X	0	0x0000	PAT	-	7.93	0.05	N/A	209	0x00D1	Private Sections	-	1.18	0.01	N/A
432	0x01B0	MPEG Audio	-	167.10	0.99	BBC 6 Music	719	0x02CF	PMT	-	7.90	0.05	BBC World Sv.	16	0x0010	NIT	-	1.18	0.01	N/A
433	0x01B1	MPEG Audio	-	167.08	0.99	BBC Radio 4 Ex	718	0x02CE	PMT	-	7.90	0.05	BBC Radio 4	334	0x014E	MHEG	-	0.52	0.00	BBC Radio 3
303	0x012F	Data	-	149.99	0.88	303	717	0x02CD	PMT	-	7.90	0.05	BBC Radio 3	333	0x014D	MHEG	-	0.52	0.00	BBC Radio 2
302	0x012E	Data	-	149.97	0.88	303	716	0x02CC	PMT	-	7.90	0.05	BBC Radio 2	322	0x0142	MHEG	-	0.52	0.00	BBC 6 Music
435	0x01B3	MPEG Audio	-	135.79	0.80	BBC Asian Net.	714	0x02CA	PMT	-	7.90	0.05	BBC Parliament	321	0x0141	MHEG	-	0.52	0.00	BBC Asian Net.
421	0x01A5	MPEG Audio	-	132.30	0.78	BBC Parliament	712	0x02C8	PMT	-	7.90	0.05	303	336	0x0150	MHEG	-	0.49	0.00	BBC World Sv.
411	0x019B	MPEG Audio	\$	132.30	0.78	Sky Sports 2	710	0x02C6	PMT	-	7.90	0.05	_Service 19456	335	0x014F	MHEG	-	0.49	0.00	BBC Radio 4
408	0x0198	MPEG Audio	-	132.30	0.78	_Service 19456	709	0x02C5	PMT	-	7.90	0.05	BBC Asian Net.	332	0x014C	MHEG	-	0.49	0.00	BBC Radio 1
403	0x0193	MPEG Audio	\$	132.30	0.78	Sky Sports 1	708	0x02C4	PMT	-	7.90	0.05	BBC R1X	324	0x0144	MHEG	-	0.49	0.00	BBC Radio 4 Ex
440	0x01B8	MPEG Audio	-	101.83	0.60	BBC World Sv.	707	0x02C3	PMT	-	7.90	0.05	BBC Radio 4 Ex	323	0x0143	MHEG	-	0.49	0.00	BBC R1X
431	0x01AF	MPEG Audio	-	101.83	0.60	BBC R5SX	706	0x02C2	PMT	-	7.90	0.05	BBC 6 Music	320	0x0140	MHEG	-	0.49	0.00	BBC R5SX
430	0x01AE	MPEG Audio	-	101.83	0.60	BBC R5L	705	0x02C1	PMT	-	7.90	0.05	BBC R5SX	319	0x013F	MHEG	-	0.49	0.00	BBC R5L
304	0x0130	Data	-	100.00	0.59	303	704	0x02C0	PMT	-	7.90	0.05	BBC R5L							

TELE-satellite Technical Service File Download for TELE-satellite Cooperation Partners Only

Duration: 1 Min, File Size: 123 MB

ts.TELE-satellite.com/DVB-T/UK/London-Ch29-1107.ts

DVB-T					UK	Network Name	London.	Recording	TELE-satellite
PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	Transmitter	London Channel 32	Remark	MHEG
521	0x0209	MPEG2 Video	-	2767.19	11.65	Challenge	6904 0x1AF8 MHEG	-	7.53 0.03 QUEST
6273	0x1881	MPEG2 Video	-	2602.78	10.96	bid tv	7089 0x1B81 Data	-	7.53 0.03 1-2-1 Dating
6689	0x1A21	MPEG2 Video	-	2225.50	9.37	5 USA	6354 0x18D2 MPEG Audio	-	7.53 0.03 MOBILIZER
5381	0x1505	DVB Subtitles	\$	1898.58	8.00	TOPUP Anytime1	7076 0x1BA4 Audio	-	7.53 0.03 CITV
6049	0x17A1	MPEG2 Video	-	1886.30	7.94	QVC	4147 0x1033 ECM/EMM	-	7.53 0.03 QVC
6737	0x1A51	MPEG2 Video	\$	1812.19	7.63	TOPUP Anytime3	6522 0x197A Data	-	7.50 0.03 ADULT Section
6596	0x19C4	MPEG2 Video	-	1753.07	7.38	5*	7068 0x1B9C MHEG	-	7.50 0.03 ADULT redhotTV
6833	0x1AB1	MPEG2 Video	-	1699.69	7.16	CITV	7081 0x1BA9 Private PES	-	7.50 0.03 TOPUP Anytime2
6929	0x1B11	MPEG2 Video	-	1628.73	6.86	QUEST	6908 0x1AFC MHEG	-	7.50 0.03 TOPUP Anytime1
6881	0x1AE1	MPEG2 Video	-	1470.72	6.19	ITV3	6521 0x1979 Data	-	7.50 0.03 ITV3
18	0x0012	EIT	-	623.79	2.63	N/A	2870 0x0B36 ECM/EMM	-	7.50 0.03 Television X
6361	0x18D9	Data	-	250.07	1.05	Teletext Hols	2868 0x0B34 ECM/EMM	-	7.50 0.03 bid tv
6056	0x17A8	MHEG	-	249.14	1.05	QVC	0 0x0000 PAT	-	6.55 0.03 N/A
7084	0x1BAC	DVB Subtitles	\$	135.81	0.57	TOPUP Anytime1	6886 0x1AE6 DVB Subtitles	-	4.99 0.02 Gems TV
6738	0x1A52	MPEG Audio	\$	135.81	0.57	TOPUP Anytime3	7074 0x1BA2 MHEG	-	4.99 0.02 ADULT Filth
6674	0x1A12	MPEG Audio	-	135.81	0.57	5*	4150 0x1036 ECM/EMM	-	4.99 0.02 ADULT redhotTV
6274	0x1882	MPEG Audio	-	135.81	0.57	bid tv	6480 0x1950 MHEG	-	4.99 0.02 ITV2 +1
6114	0x17E2	MPEG Audio	-	135.81	0.57	Capital FM	395 0x18B8 PMT	-	4.99 0.02 bid tv
6098	0x17D2	MPEG Audio	-	135.81	0.57	Heart	392 0x1888 PMT	-	4.99 0.02 ADULT Section
6082	0x17C2	MPEG Audio	-	135.81	0.57	Absolute Radio	391 0x1878 PMT	-	4.99 0.02 Capital FM
6050	0x17A2	MPEG Audio	-	135.81	0.57	QVC	390 0x1868 PMT	-	4.99 0.02 Heart
6930	0x1B12	MPEG Audio	-	135.79	0.57	QUEST	388 0x1834 PMT	-	4.99 0.02 Absolute Radio
6882	0x1AE2	MPEG Audio	-	135.79	0.57	ITV3	387 0x1833 PMT	-	4.99 0.02 N/A
6834	0x1AB2	MPEG Audio	-	135.79	0.57	CITV	385 0x1818 PMT	-	3.02 0.01 Teletext Hols
6690	0x1A22	MPEG Audio	-	135.79	0.57	5 USA	382 0x17FE PMT	-	3.02 0.01 N/A
659	0x0293	MPEG Audio	-	135.79	0.57	Challenge	290 0x0122 PMT	-	1.17 0.00 N/A
6883	0x1AE3	MPEG Audio	-	73.13	0.31	ITV3	284 0x011C PMT	-	0.54 0.00 5 USA
6835	0x1AB3	MPEG Audio	-	73.13	0.31	CITV	279 0x0117 PMT	-	0.54 0.00 5*
6691	0x1A23	MPEG Audio	-	73.13	0.31	5 USA	276 0x0114 PMT	-	0.32 0.00 CITV
6675	0x1A13	MPEG Audio	-	73.11	0.31	5*	275 0x0113 PMT	-	0.29 0.00 QUEST
669	0x029D	MPEG Audio	-	73.11	0.31	Challenge	270 0x010E PMT	-	
							268 0x010C PMT	-	

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DVB-T					UK	Network Name	London.	Recording	TELE-satellite
PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	Transmitter	London Channel 67	Remark	MHEG
2401	0x0961	MPEG2 Video	\$	3246.36	13.71	Sky Sports 1	105 0x0069 MHEG	-	7.49 0.03 Ideal World
2501	0x09C5	MPEG2 Video	\$	2796.63	11.81	Sky Sports 2	5000 0x1388 ECM/EMM	-	7.49 0.03 Yesterday
601	0x0259	MPEG2 Video	-	2375.20	10.03	ITV4	3022 0x0BCE Data	-	7.49 0.03 4Music
701	0x02BD	MPEG2 Video	-	1947.39	8.22	Film4	2527 0x09DF ECM/EMM	-	7.49 0.03 N/A
2101	0x0835	MPEG2 Video	-	1820.30	7.68	Russia Today	2517 0x09D5 ECM/EMM	-	7.47 0.03 SMOOTH RADIO
101	0x0065	MPEG2 Video	-	1753.24	7.40	4Music	2507 0x09CB ECM/EMM	-	7.47 0.03 Sky Sports 1
301	0x012D	MPEG2 Video	-	1700.80	7.18	Yesterday	2427 0x097B ECM/EMM	-	7.45 0.03 Al Jazeera Eng
501	0x01F5	MPEG2 Video	-	1659.45	7.01	Ideal World	2417 0x0971 ECM/EMM	-	7.45 0.03 Kiss
2391	0x0957	MPEG2 Video	-	1600.37	6.76	QVC Beauty	2407 0x0967 ECM/EMM	-	7.45 0.03 VIVA
201	0x00C9	MPEG2 Video	-	1477.78	6.24	VIVA	2503 0x09C7 DVB Subtitles	-	6.93 0.03 N/A
18	0x0012	EIT	-	465.92	1.97	N/A	3021 0x0BCD Data	-	6.83 0.03 ADULT Babestn
2502	0x09C6	MPEG Audio	\$	137.41	0.58	Sky Sports 2	2346 0x092A MHEG	-	6.76 0.03 Sky Sports 1
2102	0x0836	MPEG Audio	-	137.41	0.58	Russia Today	603 0x025B DVB Subtitles	-	6.19 0.03 VIVA
602	0x025A	MPEG Audio	-	137.34	0.58	ITV4	2376 0x0948 MHEG	-	5.75 0.02 Rocks & Co 1
202	0x00CA	MPEG Audio	-	137.31	0.58	VIVA	1023 0x03FF PMT	-	5.73 0.02 Magic
502	0x01F6	MPEG Audio	-	137.29	0.58	Ideal World	1042 0x0412 PMT	-	5.73 0.02 Premier Radio
302	0x012E	MPEG Audio	-	137.29	0.58	Yesterday	1041 0x0411 PMT	-	5.73 0.02 Kiss
102	0x0066	MPEG Audio	-	137.26	0.58	4Music	1040 0x0410 PMT	-	5.70 0.02 heat
2392	0x0958	MPEG Audio	-	137.12	0.58	QVC Beauty	1037 0x040D PMT	-	5.68 0.02 SMOOTH RADIO
702	0x02BE	MPEG Audio	-	137.12	0.58	Film4	1035 0x040B PMT	-	5.68 0.02 ADULT smileTV2
2402	0x0962	MPEG Audio	\$	137.09	0.58	Sky Sports 1	1032 0x0408 PMT	-	4.99 0.02 Q
1901	0x076D	MPEG Audio	-	135.25	0.57	Q	1030 0x0406 PMT	-	4.99 0.02 The Hits Radio
1801	0x0709	MPEG Audio	-	135.20	0.57	Magic	1029 0x0405 PMT	-	4.96 0.02 N/A
1101	0x044D	MPEG Audio	-	135.08	0.57	Kiss	1028 0x0404 PMT	-	4.94 0.02 ADULT Section
1201	0x04B1	MPEG Audio	-	93.65	0.40	heat	1027 0x0403 PMT	-	4.94 0.02 Kerrang!
1301	0x0515	MPEG Audio	-	93.60	0.40	Kerrang!	1022 0x03FE PMT	-	4.52 0.02 Smash Hits!
1701	0x06A5	MPEG Audio	-	93.50	0.39	The Hits Radio	1018 0x03FA PMT	-	3.00 0.01 N/A
1501	0x05DD	MPEG Audio	-	93.47	0.39	Smash Hits!	1017 0x03F9 PMT	-	1.33 0.01 N/A
1401	0x0579	MPEG Audio	-	69.71	0.29	SMOOTH RADIO	1016 0x03F8 PMT	-	1.23 0.01 Channel Zero
1601	0x0641	MPEG Audio	-	69.66	0.29	Premier Radio	1011 0x03F3 PMT	-	0.54 0.00 Yesterday
							1008 0x03F0 PMT	-	0.20 0.00 Channel Zero

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**UK****Network Name****South West****Recording****Andy Middleton****Transmitter****Plymouth Channel 45**

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name
401	0x0191	MPEG2 Video	-	4592.51	19.41	CBeebies
201	0x00C9	MPEG2 Video	-	3345.78	14.14	BBC TWO
301	0x012D	MPEG2 Video	-	3293.92	13.92	CBBC Channel
101	0x0065	MPEG2 Video	-	2859.14	12.08	BBC ONE
501	0x01F5	MPEG2 Video	-	1292.64	5.46	BBC NEWS
901	0x0385	MPEG2 Video	-	1191.96	5.04	301
7201	0x1C21	MHEG	-	1051.03	4.44	BBC ONE
601	0x0259	MPEG2 Video	-	966.19	4.08	BBC Parliament
18	0x0012	EIT	-	661.89	2.80	N/A
302	0x012E	MPEG Audio	-	263.49	1.11	CBBC Channel
202	0x00CA	MPEG Audio	-	263.49	1.11	BBC TWO
102	0x0066	MPEG Audio	-	263.49	1.11	BBC ONE
402	0x0192	MPEG Audio	-	263.45	1.11	CBeebies
1302	0x0516	MPEG Audio	-	200.76	0.85	BBC Radio 4
1202	0x04B2	MPEG Audio	-	200.76	0.85	BBC Radio 3
1102	0x044E	MPEG Audio	-	200.72	0.85	BBC Radio 2
1002	0x03EA	MPEG Audio	-	200.72	0.85	BBC Radio 1
951	0x03B7	MPEG Audio	-	198.69	0.84	301
1802	0x070A	MPEG Audio	-	167.28	0.71	BBC R1X
1702	0x06A6	MPEG Audio	-	167.28	0.71	BBC Radio 4 Ex
1602	0x0642	MPEG Audio	-	167.28	0.71	BBC 6 Music
7203	0x1C23	Data	-	150.15	0.63	BBC ONE
7202	0x1C22	Data	-	150.15	0.63	BBC ONE
1902	0x076E	MPEG Audio	-	135.91	0.57	BBC Asian Net.
952	0x03B8	MPEG Audio	-	132.46	0.56	301
602	0x025A	MPEG Audio	-	132.46	0.56	BBC Parliament
502	0x01F6	MPEG Audio	-	132.41	0.56	BBC NEWS
2002	0x07D2	MPEG Audio	-	101.97	0.43	BBC World Sv.
1502	0x05DE	MPEG Audio	-	101.97	0.43	BBC R5SX
1402	0x057A	MPEG Audio	-	101.92	0.43	BBC R5L

7204	0x1C24	Data	-	100.08	0.42	BBC ONE
7205	0x1C25	Data	-	81.06	0.34	BBC ONE
306	0x013C	MPEG Audio	-	69.68	0.29	CBBC Channel
505	0x01F9	DVB Subtitles	-	23.95	0.10	BBC NEWS
2700	0x0A8C	PMT	-	15.06	0.06	BBC Red Button
2000	0x07D0	PMT	-	15.06	0.06	BBC World Sv.
1900	0x076C	PMT	-	15.06	0.06	BBC Asian Net.
1800	0x0708	PMT	-	15.06	0.06	BBC R1X
1700	0x06A4	PMT	-	15.06	0.06	BBC Radio 4 Ex
1500	0x05DC	PMT	-	15.06	0.06	BBC R5SX
1400	0x0578	PMT	-	15.06	0.06	BBC R5L
1300	0x0514	PMT	-	15.06	0.06	BBC Radio 4
1200	0x04B0	PMT	-	15.06	0.06	BBC Radio 3
1100	0x044C	PMT	-	15.06	0.06	BBC Radio 2
1000	0x03E8	PMT	-	15.06	0.06	BBC Radio 1
900	0x03D4	PMT	-	15.06	0.06	301
700	0x02BC	PMT	-	15.06	0.06	CBBC Channel
600	0x02B8	PMT	-	15.06	0.06	BBC Parliament
300	0x012C	PMT	-	15.06	0.06	BBC THREE
200	0x00C8	PMT	-	15.06	0.06	BBC TWO
100	0x0064	PMT	-	15.06	0.06	BBC ONE
0	0x0000	PAT	-	15.06	0.06	N/A
1600	0x0640	PAT	-	15.01	0.06	BBC 6 Music
800	0x0320	PMT	-	15.01	0.06	CBeebies
500	0x01F4	PMT	-	15.01	0.06	BBC NEWS
400	0x0190	PMT	-	15.01	0.06	BBC FOUR
105	0x0069	DVB Subtitles	-	12.57	0.05	BBC ONE
205	0x00CD	DVB Subtitles	-	11.33	0.05	BBC TWO
405	0x0195	DVB Subtitles	-	10.92	0.05	CBeebies
305	0x0131	DVB Subtitles	-	10.09	0.04	CBBC Channel
17	0x0011	SDT	-	6.91	0.03	N/A

410	0x019A	Data	-	3.04	0.01	BBC FOUR
311	0x0137	MHEG	-	3.04	0.01	BBC THREE
110	0x006E	MHEG	-	3.04	0.01	BBC ONE
20	0x0014	TOT	-	3.04	0.01	N/A
910	0x038E	MHEG	-	2.99	0.01	301
811	0x032B	Data	-	2.99	0.01	CBeebies
810	0x032A	MHEG	-	2.99	0.01	CBeebies
711	0x02C7	Data	-	2.99	0.01	CBBC Channel
710	0x02C6	MHEG	-	2.99	0.01	CBBC Channel
610	0x0262	MHEG	-	2.99	0.01	BBC Parliament
510	0x01FE	MHEG	-	2.99	0.01	BBC NEWS
411	0x019B	MHEG	-	2.99	0.01	BBC FOUR
310	0x0136	Data	-	2.99	0.01	BBC THREE
210	0x00D2	MHEG	-	2.99	0.01	BBC TWO
605	0x025D	DVB Subtitles	-	2.81	0.01	BBC Parliament
450	0x012B	Private Sections	-	1.20	0.01	N/A
350	0x015E	Private Sections	-	1.20	0.01	N/A
250	0x00F2	Private Sections	-	1.20	0.01	N/A
150	0x0096	Private Sections	-	1.20	0.01	N/A
16	0x0010	NIT	-	1.11	0.00	N/A
2010	0x07DA	MHEG	-	0.51	0.00	BBC World Sv.
1910	0x0776	MHEG	-	0.51	0.00	BBC Asian Net.
1810	0x0712	MHEG	-	0.51	0.00	BBC R1X
1710	0x06AE	MHEG	-	0.51	0.00	BBC Radio 4 Ex
1610	0x064A	MHEG	-	0.51	0.00	BBC 6 Music
1510	0x05E6	MHEG	-	0.51	0.00	BBC R5SX
1410	0x0582	MHEG	-	0.51	0.00	BBC R5L
1310	0x051E	MHEG	-	0.51	0.00	BBC Radio 4
1210	0x04BA	MHEG	-	0.51	0.00	BBC Radio 3
1110	0x0456	MHEG	-	0.51	0.00	BBC Radio 2
1010	0x03F2	MHEG	-	0.51	0.00	BBC Radio 1

TELE-satellite Technical Service File Download for TELE-satellite Cooperation Partners Only**Duration: 30 Sec, File Size: 96 MB****ts.TELE-satellite.com/DVB-T/UK/Plymouth-Ch45-1110.ts****Transponderstream Technical Service File Download for Clients Only****Duration: 5 Min, File Size: 930 MB****www.transponderstream.com/DVB-T/UK/Plymouth-Ch45-1110.ts****UK****Network Name****South West****Recording****Andy Middleton****Transmitter****Plymouth Channel 49**

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name
520	0x0208	MPEG2 Video	-	3711.36	17.22	ITV1
560	0x0230	MPEG2 Video	-	2938.76	13.63	Channel 4
580	0x0244	MPEG2 Video	-	2793.78	12.96	Channel 4+1
540	0x021C	MPEG2 Video	-	1989.43	9.23	Channel 5
590	0x024E	MPEG2 Video	-	1925.85	8.93	More 4
570	0x023A	MPEG2 Video	-	1908.40	8.85	E4
600	0x0258	MPEG2 Video	-	1822.36	8.45	ITV1 +1
530	0x0212	MPEG2 Video	-	1622.99	7.53	ITV2
18	0x0012	EIT	-	496.01	2.30	N/A
581	0x0245	MPEG Audio	-	201.04	0.93	Channel 4+1
571	0x023B	MPEG Audio	-	201.04	0.93	E4
561	0x0231	MPEG Audio	-	201.04	0.93	Channel 4
591	0x024F	MPEG Audio	-	200.95	0.93	More 4
531	0x0213	MPEG Audio	-	199.00	0.92	ITV2
601	0x0259	MPEG Audio	-	198.91	0.92	ITV1 +1
541	0x021D	MPEG Audio	-	198.91	0.92	Channel 5
521	0x0209	MPEG Audio	-	198.81	0.92	ITV1
2362	0x093A	Data	-	94.21	0.44	ITV1

2361	0x0939	Data	-	72.12	0.33	ITV1
602	0x025A	MPEG Audio	-	69.80	0.32	ITV1 +1
542	0x021E	MPEG Audio	-	69.80	0.32	Channel 5
532	0x0214	MPEG Audio	-	69.80	0.32	ITV2
522	0x020A	MPEG Audio	-	69.80	0.32	ITV1
2367	0x093F	Data	-	57.92	0.27	Rabbit
305	0x0131	PMT	-	15.87	0.07	Channel 4+1
290	0x0122	PMT	-	15.87	0.07	ITV1 +1
288	0x0120	PMT	-	15.87	0.07	Gay Rabbit
274	0x0112	PMT	-	15.87	0.07	Rabbit
270	0x010E	PMT	-	15.87	0.07	More 4
1	0x0001	CAT	-	15.87	0.07	N/A
0	0x0000	PAT	-	15.87	0.07	N/A
304	0x0130	PMT	-	15.78	0.07	E4
300	0x012C	PMT	-	15.78	0.07	Channel 4
289	0x0121	PMT	-	15.78	0.07	Channel 5
258	0x0102	PMT	-	15.78	0.07	ITV2
256	0x0100	PMT	-	15.78	0.07	ITV1
573	0x023D	DVB Subtitles	-	10.58	0.05	E4

603	0x025B	DVB Subtitles	-	6.22	0.03	ITV1 +1
17	0x0011	SDT	-	4.18	0.02	N/A
2363	0x093B	MHEG	-	3.06	0.01	Channel 4
2360	0x0938	MHEG	-	3.06	0.01	Gay Rabbit
2169	0x0879	MHEG	-	3.06	0.01	Rabbit
21	0x0015	Network Sync	-	3.06	0.01	N/A
2168	0x0878	MHEG	-	2.97	0.01	ITV1 +1
2167	0x0877	MHEG	-	2.97	0.01	E4
2164	0x0874	MHEG	-	2.97	0.01	Channel 5
2162	0x0872	MHEG	-	2.97	0.01	ITV2
2161	0x0871	MHEG	-	2.97	0.01	ITV1
20	0x0014	TOT	-	2.97	0.01	N/A
523	0x020B	DVB Subtitles	-	2.23	0.01	ITV1
16	0x0010	NIT	-	1.49	0.01	N/A
533	0x0215	DVB Subtitles	-	1.30	0.01	ITV2
543	0x021F	DVB Subtitles	-	0.37	0.00	Channel 5
3004	0x0BBC	Data	-	0.09	0.00	E4

TELE-satellite Technical Service File Download for TELE-satellite Cooperation Partners Only**Duration: 30 Sec, File Size: 87 MB****ts.TELE-satellite.com/DVB-T/UK/Plymouth-Ch49-1110.ts****Transponderstream Technical Service File Download for Clients Only****Duration: 5 Min, File Size: 815 MB****www.transponderstream.com/DVB-T/UK/Plymouth-Ch49-1110.ts****QA****Qatar****QA****Network Name****Nilesat101****Recording****TELE-satellite****Transmitter****Doha Channel 25****Remark****retransmit from satellite**

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name
1009	0x03F1	MPEG2 Video	-	2845.80	89.92	Qatar1
1010	0x03F2	MPEG Audio	-	263.42	8.32	Qatar1

17	0x0011	SDT	-	23.08	0.73	N/A
108	0x006C	PMT	-	15.05	0.48	Qatar1
0	0x0000	PAT	-	15.05	0.48	N/A

1	0x0001	CAT	-	1.50	0.05	N/A
16	0x0010	NIT	-	0.89	0.03	N/A
20	0x0014	TOT	-	0.11	0.00	N/A

TELE-satellite Technical Service File Download for TELE-satellite Cooperation Partners Only**Duration: 30 Sec, File Size: 12 MB****ts.TELE-satellite.com/DVB-T/QA/Doha-Ch25-1110.ts****Transponderstream Technical Service File Download for Clients Only****Duration: 5 Min, File Size: 118 MB****www.transponderstream.com/DVB-T/QA/Doha-Ch25-1110.ts**

DVB-T2

terrestrial

AT

Austria



AT

Network Name

ORS

Recording

Thomas Haring

Transmitter

Vienna Channel 60

Remark

MPEG4

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	Transmitter	Vienna Channel 60	ORS	Recording	Thomas Haring
210	0x00D2	H.264 Video	-	5910.71	24.08	ORF2 HD	-	300.96	1.23	HITRADIO OE3
220	0x00DC	H.264 Video	-	5159.69	21.02	ServusTV HD	-	167.22	0.68	OE1
200	0x00C8	H.264 Video	-	4937.20	20.11	ORF1 HD	-	167.22	0.68	ServusTV HD
8191	0x1FFF	Null Packets	-	4732.38	19.28	N/A	-	167.17	0.68	ORF2 HD
223	0x00DF	AC3 Audio	-	460.84	1.88	ServusTV HD	-	167.17	0.68	ORF1 HD
213	0x00D5	AC3 Audio	-	460.79	1.88	ORF2 HD	-	167.17	0.68	ORF2 HD
203	0x00CB	AC3 Audio	-	460.79	1.88	ORF1 HD	-	167.17	0.68	ORF2 HD
18	0x0012	EIT	-	312.67	1.27	N/A	-	71.38	0.29	HITRADIO OE3
215	0x00D7	Teletext	-	300.96	1.23	ORF2 HD	-	30.13	0.12	N/A
205	0x00CD	Teletext	-	300.96	1.23	ORF1 HD	-	30.13	0.12	FM4
202	0x00CA	MPEG Audio	-	167.22	0.68	ORF1 HD	-	30.13	0.12	FM4
201	0x00C9	MPEG Audio	-	167.22	0.68	ORF1 HD	-	30.13	0.12	FM4
2130	0x0852	MPEG Audio	-	167.17	0.68	FM4	-	30.13	0.12	FM4
2110	0x083E	MPEG Audio	-	167.17	0.68	OE1	-	30.13	0.12	FM4
221	0x00DD	MPEG Audio	-	167.17	0.68	ServusTV HD	-	30.13	0.12	FM4
212	0x00D4	MPEG Audio	-	167.17	0.68	ORF2 HD	-	30.13	0.12	FM4
211	0x00D3	MPEG Audio	-	167.17	0.68	ORF2 HD	-	30.13	0.12	FM4
32	0x0020	AAC Audio	-	71.38	0.29	HITRADIO OE3	-	30.13	0.12	FM4
2013	0x07DD	PMT	-	30.13	0.12	FM4	-	30.13	0.12	FM4

TELE-satellite Technical Service File Download for TELE-satellite Cooperation Partners Only

Duration: 30 Sec, File Size: 93 MB

ts.TELE-satellite.com/DVB-T2/AT/Vienna-Ch60-1109.ts

Transponderstream Technical Service File Download for Clients Only

Duration: 5 Min, File Size: 922 MB

www.transponderstream.com/DVB-T2/AT/Vienna-Ch60-1109.ts

DE

Germany



DE

Network Name

BR T2

Recording

TELE-satellite

Transmitter

Munich Channel 50

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	Transmitter	Munich Channel 50	BR T2	Recording	TELE-satellite
737	0x02E1	H.264 Video	-	11775.17	44.90	Das Erste HD	-	263.25	1.00	Bayerisches FS Süd
8191	0x1FFF	Null Packets	-	7397.66	28.21	N/A	-	263.25	1.00	N/A
753	0x02F1	MPEG2 Video	-	2504.57	9.55	Das Erste	-	203.70	0.78	N/A
721	0x02D1	MPEG2 Video	-	1668.03	6.36	Bayerisches FS Süd	-	203.70	0.78	Das Erste
739	0x02E3	AC3 Audio	-	470.09	1.79	Das Erste HD	-	133.22	0.51	Das Erste HD
2172	0x087C	Data	-	400.03	1.53	Das Erste HD	-	27.01	0.10	N/A
18	0x0012	EIT	-	353.00	1.35	N/A	-	9.99	0.04	N/A
738	0x02E2	MPEG Audio	-	266.39	1.02	Das Erste HD	-	3.75	0.01	N/A
756	0x02F4	Teletext	-	263.25	1.00	Das Erste	-	3.75	0.01	N/A
740	0x02E4	Teletext	-	263.25	1.00	Das Erste HD	-	3.75	0.01	N/A
724	0x02D4	Teletext	-	263.25	1.00	Bayerisches FS Süd	-	3.75	0.01	N/A
754	0x02F2	MPEG Audio	-	203.70	0.78	Das Erste	-	3.75	0.01	N/A
722	0x02D2	MPEG Audio	-	203.70	0.78	Bayerisches FS Süd	-	3.75	0.01	N/A
725	0x02D5	MPEG Audio	-	133.22	0.51	Bayerisches FS Süd	-	3.75	0.01	N/A
555	0x022B	Private Data	-	27.01	0.10	Bayerisches FS Süd	-	3.75	0.01	N/A
6070	0x17B6	Private Sections	-	9.99	0.04	N/A	-	3.75	0.01	N/A
6031	0x178F	DVB Subtitles	-	3.75	0.01	Das Erste HD	-	3.75	0.01	N/A

TELE-satellite Technical Service File Download for TELE-satellite Cooperation Partners Only

Duration: 1 Min, File Size: 100 MB

ts.TELE-satellite.com/DVB-T2/DE/Munich-Ch50-1109.ts

Transponderstream Technical Service File Download for Clients Only

Duration: 5 Min, File Size: 786 MB

www.transponderstream.com/DVB-T2/DE/Munich-Ch50-1109.ts

UK

United Kingdom



UK

Network Name

Cambs & Beds.

Recording

TELE-satellite

Transmitter

London Channel 21

PID	Hex PID	Stream Type	Encrypted kbps	%	Service Name	Transmitter	London Channel 21	Cambs & Beds.	Recording	TELE-satellite
101	0x0065	H.264 Video	-	11166.93	30.41	BBC HD	-	70.58	0.19	BBC HD
6601	0x19C9	H.264 Video	-	9005.26	24.52	BBC One HD	-	70.58	0.19	N/A
201	0x00C9	H.264 Video	-	7652.08	20.84	ITV1 HD	-	70.58	0.19	N/A
301	0x012D	H.264 Video	-	7298.90	19.88	Channel 4 HD	-	70.58	0.19	N/A
102	0x0066	AAC Audio	-	358.66	0.98	BBC HD	-	49.85	0.14	BBC HD
18	0x0012	EIT	-	294.15	0.80	N/A	-	31.26	0.09	N/A
202	0x00CA	AAC Audio	-	157.27	0.43	ITV1 HD	-	20.53	0.06	N/A
6602	0x19CA	AAC Audio	-	156.01	0.42	BBC One HD	-	15.05	0.04	N/A
302	0x012E	AAC Audio	-	156.01	0.42	Channel 4 HD	-	15.05	0.04	N/A
106	0x006A	AAC Audio	-	70.63	0.19	BBC HD	-	15.05	0.04	N/A
6606	0x19CE	AAC Audio	-	70.58	0.19	BBC One HD	-	15.05	0.04	N/A
206	0x00CE	AAC Audio	-	70.58	0.19	ITV1 HD	-	15.05	0.04	N/A
306	0x0132	AAC Audio	-	70.53	0.19	Channel 4 HD	-	15.05	0.04	N/A
6605	0x19CD	DVB Subtitles	-	49.85	0.14	BBC One HD	-	15.05	0.04	N/A
205	0x00CD	DVB Subtitles	-	31.26	0.09	ITV1 HD	-	15.05	0.04	N/A
305	0x0131	DVB Subtitles	-	20.53	0.06	Channel 4 HD	-	15.05	0.04	N/A
6600	0x19C8	PMT	-	15.05	0.04	BBC One HD	-	15.05	0.04	N/A
300	0x012C	PMT	-	15.05	0.04	Channel 4 HD	-	15.05	0.04	N/A
200	0x00C8	PMT	-	15.05	0.04	ITV1 HD	-	15.05	0.04	N/A

TELE-satellite Technical Service File Download for TELE-satellite Cooperation Partners Only

Duration: 30 Sec, File Size: 135 MB

ts.TELE-satellite.com/DVB-T2/UK/London-Ch21-1107.ts

Transponderstream Technical Service File Download for Clients Only

Duration: 5 Min, File Size: 945 MB

www.transponderstream.com/DVB-T2/UK/London-Ch21-1107.ts

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name
101	0x0065	H.264 Video	-	13880.81	37.17	BBC HD
201	0x00C9	H.264 Video	-	9917.67	26.56	ITV1 HD
6601	0x19C9	H.264 Video	-	6352.93	17.01	BBC One HD
301	0x012D	H.264 Video	-	5728.66	15.34	Channel 4 HD
18	0x0012	EIT	-	297.85	0.80	N/A
102	0x0066	AAC Audio	-	157.67	0.42	BBC HD
6602	0x19CA	AAC Audio	-	157.55	0.42	BBC One HD
202	0x00CA	AAC Audio	-	154.58	0.41	ITV1 HD
302	0x012E	AAC Audio	-	153.21	0.41	Channel 4 HD

Transmitter	SSU	100.43	0.27	BBC HD
306	0x0132	AAC Audio	-	70.84 0.19 Channel 4 HD
106	0x006A	AAC Audio	-	70.84 0.19 BBC HD
6606	0x19CE	AAC Audio	-	70.72 0.19 BBC One HD
206	0x00CE	AAC Audio	-	70.61 0.19 ITV1 HD
105	0x0069	DVB Subtitles	-	27.99 0.07 BBC HD
6605	0x19CD	DVB Subtitles	-	27.42 0.07 BBC One HD
6600	0x19C8	PMT	-	15.08 0.04 BBC One HD
300	0x012C	PMT	-	15.08 0.04 Channel 4 HD
200	0x00C8	PMT	-	15.08 0.04 ITV1 HD

100	0x0064	PMT	-	15.08 0.04	BBC HD
0	0x0000	PAT	-	15.08 0.04	N/A
205	0x00CD	DVB Subtitles	-	7.20 0.02	ITV1 HD
305	0x0131	DVB Subtitles	-	5.60 0.01	Channel 4 HD
17	0x0011	SDT	-	4.23 0.01	N/A
20	0x0014	TOT	-	2.97 0.01	N/A
16	0x0010	NIT	-	1.60 0.00	N/A
6650	0x19FA	Private Sections	-	1.37 0.00	N/A
150	0x0096	Private Sections	-	1.37 0.00	N/A

TELE-satellite Technical Service File Download for TELE-satellite Cooperation Partners Only

Duration: 30 Sec, File Size: 172 MB

ts.TELE-satellite.com/DVB-T2/UK/Plymouth-Ch42-1109.ts

Transponderstream Technical Service File Download for Clients Only

Duration: 5 Min, File Size: 1393 MB

www.transponderstream.com/DVB-T2/UK/Plymouth-Ch42-1109.ts

ISDB-TB

terrestrial

ISDB-TB

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name
273	0x0111	H.264 Video	-	15304.88	83.69	Record HD
8191	0x1FFF	Null Packets	-	1303.08	7.13	N/A
641	0x0281	H.264 Video	-	307.79	1.68	Record 1Seg
3000	0x0BB8	?	-	201.55	1.10	N/A
3106	0x0C22	?	-	200.06	1.09	N/A
3104	0x0C20	?	-	200.06	1.09	N/A
3102	0x0C1E	?	-	200.06	1.09	N/A
276	0x0114	AAC Audio	-	104.10	0.57	Record HD

Transmitter	Sao Paulo Channel 20	104.10	0.57	Record HD
274	0x0112	AAC Audio	-	104.10 0.57 Record HD
275	0x0113	AAC Audio	-	103.95 0.57 Record HD
643	0x0283	AAC Audio	-	65.84 0.36 Record 1Seg
18	0x0012	EIT	-	60.01 0.33 N/A
768	0x0300	PCR	-	39.51 0.22 N/A
257	0x0101	PMT	-	30.10 0.16 Record HD
908	0x038C	Data	-	20.01 0.11 Record 1Seg
0	0x0000	PAT	-	15.05 0.08 N/A
8136	0x1FC8	PMT	-	7.52 0.04 Record 1Seg

Remark	1Seg (Mobile TV), HD	7.52	0.04	N/A
512	0x0200	PCR	-	7.52 0.04 N/A
39	0x0027	?	-	6.02 0.03 N/A
288	0x0120	Private PES	-	1.50 0.01 Record HD
36	0x0024	?	-	1.50 0.01 N/A
16	0x0010	NIT	-	1.50 0.01 N/A
656	0x0290	Private PES	-	1.50 0.01 Record 1Seg
17	0x0011	SDT	-	1.00 0.01 N/A
20	0x0014	TOT	-	0.30 0.00 N/A
508	0x01FC	Private Sections	-	0.15 0.00 N/A

Transponderstream Technical Service File Download for Clients Only

Duration: 5 Min, File Size: 945 MB

www.transponderstream.com/ISDB-TB/BR/SaoPaulo-Ch19-1108.ts

ISDB-TB

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name
259	0x0103	H.264 Video	-	10554.91	85.61	BAND HDTV
8191	0x1FFF	Null Packets	-	1071.43	8.69	N/A
273	0x0111	H.264 Video	-	305.29	2.48	BAND 1SEG
256	0x0100	AAC Audio	-	111.87	0.91	BAND HDTV
257	0x0101	AAC Audio	-	105.71	0.86	BAND HDTV
18	0x0012	EIT	-	49.96	0.41	N/A

Transmitter	Sao Paulo Channel 23	41.65	0.34	N/A
511	0x01FF	PCR	-	41.65 0.34 N/A
274	0x0112	AAC Audio	-	35.83 0.29 BAND 1SEG
32	0x0020	PMT	-	15.83 0.13 BAND HDTV
0	0x0000	PAT	-	15.82 0.13 N/A
512	0x0200	PCR	-	7.52 0.06 N/A
8136	0x1FC8	PMT	-	3.96 0.03 BAND 1SEG
39	0x0027	?	-	3.00 0.02 N/A

Remark	1Seg (Mobile TV), HD	2.14	0.02	BAND HDTV
107	0x006B	Private PES	-	2.14 0.02 BAND HDTV
36	0x0024	?	-	1.58 0.01 N/A
16	0x0010	NIT	-	1.58 0.01 N/A
17	0x0011	SDT	-	0.80 0.01 N/A
20	0x0014	TOT	-	0.32 0.00 N/A

Transponderstream Technical Service File Download for Clients Only

Duration: 5 Min, File Size: 502 MB

www.transponderstream.com/ISDB-TB/BR/SaoPaulo-Ch22-1108.ts

ISDB-TB

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name
273	0x0111	H.264 Video	-	7102.65	64.56	Rede TV! HD
289	0x0121	H.264 Video	-	2154.51	19.58	Rede TV! 3D
8191	0x1FFF	Null Packets	-	980.45	8.91	N/A
529	0x0211	H.264 Video	-	324.42	2.95	Rede TV! 1Seg
290	0x0122	AAC Audio	-	84.67	0.77	Rede TV! 3D
275	0x0113	AAC Audio	-	80.15	0.73	Rede TV! HD
274	0x0112	AAC Audio	-	79.89	0.73	Rede TV! HD

Transmitter	Sao Paulo Channel 29	66.63	0.61	Rede TV! 1Seg
530	0x0212	AAC Audio	-	66.63 0.61 Rede TV! 1Seg
18	0x0012	EIT	-	28.50 0.26 N/A
512	0x0200	PCR	-	27.57 0.25 N/A
768	0x0300	PCR	-	16.37 0.15 N/A
256	0x0100	PCR	-	16.33 0.15 N/A
258	0x0102	PMT	-	8.94 0.08 Rede TV! 3D
0	0x0000	PAT	-	8.94 0.08 N/A
257	0x0101	PMT	-	8.88 0.08 Rede TV! HD

Remark	3D (side-by-side)	3.00	0.03	Rede TV! 1Seg
8136	0x1FC8	PMT	-	3.00 0.03 Rede TV! 1Seg
39	0x0027	?	-	3.00 0.03 N/A
533	0x0215	Private PES	-	1.84 0.02 Rede TV! 1Seg
36	0x0024	?	-	1.48 0.01 N/A
16	0x0010	NIT	-	1.48 0.01 N/A
278	0x0116	Private PES	-	1.07 0.01 Rede TV! HD
17	0x0011	SDT	-	0.74 0.01 N/A
20	0x0014	TOT	-	0.29 0.00 N/A

Transponderstream Technical Service File Download for Clients Only

Duration: 5 Min, File Size: 602 MB

www.transponderstream.com/ISDB-TB/BR/SaoPaulo-Ch28-1108.ts

ISDB-TB

PID	Hex PID	Stream Type	Encrypted	kbps	%	Service Name
501	0x01F5	H.264 Video	-	9661.50	92.77	Rede Vida HD
500	0x01F4	H.264 Video	-	273.41	2.63	Rede Vida 1Seg
511	0x01FF	AAC Audio	-	133.21	1.28	Rede Vida HD
510	0x01FE	AAC Audio	-	70.60	0.68	Rede Vida 1Seg
513	0x0201	AAC Audio	-	52.93	0.51	Rede Vida HD
18	0x0012	EIT	-	50.06	0.48	N/A

Transmitter	Sao Paulo Channel 39	39.52	0.38	N/A
521	0x0209	PCR	-	39.52 0.38 N/A
0	0x0000	PAT	-	37.65 0.36 N/A
8191	0x1FFF	Null Packets	-	35.45 0.34 N/A
520	0x0208	PCR	-	34.63 0.33 N/A
80	0x0050	PMT	-	7.57 0.07 Rede Vida HD
8136	0x1FC8	PMT	-	7.52 0.07 Rede Vida 1Seg
39	0x0027	?	-	2.97 0.03 N/A

Remark	1Seg, HD	1.53	0.01	Rede Vida HD
531	0x0213	Private PES	-	1.53 0.01 Rede Vida HD
36	0x0024	?	-	1.53 0.01 N/A
530	0x0212	Private PES	-	1.48 0.01 Rede Vida 1Seg
17	0x0011	SDT	-	1.48 0.01 N/A
16	0x0010	NIT	-	1.48 0.01 N/A
20	0x0014	TOT	-	0.34 0.00 N/A

Transponderstream Technical Service File Download for Clients Only

Duration: 5 Min, File Size: 418 MB

www.transponderstream.com/ISDB-TB/BR/SaoPaulo-Ch38-1108.ts

TELE

**DTT
IPTV
3DTV
satellite**

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CCBN 2012

China Content Broadcasting Network Exhibition - largest broadcasting technology and equipment expo in the Asia-Pacific region

Beijing International Exhibition Center, Beijing, China

Opening Hours:

21 - 22 March: 9:00am - 5:00pm

23 March: 9:00am - 4:30pm

www.ccbn.tv

21 - 23 March 2012

Convergence India 2012

New Delhi, India

13 - 16 April 2012

HKTDC Spring

Hongkong, China



16 - 19 April 2012

NAB Show 2012

Essential destination for broadcasting® professionals who share a passion for bringing content to life on any platform

Las Vegas Convention Center, USA

Opening Hours:

16 - 18 April: 9:00am - 6:00pm

19 April: 9:00am - 2:00pm

www.nabshow.com

12 - 16 June 2012

ANGA 2012

Cologne, Germany

19 - 22 June 2012



CommunicAsia 2012

CommunicAsia2012 will feature a comprehensive range of the latest products, technologies and solutions, and offer an enhanced platform for business networking and partnership opportunities.

Basement 2, Levels 1, 4 & 5

Marina Bay Sands, Singapore

Opening Hours:

19 - 21 June: 10:30am - 6:00pm

22 June: 10:30am - 4:00pm

www.communicasia.com

31 July - 2 August 2012

ABTA 2012

São Paulo, Brasil

31 August - 5 September 2012

IFA 2012

Berlin, Germany

7 - 11 September 2012



IBC 2012

RAI Convention Centre, Amsterdam
The Netherlands

Annual event for professionals engaged in the creation, management and delivery of entertainment and news content

www.ibc.org

6 - 9 October 2012

CeBIT Bilisim Eurasia

Istanbul, Turkey

13 - 16 October 2012

HKTDC Autumn

Hongkong, China

24 - 26 October 2012

CAPER 2012

Buenos Aires, Argentina

October 2012

EEBC 2011

Kiev, Ukraine

3 - 5 November 2012



SCaT India 2012

South Asia's Largest Tradeshow of the Indian Cable & Satellite Television Industry

World Trade Centre, Cuffe Parade, Mumbai, India

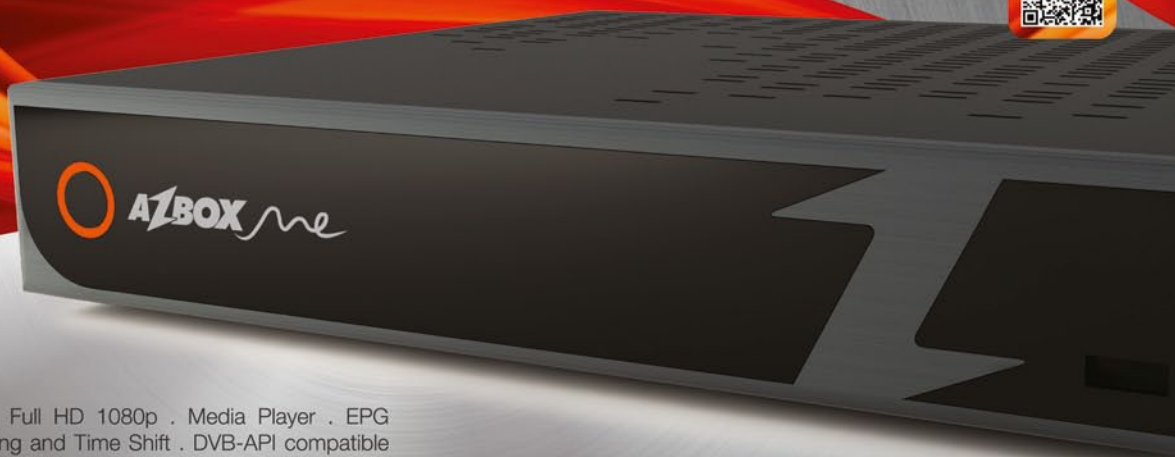
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