

Company Report

Mass Production at YINHE in China

An Amazing 4 Million
Receivers Produced
Annually

Company Report

SPAUN in Dubai

Big Business Growth
With the Right Partner

Test Reports

SATCATCHER and HORIZON

"Everywhere" Meters
for DVB-T and DVB-C

Test Report

INFOSAT Color Mesh

The PINK Dish the
Ladies Can't Resist



Test Report

Jiuzhou DTT6720

Outstanding Picture Quality Loaded with Features

CHANGHONG

Professional in STB

What Satellite Receiver DO YOU WANT



✓ HD ✓ DVB-S2

✓ PVR ✓ CAS

✓ H.264/MPEG4

✓ open tv



CHANGHONG®

SICHUAN CHANGHONG NETWORK TECHNOLOGIES CO., LTD.

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TELE-satellite was established in 1981 and today is the oldest, largest and most-read digital tv trade magazine in the world. TELE-satellite is seen by more than 350,000 digital tv professionals around the world and is available both in printed form and online. TELE-satellite is published worldwide in 22 language editions.

www.TELE-satellite.com

Dear Readers,

Analog TV channels are being turned off and replaced by digital channels all over the world. In some countries, this task has already been completed; in others the process is underway while at the same time some countries are planning to make the transition but have not yet started. In the end it doesn't really matter, sooner or later there won't be any analog TV channels anymore.

The advantage of digital technology is simply that fewer transmission channels are needed. One frequency can be used multiple times. This effectively means that fewer transmission channels are needed or, to put it another way, after the transition to digital technology, there will be quite a few transmission channels that are no longer being used.

So what's going to happen with these newly available transmission channels? Other services will be using these open channels - in particular mobile telephone operators. But they won't be using these wide band frequencies just for telephone conversations, but rather primarily for data services. When you say data services today, this means Internet. And when we start talking about Internet with high-speed transmission rates, IPTV immediately comes to mind! The term IPTV, that is TV via the Internet, was up until recently just associated with cable or a very fast VDSL connection but also linked to cable. But if IPTV could be made wireless, it would open up a whole new world.

IPTV offers an entirely new quality in the world of TV. Up until now, a TV operator always had to get permission from someone. It was either a cable company that owned the cable infrastructure or it was a satellite operator that controls who transmits on its satellites. Then of course there's the fiber-optic operators that decide what programming is made available to its customers. And with terrestrial TV, it's the local authorities that give out the necessary licenses.

Why should it be any different with IPTV? It's different because with IPTV anyone can surface as a broadcaster. The enormously large number of radio channels in the Internet is the prelude to what we can expect to see in the IPTV age. Anyone can create their own TV channel. Sending and receiving in top-notch quality is no longer a problem. Or is it? If it's that easy, everyone would be doing it by now. Could it be that it's really not that easy to produce your own video stream?

Now seems to be the right time to point this out: take a close look at the advertisements in this issue of TELE-satellite. Two of them are especially interesting. In one ad there's a company that offers the precise generator that you need. Except for a fast Internet connection, the generator is all you need to produce IPTV. And there you have it: your own TV station. No uplink satellite dish for which you would need authorization and no expensive cable infrastructure needed to reach viewers. You can become a TV broadcaster for just a small investment. And regarding IPTV, for sure soon there will be IPTV receivers with antenna connections for terrestrially transmitted mobile stations - see above.

The second ad you might notice is not directly connected to IPTV but instead has to do with a related subject: this company offers Internet-via-satellite and links this with telephone services and IPTV. This ad is yet another note: IPTV will definitely keep us occupied in the future. A technology that up until now hasn't had that much attention and was for the most part overlooked by TELE-satellite is now gaining recognition.

Naturally, we plan to bring detailed test reports regarding these new and exciting possibilities to you in upcoming issues of TELE-satellite.

Alexander Wiese
Editor-in-Chief TELE-satellite

P.S.: And along these lines, my favorite radio station of the month: "Munich Radio" with so-called lounge music around the clock presented commercial free and without any talk. It can be heard in the Internet at www.munich-radio.de





Technomate

Linux High-Definition



**Linux
Inside**



**TM-800 HD
running Enigma**

- ✓ Open Source Linux Satellite HD running Enigma
- ✓ Supports internal 2.5" HDD
- ✓ 2x USB 2.0 Ports: PVR function, MP3 & JPEG Playback & Software Transfer
- ✓ Record 1 Channel & watch another at the same time
- ✓ Optional WiFi module
- Unlimited Channels • 1080p, 1080i, 720p, 576p & 576i • MPEG-2, MPEG-4 & H.264
- Timeshift • Built-in Upscaler to Improve Standard Picture Quality
- Ethernet • RF Modulator • 1 Smart Card Reader & more!

Linux Open Source Running Enigma

TM-500 / TM-600

- ✓ Open Source Linux running Enigma
- ✓ Unlimited Channel Memory
- ✓ Ethernet Communication Port
- ✓ 2x Scart Outputs
- ✓ RF Modulator
- ✓ Smart Card Reader
- ✓ Super Sensitive Tuner
- ✓ Internal Power Supply

TM-600 Extras

- ✓ 3x USB 2.0 PVR (Front, Internal & Rear)
- ✓ Record/Playback Scrambled & Free-To-Air (FTA) Channels by USB
- ✓ USB 2.0 for Software Download & MP3 Playback
- ✓ Component Output (YPbPr)



TM-500



TM-600

TM-7100 HD TRIPLE TUNER PVR 2x Satellite HD Tuners & 1x Terrestrial Tuner



- ✓ Supports up to 1TB S-ATA 3.5" & 2.5" HDD
- ✓ Easily remove HDD via HDD Bay on side of TM-7100 HD
- ✓ 2x USB 2.0 Ports: PVR function, MP3 & JPEG Playback & Software Transfer
- ✓ Record:
 - 1 Channel from each Tuner & Playback a Recorded File at the same time
 - 3 HD Satellite Channels at the same time (2 have to be on same TP)
- ✓ 2x Smart Card Readers & 2x Common Interface (CI)
- ✓ Ethernet Communication Port, RF Modulator, Blind Search & more!

Technomate

Future Electronics Ltd
8A Nicou Pattichi Street, 3071, Limassol, Cyprus
Tel: +357 2533 3652 / Fax: +357 2533 4642

FULAN

Fulan Electronics Ltd

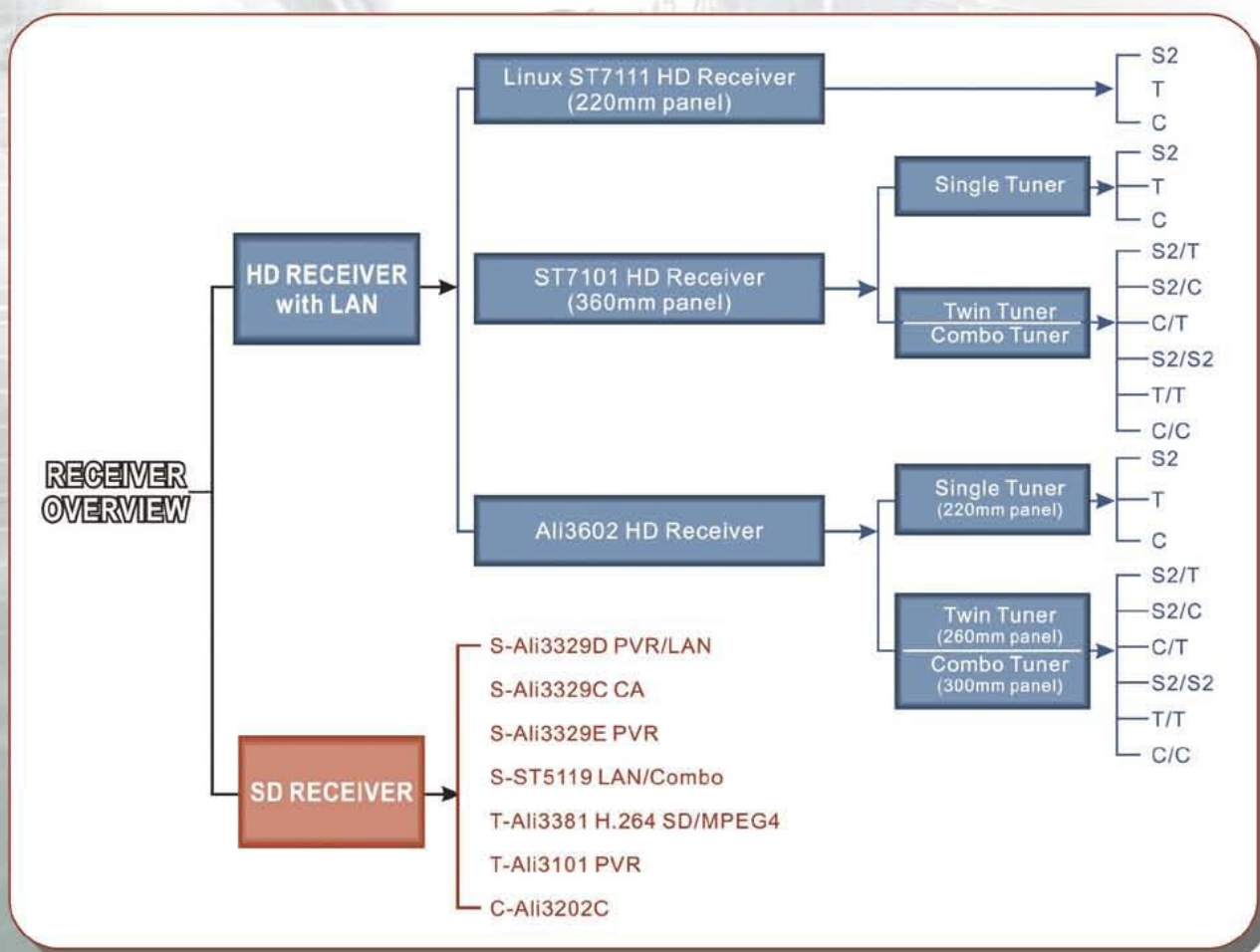
www.fulansoft.com

TOP DIGITAL HD BOX DESIGNER FROM CHINA



Linux
HD Box

ONE BOX ONE DREAM-LINUX BOX



www.fulansoft.com

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



JIUZHOU DTT6720
Future-proof HDTV Receiver
for Terrestrial TV 22



**SATCATCHER
DIGIPRO T MAX**
Easy to Use Signal Meter
that doesn't stop
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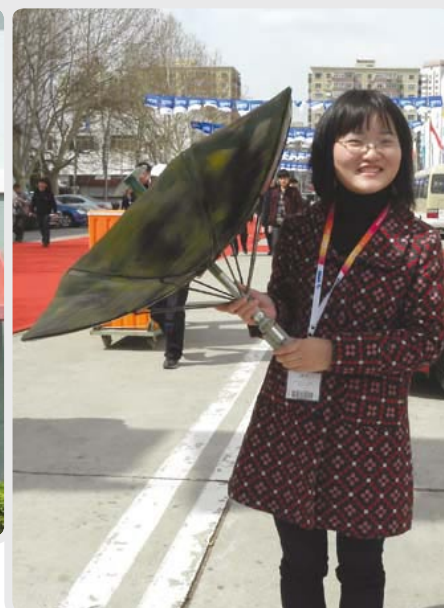
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Skyworth

OUTSTANDING STB HARDWARE MANUFACTURER FROM CHINA



S1B FTA



- Built in All 3329C single chip processor
- MPEG-2 digital & fully DVB-S compliant
- Single scart+RCA+SPDIF
- 4000 channels TV and Radio programmable
- Fully support to 7 days Electronic Program Guide(EPG)

S1K LAN PORT



- MPEG-2 digital & fully DVB-S compliant
- 4000 channels TV and Radio programmable
- 32 different favorite groups selection
- Fully support to 7 days Electronic Program Guide(EPG)
- PVR function

S21 DVB-S STICKER



- 4000 channels TV and Radio programmable
- Channel list can be sorted by alphabetic A-Z
- PVR function
- Video zoon function with 1/2/4/6/7/12/16 ratio
- Various channel editing function(favorite, move, lock, rename and sort)

SIY SUPER LOW COST WITH SCART



- ALI 3328F chipset
- MPEG-2 digital & fully DVB-S compliant
- 1800 channels TV and Radio programmable
- 1 different favorite groups selection
- Various channel editing function (favorite, add and delete)

T2D CHEERTEK LPC



- Cheertek CT216T chipset
- MPEG-2 digital & fully DVB-T compliant
- 1000 channels TV and Radio programmable
- Fully support to 7 days Electronic Program Guide(EPG)
- Various channel editing functions (favorite, move, lock, rename and sort)

T2B DVB-T STICKER LPC



- MPEG-2 digital & fully DVB-T compliant
- 1000 channels TV and Radio programmable
- 8 different favorite groups selection
- Fully support to 7 days Electronic Program Guide(EPG)
- Parental control for channels

T19 DOUBLE TURNER



- ALI M3101D chipset
- MPEG-2 digital & fully DVB-T compliant
- 1000 channels TV and Radio programmable
- 8 different favorite groups selection
- Fully support to 7 days Electronic Program Guide(EPG)



WE ARE DISTRIBUTOR OF

TOPFIELD

STRONG
DIGITAL TV

VANTAGE

JAEGER HUMAX

emme esse
ANTENNA SYSTEM

SMW
SWEDISH MICROWAVE AB

emitor

MICROELECTRONICS
TECHNOLOGY INC.

ALPS GIBERTINI

ALLVISION

Inverto
digital-labs

SPAUN

Stab

TOPFIELD Topfield Media Solution

SRP-2100



Features available at launch

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



Experience the future of digital receiver

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

TOPFIELD

TF 7700 HTCO

NEW



VISEO+
einfach. genial. digital.

Jetzt über DVB-T in Ihrer Region!

HDTV DVB-T Receiver, Conax embedded

- Receives MPEG2- und MPEG4-encoded free and Pay-TV programs
- Certified for the premium-DVB-T VISEO+
- HDMI Digital video & audio output in 576p, 720p und 1080i
- Conax-System with cardreader for VISEO+
- HDMI Video-output

TOPFIELD

TF 5050CI HDMI



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



Measuring Instruments

emitor

MEGALOOK

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



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

ALSO AVAILABLE:
Combolook, Digital Satlook NIT
Satlook Micro +, Satlook Mark IV

DIGIAIR pro

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

- Handy spectrum-analyzer for frequency 45-862MHz
- Presents full range and expanded spectrum
- Ready for MPEG2 and MPEG4 signals
- Signal level readout in dBuV, BER
- Digital-signals present BER and S/N-ratio
- High resolution back-lighted LCD display
- Very high accuracy, ± 1 dB at 20°C



DIGISAT PRO ACCU

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

With DiSeQ-C tester.

ALSO AVAILABLE:

- Digisat
- Digisat+
- Digisat Pro
- Digisat Multi



Satlook Micro HD

Now with DVB-S2 support!



- Measure DVB-S and DVB-S2 signals
- Spectrum-analyzer with zoom function
- EasyFind satellite identification for faster installations
- Super bright 3" LCD display
- Very sensitive, easy to maximize weak and strong signals
- Digital BER, QPSK (DVB-S), 8PSK (DVB-S2) and S/N-ratio
- Readout NIT - gives Satellite ID and TV/Radio-channel info
- X-pol. function for optimize LNB skew
- DiSeQ-C according to level 1.0, 1.1 and 1.2
- LNB voltage 13/18V, 22KHz tone switch
- Stores up to 99 memory positions
- RS232 for PC-connection (up/download)
- Built in, rechargeable battery

Satlook NIT Color



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

JAEGER

HDCI 2010

NEW



HDTV - DVB-S Receiver

- 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
- Radio reception with background display
- Standby power consumption < 1 Watt



Multiswitches/ DiSeQ-C-Switches

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



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

SPAUN Full range

STRONG

SRT 6205 - PVR Ready



USB recording capability

- Digital Satellite Receiver
- UHF Modulator to connect the receiver to TV
- Display showing channel number
- 2 Common Interface slots
- USB port: for playing music files and viewing photos, playback of TV programmes recorded by the receiver

SRT 5246 Hybrid



Satellite + Terrestrial FTA

- For all digital Free-To-Air TV and Radio programmes via terrestrial antenna and satellite
- Audio- and Video in DVD quality
- Mosaic function: 4 or 9 TV channels in overview

Balcony mounting parts



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



HD+ and CI+

New HD+ and CI+ Products available



NEW



HDTV Receiver Selection

VANTAGE

HD 8000 S



DVB-S HDTV Twin PVR

- Two DVB-S2 tuner
- Ethernet Port (Just HD7100 Series)
- Fully DVB-S / DVB-S2 (H.264) HD compliant
- USB 2.0 supported
- HDMI
- 2 CI and 2 Smart card Reader

TOPFIELD

SBP 2000



DVB-S HDTV - Receiver

- fully compliant with DVB-S and DVB-S2
- Two common interface slots
- records programmes into an external hard drive
- Supports time-shift up to 5 hours at maximum
- Can play video files in DivX, MPG, MP4, VOB, MKV and FLV format

TOPFIELD

TF 7750 HDPVR



HDTV-DVB-S Receiver, Twin Tuner

- Twin tuner for two simultaneous HD recordings
- Receive DVB-S/DVB-S2 standard
- Front USB to connect of an external storage medium
- Time shift supported
- Output in 576i, 576 p, 720 p, 1080i
- 2 Common interface

Multifocus Dish

emme esse **Plakalign**

Professional multisatellite system



- Suitable for M-ML dishes
ø 85/100/115cm
- Mount with Skew adjustment of the dish for a perfect alignment of the received satellites
- Multi-feed-holder designed for an easy pointing

An innovate system to receive the signal from various satellites at the same time, using one fixed mount, high gain, offset dish. When there is a big difference between longitude of the receiving dish and that of the transmitting satellite, the pointing of the dish leads to

another "disalignment" between the antenna axis and the Clarke belt. This system, by the rotation of the parallel dish, allows axis realignment, assuring a stronger signal.

Motors

Aktuatoren/ Actuators

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



H-H Mounts

- SG 99 / SG 99 II - up to 1,00 m
- SG 107 - up to 1,10 m
- SG 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

Optical fibre LNB

INVACOM

Innovation in Communications

Fibre LNB / Fibre Flange LNB



with optical fiber connection

The Fibre Optic LNB can feed the whole Ku-band to 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

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

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

Parts

Multifeedholder for 2, 3, or 4 LNB



Wallmounts

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



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

Remotesystems

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



Koaxialcable

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

Dishes

CHERTINI **TRIAx** **emme esse**

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

Big Dishes directly from our warehouse!

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

Flat-Dishes

SELF SAT H10D / H10D2

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

SELF SAT Flat-Dishes also available as:

H21D / H21D2 / H21D4

MAXIMUM Flat-1

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

Unicable solution

Inverto

digital-labs
IDLP UST110-CUO10-8PP

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



Streaming TV via the Internet - Quick Setup and Free!

This wouldn't be the first time that we reported in TELE-satellite on streaming solutions that would let you receive TV and radio content via the Internet. In this way you could be on vacation in your hotel on the other side of the world and playback your favorite programs from your living room via an Internet stream or simply watch your favorite TV channels while on vacation.

In this issue of TELE-satellite we are once again introducing a solution that requires nothing more than a PC that most users already have anyway. For our report we used an Intel Core2Duo PC, not really used anymore today but perfect for our purposes. Microsoft Windows was already installed.

But wait! We forgot to mention one little thing: To be able to process the video signal and transmit it via the Internet, our PC would have to be always turned on and connected to the Internet. In the end we wouldn't really know when we would need access to this PC and keeping this PC running 24/7 would have quite an ugly affect on our next electric bill. Since efficiency is the name of our game, we need a different solution.

WOL - Wake On LAN

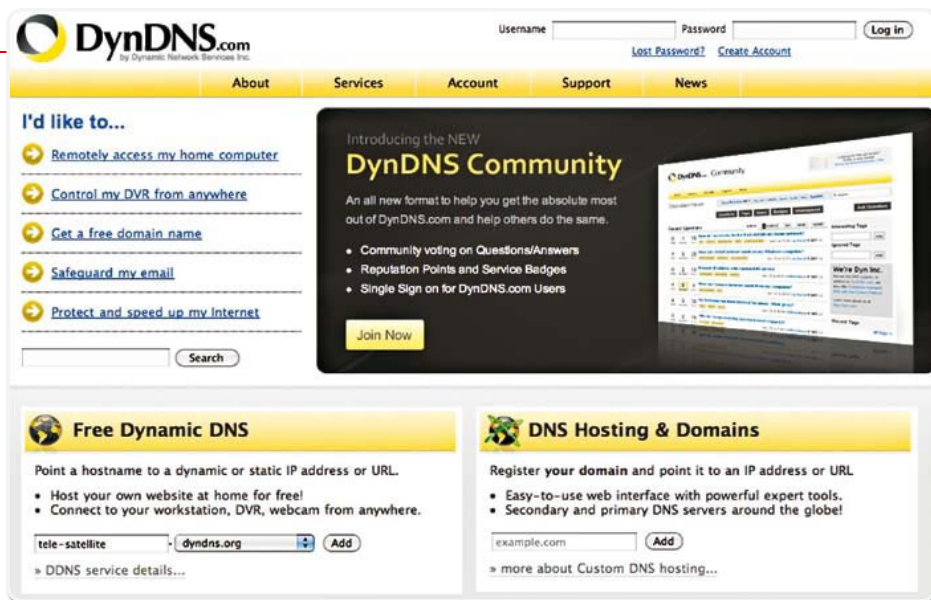
Thankfully, the two US companies AMD and Hewlett Packard decided to agree on the WOL (Wake on LAN) standard back in 1995 with which PCs can be turned on through a network connection. Since this standard has found numerous uses, nearly every modern PC or Mac is outfitted with this feature.

The necessary settings, however, are typically buried deep within the BIOS.

The screenshot shows the Darwin Streaming Server web interface. At the top, there's a status bar with a 'Disable Server' button, 'Server is Running', and the domain 'yourdomain.com'. The interface is divided into three main sections:

- NAVIGATION BAR PANE:** Located on the left, it contains a 'QuickTime' logo and a list of links: 'Main', 'Connected Users', 'Relay Status', 'General Settings', 'Port Settings', 'Relay Settings', 'Log Settings', 'Error Log', 'Access History', and 'Log Out'.
- TOP BAR:** A horizontal bar at the top of the main content area, containing the text 'Server Snapshot'.
- MAIN BODY PANE:** The central area displaying server statistics:
 - Server: yourdomain.com
 - Up Time: 3 min 46 sec
 - DNS Name (default): yourdomain.com
 - Server Version: 5.5.4
 - Server API Version: 4.0
 - CPU Load: 1.00%
 - Current # of Connections: 0
 - Current Throughput: 0 bps
 - Total Bytes Served: 0 Bytes
 - Total Connections Served: 0

■ Darwin Streaming Server Interface



■ A Host name is selected using the free dyndns.org service

How WOL works is quickly explained: First you have to understand that every network card, every WLAN stick, every router, in other words, any device that in some way can be connected to a network operates using a so-called MAC (Media Access Control) address. This MAC address is a 48-bit hexadecimal character string that uniquely identifies each individual network device.

For the WOL feature this address is especially important since we really only want to remotely turn on one particular PC and not, for example, the PC in the work room or the Playstation in the living room. To turn on only one PC, you would need both its IP address and its MAC address.

Finding the MAC address is relatively easy using the command "ipconfig/all". The IP address on the other hand is a little more difficult to figure out.

A Host Address from One IP Address

If you happen to have a dedicated Internet connection, you merely have to identify the IP address in use to get things going. If, like most users, your Internet provider gives you a dynamic IP address, it doesn't help to know the IP address since it will change the next time the Internet is accessed.

Fortunately, there are free services, such as www.dyndns.org, that can tackle this problem. It's a small tool that operates in the background and monitors the current IP address. It sends this information to the dyndns.org server where it is combined with a fixed host

address. This host address is set only once and could, for example, be telesatellite.dyndns.org.

Once everything is correctly set up, you can use this address from any Internet access point around the world to connect to those IP addresses that are linked with your Internet access at home. Here's a little tip for you: if you connect to the Internet using a router or a DSL modem, you should check to see if the dyndns.org service isn't already directly supported. In such a case, the necessary data would be forwarded by the modem to the provider; maybe you don't even need that little Windows tool. This is the case with most routers and DSL modems.

If you know the IP address and the MAC address of your PC at home, the WOL inquiry can be sent via the Internet. It consists of the hexadecimal value FF six times followed by the MAC address of the desired PC. If the PC at home receives this data and if the MAC address is correct, the PC is turned on

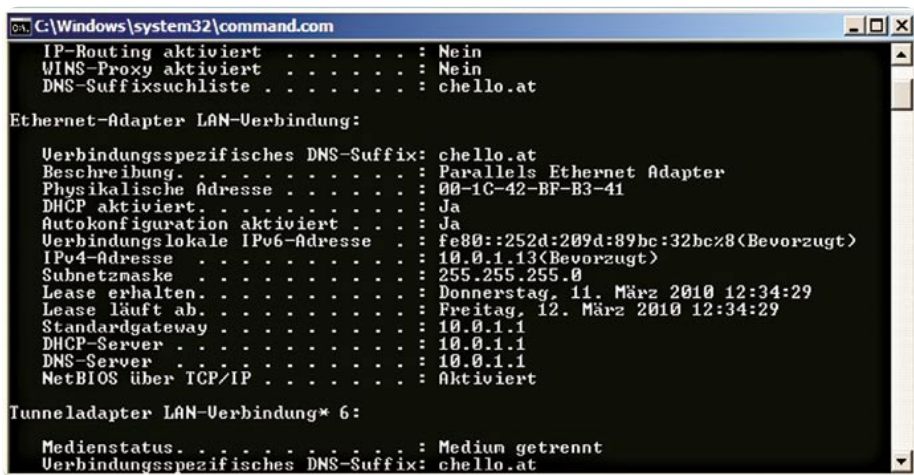
via the ACPI (Advanced Configuration and Power Interface). It is the central interface for turning your PC on/off and for power saving.

Now you need to be able to get past the Login screen. For Windows XP, Microsoft with its XP Powertools offers a tiny TweakUI program (<http://www.microsoft.com/windowsxp/downloads/powertools/Xppowertools.msp>) that will automatically logon for you. For Windows Vista and Windows 7, Microsoft has already integrated this capability in its operating system. If, for security reasons, you can't use automatic logon, you can configure RealVNC such that it will start before the Login screen appears so that you can login remotely just as you would if you were sitting in front of your PC at home.

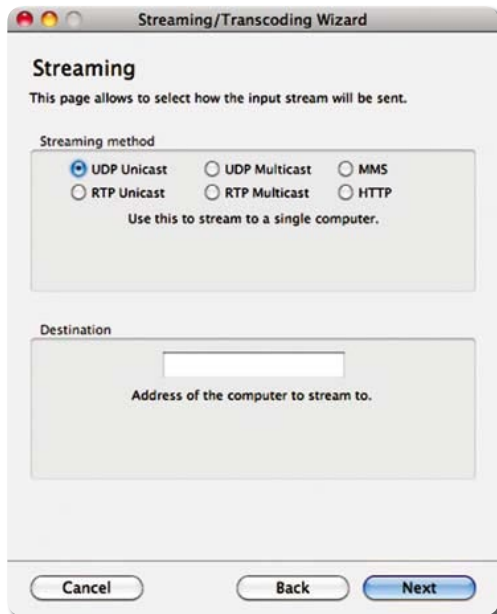
Capture Card

Thanks to WOL, the first hurdle has been jumped letting you remotely start your PC at home. The next step involves figuring out how the audio and video data will get from the receiver to your PC. This can be done with an inexpensive video capture card available from a PC shop starting at around 25€.

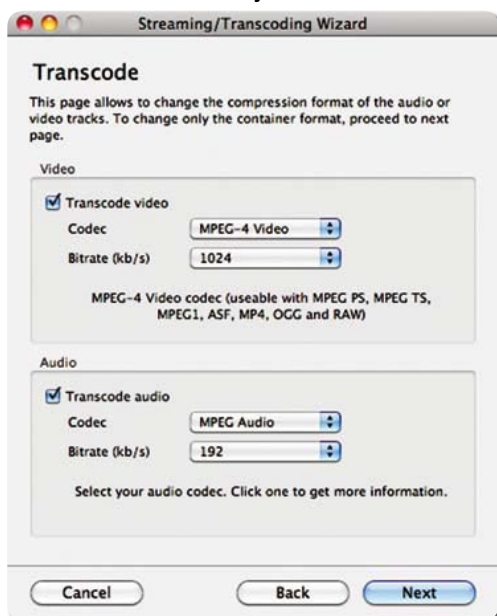
Installing and connecting the card should typically not be a problem; every well-known manufacturer provides the necessary drivers and setup tools that should make installation a snap. Most capture cards come with not only an analog or even digital terrestrial tuner, but also provide CVBS and S-Video jacks. The S-Video jack can be used but it isn't necessary since although it does deliver a better video signal, compared



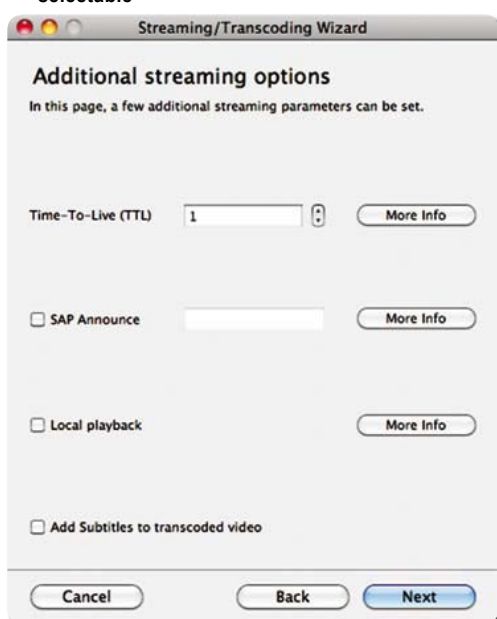
■ The MAC address can easily be found using Windows built-in resources



■ Multiple streaming protocols are available in the VLC Player



■ Even the compression is user selectable



■ Some additional streaming parameters

to CVBS you can't really tell the difference when transmitted via the Internet.

Choosing the Right Receiver

Thanks to the capture card, we can view audio/video signals from an external receiver on a PC but at the moment it's not possible to control the receiver via the Internet. When selecting the set-top box to be used, you should choose a model that comes with an integrated web server that will at a minimum let you control the basic functions of the box through an Internet browser. Such a receiver could, for example, be the AzBox Premium HD Plus that we just recently introduced in TELE-satellite issue 04-05/2010.

Ports

Our test PC is just about ready to go; the only thing missing is the necessary software to compress and process the audio/video data. And let's not forget this: if your PC is not directly connected to the Internet and instead connects using a router or DSL modem, these devices also typically function as a firewall and block all incoming connections including the WOL packet as well as the access to the receiver's web interface and the ports with the streaming audio/video content.

Before we use the necessary software to process the audio/video content, we first have to properly set up the router.

For that we want to set up pass-through of the corresponding ports for the WOL signal, for streaming, for receiver control and for the remote access of our PC. All incoming data from the Internet will now be forwarded by the router or DSL modem directly to the PC. The ports are freely selectable so you should make sure that there are no conflicts with ports that are already in use. For that reason ports between 4000 and 4100 can be used.

The Matching Software

If you search for "video streaming" using one of the larger Internet software portals, you'll be bombarded with hundreds of entries with corresponding software. But, thanks to Microsoft, it will also work with their Windows Media Encoder. If for some reason it isn't already installed on your PC, you can download it from Microsoft's website <http://download.microsoft.com>.

Once started, you simply identify the desired A/V source (in our case the video capture card), enter the selected router port and select the operating bandwidth. This of course would depend on your Internet upload speed which in most cases is slower than your download speed. You can start off small by selecting 50 or 100 kb/s. You can always increase this value at a later time if your Internet connection can support it.

Once all the settings are correct,



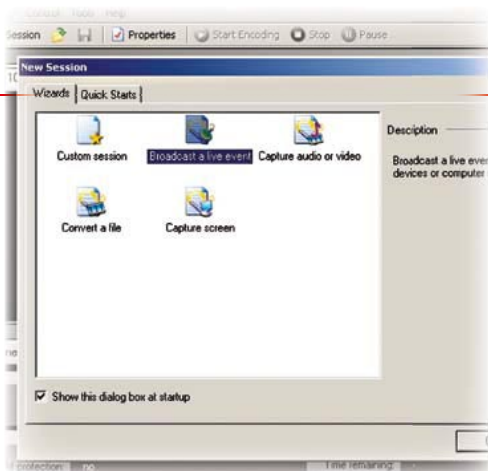
■ The VLC Player streams live and also receives

The background of the entire image is a dark, deep red. It is decorated with several bright red comet-like streaks that appear to be falling from the top towards the bottom. These streaks have multiple parallel lines and a glowing, fuzzy tail, giving them a sense of motion and speed. One prominent streak is in the upper left, another is in the upper right, and a third is in the lower right.

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■ The Windows Media Encoder main window

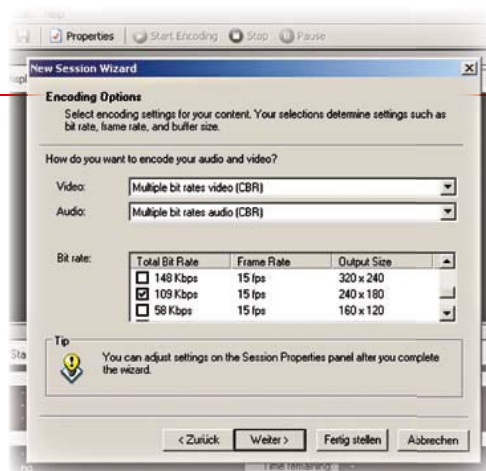
they are saved in a configuration file so that it can be recalled for the Windows Media Encoder at a later time.

In our test the preparation and initialization of the A/V stream functioned perfectly with the help of the video capture card. Even during an active transmission, the load on our test PC was not enough to prevent us from performing other operations on the PC quickly and at the same time.

On the reception side of things, the widely used Windows Media Player, a basic feature included with every MS Windows installation, can be used for reception. The stream is accessed via the menu item "Open URL" using an address such as "tele-satellite.dyndns.org:4001" where "tele-satellite.dyndns.org" is the host address and 4001 represents the streaming port.

Now we can not only watch A/V content on any PC anywhere in the world, but it's also possible through the receiver's web interface to control the receiver and turn on your PC remotely using WOL. This can be done either by sending the WOL signal via a command line request to your PC at home or by doing it through the website <http://www.dslreports.com/wakeup>.

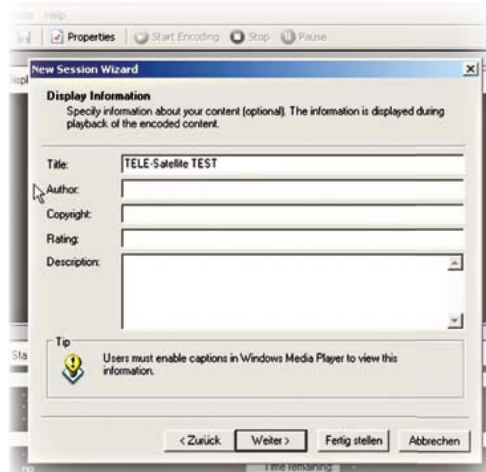
This leaves us with only one unresolved scenario: how do you handle



■ The compression bitrate



■ We used a Hauppauge video capture card for our tests



■ The stream is clearly identified

problems with the streaming software and how do you turn off the PC remotely?

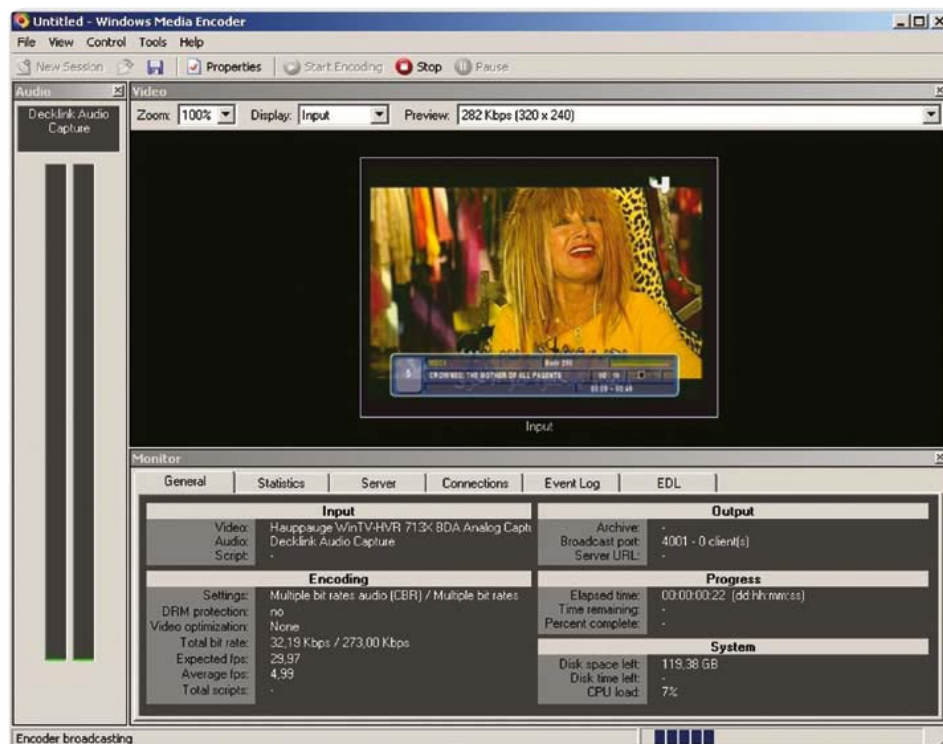
A number of Remote Access Tools are available to handle this. These would have to be installed on the PC at home as well as on a portable receiver (such as a laptop) and would allow you to



■ Either a direct connection is created or the stream is sent to a server



■ The desired port is user selectable



■ It's ready to go!

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view on your laptop the desktop, keyboard and mouse entries of your PC at home via the Internet. In this way you could, for example, be in a hotel room in Thailand and control all of the functions of your PC at home as if you were sitting in your living room right in front of it. This will let you not only correct any problems that might pop up with the streaming software but with just a few mouse clicks you can also put your PC at home in standby mode or shut it down completely. The software to do this could be, for example, RealVNC <http://www.realvnc.com> or LogMeIn <http://www.logmein.com>. Please note that a corresponding port in your router or DSL modem configuration must be opened. More information on which port or ports should be opened can be found in the user manual of the software you use.

Why Not Use the Streaming Function of a Digital Receiver?

Most modern PVR receivers come with not only the ability to remotely operate it using the web interface, but they also offer direct A/V streaming. It sounds like this would be a much better solution than using a PC and video capture card, don't you think? Well, our response to that is this: in a PC the compression of the video signal can be set to your requirements and above all should be based on the speed of your Internet connection. This isn't possible with the receivers integrated streaming solution and could lead to significant problems with a slow Internet connection. While the bandwidth can simply be reduced in the PC solution resulting in lower resolution and higher compression, you'd still receive an uninterrupted signal; digital receivers stream with a fixed bandwidth that might not be easy to transmit via a typical DSL connection that isn't all too fast to begin with. This is especially true if it involves high-resolution content.

Playing Back Videos on a Hard Drive

In addition to the ability to playback audio/video from external devices, wouldn't it be nice to also be able to stream video clips stored on a receiver's hard drive via the Internet? The Windows Media Encoder is not really meant for that purpose; The VideoLan Project

of the engineering school École Central Paris has exactly what you need to solve this problem. Some of you probably are already familiar with the VLC Player; it can play back all of the well-known audio/video formats on your PC. But it's this same video player that comes integrated with a streaming server that can easily be activated and then, similar to the Windows Media Encoder, can transmit all of your desired content via the Internet. Setting it up is a piece of cake; it's almost impossible to do anything wrong. You can download the VLC Player for free from www.videolan.org and it's compatible with numerous operating systems (Windows, Mac and Linux to name a few).

Mac

What about video streaming using a Mac computer? Not a problem. If you use the Mac OSX Server, you already have the Quicktime Streaming Server installed and it can be used in much the same way as the Windows Media Encoder. If you're only using the workstation version of Mac OSX, don't worry, the Darwin Streaming Server is an excellent open source software alternative that can be downloaded from <http://dss.macosforge.org>. Even here

it's possible in both cases to easily generate a stream that can then via RTP Protocol be compressed using various techniques (for example MPEG-4). Using the detailed documentation, all of the required settings are quickly taken care of thus making the system ready to use in just a very short time.

Conclusion

It doesn't matter if it's Windows or Mac, the transmission of A/V streams via the Internet has for the most part become part of our everyday lives thanks to highly efficient and readily available Internet access. Older PCs can be converted to a streaming server with just a few mouse clicks and you won't have to shell out a single dime for any new software. You only need to get a video capture card if you don't already have one.

One final note regarding security: every open port with a direct link to your PC poses a security risk. If possible, set up password protection and choose a secure password. If the streaming service won't be used for a period of time, it might be a good idea to close the port in your firewall configuration.

Software to Stream Via PC or Mac

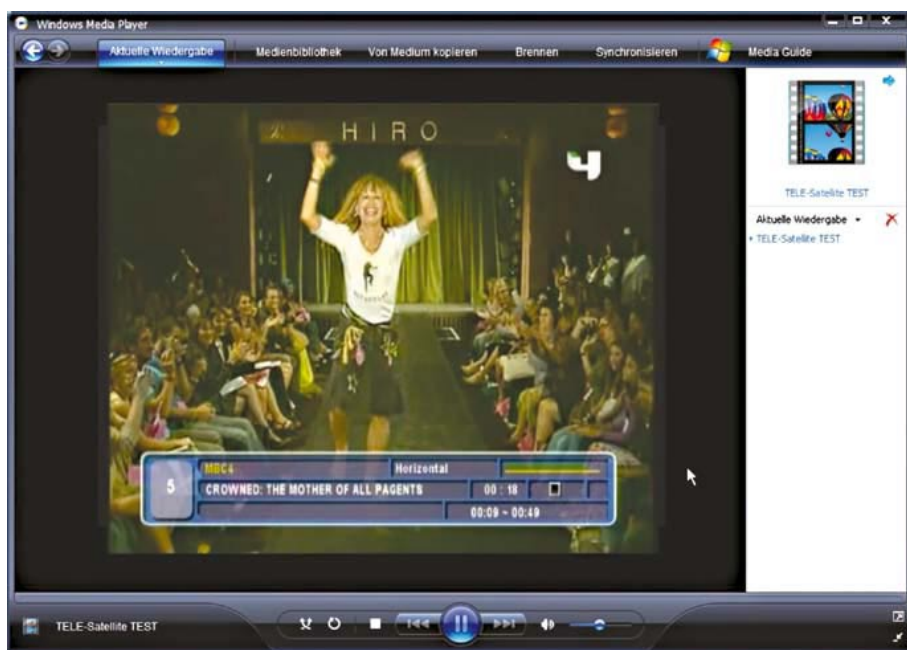
Windows Media Encoder - <http://www.microsoft.com/downloads/details.aspx?displaylang=en&FamilyID=5691ba02-e496-465a-bba9-b2f1182cdf24>

RealVNC - <http://www.realvnc.com>

LogMein - <http://www.logmein.com>

VLC Player - <http://www.videolan.org>

Darwin Streaming Server - <http://dss.macosforge.org>



■ The stream is received using the Windows Media Player



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- Low power consumption



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- Support Timeshift function & PIP function
- Multi-language OSD supported
- Electronic program guide (EPG)



HD DVB-C H.264 CA

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- CAS support such as Irdeto, Conax, NovelSuperTV, Sumavision
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- Dynamic Hi-Fi Stereo Sound System
- Digital album or slide show through USB2.0



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- USB: PVR, photo viewing, mp3 file playing



SD DVB-S/S2 H.264 CA

- Fully DVB-S and DVB-S2 compliant
- MPEG2/4, H.264 decoding (MP@HL/ML)
- CAS support such as Irdeto, Conax...
- Electronic Program Guide(EPG)
- USB: PVR, photo viewing, mp3 file playing



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SIZE: 107mmx85mmx26mm



COMBO-JET



SAT-JET



SIZE: 129mmx101mmx35mm

Installation Meter & Full Measurement Device for DVB-S & DVB-T
 Input Frequency : 950~2150 MHz [DVB-S] & 46~868MHz [DVB-T]
 Input Impedance : 75 Ω , Input Level -65~-25dBm
 BER, S/N (MER), FEC Measurement, [DVB-S]
 BER, S/N (MER), CON, GUA, MOD Measurement [DVB-T]
 Auto Search, Blind Search, NIT Search, Manual Search [DVB-S]
 TP Scan, Auto Full Frequency Scan [DVB-T]
 DiSEqC1.0/1.1/1.2, USALS Supported [DVB-S]
 13V/18V, 22K [DVB-S] & 5V/12V/18V/24V output support [DVB-T]
 Real Time & Multi Analyzing Spectrum for both DVB-S & DVB-T
 Dish Antenna Angle Calculator [DVB-S]
 Multi-Language OSD: English, German, French, Spanish, Italian, Swedish, Russian, Arabic, etc.
 Global Satellite List [DVB-S], Global UHF & VHF Frequency List Selection [DVB-T]
 LED & Audio Indication for Signal Lock
 Satellite Name & Degree Auto Detect & Display [DVB-S]
 Multi-Channel (8) Simultaneous Measurement [DVB-T]
 Satellite List Editable by Editor via PC
 3.5 Inch High Definition TFT LCD Screen
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Jiuzhou DTT6720

HDTV even via a Terrestrial Antenna



When digital antenna TV (DVB-T) began to take the place of analog transmissions a few years ago, it turned out to be quite a shock for many end-users in Europe. If you already had a good antenna on your roof that you used for analog TV, you could only receive a few channels but those channels came with extremely sharp pictures in the best possible quality. But once the change to DVB-T took place, the few usable DVB-T frequencies available in many countries were stuffed with channels that seemed to be based on the idea "Quantity before Quality" resulting in many cases in poor picture quality.

Many viewers were not happy with the unclear, overly pixelated DVB-T picture. The only alternative until recently was satellite reception where data transmission rates, that directly correlate with the picture quality, were substantially better.

But there's still hope for DVB-T. Recently, a trend began that first appeared in cable and satellite TV and that now has started making its way to DVB-T: namely the appearance of channels that are presented in high resolution. This will compensate for the poor quality often seen in DVB-T; the end user will once again be provided with exceptionally sharp, detail-rich pictures.

Jiuzhou is one of the first companies around the world to have reacted to this trend and already offers a wide variety of HDTV compatible



DVB-T receivers including their newest receiver the DTT6720. It operates using an STI7101 HDTV chipset and can therefore handle content in MPEG-2 HD and H.264 HD.

The front side of the receiver is, as we have come to expect from Jiuzhou, designed with elegance in mind and is highlighted by a reflective stripe that runs down the middle. An easy-to-read segmented display shows the channel number as well as additional abbreviated information while two LEDs to the right indicate the current operational mode.

The manufacturer also included a pair of CI slots hidden behind a flap on the right side that can handle any of the popular modules. There are also seven buttons that can completely control the receiver if the remote control should go missing.

The rear panel is very nicely equipped and once you see the HDMI jacks it quickly becomes clear that

this box is HDTV compatible. There's also an RF signal input with looped-through output, an RS-232 interface, optical and coaxial audio outputs, a type A USB port for connection with external storage media, two Scart connectors, a total of six RCA jacks for YUV, stereo audio and CVBS video and last but not least a mechanical power switch.

The included remote control is somewhat small but is still easy to use with buttons that are comfortable to operate. Unfortunately, our test unit didn't come with a user manual but it will certainly be included with the production models.

Installation

After turning on the DTT6720 for the first time, the Installation Assistant appears and asks the user to choose between English, Polish, French, German, Russian and Ukraine as the OSD languages. In the next step the receiver asks for the current location so that it can adjust itself to local DVB-T reception.

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Available online starting from 28 May 2010

Oddly enough, there are more countries to choose from here than there were for the OSD language. You can choose between Germany, France, Italy, Denmark, Sweden, Norway, Finland, Holland, Spain, Russia, Chechnya, Lithuania, Croatia, Hungary, Estonia, Slovakia, Slovenia, Poland, Portugal, Australia, The United Kingdom and the Ukraine.

The control voltage for an external antenna amplifier can also be turned on or off here in the Installation Assistant. At the same time the user can decide whether the channel list should be presented in frequency order or if they should be individually sorted.

Then of course the desired picture format needs to be selected (4:3, 16:9 as well as 4:3 on a 16:9 TV). As you would expect with a high quality receiver like the DTT6720, the internal clock can be set automatically by using the time signal in the DVB-T data stream or it can be set manually by the user.

After these settings have been taken care of, the receiver automatically begins a channel scan. The DTT6720 needed only about a minute to complete the scan and identify all the active frequencies.

The Jiuzhou receiver was even able to properly recognize a rather weak test signal without any problems. The Installation Assistant closes after the channel scan and then switches to the first receivable channel.

Everyday Use

As expected, a push of the OK button displays the channel list. Considering the relatively limited number of DVB-T channels that are available, the receiver doesn't offer any other options such as sorting the channel list alphabetically. Every time the channel is changed, the receiver displays an Info bar at the bottom of the screen that contains the program





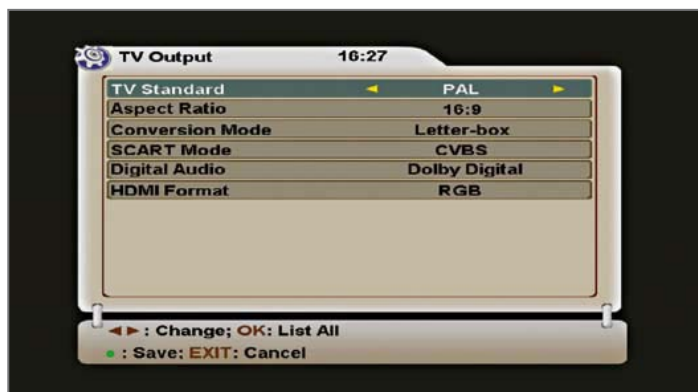
Automatic Channel Scan |



Manual Channel Scan |



EPG |



Video Output Settings |



Info Bar |



Overview of Recorded Programs |



JPEG Viewer |



Antenna Settings |



Main Menu |

name as well as the channel's technical parameters such as resolution, encryption, available audio tracks, subtitles or teletext. Additional programming information can be displayed by pressing the Info button.

The font of the displayed text is rather large with an OSD window that is somewhat small; some scrolling

of the text is needed so that it all can be read.

The Electronic Program Guide (EPG) can be used to display programming information for the next several days. Unfortunately, the receiver needs some time to display this information, but once it's there, it's displayed in a clear and easy-to-read format.

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Timer entries can be set up directly from the EPG with the help of the blue function button so that you won't miss your favorite program ever again.

We also liked that there was a dedicated button on the remote control to select the current picture resolution making it very easy to match the aspect ratio. A similar button also exists to select the desired audio and subtitle languages. In this way you don't have to first muddle through the main menu to make the necessary selections.

Since it is likely that high resolution content will at some point in the future be encrypted requiring you have to pay a subscription fee to make it visible, Jiu-zhou decided to include two

CI slots in the DTT6720 that can be used with a variety of modules such as Viaccess, Cryptoworks, Nagravision or Conax.

To set up the receiver to your personal tastes, a simple push of the menu button is all that's needed to bring up the easy-to-understand main menu on the display. Most of the settings were already handled through the Installation Assistant so that now there are only a few additional options to select.

First of all there's the channel list editor that can not only rearrange channels in the list, but can also delete unwanted channels or lockout other channels with a PIN code to prevent them from being viewed by the kids. Popular chan-

nels can be moved over to a Favorites list so that they can be more easily found at a later time.

In addition to the automatic channel scan we saw while the Installation Assistant was active, there are also expanded and manual channel scans available. In the manual scan, the user enters in the desired frequency to be scanned while in the expanded scan the manual frequency can be obtained from the channel number. In this way, extremely weak signals can be found and processed.

The DTT6720 can handle both the PAL and NTSC color standards and can also automatically distinguish between the two from a received channel. CVBS and RGB are the available Scart

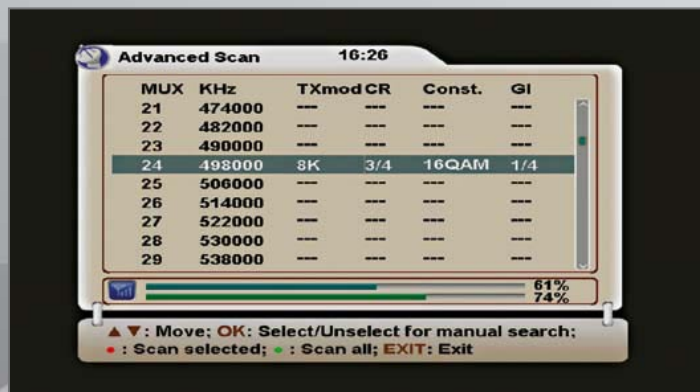
video outputs; the HDMI signal output is available in 576p, 720p and 1080i.

A variety of OSD settings as well as an integrated teletext decoder have given us an overall positive impression of this receiver.

Especially noteworthy is the outstanding picture quality available from the HDMI output; it can present SD channels in remarkable quality. Switching between channels takes place extremely fast making channel surfing fun again.

PVR and Multimedia

As we mentioned at the beginning of this test report, the receiver comes with a Type A USB jack on its rear panel allowing you to connect external storage



Expanded Channel Scan



Selecting the Desired Resolution



media such as a USB stick or a hard drive.

As soon as an attached device is recognized by the receiver, it automatically melds with the rest of the system thus activating the PVR features. These features include recording one channel while watching another channel on the same frequency or a previously recorded program at the same time.

The integrated Time Shift function is very practical: it lets you pause the viewing of a live program. While watching a recording or while in Time Shift mode an elapsed time indicator can be displayed at the bottom of the screen showing the current position of the recording.

It also goes without saying that you can fast-

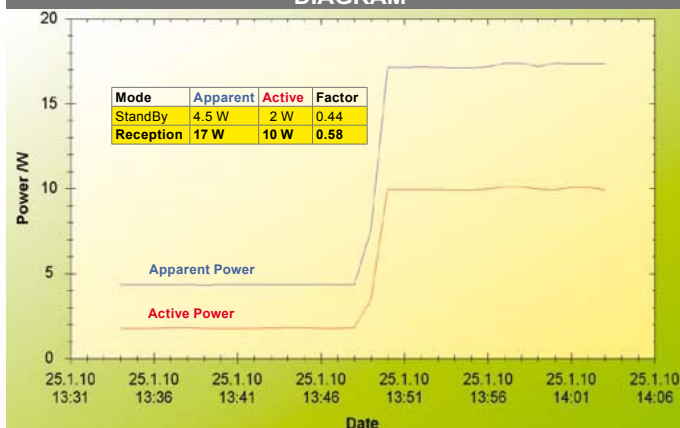
forward or rewind a previously recorded program or do this while in Time Shift mode and this naturally at different speeds.

In addition to your own recordings, the Jiuzhou receiver can also play back MP3 content through an included MP3 jukebox. A JPEG picture viewer is also available.

If the external storage device should ever get filled up, individual recordings can be manually deleted or you could simply let the receiver perform a complete reformatting of the attached device.

For those lengthy commercial breaks, the manufacturer also thought to include four video games (Sudoku, Tetris, Snake and Box) to help pass the time.

ENERGY DIAGRAM



First 15 minutes: Standby. Second 15 minutes: Active use with channel switching, recording, playback, etc.

Expert Opinion

+

The DTT6720 is one of the first HDTV receivers for DVB-T and has proven once again that the company Jiuzhou is a leader when it comes to new technical developments. It's a fully-featured, easy-to-use box that would be fun for the whole family. Thanks to the included PVR function, the receiver lets you record your favorite programs. It can also be used as an MP3 jukebox as well as a picture viewer.



Thomas Haring
TELE-satellite
Test Center
Austria

-

During our tests, the software locked up on us twice and could only be reset by completely restarting the receiver. We were also a little irritated that the display and the LEDs on the front panel remained lit even when the main power switch was turned off; they remained lit until the power cord was unplugged. That makes the main power switch rather useless.

TECHNICAL DATA

Manufacturer	Sichuan Jiuzhou Electric Group Co., Ltd. 16#, Yuejin Road, Mianyang 621000, Sichuan, China
Fax	+86-755-26748419/26948236
Email	huangwei@d-telemedia.com
Model	DTT6720
Function	Digital PVR DVB-T Receiver for SDTV/HDTV in MPEG2, MPEG2 HD and H.264HD
Channel memory	1000
Tuner input	VHF: 164-468 MHz UHF: 468-858 MHz
Modulation	COFDM
HDMI connector	yes
Scart connector	2
Audio/Video output	3 x RCA
YUV output	3x RCA
S-Video output	no
UHF modulator	no
Digital audio output	yes (optical and coaxial)
EPG	yes
PVR function	yes (via external USB 2.0 media)
Power supply	90-250 VAC, 50/60 Hz
Operating temperature	0-45°C



Editing the Channel List



Satcatcher Digipro T Max

Bringing the fun back to aligning a terrestrial antenna!

In the past TELE-satellite has already published a number of test reports for Satcatcher's DVB-S installation meters, and this time we'll be looking at a DVB-T model which covers a reception mode that is just as interesting. Digital terrestrial television has gained enormous momentum in recent years and these days almost all corners of the earth are covered with some type of digital terrestrial signal. What's more, analogue terrestrial transmission has become a thing of the past in many countries, or is currently on the verge of being superseded by digital signals. All this actually makes a lot of sense, too, as the bandwidth taken up by a single analogue channel can be used to transmit five to seven SDTV channels or two to three HDTV channels. As we're experiencing an ever-growing number of terrestrial channels all over the globe, the analogue switch-off is something that has to happen sooner or later.



In the analogue age it was quite easy to correctly align a terrestrial antenna: You simply took a small TV set, hooked it up to the antenna and started moving the antenna until a picture with little or no noise popped up on screen.

In the digital age the new motto seems to be 'no pain, no gain'. For one thing, most small TVs don't come with a built-in DVB-T receiver, so you'd have to drag a receiver up to the antenna as well. In addition, a key feature of digital transmission is error

correction, which means marginal signal strength might still whip up a perfect result on your screen as long as reception conditions are right. Come bad weather, though, you'll be left with a blank screen or frozen image – and the digital revolution might easily turn into a family resolution on the living room sofa.

Satcatcher comes to the rescue with its new Digipro T

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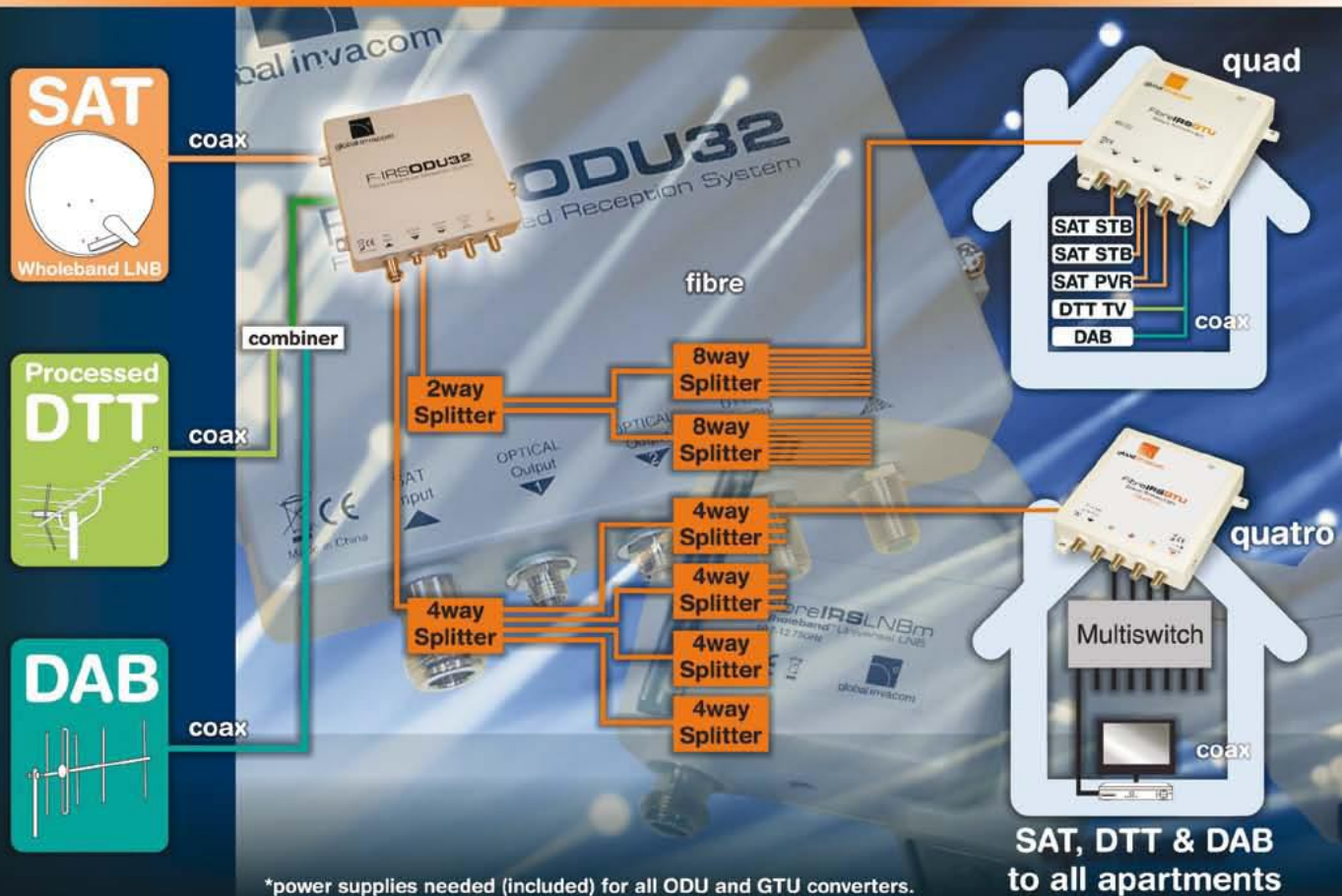
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completing the picture

Max, a signal meter that has been specially designed for the DVB-T market. If you live in areas with a differing digital terrestrial transmission technology such as ASTC, ISDB-T or DMB-TH Satcatcher has the appropriate model on offer too, or is currently working on it. As soon as we had opened the packaging there it was: The top-notch aluminium flight case that we have come to expect from Satcatcher. It makes sure the delicate meter can be safely stored and transported, and the fact that it looks rather sexy is a nice little bonus too.

The Digipro T Max itself weighs 1.6 kg and measures 25x12x6 cm, which makes it easy to handle and to carry along. We loved the fact that Satcatcher found a clever way of distributing weight inside the meter so that you always have a good grip and probably won't ever accidentally drop it. A protective bag keeps away moist, dust and dirt from the device, while at the same time allowing access to all sockets and the display, which itself is protected by a see-through foil.

Speaking of the display – with its high-resolution TFT technology and 3.5-inch diameter it is very easy to read even in direct sunlight.

For extreme situations the manufacturer includes a sun visor which can easily be attached to the bag, if need be. This way blinding sunlight won't get in the way of doing your job.

A total of 26 buttons are available to operate the Digipro T Max, all of which are located on the top side of the meter's housing. Apart from the standard on/off switch and a cross-shaped navi key, Satcatcher also added five keys with dedicated functions as well as four keys with user-defined functions. Making full use of these four keys it becomes child's play to work with the latest Satcatcher model.

On the bottom side there is the USB interface for connecting the meter to a PC as well as the socket for the external mains power charging unit which is used to supply energy to the built-in battery pack. While we're at it: the internal battery lasts for five to six hours of continuous operation and doesn't take longer than four hours to be fully recharged. 'Excellent' is the word that springs to mind!

Thanks to the generous supply of accessories that comes with the meter you can either re-charge the battery

from the mains or by using the car charger while on the go. Professional installers will particularly appreciate this second option to keep their meter ready to use all of the time and to use travel time from one customer to the next for charging.

The aluminium flight case also includes a strap for carrying the Digipro T Max like a shoulder bag, a USB cable for PC connection as well as a mini CD-ROM with all required software. The user guide is available as PDF on the CD-ROM and is both comprehensive and easy to navigate through. It will provide an answer to almost any question you may have in connection with using the Digipro T Max.

The new Satcatcher DVB-T meter boasts excellent workmanship and creates a comfortably reassuring first impression, even though the meter housing is made of plastic rather than metal. We should note that our testing crew unanimously was of the opinion that the manufacturer's decision to go for plastic instead of metal was absolutely right. After all, every attempt at reducing the final weight of a mobile meter deserves special praise, not least from professionals who

have to carry it around all day long.

Everyday use

Right after switching on the signal meter the main menu pops up, which is divided into eight sections. The default language of the OSD is English. However, Satcatcher will provide region-specific customised versions of the Digipro T Max to local distributors. Unfortunately, it is not possible to change the OSD language in a dedicated menu item. All you can edit in METER SETUP is the threshold level for the meter to start processing a signal, and the desired unit for measuring the signal (dBm, dBµV or dBmV).

You may also set a certain time of inactivity after which the meter switches off automatically. This avoids wasteful usage of battery capacity and provides ease of mind in this day and age of diminishing resources. Satcatcher has come up with a nifty feature consisting of pre-stored frequency lists, something the manufacturer calls channel plans. The Digipro T Max can store up to 15 channel plans with a total of 500 individual frequency entries.

All meters are shipped with a complete frequency list for the UHF/VHF bands as well as with a special list for Great Britain. This does away with the tiresome job of selecting a channel using the spectrum display or manual frequency input. A simple touch of a button in the frequency list is all it takes to select a channel for scanning. To top it all, Satcatcher even allows users to assign names to individual frequencies, so that frequently used entries are found in a second.

The Digipro T Max is very strict in distinguishing between analogue and digital



signals, which is why the pre-stored frequency list includes two entries (analogue and digital) for each channel. If a channel is selected manually the meter prompts the user to select whether that channel is analogue or digital. A separate menu item allows user to edit the frequency lists directly on the meter. As a more convenient option you may install the software provided on CD-ROM and do all your editing with an easy-to-use Windows tool.

A new frequency list can easily be loaded and activated in a dedicated menu item of the Digipro T Max. During this process the currently active frequency list is cancelled and replaced by the new one. This allows professional installers to create different lists for different regions, with each list including only those frequencies that are in active use in any given region.

Apart from making the meter a lot easier to use this also speeds up work processes and therefore can help save real money. We chose to align a UHF antenna for DVB-T reception in our test. It didn't take us long to prepare all required hardware and we then started out with connecting the Digipro T max to the antenna with a coax cable.

The spectrum display indicated right away that three active DVB-T frequencies were available at our test location in Vienna. The meter even showed very weak frequencies intended for different regions. Signal peaks of these out-of-area frequencies were clear to notice in the spectrum. The navi key is used to place the cursor on any desired frequency within the spectrum display and it is possible to conveniently enlarge certain sectors thanks to a number of pre-defined

bandwidths (full, 500, 200, 100, 50, 32, 16, 8 MHz). After pressing the "TEST" function key the meter checks the currently selected frequency and after a short moment informs the user whether or not a usable signal is available and – more importantly – what type of signal it is.

If you know the frequency you're looking for you can of course also enter it manually – something that is possible in all menus of the Satcatcher Digipro T Max. This, too, may save valuable time for professional installers. If you don't need a real-time spectrum display but rather prefer in-depth information you should look at the meter's automatic channel scan. It covers all entries of a frequency list and uses colour-coded bars to present results.

A yellow bar indicates an analogue signal, for example, while yellow/blue stands for analogue radio, white for digital TV, black for DAB and green for FM radio. One glimpse is all it takes to get an overview of what is available at the present location. Similar to spectrum mode, here too the navi key can be used to change between frequencies and once the desired entry is marked it only takes one more touch of

a button for a closer look at the signal.

Once a frequency has been activated from the pre-set list, identified after scanning, selected from the spectrum display or entered manually, the next step usually is to perform a signal test. The Digipro T Max has a dedicated function key for this step and it instantly shows the signal strength in dBm, dBµV or dBmV for the audio and video frequencies of analogue signals and for the carrier frequency of digital signals.

If a digital signal is received, MER (Modulation Error Ratio), C/N (Carrier to Noise Ratio), CBER (Channel Bit Error Rate) and VBER (Viterbi Error Rate) are displayed as well, so that you get a realistic impression of signal quality and applied error correction.

The meter reacts quickly to any signal changes and thus provides very reliable feedback when aligning an antenna. If all that still is not enough for some, Satcatcher offers some icing on the cake and has equipped its Digipro T Max with the option of locking into a DVB-T frequency and showing its channels on screen. This way you can easily use NIT data to find out which frequency you're

on, but you can also watch the channel directly on your signal meter.

The only minor drawback is that this sweet extra bonus does not work with analogue television signals. However, this is easily made up for with the option to call up a COFDM (Coded Orthogonal Frequency Division Multiplexing) constellation diagram for thoroughly analysing a signal. This is a feature clearly targeted to professional installers, who will greatly appreciate this.

It goes without saying that the Satcatcher Digipro T Max is compatible with all DVB-T modulations, meaning it will work with QPSK, 16 QAM and 64 QAM. The closer the dots shown in the constellation diagram are to each other, the better the signal. For those of you with an active signal amplifier the meter can be set with the +/- buttons to generate 5V or 12V current on the antenna output to power the amplifier. Satcatcher models for certain countries, like France, Spain or Portugal, have set these outputs to 5V and 24V to feed amplifiers in use there.

And since the new Satcatcher signal meter is compatible with FM and DAB as well, antennas for these fre-





1. Analogue signal measuring
2. Signal scan across the complete UHF frequency range
3. Spectrum display
4. Various basic setting for signal measuring
5. Eight segments make up the main menu
6. DVB-T channels can be watched on the monitor
7. COFDM diagram for signal analysis
8. Signal information of a frequency with digital content
9. The complete UHF and VHF bands (analogue as well as digital) are included in the pre-stored frequency lists
10. Frequency lists can be edited either directly on the meter or conveniently on the PC

quency ranges can be aligned just as easily. While in FM mode the meter shows the signal level right away, and if required the signal audio can be put out and checked with the touch of a button.

The same is true for DAB signals. We tested both modes and found that setting up both UHF/VHF and FM antennas was as easy as 1-2-3.

Towards the end of our test we attempted to push the Digipro T Max to its limits by trying to align a UHF antenna in a way that allows reception of extremely weak signals. Thanks to signal level changes being shown in real-time this was achieved in next to no time at all.

This way we were even able to receive DVB-T signals not intended for our local market,

even though error correction had to work overtime and the signal broke down every once in a while.

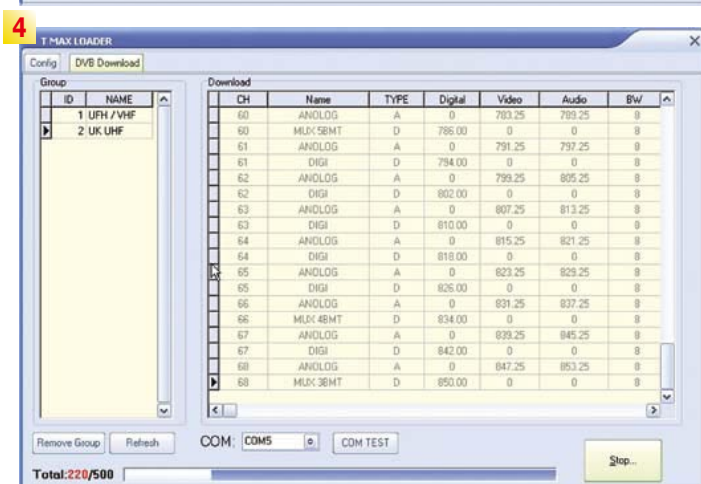
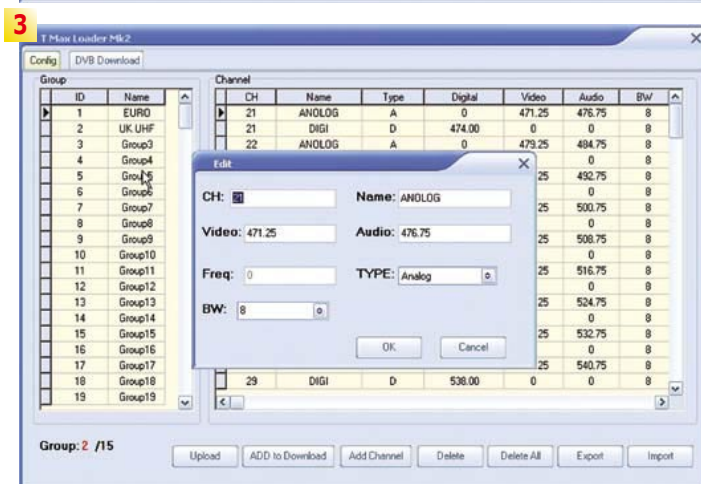
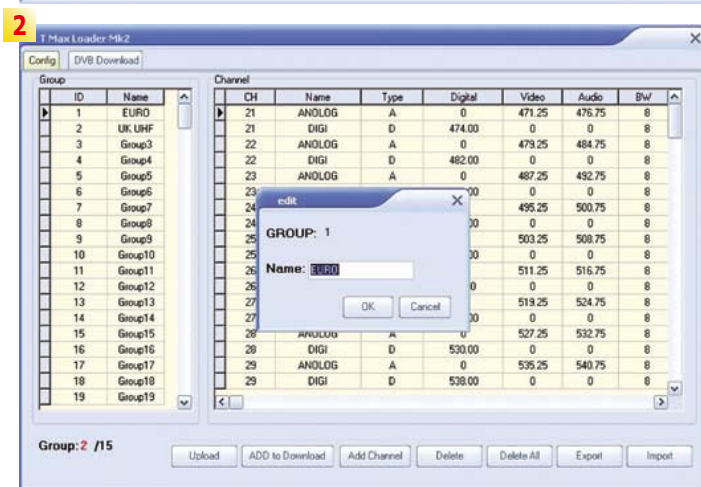
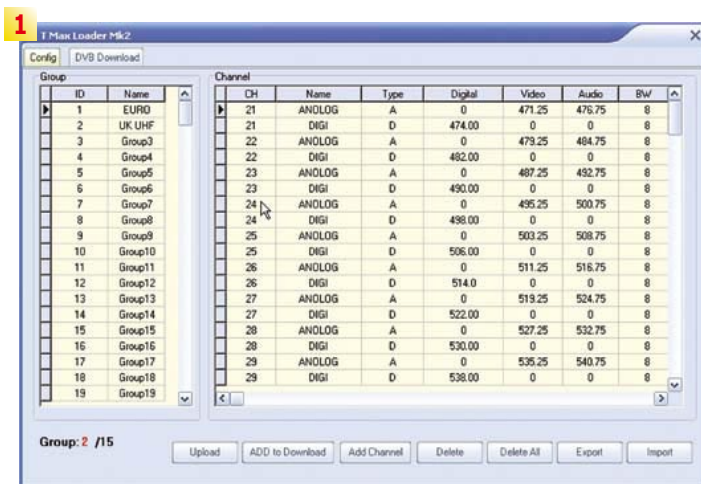
PC connection

We mentioned above that up to 15 channel plans can be stored inside the Digipro T Max. While these can of course be edited in the meter itself, a much more convenient way of managing these

entries is by connecting the device to a PC.

That is why the T Max comes with a USB interface and USB cable so that any Windows-based PC can be used to manage the meter's data. All required drivers and software components are available from the CD-ROM that comes with the meter.

We used one of our Windows



XP computers and can assure you that installation happens in a breeze and it was easy and self-explanatory to edit frequencies and transfer data back to the meter's memory.

Once again Satcatcher has hit the jackpot with this new meter and it's safe to say the Digipro T Max will join the ranks of other highly successful Satcatcher signal meters.

After models for DVB-S and DVB-C it is the perfect addition to complete the manufacturer's range.

Offering a perfect balance between ease of use and myriad features, and characterised by solid workmanship the Digipro T Max is right on track to bringing back some fun to UHF/VHF and FM antenna alignment jobs.

Expert Opinion

Ease of use, a large range of features and good workmanship are the most important attributes of the Satcatcher Digipro T Max.



Thomas Haring
TELE-satellite
Test Center
Austria

Only DVB-T channels can be watched on the meter's display. For analogue TV channels this option is not available.

TECHNICAL

DATA

Distributor	SatCatcher, Unit 7 Salvesen Way, Hull, East Yorkshire, UK HU3 4UQ, United Kingdom
Tel	+44 (0) 148 222 15 77
Email	sales@satcatcher.com
Model	Digipro T Max
Type	Signal Meter for DVB-T, analogue TV, digital DAB radio, analogue FM radio
Frequency range	46~870 MHz
Level range (COFDM)	35 dBuV ~ 110 dBuV
Level range (analogue)	25 dBuV ~ 120 dBuV
Level measurement accuracy	+/- 2dB
MER	19-32 dB
BER	10E-2 to 10E-8
Demodulation	QPSK, 16 QAM, 64 QAM
Input impedance	75 Ohm
Power supply	Up to 5 hours without recharge
Supplied items	Protective case, fold away sun visor, software CD, user guide, mains charging unit, car charger, USB connection cable
Dimension	250x120x60mm
Net weight	0.8kg
Gross weight	1.6kg
Working temperature	0°C ~ +40°C
Display	3.5" LCD color display

1. All frequency lists can easily be edited on the PC
2. New frequency lists are added with a single mouse click
3. Same for new frequency entries
4. Once you're done with all your editing the new data are sent back to the Digipro T Max via USB connection

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Available online starting from 28 May 2010

■ The lady's choice: pink mesh dish from INFOSAT in Thailand, here mounted in Romania, giving my neighbours a rare view

From INFOSAT in Thailand

A light, strength, easy to assemble PINK dish

In TELE-satellite 06-07/2009 we presented the satellite antenna manufacturer INFOSAT from Thailand. The report was accompanied by a picture of a big antenna made of pink-colored mesh, which was also on the magazine's cover. It was one of the most eyecatching items of this manufacturer. About 5% from the sales of the 1.5 m antennas were of pink color, because this colour was preferred by ladies. In that moment the explanation amused me and I didn't anticipate that soon I would see such dish appear in my garden in Romania.





1



2



3

1. The INFOSAT mesh dish in its packaging after a long journey over the oceans

2. Our first test: my daughter Iulia with her 30 kilograms does no harm the dish

3. Now it's my turn: my 100 kilograms leave the INFOSAT mesh dish unimpressed!

4. Assembling the dish



4





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Attn: Joseph



1. Fixing the dish holder

2. Mounting the LNB holders

3. Next day: fixing the Feed

4. Now the fun starts: checking the satellites with the pink dish

the previous theory, my wife chose the pink antenna to be tested for this report.

Installation

Obviously the first test was to check, if it hadn't been a fake photo in which Niran Tangpiroontham, the owner of INFOSAT (see page 76 in TELE-satellite 06-07/2009) stands on the skeleton of an upside down antenna. Carefully, I placed my daughter Iulia on the antenna, thinking that if it will bend I'll have to pay for it, but as expected the 30 kilos of Iulia were enough to hold her.

Then I tried something bigger, me and all my 100 kilos, and guess what - the antenna holds; high strength steel, good quality, superior welding in INFOSAT workshops gives the warranty that this antenna will not bend or deform even at raging storms or big gusts of winds.

I started installing after unpacking and the strength test with my daughter and me. Unfortunately an installation manuals was missing, so we had to figure out ourselves how to mount everything together, which wasn't really hard in the end.

Although the pillars had some fixation points welded on the lower part that ease the installation on a wall or flat surface, we decided to install it on the ground, because the photos for this report were then easier to make. We began by fixing the two plates with screws of the antenna support equipment, then we set the antenna mount



After a long journey over the ocean and all along Europe, my package finally arrived and the courier company phoned me: I was to receive a special package from Thailand. Nine 1.5 m antennas, mesh types, in three colours: black, blue and pink.

Despite the fact that they had passed through many shipping companies, the packages were in a good shape. The antennas were packed in three, for each colour, in boxes. Separated, in other two boxes were the piles to put the antennas on and the sustaining stems for the LNBs. The other components (screws, nuts, antenna catching elements) were deposited in a separate boxes for each antenna.

I unpacked the antennas in order to test one. Mesh type dishes are pretty rare in Romania, because here mostly smaller Ku-Band dishes are used. For this reason the antennas presented an unusual interest from my neighbours around. And to confirm



and screws that fix the pole mount. Finally we mounted the support rod for the LNBS.

The dishes didn't come with LNBS or feed holders, so we had to use our own LNB with feedhorn. It took us some while to mount and a further few minutes to align the dish. But then a dream come true for any dish installer: no more wasted time with joints or aligning antenna segments.

Conclusion

A light antenna, ease in installation, took only 20 minutes to mount, highly resistant, with a major interest in rainy areas because no water deposits. No storm will damage it and if it will fall from the pillar the high strength of the material, the reinforced steel used and the good welding will not damage the antenna.

Expert Opinion

+

Lightweight antenna, easy to mount, the aluminium mesh does face the wind well, the metal skeleton can not be deformed easily.

-

No installation manuals.



**Albescu
Cristian-Eugen**
TELE-satellite
Test Center
Romania

4



Horizon HD-CM Cable Meter

Fast and Practical

Cable technology is a bit different than satellite technology. This new Horizon cable meter won't show you a frequency spectrum nor will you see any TV video. But are these features really necessary and would you be willing to pay for them? Think again. These questions are especially appropriate when it comes to cable networks. In satellite TV, a channel could occupy any frequency within a band, but in cable TV there is always a channel plan with precisely defined channel frequencies. There's no need for any fine frequency adjustment where a spectrum view could help. The channel plan may differ from region to region in the world (there are several different plans) but once you know the country, you know the band plan. What you really need to know is the signal strength and quality of every channel that is supposed to be present at a cable TV wall socket. This becomes a piece of cake if you happen to own Horizon's HD-CM signal meter.

Horizon offers the HD-CM in two flavours: one comes with the DVB-C specifications for the Americas (annex B, Open Cable), and one version for the rest of the world (annexes A and C).

When you open the package that the HD-CM came in, you'll find the meter in a black carrying case, an AC power cable, a DC car charger and a

USB cable. The battery pack is already installed inside the HD-CM.

A rain cover attached to the front panel serves to protect the display and keyboard from the elements. Horizon recommends keeping the cover in place at all times; we removed it only to take pictures of the meter. The only thing missing was a connec-

tor adapter. In some countries, IEC169-2 connectors are used instead of F connectors.

Attaching the quick-start guide to the cover was a brilliant idea. If you don't use the meter everyday or use a number of them (like TELE-satellite test editors do) it really helps. The meter is enclosed in a small plastic housing that is quite typical for Horizon. You can order the HD-CM meter in any color as long as it's blue.

The front panel is black with clearly visible yellow labeling. Four arrow buttons are all you need to operate this meter and it comes with a 128x64 pixel backlit LCD that is easy to read.

When on the road, you can charge the meter using the included car charger; just lift the Velcro flap on the carrying



case and plug the car charger cable into the charging port.

Next to the 12 VDC socket, there's a USB port for connecting the meter to your PC. The AC power socket can be found on the rear panel behind another Velcro flap in the carrying case.

All Horizon meters come with built-in power supply units. To charge the internal batteries, there's no need to use an external power supply, just a cable. It doesn't get any more simple and convenient than this.

When using the meter for the first time, it would be a good idea to charge the battery for at least eight hours. It's a high capacity Ni-MH 3300mAh battery and can provide nine hours of operation from a single charge. If necessary, the battery can be replaced by opening a flap on the bottom side of the meter.

You might think that a meter that comes with a battery and an AC power supply built into it would make it heavy, but that's not the case with the HD-CM; it weighs only about 1 kg. The printed user manual included in the package is detailed yet very easy to understand.

Overall, our first impression of the HD-CM is that of a

TELE-satellite World

Download this report in other languages from the Internet:

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Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-1007/bid/horizon.pdf
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Hebrew	עברית	www.TELE-satellite.com/TELE-satellite-1007/heb/horizon.pdf
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1007/tur/horizon.pdf

Available online starting from 28 May 2010

small, very handy instrument that is solidly manufactured.

Everyday use

There are two ways to turn the HD-CM on: pressing the up arrow button or pressing the down arrow button. The up arrow displays the setup menu in which you can set:

- status of backlight (on/off),
- clicking sound (on/off)
- brightness level (0 through 15),
- contrast level (practical values from 10 through 30),
- automatic sleep mode due to inactivity (1 to 30 minutes or always on)
- squelch level for background noise cutoff (-75 dBm through -55 dBm or OFF)
- language (only English was available in our test unit)
- unit of signal power measurements (dBμV, dBm, dBmV)
- factory defaults

Navigating through the setup menu involves using the up/down buttons while the left/right buttons are used to change any of the settings. In other instruments we tested, the left/right arrows were used for changing menu items; the Horizon method seems to be more intuitive: the up/down method lets you more easily see what the next/previous menu item is.

Horizon decided to put the channel plan in the main menu instead of the setup menu. To get to the main menu, you first have to leave the setup menu by highlighting Exit and pressing the right arrow

button. You then push the down arrow button and, voilà, you are in the main menu. The main menu only has four items: Full scan, Short scan, Slope test and Select plan. After checking that the

HORIZON

For a reliable solution!



proper channel plan was set, we started a full scan. The scan goes through the entire cable TV bandwidth starting from the lowest channel.

As soon as the meter detects a signal, it stops scanning and starts analyzing it. It tells you if the signal is an analog channel or a digital channel by displaying the letter A or D and a small icon representing it.

An analog channel is depicted with two uneven triangles while a digital channel displays something similar to a trapezoid. These icons are meant to represent the shape of an analog or digital signal as it would appear on a spectrum analyzer screen.

When an analog channel is found, the HD-CM shows the channel number, frequency, analog channel descriptor and video signal level as a bar graph and also numerically. A

push of a down arrow button displays the audio level value.

Note that the displayed audio frequency is slightly different from the video carrier frequency; this is normal for an analog signal. Pressing the down arrow button a second time displays the C/N ratio in decibels. Once all the data for the channel has been identified, the scan can be continued by pressing the right arrow button (to continue to the higher channels) or the left arrow button (to continue to the lower channels).

When a digital channel is found, the HD-CM displays frequency and RF level measurements. Pressing the down arrow button shows the MER reading. The frequency field rotates between the following measurements: symbol rate in kBd, QAM order, phasing of IQ vectors (normal/inverse) and frequency. Pressing the down arrow button again

replaces the MER with the BER.

We tested the meter on various analog and digital signals available on two different cable networks. The HD-CM locked onto signals without any delay and provided stable and repeatable results. We had no problems handling the keyboard and reading the display.

The HD-CM can also store any of the results in its memory for future reference with the help of the up arrow button. If you connect a PC to the HD-CM using a USB cable, these results can then also be downloaded to that PC.

An HDCM Log Reader application is available from Horizon for free and lets you not only read the meter memory but also export results to a CSV file allowing you to view the results using a program such as Excel.

Unfortunately, the HD-CM does not offer a fully automatic scan in which all channels would be found, measured and stored in memory. If you want to get a complete picture for a given TV subscriber socket, channels need to be stored in memory one at a time. This isn't really practical; hopefully Horizon will add an automatic scan in a future firmware upgrade.

An interesting feature is the slope test measurement. The HD-CM meter compares the level measurements of up to five preselected carriers to check that the differences between them aren't excessive which, for example, could be due to attenuation introduced by low quality coax cable. The results are first shown graphically in the form of vertical bars but when the down arrow button is pressed, the results of the reference carrier were displayed. Any carrier can be set as the reference carrier. These results can also be stored in the meter's memory.

We were impressed with these features but it would have been nice if the preselected carrier frequencies were user-settable rather than being fixed in the firmware. Horizon can make this handy and practical meter even more useful by incorporating a few firmware changes.



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SmartWi is the only proven universal DVB Multiroom solution on the market.

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

More and more Operators realise that the content copyright holders are most likely to claim additional royalty. This is relevant in cases where the operator releases card clones on the market - without being able to control how and where these cards are used.

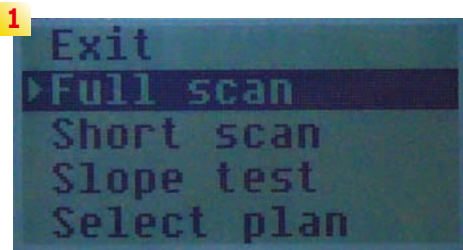
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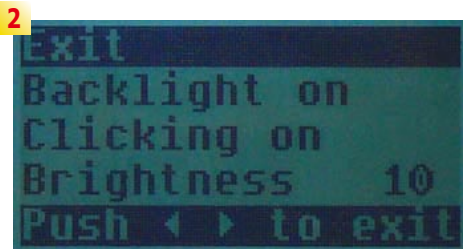


8

g Entries

ID	Name	Type	Freq MHz	RF Lev dBm	MER dB	BER	Video RF Lev dBm	Audio RF Lev dBm	CNR dB	RF 1 Lev dBm	RF 2 Lev dBm	RF 3 Lev dBm	RF 4 Lev dBm	RF 5 Lev dBm
00002	S04	Ana	135.2500	-40.1	44.9	< 1.00E-008	-40.2	-51.1	> 43.3					
00003	S06	Dig	154.0000	-41.3	46.0	< 1.00E-008	-42.4	-54.3	46.2					
00004	S07	Dig	162.0000											
00005	R06	Ana	175.2500											

Export (.csv) Close Show dBuV



9

g Entries

ID	Name	Type	Freq MHz	RF Lev dBuV	MER dB	BER	Video RF Lev dBuV	Audio RF Lev dBuV	CNR dB	RF 1 Lev dBuV	RF 2 Lev dBuV	RF 3 Lev dBuV	RF 4 Lev dBuV	RF 5 Lev dBuV
00002	S04	Ana	135.2500	68.55	44.9	< 1.00E-008	68.55	57.65	> 43.3					
00003	S06	Dig	154.0000	67.45	46.0	< 1.00E-008	66.35	54.45	46.2					
00004	S07	Dig	162.0000											
00005	R06	Ana	175.2500											

Export (.csv) Close Show dBuV



In addition to RF signal measurements, the meter can also measure any DC or AC voltage that might be present on its "F" connector.

radio carriers which are quite often present in cable TV networks. On the other hand it's understandable that a simple and affordable meter cannot have every possible feature.

are compliant with DVB-C ITU-T J.83 in all three regions: A, B and C.

This makes the meter suitable for use in nearly every region of the world (including the USA); even the power supply is rated for 100-240VAC (50/60 Hz).

It's a useful feature although an installer might appreciate it if the meter could also recognize and measure FM

On the plus side though, it's worth mentioning that the two meter variants

HORIZON

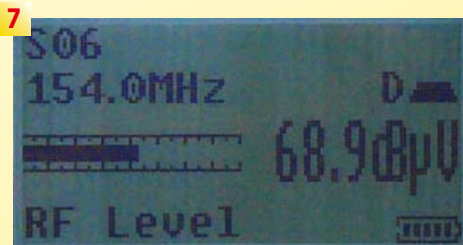
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1. Main menu
2. Setup menu - top part
3. Setup menu - middle part
4. Setup menu - bottom part



5. Analog video level measurement
6. C/N measurement of analog signal



7. Digital signal level measurement
8. HDCM Log Reader - results of 2 digital and 2 analog channels in dBm
9. HDCM Log Reader - results of 2 digital and 2 analog channels in dBuV

Expert Opinion

+

- Small and lightweight
- Practical rain cover and carrying case
- Simple menu structure
- Fast signal locking and stable measurements of all important channel parameters
- All DVB-C modes, compliant to ITU-T J.83 regions A, B, and C
- Built-in power supply



-

- FM radio channels are not recognized and measured
- Automatic logging of the entire spectrum is not possible (only channel by channel)

TECHNICAL

DATA

Manufacturer	Horizon Global Electronics Ltd., England
Fax	+44 (0) 1279 417 025
E-mail	sales@horizonhge.com
Web page	www.horizonhge.com
Model	HD-CM for the Americas, and rest of World
Function	Digital and analog cable TV meter
Input frequency	51~858 MHz
Signal level	-75dBm to +17dBm
Symbol Rate	0.87 to 6.9 Mbaud
Power supply	100~240 V, 50/60 Hz, 0.31A max. 12 V DC, 0.8 A max.
Operational time when fully charged	9 hours typ.



▶ **TP-1331 H.264 HD/SD Encoder :**

- Support HD-SDI embedded audio, HDMI, CVBS or ASI input, ASI or IP output;
- TS to TS transcoding MPEG-2 HD to H.264 SD/HD, or MPEG-2 SD to H.264 SD;
- Graphic resolution supports 1920*1080-24p, 1920*1080-60i, 1920*1080-50i, 1280*720-60p, 1280*720-50p, 720*576-50i, 720*480-60i;
- Video bit rate adjustment range: 1.1-10Mbit/s (SD); 3-20Mbit/s (HD) ;
- Complied with H.264/AVC High Profile Level 4.0 video coding;

▶ **Topreal CAS+ SMS(Billing System) :**

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



▶ **Other Products :**



TP-1101 Simulcrypt Scrambler



TP-1200 TS Re-multiplexer



TP-1300 MPEG-2 Encoder



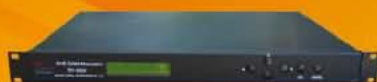
TP-1500 EPG Generator



TP-1510 Caption Generator



TP-1520 Ad Generator



TP-1600 QAM Modulator



TP-1010 DVB-S Receiver



**TP-3000 DVB-T MPEG-2
USB RECEIVER**



Transmitter



**TP-2100 DVB-C H.264 HDTV
TWIN TUNER PVR STB**

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, 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.

Elgato EyeTV Sat

Thomas Haring

TELE-satellite is your source of information regarding satellite TV solutions for the PC, but so far whatever we presented all had one thing in common: They worked with Windows-based PCs only. We did some research and are delighted to introduce you to a DVB-C, DVB-S and DVB-S2 solution from Elgato, which is geared specifically towards Mac users.

Elgato EyeTV Sat comes in a stylish case that looks similar to Apple's TV box. It has a width of 10.6 cm and thus can be placed right above a Mac Mini, saving valuable space on your desktop or in your living room.

Right on the front panel a CI slot is available to take in any standard module for Irdeto, Seca, Viaccess, Cryptoworks or Conax, to name just a few. The back features a satellite IF input, USB interface for connecting the Mac and a socket for the power pack that comes with the package.

Naturally, you will also get a remote control for using all functions directly from the living room sofa. All required software is available on the included CD and a manual tells you everything you need to know to get started.

They say that first impressions go a long way, and judging from the build quality of the EyeTV Sat this new device is designed to last. After all, Mac users expect nothing less. And to all Win-



dows users out there: Elgato even provides third-party software to make EyeTV Sat run outside of Macs as well.

Everyday use

Hardware designed for Macs generally does not require installation of drivers etc, and Elgato's new product is no exception. All you need to do is insert the CD into your Mac's SuperDrive and let the installation wizard take care of all the rest: It detects which software components are required and independently initiates all necessary routines. After that, your Mac needs to be rebooted – which also is a quick affair – and from that moment on will have turned into a satellite receiver as soon as the Mac itself is connected to the EyeTV Sat with the included USB cable.

The EyeTV software calls up the installation wizard which involves entering the serial number to activate the software, logging in to an online program guide service (we chose tvtv) and registering the software. Once all that is finished a channel search manager pops up, asks for the country in which the system is used and – based on that information – selects the most popular satellites. Next, it offers an automatic channel search, which starts right away and quickly fills the channel list with hundreds of channels.

If all settings are correct and once the channel search is finished the EyeTV software switches to the main window.

A quick word of advice at this point: No matter which EyeTV product is hooked up to the Mac (USB stick for analog TV reception, DVB-T or the DVB-S box) the software is always the same and

automatically adjusts to the hardware that is being used.

In standard view the main window of EyeTV is divided into two sections: Similar to iTunes a narrow left column is provided to make main selections, while a broader right section shows all the details.

The channel view displays a complete channel list of all available satellites. It is designed like a table and displays technical parameters such as satellite or frequency next to the channel name.

Here you can do all your editing like adding, deleting, moving or renaming channels with just a few mouse clicks. You can even define for each channel whether EyeTV is supposed to use the EPG provided by the channel itself or rather to fall back on an online service such as tvtv.

EyeTV Sat does not only accept DVB-S but also DVB-S2 signals, which means that all available HDTV channels transmitting in MPEG-2 or MPEG-4 (H.264) can be displayed and stored as native high-definition content.

Thanks to the integrated CI slot this is true also for

encrypted channels, provided you have a valid smart card and corresponding module.

The EPG boasts an extremely well-designed layout and a very sophisticated search mode. Date and time can be freely selected in the upper range of the window, while the right section displays a grid with EPG information of 15 channels at a time in an easy to read way.

Apart from the event title this view already provides some extended EPG details, and if you want to access more information all you need to do is click on the respective event title. One more click and the event is marked for recording, with a message popping up whenever two timer entries overlap.

We all have cursed channels time and again for not sticking to their advertised schedule, and in order to avoid unpleasant surprises you may set a certain amount of time which is added before and after each recording to make sure you don't miss a thing.

We'd like to draw your attention to the «Intelligent EPG» feature at this point,

which allows creating customised EPG lists based on certain keywords directly in the left window column.

For instance, you may choose to set up an EPG list with the keyword «James Bond» and in future EyeTV will show you a detailed EPG list with all entries that include your keyword(s). You may even restrict this personal EPG list further by adding rules such as HD only or a certain channel only. This way you will never again miss your favourite show or a movie with your most-loved actor.

The list of recordings summarises all events that have been marked for recording and also allows you to manually add events without using the EPG. In addition, users can define what will happen to existing recordings.

For instance, files can be added to a play list so that all episodes of a weekly TV show are grouped in a dedicated play list. You can also let EyeTV automatically convert each recording so that it can be played back using Apple TV or the iPhone.

Great stuff as it may be, even a Mac is not up and running 27/7, and this is why the EyeTV software will





Installation wizard |



A single software solution for all of Elgato's hardware |



The first year of access to the tvtv online EPG is free of charge |



Automatic channel search on HOTBIRD 13° East |

wake up your Mac from sleep mode when needed. In order to make a recording EyeTV will even power up your Mac from standby so that you'll never miss a recording.

All recordings are organised in the film archive, which is the central storage area of EyeTV. This is where playbacks are started, recordings are exported or burned on DVD. Each recorded event comes with a small thumbnail picture and complete event description. Even recordings that are currently in progress can be accessed and played back on the fly (TimeShift mode).

The film archive allows editing of recordings as well, so that you can cut out commercial breaks or export individual film sequences which then can be used to create a new film or trailer. All these functions are exceptionally easy to use and even absolute beginners will get the knack of them in next to no time, as they are mainly self-explanatory.

The EyeTV software comes with a vast list of 154 pre-stored European, American and Asian satellite positions complete with up-to-date transponder data. There is an automatic as well as a manual search mode and it goes without saying that new transponders can be added at any time, should the need arise.

During our test an automatic search on HOTBIRD 13° East took its time: A total of twelve minutes passed before 1774 TV and radio channels were identified. Unfortunately, blind scan is not available.

TV reception

EyeTV Sat is a potent match for any dedicated sat-

ellite receiver with channel switching times of around one second.

It doesn't make a difference whether live TV or an existing recording is shown – there is always a progress bar on the bottom of the screen which can be used to jump to any available segment of the event. This means that TimeShift doesn't have to be activated in some menu, but rather is available any time you need it. Simply open the progress bar and jump to anywhere you like.

There are, however, some settings that need to be adjusted in the menu, such as aspect ratio for 4:3 and 16:9 broadcasts or some parameters that need to be set if more than one monitor is used. By default each channel and each recording is first opened in the window mode and a double click activates presentation mode (full screen). This can be changed in basic settings, if need be.

The included remote control is for all couch potatoes out there, and thanks to OSD inserts all functions and features of the EyeTV software can be accessed on the Mac. Even the EPG can be displayed on the TV and it is just as smart as with the EyeTV software.

Thanks to the built-in Mini DVI video output any Mac with EyeTV Sat can turn into a fully-fledged satellite receiver for the living room. Mini DVI provides excellent video quality on a par with regular HDMI on a more conventional satellite receiver. You might be forgiven for thinking you're using a receiver rather than a computer..

If you don't have a Mac Mini or if your Mac is in the

The World at Your Home

MULTISWITCH SYSTEM

Good Adaptation to Port Interlock System



Warning System With Led

9 SERIES



17 SERIES



9/8 - 17/8 CASCADE
9/8 - 17/8 FINITE
9/12 - 17/12 CASCADE
9/12 - 17/12 FINITE
9/16 - 17/16 CASCADE
9/16 - 17/16 FINITE
9/20 - 17/20 CASCADE
9/20 - 17/20 FINITE
9/24 - 17/24 CASCADE
9/24 - 17/24 FINITE
9/32 - 17/32 CASCADE
9/32 - 17/32 FINITE

- * Active Gain Circuit via Terrestrial Input
- * Subscriber Port Protection up to 100 Volts
- * 100 mt Distribution Length per Subscriber
- * Subscriber Control System with LED
- * Ergonomically, Stylish Design

- * Compatible with Terrestrial Digital Broadcasts (DVB-T)
- * Not sensitive to Satellite Receiver thanks to DiSEqC 2.1 Software (Firmware)
- * Low Cascading Loss at High Subscriber Extensions
- * Good Adaptation to Port Interlock Systems
- * % 0 fault rate in Ports

- * SMPS Power Supply
- * Capable to function even at Low Signal Levels due to High Isolation
- * Quick and Easy Installation
- * Low Power Consumption thanks to New Generation Components
- * 100% Warranty for 3 years

HEADEND SYSTEM

TCM 4400 QPSK-A/V

- 4 Channel QPSK-A/V Demodulator, within a mechanical frame compatible to Professional 19" Standard.



TRM 08 8 CHANNEL DSB COMPACT MODULATOR

- 19" d3 Rack type Mechanical structure compatible with all international BG standards



TCM 8800L QPSK-A/V

- 8 Channel QPSK-A/V Demodulator, within a mechanical frame compatible to Professional 19" Standard.
- 3.6" TFT LCD • Automatic fan cooling system



TYM 890 8 CHANNEL VSB COMPACT MODULATOR

- Programmable with 8 channels capacity, Single Side Band -SSB SMATV Modulator • 19" d3 Rack type



TYM 490 4 CHANNEL VSB COMPACT MODULATOR

- Programmable with 4 channels capacity, Single Side Band -SSB SMATV Modulator • 19" d3 Rack type



TA 35
CATV PUSH
PULL LINE
AMPLIFIER



TDM 01
1 CHANNEL
DSB
MODULATOR



TDM 08
8 CHANNEL
DSB
MODULATOR



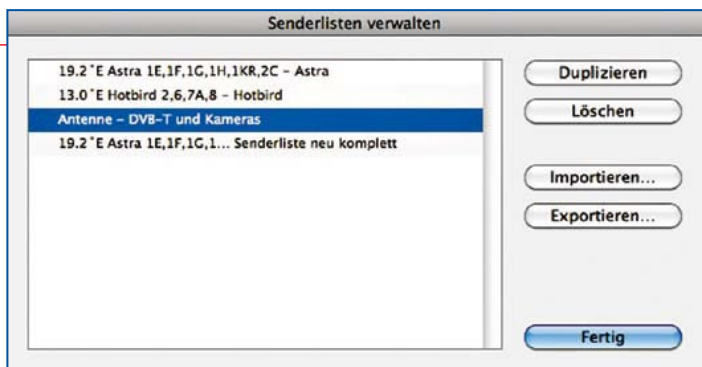
**40 CHANNEL HEADEND
SYSTEM APPLICATION
EXAMPLE**



TEKNIKSAT SATELLITE SYSTEM CO., LTD.

Kemeraltı Cad. Bankalar Han. No: 8/B
Karaköy - İstanbul / TURKEY
Phone : +90 212 244 04 14 (Pbx) • Fax: +90 212 244 99 51
E-mail : tekniksatsat@tekniksatsat.com
Web : www.tekniksatsat.com





Channel lists can be freely managed and edited |



This EPG beats any printed TV guide |



Commercial breaks can easily be removed using the software's editing features |



HD channels are processed flawlessly |

study rather than the living room Elgato offers several solutions for watching TV directly from the Mac.

First and foremost you might look at the Apple TV Box. It has access to all iTunes content and provides it to the TV through either HDMI or component video. The EyeTV software can be set to export all recordings into iTunes, so that Apple TV can conveniently play them back.

You'll love to watch your recordings on a 50-inch Plasma rather than your iMac with a maximum of 27 inches. Elgato also offers a server-based solution by the name of EyeConnect. All you need to do is install this software on your Mac to make all live channels as well as all recordings available to any UPnP compatible media player on your home network.

iPhone and iPod

Elgato has come up with an additional bonus for all iPhone and iPod owners. For one thing, all recordings can be converted for Apple TV, iPhone or iPod and made available on iTunes.

But that's not nearly enough: The iPhone or the iPod Touch can access the EyeTV software on the Mac directly using UMTS or WLAN.

Elgato is aware of all the potential hassles that might occur with faulty firewall and router configurations, so they employ a neat little trick to not only provide all these functions in the local WLAN network, but also on the Internet.

They set up their own web service called myEyeTV, which takes care of hooking up the mobile device to EyeTV, using any Internet access that is currently available.

This way there is no need to open special ports or change any settings – the iPhone, or any other Internet browser for that matter, is able to access the EyeTV software on your Mac at home.

In case more than one Mac on your home network is equipped with EyeTV software and reception hardware you may even make the complete database available to all users in the local network.

Everyday use

We put Elgato's EyeTV Sat to the test over the course of several weeks to make sure we could look at any nook and cranny of the software. But no matter how tough we played, there was nothing that could bring it to its knees.

Never before have we tested a software solution for satellite reception that was as easy to use and well conceived as this one. It didn't matter whether we watched live TV, made a recording, edited a recording or zapped through the channel list, EyeTV Sat behaved just as it was supposed to be on an 24-inch iMac or a Mac Mini. This makes it the perfect deal for users looking

What this means is that all live channels as well as all recordings can be streamed right to the mobile device.

The corresponding iPhone/iPod Touch app even displays all EPG information and events can be selected for recording with a simple touch on the multitouch display. Now that's what we call smooth integration.

China Satellite 2010

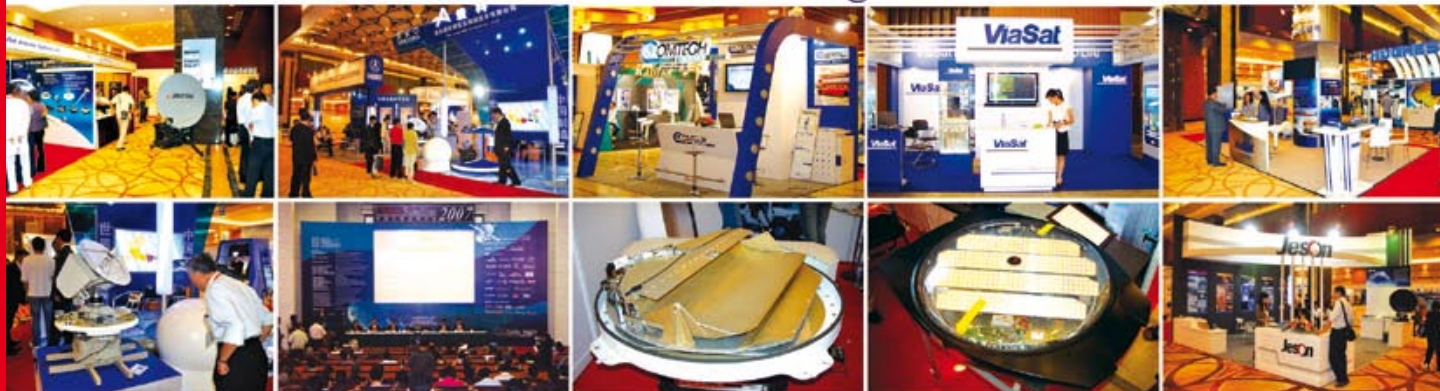
中国卫星应用大会

August 25-27, 2010 Hotel Nikko New Century Beijing, China

<http://www.china-satellite.org>

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China Education Television
China Transport Telecommunications & Information Center
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China Center for Resource Satellite Data and Applications

China has been rapidly evolving as one of the key growth markets for the global satellite industry. China Satellite 2010 will celebrate the 12th anniversary of the great event on August 25 to 27, 2010 in Beijing. Since 1999, China Satellite has established itself to be THE unparalleled Conference and Expo for satellite applications in China.

China Satellite is a premier annual conference supported by government agencies and industry leaders. It will provide a great opportunity to meet senior officials and decision makers from National Development and Reform Commission (NDRC), The State Administration of Radio Film and Television, Ministry of Science and Technology, China National Space Administration, National Remote Sensing Center of China, China Satellite Communications Corporation, etc. It is an ideal marketplace bringing world-renowned solution providers and buyers together to seek the best returns on investments and to have the right solutions to meet the evolving needs of business.

China Satellite 2010 is set to address the development needs and opportunities in this dynamic industry of China. It highlights the newest technology innovation in the satellite application industry in the light of today's industrialization convergence landscape. It has proven to be an excellent platform to determine the best value and latest convergent technologies and applications intended to enhance enterprises' capability, mobility and users' lifestyle.

Organizing Committee Beijing Office

Add: 3 Unit 202 Building 3, Changhewan, Gaoliang Qiao Street, Xizhimengwai, Beijing, China. (100044)

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Email: huangxu@sat-china.com

ViaSat

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中国卫通
China Satcom



CHINA DBSAT
中国直播卫星



SYNERTONE
协同通信





EyeTV Sat cannot only be controlled via its software but also with the help of the remote control and OSD!



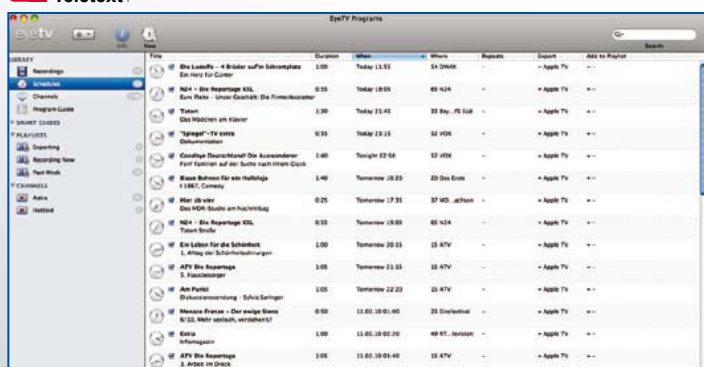
Main menu of the OSD!



EPG on the OSD!



Teletext!



The timer list shows all scheduled recordings!

for a reliable, versatile and easy-to-use TV and radio reception solution for the Mac. Actually, what they get is much more than that – a genuine media centre for the living room.

The only groups which might not be perfectly happy with EyeTV are DXers and true satellite enthusiasts looking for extremely weak signals, MPEG 4:2:2 feeds or SCPC transponders. While all these can actually be received according to specs, it must be said that some stand-alone receivers might be better options for these areas. After all, EyeTV Sat is only DiSEqC 1.0 compatible and therefore will not work with multi-feed antennas and DiSEqC motors.

C band reception, on the other hand, is possible and the pre-stored satellite list even includes a number of C band satellites with all corresponding reception parameters.

The core strengths of EyeTV Sat and its Mac software definitely are their incredible user-friendliness, extreme ease of use and truly breathtaking reliability. There was not a single recording during our long-term test that was not completed flawlessly or not usable for any reason whatsoever. Cutting out commercial breaks is child's play thanks to the gorgeous editing functions, and one

mouse click is all it takes to burn the result on DVD.

With the help of the included remote control the EyeTV software offers all features of a satellite receiver, multiplies options for users and is perfectly suited for setting up in the living room thanks to the Mini DVI output of the Mac Mini.

What's more, you're not restricted to your own place or the range of your WLAN network when it comes to accessing the film archive or watching live TV, but you may just as conveniently use your iPhone as a mobile extension of the EyeSat on the bus, train or while being out for a walk, as long as you have 3G coverage.

The upcoming Apple iPad will probably fuel even faster development of new applications, as it features a substantially larger display than the iPhone and is almost perfect for watching TV on the go.



Signal measuring for DVB-S2, DVB-S, DSS

Digital Satellite Analyzer HD 1680S2

SPECTRUM ANALYZER with ROTATOR CONTROL

Convenient & quick searching by Project name setting

I/Q Constellation Diagram (HD Level 8PSK)

Pre-BER, Post-BER, SNR & MER measurement

Blind scan for DVB-S, DVB-S2, DSS & TP list

Easy upload & download new satellite file list

Data Logger with USB port

Spectrum Analyzer

Accurate level measurement

Peak level detection : CODE, LEVEL, OFF

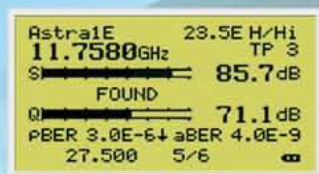
DiSEqC 1.0/1.1/1.2(Rotator) supporting

Easy portable & lightweight type

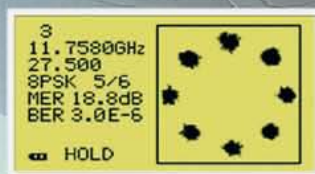
Li-Poly Battery (7.4V 3800mA)



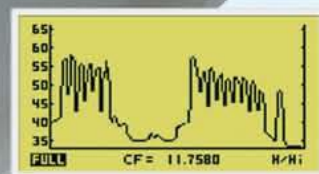
Satellite signal measurement
(Analog / Digital)



MER(SNR), BER measurement
(Analog / Digital)



I/Q Constellation Diagram
(QPSK / 8PSK)



Spectrum analyzer
(with Rotator control)

AWARD WINNING

21
SATELLITE
PRODUCTS OF
21ST CENTURY





Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	Digital PVR DVB-T Receiver
DVB-T2/LAN	— / —
Channel Memory	1000
PVR	•
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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JIUZHOU



Manufacturer	Technomate
Website	www.technomate.com
Function	Triple Tuner HDTV 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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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1005/tur/technomate.pdf



TECHNOMATE



Manufacturer	Opensat
Website	www.azbox.com
Function	HDTV DVB-S2 receiver with various Multimedia & Internet Features
DVB-S2/LAN	• / •
Channel Memory	15000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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AZBOX



Manufacturer	Skyworth
Website	www.skyworthdigital.com
Function	Miniature SCART Receiver with PVR Function
DVB-S2/LAN	— / —
Channel Memory	4000
DiSEqC	1.0 / 1.2 / 1.3
S-Video/HDMI	— / —
Scart/Digital Audio	• / —



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SKYWORTH



Manufacturer	AB-COM
Website	www.abipbox.com
Function	Digital Linux-based HDTV PVR 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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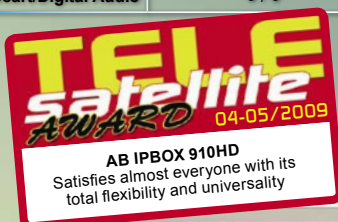
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AB-COM



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

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Website	www.opensat.info
Function	Digital DVB-S CI-PVR Receiver
DVB-S2/LAN	— / —
Channel Memory	4000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / —
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Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	Digital PVR Satellite Receiver for SDTV/HDTV
DVB-S2/LAN	• / —
Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1007/tur/satcatcher.pdf

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	120x64 3.5" LCD color display

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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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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1005/tur/8dtek.pdf

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 Output	—
Built-in Monitor	3.5" LCD color display

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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1003/tur/trimax.pdf

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



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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1001/tur/nanosat.pdf

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

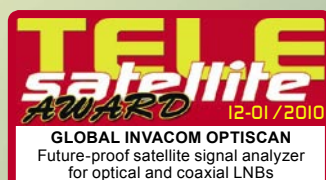


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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1001/tur/optiscan.pdf

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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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0911/tur/satcatcher.pdf

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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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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SATCATCHER DIGIPRO EXCEL-TV MK3
Easy and self-explanatory – a device for laymen and pros alike



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Ideal multirange signal analyzer for the Ka and Ku-bands, optimized for Turbo Coded Data Transmissions



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Manufacturer	SPAUN Electronic
Website	www.spaun.de
Function	TV Signal Analyzer
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



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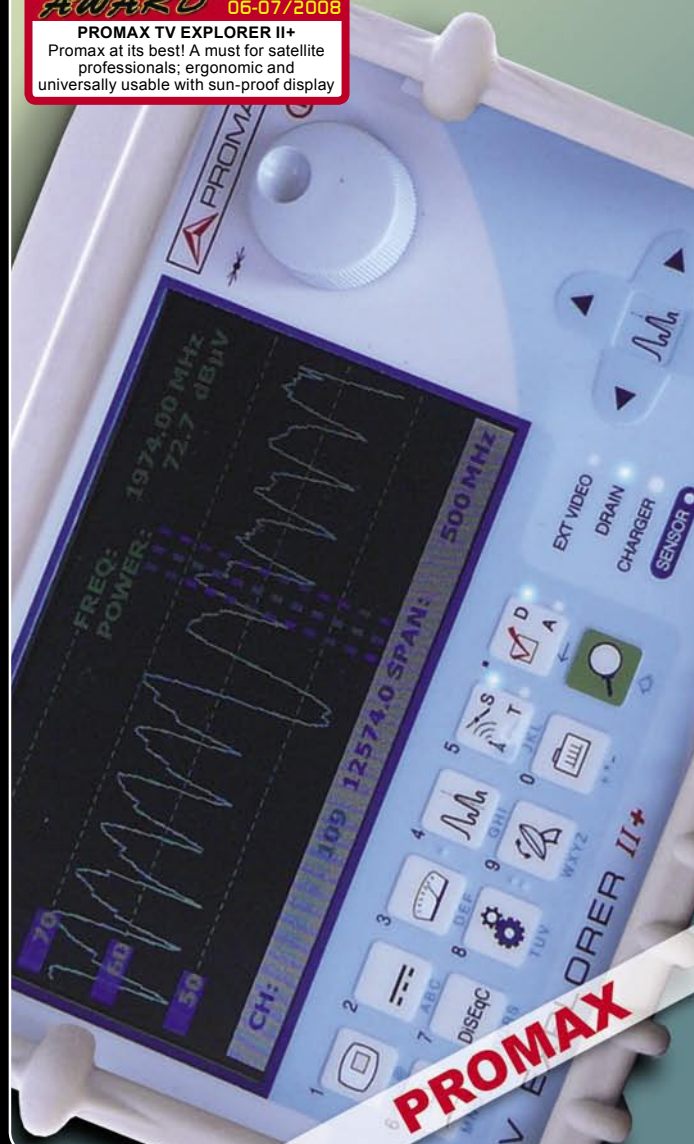
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Manufacturer	PROMAX Electronica
Website	www.promax.es
Function	Universal Satellite Signal Meter and Analyzer
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Organized for the Future Receiver Manufacturer YINHE Presents Their Factory

Alexander Wiese

Chinese high volume manufacturer YINHE is one of the top five producers in China. Although this company is well known within China, it is only the insiders that recognize the name YINHE outside the country since abroad it is only an ODM. In other words, the YINHE designed boxes (Original Design) are marketed by other companies, primarily dealers and programming operators, under their own brand name. YINHE therefore is just the manufacturer (hence ODM) and for the time being it will stay that way. There are no plans for YINHE to dive into the export market with their own brand name. What does it look like inside one of these high volume manufacturing plants? TELE-satellite wanted to find out.



Zhangjiagang,
Jiangsu



The enormous 280,000 square-meter production site is located in the city of Zhangjiagang in the Jiangsu province roughly 100 Km north of Shanghai in eastern China. Here, in addition to the four-story administration building, you'll also find multiple fabrication buildings.

During the tour of the facility, Jianbiao Zhu, Overseas Marketing Department Manager, told us there are a total of 1500 employees, 1100 in production and 400 in administration. "Last year we had 1200 employees but in 2010 we added 300 additional employees", he explained to us. Business seems to be booming at YINHE!

YINHE was founded in 1975 and at that time it was a state-run company that had the goal of producing China's first memory chips for use in the large computer systems of that time. "It all started with 50 employees", Jianbiao says as he looks back at the old days.

In 2000 the ownership structure changed and it became a privately run company made up of 40 share-owners. "But all of that could possibly change", reveals Jianbiao Zhu, "We're planning to go public this year on the Shenzhen stock exchange." The goal is to acquire additional capital for expansion.

So, what do YINHE's sales figures look like? "For 2009 our receiver products had

sales of US\$ 80 million while the remaining product groups produced sales of US\$ 30 million", says Jianbiao Zhu. He continues, "In 2010 we are expecting an increase to US\$ 100 million in receiver sales with the remaining product groups increasing to US\$ 35 million."

What are these other product groups? "We are one of the largest PC housing manufacturers; we also produce satellite dishes as well as professional receiver components for cable headends."

But TELE-satellite is primarily interested in receivers, so let's get back to that. "Satellite receiver development started in 1997", remembers Jianbiao Zhu, "and in 1998 we produced 10,000 receivers." This number increased at a tremendous rate: "In 2009 we produced 3.6 million boxes and in 2010 we expect production of four million boxes", he reveals and then adds, "In both years two million receivers were sold domestically in China; the rest were exported."

We wanted to know more about the export side of things: where does YINHE export to? Jianbiao Zhu takes a look at his laptop and then says, "30% of our

receivers end up in The Middle East, 20% go to Europe including the CIS countries and Southeast Asia, another 15% go to Australia, 10% to Africa and 5% to South America."

It should come as no surprise that YINHE operates offices in critical regions namely in Dubai since 2003 and in Australia since 2005. "This year 2010 we plan to open two additional offices in Sao Paulo and Moscow. We are also looking to open an office in Chennai in 2011", confirms Jianbiao.

The best export countries are Australia with DVB-T receivers in MPEG-4 and HD as well as India with DVB-C boxes in MPEG-2 and SD. "We want to expand our distribution in Europe including the CIS countries with DVB-T MPEG-4, DVB-T2 MPEG-4 and DVB-S2 receivers", comments Jianbiao Zhu. He adds, "60% of our exports are satellite receivers, 30% are terrestrial receivers and 10% are cable receivers."

Another interesting note: with a market segment of about 10%, YINHE is one of the largest providers of cable receivers domestically in China.

TELE-satellite World

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■ YINHE's Main Entrance. The administration building is to the left behind which are numerous production facilities. 1500 employees work here.



■ Jianbiao Zhu, Overseas Marketing Manager, in YINHE's showroom. Samples from the production line are on display here.

After spending some time on the numbers, now might be a good time to take a closer look at YINHE's receiver division. Hongchun Gu, R&D Department General Manager is the man to talk to. He is in charge of a team of 65 engineers: "In the city of Nanjing there are another 80 engineers that have been working there since 2003 and since 1997 we have had 100 engineers in our design office in Beijing." It turns out that there are a number of universities in both of these cities and that makes it easy to find engineers there.

Hongchun Gu then explains to us what chipsets YINHE uses: "We use chipsets from ST, Fujitsu and NXB for our DVB-S/S2/T/T2/C products. For DVB-C we use NEC chips and for DVB-S/S2 we also use ALI. For the domestic market in China in ABS-S we use Nationalchip."

YINHE also works very closely together with the larger CA module producers such as Irdeto, Conax, NDS, Topreal, Sumavision, Novel and Cryptoworks."

What about any upcoming new products? The head of the R&D department must have known that those questions were coming. We weren't disappointed with the answers. On the contrary, YINHE has quite an array of new products in the works. According to Hongchun Gu: "In the third quarter of 2010 there will be a new DVB-S2 receiver with a built-in media player and also

with CI. In the fourth quarter will follow a DVB-S2 twin tuner PVR with Irdeto as well as a DVB-S2 box with a media player and integrated web browser. For 2011 a DVB-S2 receiver with WiFi and CI+ is planned."

That's quite an impressive list, but there's still more. Up until now we only mentioned satellite receivers; but YINHE also has plans for terrestrial receivers. "We just released a DVB-T MPEG-4 box with HD, twin tuner and PVR", reveals Hongchun Gu, "and we will shortly be coming out with a twin tuner PVR for the Freeview system in Great Britain, Austr-

■ The endless row of production buildings.



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■ 11 production lines are in the SMT room. Qian Ming is in charge here and tells us, "We operate with two Yamaha SMT automated machines, six from Juki, two from Panasonic as well as a line for tests and repairs. With these automated machines we can produce seven million pieces a month."



■ An employee in the SMT room; here she's keeping an eye on one of the automated machines.

lia and New Zealand. In the third quarter of 2010 a DVB-T MPEG-4 receiver with USB and iPod connection will make its appearance followed by DVB-T receivers with CI and USB as well as CI and media player in the fourth quarter. On top of that, a DVB-T2 receiver in SD is also being worked on." And as if that weren't enough, Hongchun Gu continues, "For 2011 we are working on a DVB-T2

receiver for Freeview, a DVB-T box with media player and web browser as well as a DVB-T unit with WiFi."

That's quite a list of new products; now we understand why YINHE wants to go public with their company. With all the new products coming down the road, investment is necessary. The impression you get that everything seems very

organized when you tour their factory is only confirmed when you look at the list of their upcoming products. YINHE is looking well ahead into the future and every step of the way is being meticulously organized. It's a recipe for success that will lead to more growth.

This is how YINHE is preparing for the future!



■ At the other end are the rolls with the surface mount components. They are continuously fed by an employee into the SMT automatic mounting machines. The SMT automatic machines run 24 hours a day. The Chinese writing on the wall in the background reads: "Work with Your Fellow Employees; Good Management; Customer Orientation; Continuous Improvement".



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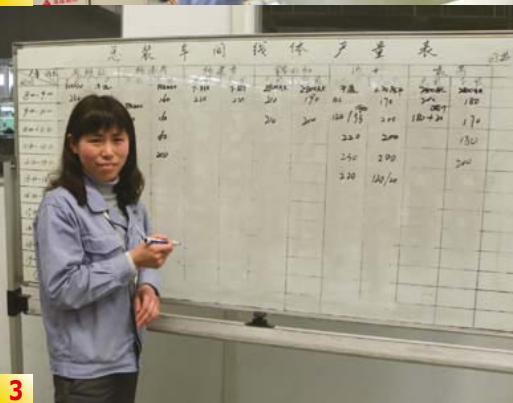
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Receiver Production

1) Xu Yuezheng is the Factory Manager. She is in charge of all of YINHE's production lines.

2) Receiver components are assembled here. YINHE has 10 of these assembly lines with 25 employees on each line. 2000 receivers are assembled every eight-hour shift. The display board at the head of each line electronically shows the goal and current total.

3) Qian Wei Hong is Assembly Manager and is responsible for dividing the employees within the assembly area. The employees can look at the white board to see what assembly line they're assigned to.

4) The first step on the assembly line is the receiver housing seen here being placed on the conveyor belt by an employee.

5) The Main Board and power supply are installed and secured with screws.

6) Next comes the internal cable assemblies as well as the power supply cable.

7) The first test: is the assembled unit electrically sound?

8) The cover is placed on the housing.

9) Next, basic functions are tested; a sticker is applied if everything tests OK.

10) Now for the detailed testing: video, audio, reception, and much more is individually tested.

11) Every box receives a serial number and user manuals are placed on the conveyor belt.

12) Final step: everything is packed together and prepared for shipping.

13) Huang Jian Feng is in charge of the aging room. He explains what takes place here: "Receivers undergo a long-term test here at 40°C to 45°C. A maximum of 2000 boxes at a time can be 'aged' in our two aging chambers." This guarantees that the receivers will also work later on at higher temperatures. Defective boxes are removed here.

Chassis Production

- 1) Receiver housing forms are stamped from flat pieces of sheet metal.
- 2) Mounting holes are punched.
- 3) Ventilation and footpad holes are punched.
- 4) Flat pieces of sheet metal are shaped into receiver housings.
- 5) Mounting posts are put in place...
- 6) ...and mechanically secured.
- 7) Finished: an employee gets ready to stamp OK on the housing.
- 8) This is how the housings are stacked until they are brought on a pallet to the assembly line.



10



1



11



2



12



3



6



13



4



7



5



8



1



2

R&D Department

1) Hongchun Gu is the R&D Department's General Manager. From his desk he manages 65 hardware and software development engineers.

2) Software engineers work here on YINHE's new products.

3) An employee works meticulously on a hardware problem.

4) On a properly equipped test station, employees check out prototypes and run a series of tests.

5) An employee shows one of the new products: a DVB-S2 HDTV receiver with CA.

6) Equally new: an MPEG-4 DVB-T receiver with PVR and integrated 500GB hard drive for the Freeview system in Great Britain, Australia and New Zealand.



3



4



5



6



■ YINHE even operates their own TV studio! Actually there's more than one TV channel since with so many tests a proper number of signals is necessary. Here we see the transmitters for DVB-T and DVB-T2, for DVB-S and DVB-S2, for DVB-C as well as for ABS-S (Chinese satellite standard) and DMB-TH (Chinese terrestrial standard). For ISDB-T YINHE uses a software solution.



■ The Sales team is at work here dealing with ODM partners or programming operators from around the world. YINHE has specialized sales teams for South America, CIS, Western Europe, India, Australia, Africa and The Middle East.

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■ View of YINHE's immense property with its numerous production halls as seen from the roof of the administration building.



■ If you need proof that YINHE is a totally committed satellite receiver manufacturer, this picture should convince you: over 100 dishes are mounted on multiple roofs. The large 1.8-meter dishes are pointed to CHINASAT 6B at 115.5° east.

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SPAUN at COMINTOUCH in Dubai



■ General manager Mohan Kumar with the SPAUN multi-switch range, which is the pillar of success for COMINTOUCH.



Made for each other! That's how we can best sum up the relationship between German multi-switch manufacturer SPAUN and Dubai-based trading and project company COMINTOUCH. After all, SPAUN would not be able to profit from a comfortable market share in the Middle East without COMINTOUCH, while on the other hand COMINTOUCH's rock-solid growth in recent years is largely contributable to SPAUN products. Make no mistake about it, COMINTOUCH generates 80% of its turnover with products made by SPAUN.

We visited COMINTOUCH on the third floor of a rather nondescript office building located in a commercial area in Dubai's east, near the airport and close to the (invisible) border to the Emirate of Sharjah. The company was founded in 2001 by managing director Mohan Kumar. "It was on 31 January, to be precise," Mohan Kumar recalls, "and the first two employees I hired back then are still with me today." It all started with a multi-LNB dish for which COMINTOUCH had exclusive

distribution rights at the time. "Unfortunately, though, this dish brought with it a number of problems: Installers back then were not in a position to correctly align this rather tricky antenna." The dish was used for simultaneous reception of NILESAT and HOTBIRD, "but in the end the dish was just a little too small and offered virtually no bad weather tolerance unless perfectly installed and aligned." Half a year later the end seemed nigh – COMINTOUCH had dispatched almost 2.000

of these dishes to local dealerships, but these in turn could not sell them on because installers refused to work with the dishes.

Mohan Kumar did what seemed right at this junction and began to distribute satellite receivers. He cooperated with a Korean manufacturer and assisted in customising their receivers for the local market. After a while, Mohan Kumar even founded his own company by the name

of ORBICLE and has never since stopped distributing satellite receivers and – more recently – also HDTV and IPTV boxes. Ingenious as he is, Mohan Kumar steadily increased COMINTOUCH's portfolio to also cover the CCTV, intercom and access control segments.

Yet, the turning point in his business career occurred when he met the then SPAUN managing director Friedrich Spaun (today his son Kevin Spaun runs

Kumar expects a doubling of sales for 2010 as well.

We asked COMINTOUCH sales manager Sabarish where all those SPAUN products are actually sold. "80% stay in the United

Arab Emirates," he explains. "18% are shipped to neighbouring countries such as Kuwait, Oman, Qatar, Bahrain and Saudi Arabia. The remaining 2% result from purchases made by North African dealers who get in touch with us."



the company). Identifying a great business opportunity they both quickly agreed on an exclusive distribution arrangement for SPAUN products in the Middle East via COMINTOUCH.

"That was in September of 2004," Mohan Kumar remembers. Even in the first business year sales of SPAUN products had reached unprecedented volumes and by 2009 turnover has again increased fourfold. As if that wasn't enough, Mohan

■ Up on the roof of the COMINTOUCH office building in Dubai: A technician checks the satellite signal using a SPAUN signal meter, with the skyline of Sharjah, an emirate bordering Dubai, as backdrop.





■ On his laptop computer project manager Subodh Tawadia shows us the equipment list for a current project: installation of SPAUN multi-switches for an extremely classy complex of villas in Abu Dhabi.



■ Sales manager Sabarish in the reception lounge of the COMINTOUCH administrative offices.

Which brings us to the question of how many sales offices and members of staff COMINTOUCH has. Managing director Mohan Kumar has the details: "We run a shop at the local Dubai satellite souk with two employees. Nine people work right here in our offices, three of which are technicians in charge of project planning and service."

Mohan Kumar also fills us in with information regarding an "office in Qatar with a staff of three, and we're currently planning an office in Saudi Arabia for 2011." All these expansion plans seem to be more than worthwhile, with sales of SPAUN products already picking up in Qatar. With an office in the huge market of Saudi Arabia the same is expected to happen there as well. We wanted to know from sales manager Sabarish which products are in high demand. "We generate 30% of sales with SPAUN multi-switches featuring 17 input lines, which means they can be used for simultaneous reception of four different satellites. Another 30% of customers opt for the 9-input multi-switch which is a perfect match for simultaneous reception of two different positions. 20% buy the multi-switch model with 13 input lines."

COMINTOUCH is not only a re-seller of SPAUN products, but also a big player in the area of project planning in Dubai and beyond. Project manager Subodh Tawadia is in charge of this segment and proudly tells us that COMINTOUCH is currently in the process of installing a satellite reception system for a top-notch villa estate in Al Ain, at the border to Oman in the Emirate of Abu Dhabi. "A total of 200 outlets need to be installed in seven villas and



■ Working with COMINTOUCH from scratch: technical manager Sreejith at his desk.

various adjoining buildings, with SPAUN products serving as the backbone of the installation." ARABSAT, NILESAT, HOT-BIRD and ASIASAT 3S will be received with this setup.

Not only is COMINTOUCH well established in Abu Dhabi's high society, but also right next door, where the Emirates Airlines crew accommodation building is located in the Dubai Global Village close to the airport and to the COMINTOUCH office. SPAUN multi-switches with 13 input lines are used to provide ARABSAT, NILESAT and HOTBIRD channels to a total of 2.650 outlets," project manager Subodh Tawadia proudly reveals. Even the World Trade Center which hosts the annual

CABSAT satellite fair is partially equipped with SPAUN multi-switches installed by COMINTOUCH, yet the company itself will not be represented at CABSAT. "As a wholesale dealer and project planner we decided to rather organise seminars once a year, in which we present and explain SPAUN products in great detail," Mohan Kumar explains. "Last time we had 130 participants!"

It's true, the two are really made for each other: SPAUN was able to considerably increase its sales in the Middle East region thanks to devoted COMINTOUCH support, and in turn COMINTOUCH was able to grow impressively with the help of SPAUN products. Talk about synergies...



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LNB CKU-01 Model

TRIMAX Distributor ECHOLINK in Dubai

One of the largest satellite wholesalers in Dubai is ECHOLINK. The company even has four stores in Dubai's Satellite Souk. There in the Naif Street you'll find an endless variety of satellite shops right on top of the next one. The local market in Dubai isn't all that big so most of the buyers in Dubai's Satellite Souk are dealers from the surrounding Middle Eastern and North African countries - now referred to as MENA (Middle East, North Africa).



Scan (blind search) with
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programmable satellites and
radio programmable chanr
EG 2 /DVB compliant, M
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c Program Guide

■ Ali Abbas (left), ECHOLINK's General Manager, and Jerry Chu (right), TRIMAX's General Manager, in front of ECHOLINK's display wall. A TRIMAX model can be seen on a bottom shelf near Jerry Chu.

ECHOLINK



Ali Abbas is ECHOLINK's General Manager. He explains to us how it all started: "The company was founded in 1992 and had the name Star Distribution." From the beginning the company dealt only with satellite reception products.

In 2004 the company took on a new direction and renamed itself ECHOLINK Electronics. From the start the company's goal was to serve the entire Middle East and according to Ali Abbas, "We have service centers and showrooms in Dubai as well as in Oman, Bahrain, Saudi Arabia and Lebanon."

ECHOLINK distributes satellite receivers under five different brand names. Ali Abbas highlights the differences: "ECHOLINK is our top-of-the-line brand name that we also sell in Europe through our branch office in Holland. The brand name WizTech covers the middle segment; we are just coming out with a new product under this name, the WIZ-9555 HD CA Ci Super. It's an HD Twin Tuner box with PVR. Another brand new product is the model IW-9999 Multimedia; it's a hybrid HDTV receiver for DVB-S/T/C and IPTV. On the lower end of the scale we use the brand names AstroVox and MicroX and at the extreme bottom end of the price scale is the name ENVISION. This brand is also offered by many other wholesalers in the MENA region." Ali Abbas also announced an HDTV LCD-TV for the third quarter of 2010.

ECHOLINK has been distributing the TRIMAX brand of signal analyzers (check out the SM-3500 test report in the 12-01/2010 issue of TELE-satellite) in the MENA region since the beginning of 2009. Ali Abbas is very satisfied with the TRIMAX sales trend and revealed to us, "In the first quarter of 2009 we were able to sell about 150 TRIMAX analyzers and by the fourth quarter this number nearly quadrupled to 600."

For 2010 Ali Abbas is confident that total sales could reach 1500. Ali Abbas chuckled as he looked over to Jerry Chu, TRIMAX's General manager, "The problem is that TRIMAX can't deliver as many as we order!"

The success of TRIMAX sales is due largely to their continuous product upgrades: new features are constantly being added and its application ranges are consistently being expanded. According to Jerry Chu, "A new analyzer with an MPEG-4 DVB-T tuner is just now becoming available." For installers it's a good thing to be able to test using TRIMAX analyzers loaded with the latest technology.

Ali Abbas estimates that TRIMAX makes up about 2.5% of ECHOLINK's total sales. That's quite significant considering that this is a niche product primarily used by professional installers.

Compared to the large number of sales of satellite receivers though, it is still a small number. Ali Abbas revealed to us that ECHOLINK has sales of roughly 100,000 receivers every month. "We expect to exceed this figure in 2011", he says.

Ali Abbas is optimistic for the future. In 2009 only about 10% of all receivers were HD models; for 2010 he sees this number rising to 15%. "Naturally, this all hinges on whether or not there'll be enough interesting HD channels to watch", comments Ali Abbas.

Most of ECHOLINK's TRIMAX analyzer sales are in the MENA region at about 60%; 25% find their way to Europe with another 15% going to Asia including, surprisingly enough, Afghanistan.

ECHOLINK, a very active business enterprise, and TRIMAX, a very innovative signal analyzer manufacturer, complement each other very well!

TRIMAX
THE PROFESSIONAL EQUIPMENT

WizTech
DIGITAL SATELLITE RECEIVER

SmartWi Distributor ATLANTA in Dubai

This report was written because of SmartWi, the Card Sharing Module that lets you watch every channel in every room in your house using just one PayTV card.

SmartWi in Denmark distributes their products all over the world and this includes The Middle East. SmartWi's ever increasing sales figures in this region are due in large part to the non-stop efforts of local distributor ATLANTA headquartered in Sharjah in the United Arab Emirates.

While having lunch at an Indian restaurant on Sheikh Khalifa Bin Zayed street across from the glistening Burjuman Shopping Center, Sanjeev Jain told us the story of ATLANTA. Just like with most of the other shops in Dubai, ATLANTA is also run by an Indian family. "My father Rajmal Jain came to Dubai in 1968", explains Sanjeev. "He began selling satellite products in 1992. He had contact with a manufacturer in India that produced electronic cables. One day he received a sample of a black cable: it was a coax cable."

But what to do with it? The cable manufacturer explained to him that this cable



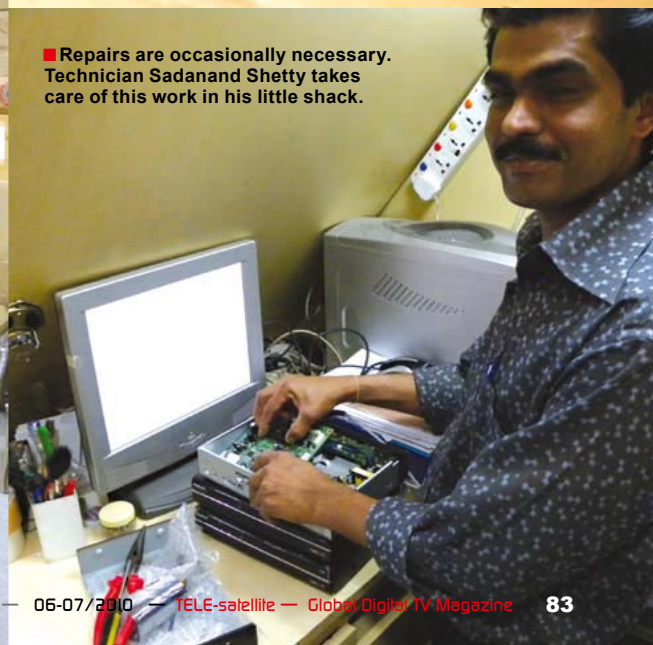
■ The ATLANTA store on Naif Street in the satellite Souk in Dubai's Deira district. The store is open every day except Friday from 09:30 to 14:00 and then again from 16:30 to 21:30. ATLANTA is a wholesaler and therefore doesn't sell to the general public.



■ Inside the store can be found Sales Representatives Vishal Malviya (left) and Sunil Jain (right).



■ Above the store is a storeroom stocked with smaller amounts of every product. Larger quantities are shipped from ATLANTA's main warehouse in Sharjah.



■ Repairs are occasionally necessary. Technician Sadanand Shetty takes care of this work in his little shack.

was designed to be used with antennas and satellite dishes.

It didn't take long for him to realize that coax cable could be a profitable business; his first coax cable delivery quickly sold out so he had to order more. His local customer in Dubai asked him if he could also acquire satellite receivers. One thing led to another and satellite wholesaler ATLANTA was born.

"In the first year my father sold 3000 analog receivers for US\$ 25.00 a piece", remembers Sanjeev Jain, the first generation of his family born in Dubai.

The age of digital receivers began in 1998 at which time ATLANTA started

marketing receivers under its own label. "In 2010 we see a new future with HDTV for our satellite business", believes Sanjeev Jain.

SmartWi was introduced as part of their business in 2005. A mutual friend brought Rajmal Jain and Kurt Olesen, SmartWi's President, together.

ATLANTA managed to sell 500 SmartWi's in the first year they were offered and by 2009 that number increased to 2000. "For 2010 our goal is to double this number", explains Sanjeev Jain.

These numbers only represent domestic sales. "We also export just as many pieces to North Africa, the remaining

Middle Eastern countries and eastern Europe", comments Sanjeev Jain. He estimates that SmartWi makes up about 5% of their total sales. That's quite a large number for a single product.

Even more interesting is what Kurt Olesen told us: "We are expecting to receive approval from one of the largest operators in Middle East, named ART." Once that happens, large scale expansion of their SmartWi business will be possible!

A new generation of SmartWi units will be marketed soon. We here at TELE-satellite are waiting for the first sample unit for a test report that would appear in one of the upcoming issues.



■ Group shot in Dubai (from left to right): Alexander Wiese, TELE-satellite Editor-in-Chief, Kurt Olesen, SmartWi's President, Rajmal Jain, ATLANTA's founder and Sanjeev Jain, his son and Director of ATLANTA.

FROM A DIFFERENT PERSPECTIVE

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- PVR ready through USB 2.0 interface • RJ-45 Ethernet interface (9900HDPVR model)
- Blind Scan/Fast Scan/Unicable support • Background recording&playback while recording function

CISS, Singapore



Is it possible to sell only 15 satellite dishes a year and still be a market leader? Yes, in Singapore this is possible. CISS is the first place everyone goes when it comes to satellite reception. You could say that the number of installed dishes is actually double that when you take into account the 10 antennas that CISS temporarily set up for the CommunicAsia trade show.

The offices and small-parts warehouse for Commercial Industrial Supplies & Services Pte Ltd (CISS) can be found on Guillemard Road in eastern Singapore. A larger warehouse is located somewhat further away from the city. CISS has 20 employees.



Lim Ee Cheong, Executive Director of CISS, in front of the CATV and MATV parts section in the small-parts warehouse, and holding some multiswitches from WISI in his hand. CISS also stocks products from Alcad, Dynasat and Prodelin.

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Lim Ee Cheong, executive director of CISS, explains the reason for this: "Satellite reception is just a niche market here in Singapore." There are several reasons for this: private satellite reception is officially prohibited, "but the government isn't all that strict about this anymore", reveals Lim, "erecting a satellite system for schools and hotels is no longer a problem since they can now freely install a satellite system; even commercial institutions should have no trouble getting the necessary license." A far greater obstacle is their strict adher-

ence to aesthetics: you are highly unlikely to get permission from the housing authority to install a private satellite antenna. And if you look around Singapore you will see that the city is essentially "clean"; you won't see any telephone or electrical cables out in the open.

Singapore has been "cabled" for quite some time now. "The only opportunity for satellite reception may have existed back in the early 90's", comments Lim, "but there are so many channels available via cable today and now IPTV is also becoming a

factor." HDTV by itself is no reason for Singaporeans to get more involved with satellite reception since this is already available terrestrially via DVB-T. But Lim identifies another reason for this lack of interest: "There are also technical problems: the Ku-band is very much prone to constant moist heat and the installation of C-band dishes on top of apartment buildings is also problematic due in large part to the wind load."

It is not only the aesthetic requirements that hinder satellite antenna installa-

tions; the roofs of the apartment buildings are occupied largely by water storage tanks. Finding room for a satellite dish would be difficult at best. CISS has for quite some time expanded in other directions such as the cabling of residential areas. They have also become involved in video conferencing and training. CISS, founded in 1972, constructed an antenna farm in 1996 for Singtel, Singapore's telephone company, and also erected the receiving antennas for the cable company MITV in Malaysia so that TV signals could be distributed in their cable network.

An extremely large problem in Singapore is interference from radar stations. Since most of the dishes are installed on the roofs of apartment buildings in full view of all this interference, they manage to receive a wide variety of secondary signals such as terrestrial transmissions and also transmissions from the many ships in the South China Sea and the Straits of Malacca. CISS offers band filters in order to eliminate these interference signals. It is the gray block between the LNB and feedhorn.



The future according to Lim will still be in the professional niche market and includes the construction of the communications infrastructure on oil drilling platforms. He does not see that this future will include private satellite reception in Singapore.

Satellite Reception on a Ship

Where actually would you buy a satellite antenna for a ship? Well, naturally, you'd go to the coast. And if you're looking for a satellite antenna for reception of TV and radio you should go where the expensive yachts are since almost every one of them has a satellite TV system installed on it. A good tip would be Fort Lauderdale in Florida in southeastern USA. Many yachts can be found anchored here or stop here on their way to the Caribbean. And this is where you'll find Global Satellite.

Right in the middle of the busy and popular Harbor Shops shopping center, Martin Fierstone, President and CEO of Global Satellite, started his business in 2001. But Martin has been in this business for much longer than that.

"I have been working in the maritime electronics and communications field since 1976", explains Martin, originally from France. "I founded my business in Paris and opened a third office in Casablanca, Morocco in early 2009", explains Martin. Hence the term 'Global' in his company name.

How did Martin end up in Florida? "For private reasons I acquired a house in Fort Lauderdale in 2000", he explains, "and then it was just a small step a year later to start a new business."

Global Satellite USA started with four employees and in the meantime it has become eight employees. Satellite TV and radio reception equipment actually only makes up about 10% of their sales. Most of Global Satellite's sales can be attributed to satellite telephones, Internet-via-Satellite systems and GPS units.



■ Entrance to the Harbor Shops shopping center in Fort Lauderdale located not too far from the Everglade Docks where all the large cruise ships can be found.



■ Martin Fierstone is Global Satellite USA's President and CEO

"When we deliver a TV system, we also deliver the complete audio and video system at the same time", says Martin, "and install the complete TV and HiFi system on the ship."



■ Global Satellite's store front

Martin thinks back; "In 2001 we were only able to sell one of those systems but in 2008 we sold 15." During the current economic crisis Martin doesn't really see any significant growth potential in this market segment. "Business with yachts is a constant up and down", sighs Martin. Nevertheless, 2009 did bring Global Satellite sales of roughly US\$ 10 million with an increase expected for 2010.



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BEST SATELLITE COMPANIES of the WORLD



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ABC BIZNIS.

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Satellite Receiver Manufacturer, Slovakia



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Aluo-Sat

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ANGA



Cable and Satellite Exhibition, Germany

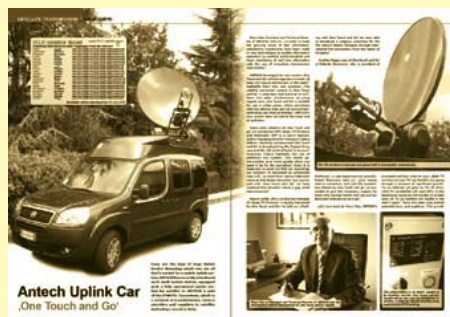


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ANTECH



Uplink Station Manufacturer, Italy



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ARION



High Quality Receiver Manufacturer, Korea



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AZBOX



Satellite Receiver Manufacturer, Portugal



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AZURE SHINE



Satellite Dish Manufacturer, Taiwan



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CABSAT



Satellite Exhibition, Dubai



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CHANGHONG



Receiver and TV Manufacturer, China



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COMMUNIC ASIA



Satellite Trade Show, Singapore



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DISHPOINTER



Satellite Dish Alignment Software, Germany



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DOEBIS



Satellite Wholesaler, Germany



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EURO1080



HDTV Broadcaster, Belgium



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GLOBAL INVACOM



LNB and Accessory Manufacturer, UK



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GT-SAT INTERNATIONAL



LNB Distributor, Luxembourg



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HORIZON



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INFOSAT



Satellite Dish Manufacturer, Thailand



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JIUZHOU



Satellite Receiver Manufacturer, China



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KAIFA



Satellite Receiver Manufacturer, China



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MFC



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MOTTECK



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MTI



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NANOXX



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PROMAX



Digital Powerhouse, Spain



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SAMMEG SATELLITE



Satellite Wholesaler, South Africa



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SKYWORTH



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SUBUR SEMESTA

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Satellite Dish Manufacturer, Indonesia



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SVEC



SVEC

Professional Dish Manufacturer, China



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TECHNISAT

TechniSat

TV Manufacturer, Germany



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VIEWSAT

VIEWSAT

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YINHE



YINHE

High Volume Receiver Manufacturer, China



www.TELE-satellite.com/TELE-satellite-1007/eng/yinhe.pdf

Big Dish in India

Siddharth Gautam operates a major satellite reception station in New Delhi. When the time had come for a refurbishment he invited us to get a first-hand impression of his job. Siddharth Gautam tells us why these changes have become necessary: "The main reason is the relocation of the eight dishes, so that they do not interfere with each other any longer. After all, every dB counts!"



■ Metal struts for the dish construction arrive like that.

■ Assembly of the 32 struts.



■ New Delhi, India

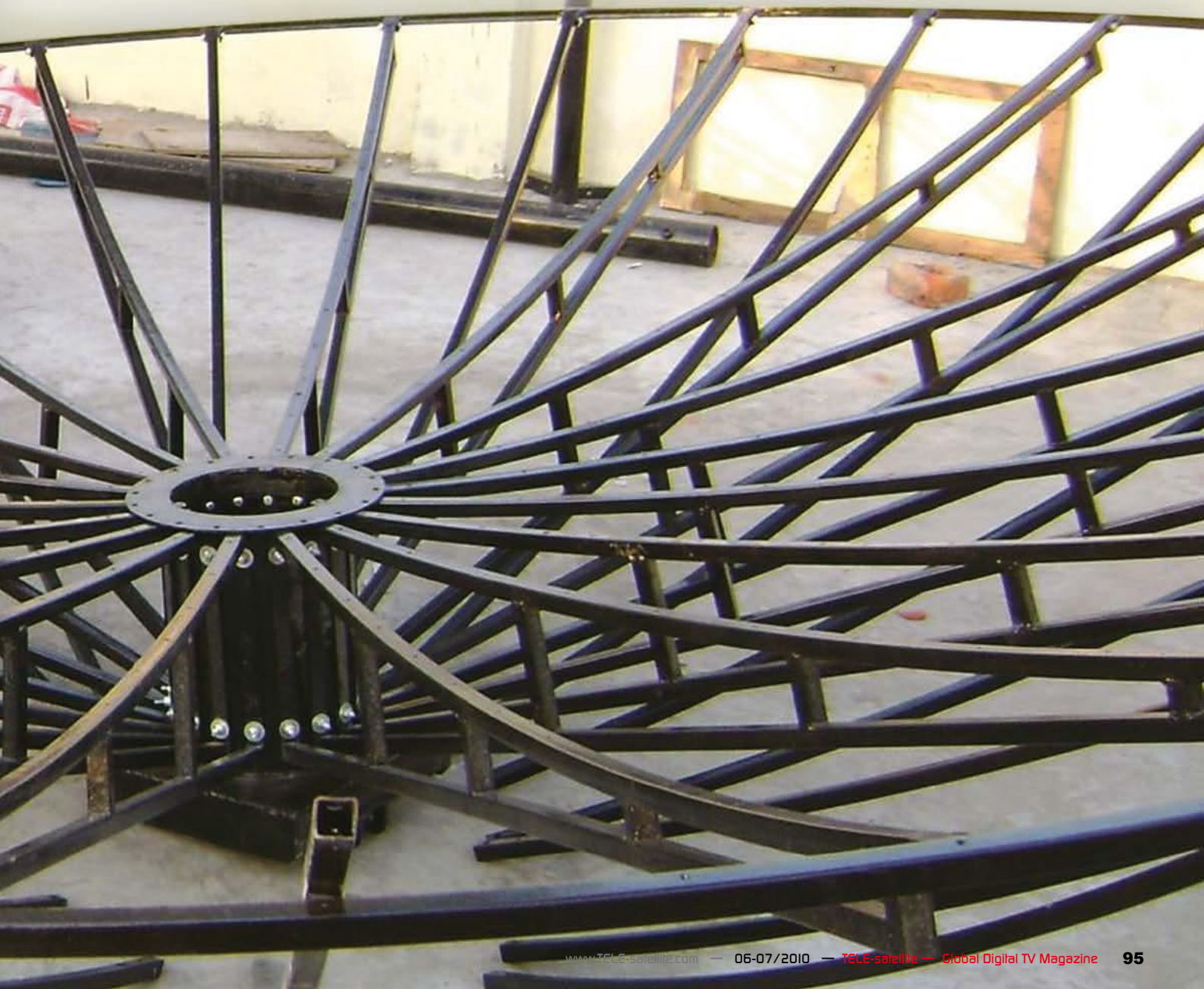
What sounds easy enough on paper is actually a huge job, considering there are two dishes with a diameter of 2.4 metres, four with 1.8 m and two with 1.6 m. And that's without giving the small 60 cm dish a mention.

Yet Siddharth hastens to add that "it is precisely the 60 cm antenna that's playing a major role. It receives TELSTAR 18 at 138° East, even though this should not be possible at my location – in theory."

After a great deal of precise alignment Siddharth achieves 80% signal quality for horizontal TELSTAR 18 transponders. On vertical transponders, however, the level hardly exceeds 20%. "Obviously this is only a temporary solution, and I hope to be able to use a 1.2 m antenna for that purpose soon," Siddharth explains and looks forward to a more a stable reception environment.

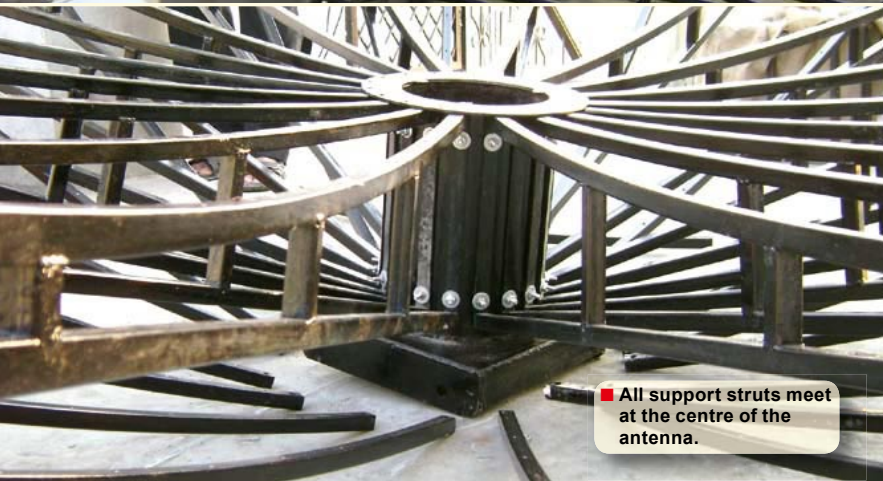


■ All individual segments are screwed onto the dish construction.





■ Completed antennas provide some welcome shade.



■ All support struts meet at the centre of the antenna.



■ Screwing together the feed arms.



■ Almost done: Attaching the final segments to the construction.

ANNOUNCEMENT

Horizon Winds up Maxpeak Ltd in the High Court.

Horizon Global Electronics Ltd won its petition No 582 of 2010 in the high court of Justice Chancery Division Company's court on the 10th of March 2010 to have Maxpeak Ltd wound up under the provisions of insolvency act 1986.

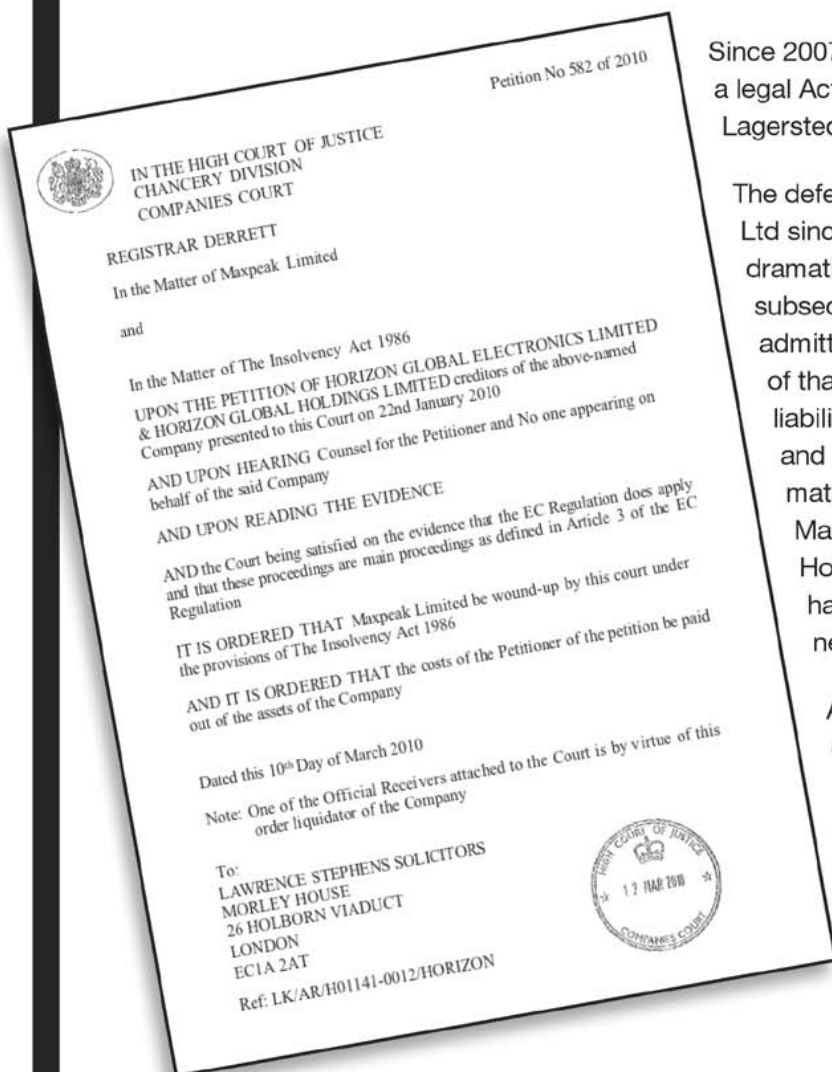
One of the official receivers attached to the court is by virtue of the order appointed liquidator of the company and it is ordered that the costs of the petitioner (Horizon) be paid out of the assets of the company (Maxpeak Ltd).

This winding up order was the consequences of Horizon's success in the High Court against Mr Patrik Lagerstedt and Maxpeak Ltd, Mr Lagerstedt was made personally bankrupt on the 12th January 2010 stating his profession as unemployed. Since resigning from his seat on the board of Maxpeak AB and as a director of Maxpeak Ltd (which owns Maxpeak India Pvt Ltd.

Since 2007 Horizon Global Electronics has been involved in a legal Action with High Court in London against Mr. Patrik Lagerstedt and his company Maxpeak Ltd.

The defence case adopted by Mr Lagerstedt and Maxpeak Ltd since the beginning of the proceedings collapsed dramatically only days before the trial. In a document subsequently submitted to the court, Mr Lagerstedt admitted that he lied in his written evidence. As a result of that, Mr Lagerstedt and Maxpeak Ltd admitted liability. The essence of the claim against Mr Lagerstedt and Maxpeak was that Mr Lagerstedt had diverted a maturing business opportunity away from Horizon to Maxpeak, while he was a director and employee of Horizon. Horizon always maintained that Mr Lagerstedt had diverted away from it the opportunity to exploit a new form of technology for use in satellite meters.

According to the sources, Patrik formed his own company Maxpeak Ltd while still in employment with Horizon and started using the technology along with the Sharp IC for its own use in a satellite meter called the SAM. Patrik took unforeseen advantage of availability of technical documents and blueprints of designs to his own benefit and inadvertently caused damage to Horizon, financially as well as morally.



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■ It took the helping hands of eight people to hoist the 2.4 m dish with its more than 200 kg onto the mast (visible in the front).



■ Done: The antenna securely sits on the mast. Alignment is next.



■ The fastening screws are welded onto the mast right on-site.

What required the biggest effort during the refurbishment was raising the mast bases so that individual dishes do not restrict the view of others.

"Naturally, the two 2.4 m antennas involved some serious physical work," Siddharth explains. "After all, they weigh more than 200 kg each."

As expected, a major job like this cannot

be completed without its set-backs. "One day after we had mounted one of the 1.8 m dishes on the brick-and-mortar base a strong wind kicked in and caused cracks in the base." It turned out that the bricklayers had used cement too liberally, so that the base had to be re-built, this time with a metal band around it.

All this caused a delay of one week and Siddharth emphasises that local engi-

neer Jagdish Singh played a huge role in correctly setting up and aligning the antennas. "Incidentally, to that end we used the DVB-S SatCatcher meter presented in TELE-satellite a few issues back," Siddharth adds.

Siddharth and his engineer partner Jagdish are busy all the time keeping the satellite station up and running, so that a reliable flow of data can be guaranteed.



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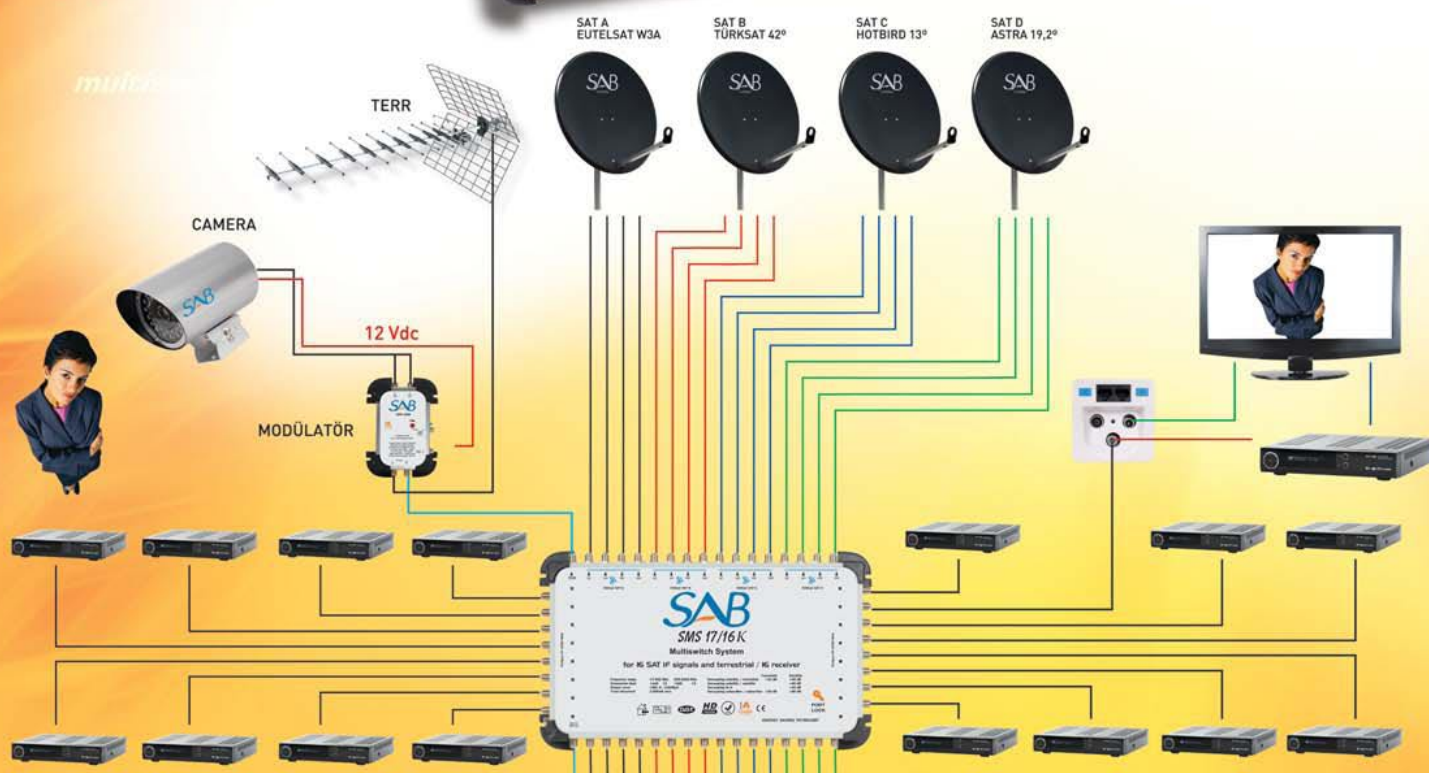


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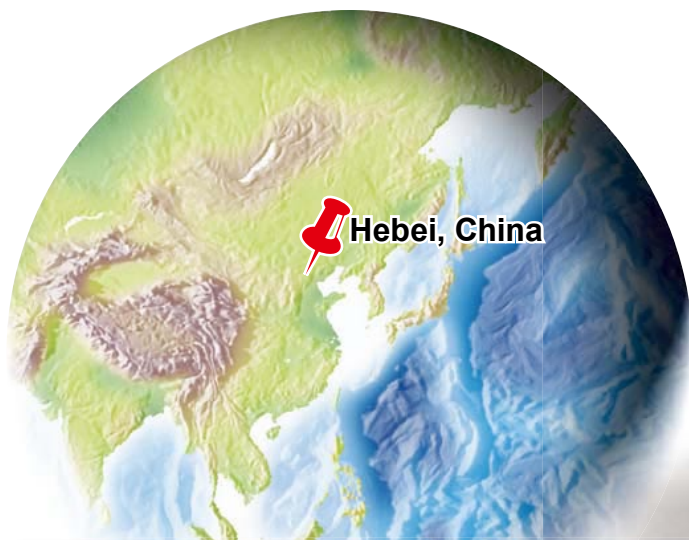
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The Umbrella Antenna

A Retired Chinese Professor's Homemade Antenna

An umbrella can be used for other things and not just to protect you from rain: have you ever thought of converting it into a collapsible satellite antenna? Wenbi Wong did. He's a retired professor who taught at a Beijing university. He has been working on this unique antenna idea for the past 20 years before his retirement. We met up with him in Beijing so that he could tell us more.



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■ This is Wenbi Wong. He's carrying a plain bag on his shoulder. What could be in the bag?

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1. He's pulling out something unique from that bag. What could it be?

2. Slowly the veil on this secret is being lifted. It looks like an umbrella.

3. That's almost right. Opening up the "umbrella" reveals a satellite dish!

4. Close-up view of the Cassegrain umbrella. Thanks to the reflectors, the LNB is mounted behind the dish.

5. A tripod was also in the bag on which the umbrella antenna can be mounted. And just like that the portable satellite antenna is ready to go. Wenbi Wong needed about six months to develop this prototype. "I bought the umbrella in a shop for 20 RMB (about 2 Euros)", he explains, "but it had to be a really old umbrella that was made with quality materials." Extremely thin metal foil like that found in industrial protective clothing was used for the reflector material.

Wenbi Wong originally studied radar technology and came in contact with it in 1986 at a time when that technology had mostly military applications. He says proudly, "I actually received two patents for the construction of a microwave filter!"

He is 72 years old today and has since moved to the city of Langfang in the Hebei province roughly an hour by car southeasterly from Beijing. "I have more than ten satellite dishes in my garden", explains Wenbi Wong, "but I'm not a real TVRO fan."

He's much more interested in the technology behind satellite reception and that's where his drive to create new satellite antennas comes from.

The prototype umbrella antennas that he currently made in 30cm, 70cm and 80cm sizes are not the only things he's building. He mounted a 60cm motor driven offset antenna, which of course he built himself, on the roof of his all-wheel-drive vehicle.

He is especially proud of a motorized antenna he installed in an aluminum suitcase. Wenbi Wong isn't making all these things just for the fun of it: "I'm looking for manufacturers who will take my ideas and professionally produce and market them", says Wenbi Wong.



The World of Satellite DXers

Backlist: DXer reports in previous issues of TELE-satellite

Cahit Nuri Or, Adapazari, Turkey: www.TELE-satellite.com/TELE-satellite-1005/eng/aststrainturkey.pdf
 Satheesan, India: www.TELE-satellite.com/TELE-satellite-1003/eng/indiadxer.pdf
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1



3



2



4

1. Wenbi Wong is going on a trip. What could be in that aluminum suitcase?

2. He opens the suitcase and drives the motorized dish out into position. The suitcase also serves as a stable mounting platform.

3. A closer look at the antenna suitcase. Or is it a suitcase antenna?

4. Wenbi Wong with his all-wheel drive vehicle. What is that on the roof?

5. The dish is moved into the correct position using the antenna motor.



5



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Components Used

- Conexant CX23885;
- dual demodulator STM STV0900;
- tuner STM STV6110A;
- dual LNB STM LNBH24;
- SMARTV CIMaX Sp2.



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1. Another Wenbi Wong creation: a satellite dish made from an out-of-service electric heater. The Cassegrain principle is also very helpful here in finding an elegant solution for the LNB.

2. What is Wenbi Wong holding in his hand?

3. It looks like...

4. ...a 30cm satellite dish?

5. Wenbi Wong (left), inventor of a variety of satellite antenna forms, and Luo Shigang (right), Aluosat CEO. Aluosat distributes TELE-satellite in China and put us in touch with Wenbi Wong.



"Professionals might find the suitcase antenna interesting in that it could easily be checked in as luggage on a plane or a train."

As he takes a look over to his umbrella antenna he continues, "This could be interesting for DXers who might be out in the wild or up on a mountain or even for the military who'd need an easy to transport satellite antenna."

We have no doubt that commercial potential exists for the umbrella antenna. This would make it possible to convert a large diameter antenna into a smaller size that is handy and much easier to transport. It could be the perfect solution for some specific applications.

Manufacturers can contact Wenbi Wong via e-mail at thwwwb@126.com.

He admits: "I don't speak any Eng-



lish but if I should receive an e-mail in English, my friend will help me with the translation."

We are anxious to see if a professional version of his umbrella antenna will become available!



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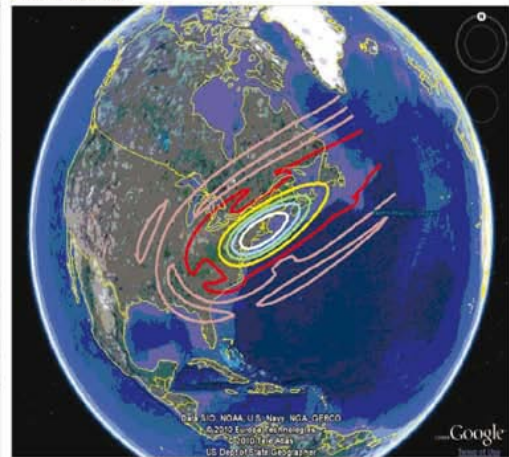
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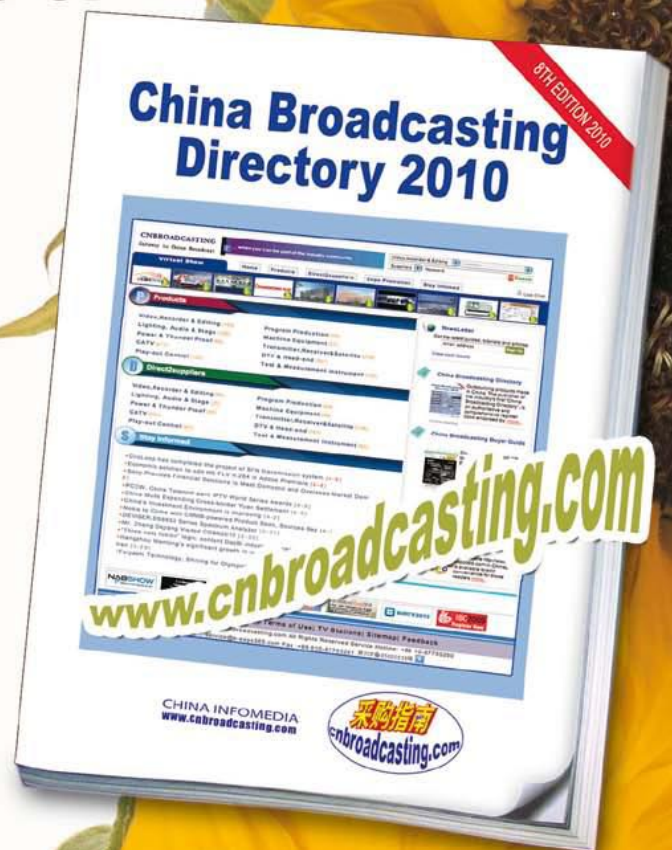


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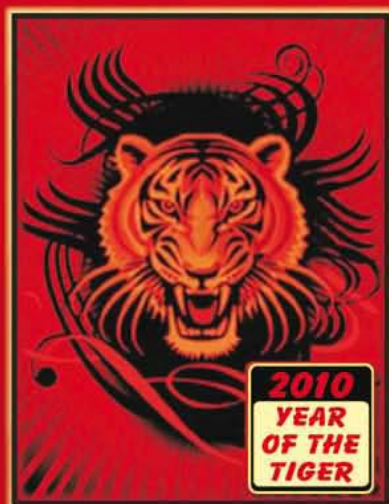
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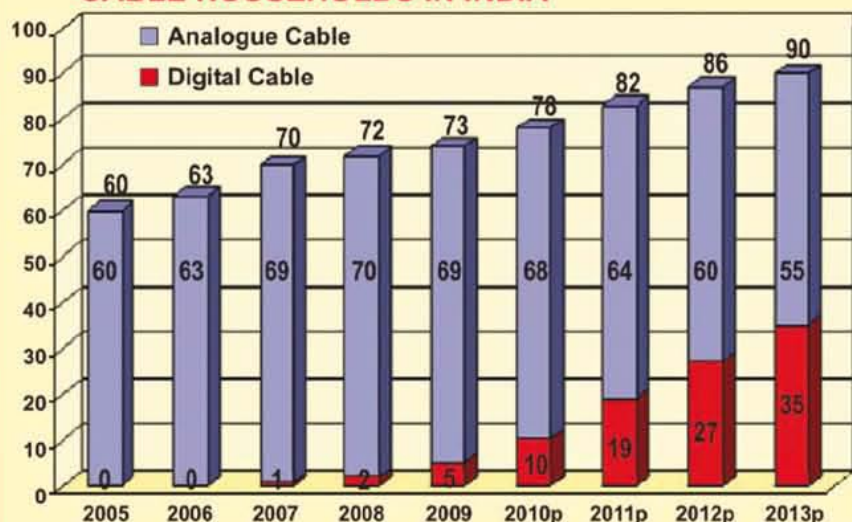
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YOUR COMPETITORS WILL ALL BE THERE, WILL YOU?



Edited by
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EUROPE

FRANCE

FRANCE TELECOM SELECTS ORCA INTERACTIVE SOLUTION

France Telecom has selected Orca Interactive to provide its Compass Content Discovery and Recommendations platform for the implementation of a multi-screen content discovery and recommendation solution across all Orange TV services. Compass includes a variety of recommendations engines to provide a blend of personal, optimised recommendations to TV, PC and mobile users. As a result, Orange hopes that its TV customers will be able to discover content that is relevant for them, resulting in greater customer satisfaction and higher conversion rates.

GERMANY

VODAFONE TO LAUNCH IPTV SERVICE IN GERMANY

Vodafone Germany is planning to launch its own IPTV services as part of its strategy to emerge as a full service provider following the acquisition of its fixed network subsidiary Arcor in 2008. According to CEO Friedrich Jousen, the trials of the IPTV service were successful and the offer will be very competitive.

DEUTSCHE TELEKOM TARGETS 3 MILLION IPTV SUBSCRIBERS

Deutsche Telekom has presented a new strategic plan, in which it reveals its aim to reach 2.5-3 million subscribers for its IPTV service T-Home Entertain by the end of 2012, and go on to reach up to 5 million customers by the end of 2015, compared to the current total of 1 million packages sold (as of the end of 2009). Deutsche Telekom is aiming to connect up to 4 million households with fibre-based broadband services by 2012, and will invest around €10 billion between 2010 and 2012.

GREECE

OTE SELECTS PIRELLI SET-TOP BOXES

OTE has selected Pirelli Broadband Solutions to deliver two different models of HD set-top boxes for the IPTV service Conn-x TV. Pirelli is providing the P.VU2000 HD IPTV and P.VU2600 HD PVR models, which support H.264 decoding and TR-069 remote manageability, as well as the SecureMedia Conditional Access System, and will interoperate with Ericsson's MAS IPTV platform. OTE had attracted around 10,000 subscribers to its IPTV service by the end of September 2009.

HUNGARY

DIGITAL TV SUBSCRIBERS TOP 1.14 MILLION

The number of digital TV subscriptions in Hungary rose 7,000 to 1,148,000 by the end of January 2010 from a month earlier, the National Telecommunications Authority (NHH) said. Digital TV subscribers accounted for 46.2% of the almost 3 million TV subscribers in Hungary as against 45.8% a month earlier. The percentage of subscribers with digital or IPTV subscriptions rose to 16.2% in January from 15.6% in December.

ITALY

TELECOM ITALIA AND INTEL TEAM UP FOR IPTV

Telecom Italia and Intel have partnered to deploy internet services and next-generation online TV based on the open source software platform Meego. The collaboration between the two groups aims to make even simpler and advanced the distribution and use of multimedia content, such as WebTV, VOD and web-based services over IP networks, enriching the offer new solutions for home entertainment and the use of electronic devices. Meego is the new Linux-based platform, formed by the merger of Intel's Moblin and Nokia's Maemo projects.

MALTA

MELITA SELECTS NETGEM SET-TOP BOXES

Melita has selected Netgem to provide set-top boxes for its HD pay-TV service, delivered over a hybrid cable and IPTV network. The new PVR set-top box will be in operation in time for the World Cup in South Africa, enabling subscribers to record, pause and rewind live matches and other programmes, as well as access multiple language commentary. Melita also plans to nearly double its TV channel line-up to 150 channels by June. The operator currently serves over 180,000 customers with triple-play services.

MONACO

MONACO TELECOM TO LAUNCH IPHONE APPLICATION FOR IPTV

Monaco Telecom plans to launch a new iPhone application in June, in partnership with Netgem, enabling subscribers of its IPTV service Monaco TV to control the service via their mobile phone. Monaco TV offers linear and on-demand video and Media Centre functions, as well as a number of Internet-based services.

POLAND

WIST SELECTS VERIMATRIX PROTECTION

WIST has selected content protection from Verimatrix to secure its IPTV service in the Rzeszow region. WIST is delivering IPTV services to subscribers via its ADSL2+ network, and is using middleware from BeeSmart, customised by Polish firm VECTOR, and Motorola's 1910 series of set-top boxes. The service features 80 linear channels (delivered in MPEG-2 and MPEG-4), VOD and network PVR services.

SPAIN

IMAGENIO SURPASSES 700,000 SUBSCRIBER MARK

Telefonica's IPTV platform has registered a 15% annual increase in clients, corresponding to more than 90,000 new additions. As a result, on 31 December 2009 the platform had 702,980 subscribers, or 17% of the Spanish pay-TV market. To give more emphasis to this result, Telefonica recalls that only 60% of Spanish households can receive this platform.

UNITED KINGDOM

PACE TO LAUNCH NEW IPTV PLATFORM

Pace, will be launching a new platform utilising the Microsoft Mediaroom IPTV software. The set-top box manufacturer has come up with a fully customisable platform that will allow operators of online TV services to roll out IPTV and hybrid broadcast and broadband services.

SKY PLAYER TO BE AVAILABLE ON IPTV BOXES

Sky Player, the online TV service from Sky, will soon be available through internet ready TV's and IPTV set-top boxes. The content, available on a bonus basis on top of their current TV subscriptions.

NORTH AMERICA

UNITED STATES

AT&T EXPANDS IPTV SERVICE TO MORE MARKETS

AT&T has expanded the availability of its U-verse High Speed Internet Max Turbo service to all markets where its IPTV service U-verse TV is available, offering broadband speeds of up to 24 Mbps downstream and up to 3 Mbps upstream. AT&T U-verse TV services are available in 120 markets across 22 states in the US.

DUNCAN CABLE CHOOSES GOBACK IPTV TECHNOLOGY

Vermont-based Duncan Cable TV has picked GoBack TV's technology, involving switched multicast, CMTS bypass, IPTV set-top boxes and time-shifted TV. Along with GoBack's IPTV solution, Duncan is initially deploying set-top boxes from Amino. Services include 50 linear HDTV channels, an interactive video mosaic, VOD, start-over TV and switched multicast. Duncan will also use GoBack's middleware to provide guide and navigation tools.

LATIN AMERICA

COLOMBIA

ETB PLANS TO LAUNCH IPTV SERVICE

ETB is looking to launch IPTV services in an effort to stay competitive with rivals Telefonía Colombia, EPM Telecomunicaciones (UNE) and Teléfonos de México (Telmex). Telmex has more than 50% of the pay-TV market currently, while UNE has around 25% and Telefonía about 5%. ETB is planning to start offering IPTV services in the next 12 months and expects the return on investment to take around 7 years.

NETHERLANDS ANTILLES

MANYCAST AND TELEFONIA PARTNER ON DTT PROJECT

Manycast Consultancy and Telefonía Bonairiano (Telbo) have formed a strategic partnership to deliver digital TV content such as Linear Digital TV Channels, VOD and PPV services to telecom, media and hospitality companies in the Caribbean and South- & Central America. This partnership has already successfully marketed Eurosport channels and various high quality Dutch channels to clients in the Dutch Antilles.

VENEZUELA

NETUNO TO LAUNCH IPTV BY END OF 2010

NetUno has announced it will launch IPTV services in Caracas in the fourth quarter of 2010 based on its fibre-to-the-building (FTTB) network which will begin offering services to residents in the city's new-build El Encanto condominium project. The company has already launched HDTV services in Maracaibo, one of its three fully digital cities, the other two being Maracay and Valencia, whilst it is now looking at plans for 3D TV services. The company's services currently cover 90 cities in central and western Venezuela.



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ASIA & PACIFIC

AUSTRALIA

AUSTRALIAN IPTV MARKET HEATS UP

Telstra has struck a deal to make its BigPond paid movie download service available on Samsung's new range of 3D and internet-connected TV sets, providing competition for the movies-on-demand service available on pay-TV platform Foxtel. Meanwhile, IPTV operator Fetch TV is also planning to launch an IPTV service, while Hybrid TV, which owns the TiVo licence, announced the first Australian rental distribution deal for the Disney studio and US network ABC outside of Apple's iTunes online store.

CHINA

CHINESE IPTV SUBSCRIBERS TO DOUBLE THIS YEAR

The number of IPTV subscribers in China will double this year to reach 8.5 million by the end of the year (up from 4.4 million in 2009), according to a new report from iSuppli. By 2014, IPTV subscribers in China are expected to exceed 31 million. IPTV services are currently available in over 20 provinces and cities across the country, but subscribers are concentrated in only a few areas (Shanghai, Jiangsu and Guangdong).

MALAYSIA

TELEKOM MALAYSIA LAUNCHES IPTV

Telekom Malaysia launched its IPTV service in March and has signed deals with national and international broadcasting companies to provide the content. They include the Travel Channel, BBC Life-

style, Deutsche Welle, Euronews as well as TV3, NTV7 and 8TV. Two channels offer HD videos. Subscribers need a 2 Mbps connection while for viewing HD videos a 8 Mbps connection is required.

NEW ZEALAND

VERIMATRIX SECURES CONTENT FOR TELSTRACLEAR

TelstraClear is the latest DVB hybrid operator that will be securing its pay-TV revenue with the Verimatrix Video Content Authority System (VCAS) for DVB. Using a custom hybrid platform, a joint development between Verimatrix, TelstraClear and Digisoft.tv, the service will deliver a wide range of pay-TV services over an advanced network to the New Zealand market. TelstraClear currently has 400,000 triple-play subscribers. It recently upgraded its fibre-based distribution and broadband IP network to deliver DVR functionality, HD on-demand channels and other interactive capabilities.

SOUTH KOREA

WARNER BROS. KT TEAM UP FOR VOD SERVICE

Warner Bros. International Branded Services has launched its on-demand WarnerTV branded service for the first time ever in Korea, via an agreement with KT's IPTV provider QOOK TV. The VOD service is available at no extra charge for consumers who purchase QOOK TV's subscription VOD programming package. Each week, Warner will deliver new blockbuster theatrical motion pictures as well as popular American television sitcoms and dramas to Korean viewers.

KT AND FRANCE TELECOM TO DEVELOP DIGITAL HOME SERVICES

KT and France Telecom have signed a preliminary agreement to join forces in developing digital homes services in South Korea. Under the deal, France Telecom will provide software technology from the SoftAtHome initiative (formed by Orange, Thomson and Sagem) to KT, allowing the use of PC Web browsers and content on IPTV services. The software is also expected to enable the free and easy exchange of content from PCs, phones and smartphones with wired and wireless networks.

UNITED ARAB EMIRATES

ETISALAT TO AIR ENGLISH PREMIER LEAGUE ON IPTV

Etisalat has signed an agreement with Abu Dhabi Media Company (ADMC) to broadcast the English Premier League (EPL) for three consecutive seasons on its IPTV service, starting August 2010. Etisalat's E-Vision and eLive customers will have access to the premium football programming on Abu Dhabi Al Riyadiya channels. ADCM has signed a similar agreement with du, involving the broadcast of EPL games on the latter's IPTV service for three seasons, starting in August.

WORLD

GLOBAL IPTV SUBSCRIBERS TO REACH 68 MILLION IN 2014

Thanks to a stronger push for connected HDTVs in Western Europe and the Asia Pacific region, there will be more than 68 million IPTV subscribers worldwide by 2014, according to a forecast from Strategy Analytics. That would be more than double the 30 million IPTV subscriptions worldwide this year.



Edited by
Branislav Pekic

EUROPE

BOSNIA AND HERZEGOVINA

DTT INTRODUCTION TO COST BAM 60 MILLION

According to initial estimates by the Ministry of Transport and Communications of Bosnia and Herzegovina, the transition to digital broadcasting for the public broadcaster will cost around BAM 60 million (EUR 30 million). The process involves the introduction of digital transmitters, transmission links between transmitter, and the provision of funds for the purchase by citizens of set-top boxes to convert analogue to digital signals. Part of the resources can be provided by a loan from the EBRD.

GERMANY

MEDIA BROADCAST SELECTS T-VIPS DTT SOLUTION

DTT operator Media Broadcast has chosen the T-VIPS CP560 DVB-T2 Gateway for DVB-T2 Trial Niedersachsen. This T-VIPS solution fills a gap in the DVB-T2 solution set for SFN operation, integrating with existing DVB-T head-ends and DVB-T2 modulators to enable DTT operators to take advantage of the bandwidth efficiencies of DVB-T2. These bandwidth efficiencies can be used to launch additional SD and HD channels, to increase video quality or to improve portable and mobile reception.

IRELAND

RTE HAS UNTIL OCTOBER TO LAUNCH DTT

The Irish government has ordered RTE to have DTT available to more than 90% of the population by the end of October, despite ongoing delays with the commercial side of the project. RTE is understood to be fairly confident that it can have the public service side of DTT operational in time for this deadline. However, it is likely to put further pressure on the Eircom-led commercial consortium OneVision to sign contracts with RTE and the Broadcasting Authority of Ireland (BAI). DTT will compete with Sky Digital and UPC.

ITALY

DIGITAL TV SURPASSES ANALOGUE TV IN ITALY

For the first time ever, digital has overtaken analogue as the main television distribution platform in Italy. In February, the digital TV platforms (DTT, satellite, IPTV) were responsible for 51.2% of the total TV consumption in Italy. The most popular of the three is DTT, which has 35% of the total TV audience and is worth 69% of the total digital TV market. Satellite is stable at 15.2% while IPTV has a marginal role, with a 0.4% share. Meanwhile, the number of Italian households equipped with a DTT receiver at the end of January rose to 15,683,000, according to figures published by E-res/Makno.

LITHUANIA

TEO DECLARED TO HAVE SIGNIFICANT MARKET POWER

On 24 February 2010, Lithuanian Communications Regulatory Authority (CRA) recognised TEO LT, AB having significant market power on the market of digital terrestrial television (DVB-

T) broadcasting transmission services for end users of content provision services using radio frequencies (channels) assigned to TEO LT.

MONTENEGRO

EU ALLOCATES €1.2 MILLION FOR DTT IN MONTENEGRO

The European Union has allocated €1.2 million in equipment to public broadcaster RTVCG for the switchover to DTT. According to EU Ambassador in Montenegro Leopold Maurer, the EU will provide an additional €3 million from the IPA program.

PORTUGAL

PORTUGAL TELECOM ACTIVATES NEW DTT TRANSMITTERS

Portugal's Telecom has a total of 79 active DTT transmitters, covering 80 per cent of the population. As a result more than 8 million Portuguese can now watch DTT and the remaining 20 per cent of the population will be covered by the end of 2010.

REGULATOR REJECTS REVOKING DTT LICENSES

Portugal's Regulatory Authority for Social Communication (ERC) has dismissed the revocation of the license for pay-TV channels on DTT submitted by PT Comunicações. In February, telecommunications sector regulator Anacom accepted the revoking of the license, without the loss of the deposit paid by the operator after winning the tender, of €2.5 million.

SERBIA

DTT TO COST SERBIA UP TO €50 MILLION

The switchover from analogue to digital terrestrial television, which will be implemented by 4 April 2012, will cost Serbia up to €50 million, according to the Minister for Telecommunications and the Information Society, Jasna Matic. A separate company has been set up for the transmission of digital signals for all broadcasters who have a license. The government has yet to decide whether it will subsidise the acquisition of digital receivers for citizens who are socially vulnerable.

SLOVAKIA

NET INSIGHT RECEIVES ORDER FROM TOWERCOM

Swedish video and data networking equipment developer Net Insight has won an add-on order for its Nimbra platform, regarding deployment of a DTT network in Slovakia. Slovakian media operator Towercom, will deploy the third phase of its Nimbra platform-based DTT network. Towercom placed the previous two orders last year.

SLOVENIA

SLOVENIA INITIATES DIGITAL SWITCHOVER

Switchover to DTT in Slovenia is scheduled to take place by the end of 2010. So far only about 5% of Slovenian households watch DTT. RTV SLO built the first DTT multiplex and made it operational in 2007. A second national DTT multiplex franchise was awarded to Telenor-owned Norkring. Testing, but no programming, began in December 2009. Target launch date is September 2010. The first commercial broadcaster to sign up for the second DTT multiplex is TV Pink.

SPAIN

SPAIN COMPLETES ANALOGUE SWITCH-OFF

Spain has completed the transition from analogue to digital terrestrial television. The third and final

phase of the analogue switch-off was completed in April and involved 32 million people in major cities such as Madrid, Barcelona and Seville. The transition to DTT has cost some €288 million.

UNITED KINGDOM

ENENSYS SUPPLIES DVB-T2 EQUIPMENT FOR HDTV

In December 2009, the UK launched the first HDTV service in the world to use the new DVB-T2 transmission format. Arqiva selected Enensys modulators for one of the launch transmitters, and a number of subsequent installations. Transmissions from the Crystal Palace transmitter site started to London, while additional transmitters at Black Hill (Glasgow), Pontop Pike (Newcastle), Lichfield (Birmingham), and Emley Moor (Leeds/Bradford) are due to be brought on-air during Spring 2010.

BBC CONFIRMS STANCE ON HD DTT COPY PROTECTION

The BBC has reasserted its stance that a certain amount of copy protection should be implemented for high value content on Freeview HD. According to BBC chief operating officer Caroline Thomson, the BBC's proposed system would be similar to the protection already operated on Freesat, where high value HD content is delivered with codes enabling just one copy to be made.

NORTH AMERICA

UNITED STATES

SAMSUNG AND LG TO LAUNCH MOBILE TV PHONES

Samsung and LG are now launching the first ATSC-M/H receivers in the U.S. The Open Mobile Video Coalition, which has worked to develop the ATSC-M/H standard and lobbied for mobile digital TV in the U.S., now counts more than 800 member stations. Thirty stations will consumer-test the new standard in April. Premium content has so far been the core of Qualcomm's subscription-based FLO, which delivers shows from major networks ABC, CBS, NBC and Fox, along with specialized channels like ESPN and Disney.

LATIN AMERICA

BRAZIL

BRAZIL LOBBYING FOR ADOPTION OF DIGITAL TV STANDARD

Brazil is lobbying hard to get the rest of Latin America to adopt the Brazilian version of the Japanese digital television standard (ISDB-T), as Argentina, Chile, Peru and Venezuela have already done. It has offered Uruguay US\$ 40 million in aid if the incoming government backs out of its agreement with the European Union to adopt the DVB standard used in Europe and other parts of the world.

ECUADOR

ECUADOR OPTS FOR ISDB-T STANDARD

Ecuador has officially selected the Japanese-Brazilian ISDB-T digital TV standard, thus becoming the sixth Latin American country to adopt the standard, joining Brazil, Argentina, Chile, Peru and Venezuela. The Japanese government also signed a protocol to assist in the implementation of the system.

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PERU

PERU INITIATES DTT TRANSITION

The launch of DTT in Peru has begun, with TV Peru (Channel 7) becoming the first channel to be converted from analogue to digital signal under the ISDB-T format. The second quarter of 2010 represents the deadline for implementing the Plan de Canalización y Asignación de Frecuencias (Channel Frequency Allocation Plan) in Lima and Callao, and the second quarter of 2014 to commence DTT broadcasting. Through this signal, ATV (Channel 9) will live-broadcast FIFA World Cup South Africa 2010, Frecuencia Latina (Channel 2) will do the same with the Volleyball World Championship scheduled for mid-2010.

ASIA & PACIFIC

THE PHILIPPINES

JAPAN LOBBYING FOR ISDB-T STANDARD

The Japanese government is offering to manufacture set top boxes for the country's transition to digital TV, according to NTC Deputy Commissioner Douglas Michael Mallillin. He said that the proponents of the ISDB-T standard were intensely lobbying the government to outbid European's DVB-T. Mallillin added that the Japanese government had already lowered the cost of set top boxes from around \$40 to \$11. DVB-T proponents, meanwhile, offered set top boxes that cost between \$13 and \$14.

TAIWAN

TAIWAN PLANS DTT SUBSIDIES

Taiwan's National Communications Commission (NCC), in line with its policy to stop

analogue terrestrial TV broadcasts in 2012, is drawing up a plan to subsidize the purchase of digital set-top boxes (STBs). The NCC has come out with two proposals: one calls for giving every household a free STB at a total budget of NT\$10.5 billion (US\$328 million) while another suggests only making low-income households eligible at a total budget of NT\$250 million.

AFRICA

BOTSWANA

DIGITAL SWITCHOVER DEADLINE SET FOR JANUARY 2014

Botswana's Minister of Transport and Communication has ruled, on suggestion of the Digital Migration Task Force (DMTF), that Botswana should have fully converted from analogue transmission to the digital television system by the end of January 2014. One of the main reasons for the conversion was the recognition of the increasing scarcity of frequency spectrum as a commodity.

GHANA

GHANA SETS 2012 DEADLINE FOR DTT BROADCASTS

The first Ghanaian pay-TV provider, Skyy Digital TV, is stepping up investments in DTT after receiving authorisation to operate a nationwide DVB-T service last year. Currently, the operator is airing 10 carefully selected TV channels. GTV and Skyy Digital are the only TV channels that have so far been given the authority to go digital. By 2012 the government will require that other TV stations go digital by either joining Skyy Digital TV's bouquet or that of GTV.

SOUTH AFRICA

11 DTT CHANNELS AVAILABLE IN SOUTH AFRICA

South Africa officially started the migration from analogue to digital terrestrial TV in November 2009. A total of eleven channels are being provided: SABC 1, SABC 2, SABC 3, eTV, eClassics, SABC Movies, SABC Sport, SABC NI (News International), SABC Knowledge, SABC Tots and SABC Junior.

DTT ROLLOUT DELAY

The Independent Communications Authority of South Africa (ICASA) has confirmed that South Africa's switch over to DTT will be delayed until 2013 at the earliest. This is over a year and a half later than cabinet had initially envisaged. The time frame for dual illumination will be communicated to broadcasters by the Regulator at least 60 days prior to the intended start date for dual illumination. The dual illumination period will terminate three years after the commencement date.

TUNISIA

TUNISIAN TV GOES DIGITAL

Tunisian Television initiated DTT broadcasts in March, broadcasting from 9 base stations and 71 secondary stations covering 90% of the population, from its new headquarters. From November 1, there will be widespread use of DTT in Tunisia to cover the whole country after a first experimental phase, launched in 2001 and providing coverage of the greater Tunis area. In 2009, digital broadcasting already covered 90% of the territory.



■ DVB-T

MPEG-2

Algeria
Albania
Australia
Austria
Belgium
Croatia**
Denmark**
Finland**
France
Germany*
Greece*
Indonesia
Ireland
Italy**
Luxembourg
Morocco
Namibia
Netherlands
Sweden*/**
Switzerland
Tunisia
UK**

* some

DVB-T MPEG-4

** some DVB-T2

* some

DVB-T MPEG-2

** some DVB-T2

■ DVB-T

MPEG-4

Azerbaijan
Belarus*
Bulgaria
Burundi
Central African Republic
Colombia
Czech**
Estonia**
Ghana
Guinea
Hungary**
Iceland
India
Iran
Israel
Kenya
Latvia
Lithuania
Macedonia
Malaysia
Mauritius
New Zealand
Nigeria
Norway
Panama
Poland
Portugal
Romania
Russia
Rwanda
Serbia**
Slovakia
Slovenia**
South Africa
Spain**
Uganda
Ukraine*
Vietnam
Zambia

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■ ATSC

Canada
Guatemala
Honduras
Mexico
USA

■ ISDB-T

MPEG-2
Japan

■ ISDB-T

MPEG-4
Argentina
Brazil
Chile
Peru
Venezuela

■ DMB-TH

China



Edited by
Branislav Pekic

EUROPE

EUROPE

SES ASTRA PLANS 3D DEMO CHANNEL

SES Astra is to launch a 3D demonstration television channel in May, in a bid to promote the new technology. The B2B channel will be designed for retailers to show off the technology in shops and will be launched at the 2010 Anga Cable conference.

BELGIUM

PENTHOUSE SECURES CARRIAGE OF HD CHANNELS

Penthouse TV has secured carriage of its high-definition linear channels in Belgium, with softcore Penthouse HD up and running and two hardcore versions waiting in the wings. Penthouse HD is now available as part of digital cable platform Numericable's premium package, while the other two hardcore channels, Penthouse HD1 and Penthouse HD2, will debut in the same platform's adult pack on May 15.

RTL TO LAUNCH HD SPORTS NETWORK

RTL Belgium launched a HD sports network in April, combining programmes from its RTL TV1, Club RTL and Plug RTL channels. RTL Sport HD carries sports events such as the MotoGP championship, Champions League football and the Wimbledon tennis tournament. The network is available on cable operator VOO and Numericable, and IPTV platform Belgacom TV.

HDTV AVAILABLE TO 92% OF FRENCH POPULATION BY 2012

By the end of the first quarter of 2012, 95% of the French population will be able to receive HD DTT signals, according to the new timetable set by the Conseil Supérieur de l'Audiovisuel (CSA). The decision was reportedly taken in agreement with TF1 HD, France 2 HD and M6 HD - the channels Arte HD and Canal+ HD are broadcast on other multiplexes and are already available in all areas covered by DTT.

MALTA

MELITA TO OFFER HDTV FROM THIS SUMMER

Melita has announced that its customers in Malta and Gozo will be able to experience HDTV from this summer. As a result, Melita TV subscribers will be able to watch all FIFA 2010 World Cup matches in HD for the first time ever in Malta.

NETHERLANDS

KPN INTRODUCES HDTV PACKAGE

KPN has introduced a new HDTV package for its IPTV service Interactive TV, according to local website Tweakers.net. The package contains 10 HD channels, including NOS 1-3, SBS 6, Net 5 and Veronica, as well as a number of Flemish channels. The HDTV package is reported to cost €10 per month.

UNITED KINGDOM

VIRGIN MEDIA ADDS 6 HD CHANNELS IN 2010

Since the start of the year, cable operator Virgin Media has added six new HDTV channels to its line-up. The latest additions include ITV 1 HD, Film 4 HD, E4 HD and Sci-Fi HD. Virgin Media plans more HD channels in the coming months.

BSKYB ADDS NEW HD CHANNELS

Sky is introducing Sky Sports 4 HD and the Hallmark Channel HD on its satellite TV platform. The HD version of Sky Sports 4 will broadcast over 9,000 hours of HD sport every year. The satellite company also intends to launch Sky News HD in the "coming months", thus becoming the first European news channel completely in HD. By Christmas, Sky hopes to achieve its target of 50 HD channels.

FIVE TO LAUNCH HD VERSION THIS SUMMER

Five will make its HD debut this summer, unveiling plans to launch a channel on Sky days after media regulator Ofcom withdrew capacity reserved for it on DTT platform Freeview. Five HD will be the RTL Group-owned broadcaster's first HD channel. Five HD will thus become Sky's 42nd HD channel. It is understood that the BBC, which already has a HD channel on Freeview, is likely to step in to provide another HD service.

WALES TO GET HD CHANNEL

S4C has invested £1 million to launch its HD channel, S4C Clirlun which is broadcasting on the Freeview HD platform since April. It is being transmitted simultaneously with S4C's SD output, with the Welsh-language channel targeting 100% of its programming to be in the HD format by 2012. The BBC, ITV and Channel 4 already broadcast in HD on Freeview and Freesat.

NORTH AMERICA

CANADA

MOVIE TIME LAUNCHES IN HD

Canwest Broadcasting has launched the HD version of its MovieTime channel as part of the Rogers Digital Cable VIP package, for customers with an HD box. This launch reinforces Canwest as a leader in HD programming with History Television, Showcase, National Geographic Channel and four Global Television stations - Toronto, Vancouver, Calgary and Edmonton - currently broadcasting in HD.

CRTC GREENLIGHTS PORN CHANNEL IN HD

The CRTC has approved an application by Sex-Shop Television which would allow the broadcaster to offer its adult pay-TV Vanessa in HD. First approved by the CRTC in 2007, the adult pay-TV has yet to make it to air in standard definition. The station is the brainchild of Anne-Marie Losique, a French television host and producer.

UNITED STATES

FOX SOCCER GOES HD

Dish Network is the sole cable or satellite operator in the U.S. to start showing Fox's soccer programs in HD. Negotiations are still ongoing with carriers such as DirecTV, Time Warner Cable and Verizon FiOS. In addition to five-year-old Fox Soccer Channel, the broadcaster has launched a premium channel called Fox Soccer Plus, available in both standard and high definition.

COX LAUNCHES EPIX HD

Cox Communications has rolled-out EPIX HD, a premium movie channel from Viacom Inc., Paramount Pictures, MGM and Lionsgate to its

markets. The channel is normally offered for \$9.99 per month. Other HD channels to launch soon on Cox include Disney XD HD Hallmark Channel HD.

GOLTV TO LAUNCH BILINGUAL HD CHANNEL

GoTV will launch its non-stop football coverage in HD on August 1. The new GoTV HD channel will be the country's first HDTV network offered simultaneously in Spanish and English. GoTV HD will feature the network's full programming lineup, including live and primetime coverage of Spain's La Liga, Germany's Bundesliga, the UEFA Europa League, and Brazil's Campeonato Paulista and Brasileirão, among others.

ESPN 3D LAUNCHES ON JUNE 11

ESPN 3D plans to broadcast sporting events filmed with 3D cameras on June 11. The new channel kicks off with the 2010 FIFA World Cup matches. In its first year, ESPN 3D plans to offer a minimum of 85 live events in 3D, including X Games 16, 2010 college football ACC Championship, 2011 BCS National Championship game, college basketball and NBA games. DirecTV HD customers who subscribe to ESPN will get the new channel at no extra cost.

LATIN AMERICA

BRAZIL

TV GLOBO EXPANDS HDTV TO RURAL BRAZIL

TV Globo has begun the transition of its customer base to the new digital TV standard, including remote populations within Brazil. It has signed with Technicolor to use its HD set-top boxes, bringing the TV Globo digital signal via C-band satellite to rural areas throughout the country. This deal positions Technicolor as the first digital HD set-top box provider certified by TV Globo for reception of their digital C-band signal.

ASIA & PACIFIC

RRSAT DISTRIBUTES INDIAN HD MOVIE CHANNEL

RRsat has signed an agreement with ISG Media to provide fiber connectivity, playout and distribution for the first high definition Indian movie channel, for distribution to the Israeli market. RRSat and ISG Media are working together to offer the channel to other multichannel platforms in Europe and North America.

CHINA

GEHUA CABLE SELECTS BIGBAND FOR INTERACTIVE HDTV

Beijing Gehua Cable TV Network has selected BigBand's broadband Edge QAM BEQ platform to deliver its new interactive HDTV and broadband internet service. Gehua Cable operates the broadcasting and cable TV network as well as reception and transmission of broadcasting and cable TV programs within the Beijing municipal area. The large-scale cable network covers all 18 districts and transmits more than 100 channels to 3.2 million people.

INDIA

DISCOVERY HD LAUNCHES IN INDIA

The Discovery HD channel launched in India as a 24-hour, English-language, ad-free premium satellite channel, Discovery Networks Asia-Pacific has confirmed. The channel is carried by Sun Direct and features highlights

DishPointer AR

See where to point your dish, live on the iPhone screen!

The revolutionary DishPointer Augmented Reality app is now available on the app store. Just point your iPhone anywhere towards the sky and see all the satellites lined up on the live video screen.

See the Video

See DishPointer AR in action on YouTube!

DishPointer is the world's No.1 satellite dish pointing site, offering custom built tools for mobile devices or websites to businesses. For more information, visit www.dishpointer.com.

This app uses the iPhones GPS, motion sensor and compass to calculate all the satellite positions and overlays them on the camera. At a glance you will see where to point the dish and any obstacles blocking the line of sight.



References



www.dishpointer.com
info@dishpointer.com

of Discovery Networks' most popular channels, as well as select exclusive content.

TATA SKY TO LAUNCH HDTV

Tata Sky has announced it will roll-out HD services and launch more interactive channels this year, ahead of the Commonwealth Games to be held in October 2010. It will also introduce interactive channels in the gaming and education space. Tata Sky, Dish TV and Airtel Digital TV have announced that they will be launching HD services by the time of the Commonwealth Games in October this year.

INDIA TO HAVE 3 MILLION HD HOUSEHOLDS BY END 2010

India is expected to have three million household using HD TV service by the end of this year, largely driven by major sporting events like Commonwealth Games and the World Cup to be held during the year, according to TRAI Secretary RK Arnold. Currently, Discovery HD is the only channel available on HD service in the country, but Doordarshan plans to launch a channel on the same platform for the Commonwealth Games. Sun Direct is the only DTH operator offering HD service.

JAPAN

UNIVERSAL HD LAUNCHES IN JAPAN

Universal Networks International has launched its first HD channel on SkyPerfect and KCAT platforms. UNI said the launch was part of its focus on the Asian market, and that it expects more HD growth in the region in the next 18 months.

MALAYSIA

ASTRO SELECTS PACE BOX FOR HD SERVICE

Pace is providing the set-top box technology to support the launch of Malaysia's first HD service from

Astro All Asia Networks. Astro currently broadcasts over 100 pay-TV channels across Malaysia and Brunei to over 2.8 million subscribers in multiple languages. With Pace's DS830NA set-top box, Astro was able to add five new HD channels that includes HBO HD, ESPN HD, Astro Supersports HD, History HD and National Geographic HD.

SAUDI ARABIA

HARRIS WINS CONTRACT FOR HD BROADCAST TECHNOLOGY

Harris Corporation has been awarded several additional contracts by the Saudi Arabia Ministry of Culture and Information (MOCI) for products from its HD portfolio. Recent wins include the provision of equipment for eight new HD studios, three new portable HD studios, two new digital satellite news gathering/outside broadcast (DSNG/OB) vans and three new HD OB vans.

UNITED ARAB EMIRATES

PREMIER LEAGUE TV IN HD FROM AUGUST

Premier League TV, the new official round-the-clock channel from the English Premier League (EPL), is to be broadcast in HD by the Abu Dhabi Media Company (ADMC). The service will form part of the company's Premier League package on its Al Riya-diya subscription channels when the new season kicks off in August. ADMC announced earlier this year that it had bought the TV rights to the league for three years, starting with the 2010-11 season.

E-VISION EXPANDS HD CHANNELS

E-Vision has announced plans to expand its offering of HD channels in 2010 and is also exploring the new 3D TV technology as part of a package of new services for customers. E-Vision plans to increase the number of its HD channels from the current nine to about 20 chan-

nels by the end of 2010. Meanwhile, Sony has Sony revealed that it is working closely with Al-Jazeera, Orbit Showtime and E-vision to bring 3D content to Middle Eastern homes this year.

VIETNAM

CANAL+ LAUNCHES HD CHANNEL IN VIETNAM

In partnership with Vietnam Television, Groupe Canal+ has launched the K+1 TV Channel in the capital of Vietnam. Along with the channel, K+ Store and the K+ Set top Box were also launched. All of the content, including sports, films and documentaries, will be in HD format. The channel also holds the rights to show UEFA Champions League, UEFA Europe League, the Spanish Liga (La Liga) and the French League (Ligue 1).

WORLD

276 MILLION HD HOUSEHOLDS BY 2014

There will be an estimated 276 million TV households worldwide receiving HD signals by 2014, representing around 21% of all TV households globally, according to a new report from Informa Telecoms & Media. A meagre 5.8% of TV households were watching HD programming by the end of 2009, but that is expected to increase to 7.8% by the end of this year. North America is found to be the dominant region for HDTV, accounting for around two-thirds of the global 2010 total, however this proportion is expected to fall to 37% by 2014 as other regions catch up. The UK is expected to lead the way in Europe, accounting for 14.1 million homes which actively receive HDTV programming. The Asia-Pacific region is the third-largest region (behind Europe) for HDTV consumption, thanks largely to early adoption in Japan.



INTELSAT 10-02 - Europe, Middle East, North India ◀ 359.2 East (000.8 West)

C-Band: INTELSAT 10-02 - Europe, Africa, South East Asia ◀ 359.2 East (000.8 West)

THOR 3, 5, 6 - Europe ◀ 359.2 East (000.8 West)

AMOS 2, 3 - Europe, Middle East ◀ 356.0 East (004.0 West)

ATLANTIC BIRD 3 - Europe ◀ 355.0 East (005.0 West)

C-Band: ATLANTIC BIRD 3 - Africa, Europe, Middle America ◀ 355.0 East (005.0 West)

NILESAT 101, 102, ATLANTIC BIRD 4A - Middle East ◀ 353.0 East (007.0 West)

TELECOM 2D - France ◀ 352.0 East (008.0 West)

ATLANTIC BIRD 2 - Europe, America, Middle East ◀ 352.0 East (008.0 West)

EXPRESS AM44 - Middle East ◀ 349.0 East (011.0 West)

C-Band: EXPRESS AM44 - Europe, North Africa, Middle East ◀ 349.0 East (011.0 West)

ATLANTIC BIRD 1 - Europe, America ◀ 347.5 East (012.5 West)

TELSTAR 12 - Europe, South Africa, America ◀ 345.0 East (015.0 West)

INTELSAT 901 - Europe, Middle East ◀ 342.0 East (018.0 West)

C-Band: INTELSAT 901 - Europe, Africa, Atlantic Ocean Region ◀ 342.0 East (018.0 West)

C-Band: NSS 5 - Africa ◀ 340.0 East (020.0 West)

NSS 7 - Europe, Middle East, Africa, America ◀ 338.0 East (022.0 West)

C-Band: NSS 7 - Europe, Africa, America ◀ 338.0 East (022.0 West)

INTELSAT 905 - Europe ◀ 335.5 East (024.5 West)

C-Band: INTELSAT 905 - Europe, Africa, America ◀ 335.5 East (024.5 West)

INTELSAT 907 - Europe ◀ 332.5 East (027.5 West)

C-Band: INTELSAT 907 - Europe, Africa, America ◀ 332.5 East (027.5 West)

HISPASAT 1C, 1D - Europe, America ◀ 330.0 East (030.0 West)

INTELSAT 903 - Europe ◀ 325.5 East (034.5 West)

C-Band: INTELSAT 903 - Europe ◀ 325.5 East (034.5 West)

TELSTAR 11N - Europe, Africa ◀ 322.5 East (037.5 West)

C-Band: NSS 10 - Europe, Africa, America ◀ 322.5 East (037.5 West)

NSS 806 - Europe ◀ 319.5 East (040.5 West)

C-Band: NSS 806 - America, Europe ◀ 319.5 East (040.5 West)

C-Band: INTELSAT 3R - Europe, North America ◀ 317.0 East (043.0 West)

INTELSAT 11 - Brazil ◀ 317.0 East (043.0 West)

C-Band: INTELSAT 11 - Brazil ◀ 315.0 East (043.0 West)

INTELSAT 14 - Europe, North Africa, South America ◀ 315.0 East (045.0 West)

C-Band: INTELSAT 14 - America ◀ 315.0 East (045.0 West)

INTELSAT 1R - America ◀ 315.0 East (050.0 West)

C-Band: INTELSAT 1R - America ◀ 315.0 East (045.0 West)

INTELSAT 707 - America ◀ 307.0 East (053.0 West)

C-Band: INTELSAT 707 - America, Africa ◀ 307.0 East (053.0 West)

C-Band: INTELSAT 805 - America ◀ 304.5 East (055.5 West)

INTELSAT 9 - Mexico, Brazil, Europe ◀ 302.0 East (058.0 West)

C-Band: INTELSAT 9 - America ◀ 302.0 East (058.0 West)

C-Band: INTELSAT 16 - America ◀ 302.0 East (058.0 West)

AMAZONAS 1 - Brazil, South America ◀ 299.0 East (061.0 West)

C-Band: AMAZONAS 1 - America ◀ 299.0 East (061.0 West)

ECHOSTAR 3, 12 - Conus ◀ 298.5 East (061.5 West)

TELSTAR 14 - Brazil, Mercosul ◀ 297.0 East (063.0 West)

STARONE C1 - Brazil ◀ 295.0 East (065.0 West)

C-Band: STARONE C1 - South America ◀ 295.0 East (065.0 West)

STARONE C2 - Brazil ◀ 290.0 East (070.0 West)

C-Band: STARONE C2 - South America ◀ 290.0 East (070.0 West)

NAHUEL 1 - America ◀ 288.0 East (072.0 West)

AMC 6 - North America ◀ 288.0 East (072.0 West)

C-Band: AMC 6 - North America ◀ 288.0 East (072.0 West)

DIRECTV 1R, NIMIQ 5 - Conus ◀ 287.5 East (072.5 West)

HORIZONS 2 - North America ◀ 286.0 East (074.0 West)

C-Band: BRASISAT B3 - Brazil ◀ 285.0 East (075.0 West)

ECHOSTAR 4, 8 - America, Mexico ◀ 283.0 East (077.0 West)

SIMON BOLIVAR - South America ◀ 282.0 East (078.0 West)

C-Band: SIMON BOLIVAR - South America ◀ 282.0 East (078.0 West)

AMC 5 - North America ◀ 281.0 East (079.0 West)

NIMIQ 4 - Canada ◀ 278.0 East (082.0 West)

AMC 9 - North America ◀ 277.0 East (083.0 West)

C-Band: BRASISAT B4 - Brazil ◀ 276.0 East (084.0 West)

AMC 16 - North America ◀ 275.0 East (085.0 West)

AMC 3 - North America ◀ 273.0 East (087.0 West)

C-Band: AMC 3 - North America ◀ 273.0 East (087.0 West)

GALAXY 28 - America ◀ 271.0 East (089.0 West)

C-Band: GALAXY 28 - America ◀ 271.0 East (089.0 West)

NIMIQ 1 - Canada ◀ 269.0 East (091.0 West)

GALAXY 17 - North America ◀ 269.0 East (091.0 West)

C-Band: GALAXY 17 - North America ◀ 269.0 East (091.0 West)

GALAXY 25 - North America ◀ 266.9 East (093.1 West)

GALAXY 3C - North America ◀ 265.0 East (095.0 West)

C-Band: GALAXY 3C - North America ◀ 265.0 East (095.0 West)

GALAXY 19 - North America ◀ 263.0 East (097.0 West)

C-Band: GALAXY 19 - North America ◀ 263.0 East (097.0 West)

GALAXY 16 - North America ◀ 261.0 East (099.0 West)

C-Band: GALAXY 16 - North America ◀ 261.0 East (099.0 West)

DIRECTV 11 - America ◀ 260.8 East (99.2 West)

AMC 4 - North And Central America ◀ 259.0 East (101.0 West)

C-Band: AMC 4 - North America ◀ 259.0 East (101.0 West)

C-Band: AMC 2 - North America ◀ 259.0 East (101.0 West)

DIRECTV 4S, 8 - America ◀ 259.0 East (101.0 West)

AMC 1 - North America ◀ 257.0 East (103.0 West)

C-Band: AMC 1 - North America ◀ 257.0 East (103.0 West)

AMC 15 - North America ◀ 255.0 East (105.0 West)

C-Band: AMC 18 - North America ◀ 255.0 East (105.0 West)

ANIK F1R - North America ◀ 252.7 East (107.3 West)

C-Band: ANIK F1R - North America ◀ 252.7 East (107.3 West)

C-Band: ANIK F1 - South America ◀ 252.7 East (107.3 West)

ECHOSTAR 10, 11 - America ◀ 250.0 East (110.0 West)

ANIK F2 - North America ◀ 248.9 East (111.1 West)

C-Band: ANIK F2 - North America ◀ 248.9 East (111.1 West)

SATMEX 6 - America ◀ 247.0 East (113.0 West)

C-Band: SATMEX 6 - America ◀ 247.0 East (113.0 West)

SATMEX 5 - America ◀ 243.2 East (116.8 West)

C-Band: SATMEX 5 - America ◀ 243.2 East (116.8 West)

ANIK F3 - Conus ◀ 241.0 East (119.0 West)

C-Band: ANIK F3 - America ◀ 241.0 East (119.0 West)

ECHOSTAR 7 - Conus ◀ 241.0 East (119.0 West)

DIRECTV 7S - Conus ◀ 241.0 East (119.0 West)

ECHOSTAR 9, GALAXY 23 - North America ◀ 239.0 East (121.0 West)

C-Band: ECHOSTAR 9, GALAXY 23 - North America ◀ 239.0 East (121.0 West)

GALAXY 18 - North America ◀ 237.0 East (123.0 West)

C-Band: GALAXY 18 - North America ◀ 237.0 East (123.0 West)

C-Band: GALAXY 14 - North America ◀ 235.0 East (125.0 West)

AMC 21 - North America ◀ 235.0 East (125.0 West)

GALAXY 13, HORIZONS 1 - North America ◀ 233.0 East (127.0 West)

C-Band: GALAXY 13, HORIZONS 1 - North America ◀ 233.0 East (127.0 West)

CIEL 2 - America ◀ 231.0 East (129.0 West)

GALAXY 27 - North America ◀ 231.0 East (129.0 West)

C-Band: AMC 11 - North America ◀ 229.0 East (131.0 West)

C-Band: GALAXY 15 - North America ◀ 227.0 East (133.0 West)

C-Band: AMC 10 - North America ◀ 225.0 East (135.0 West)

C-Band: AMC 7 - North America ◀ 223.0 East (137.0 West)

C-Band: AMC 8 - North America ◀ 221.0 East (139.0 West)

C-Band: NSS 9 - America ◀ 183.0 East (177.0 West)

Satellites of the World

002.0 East ▶ ASTRA 1C - Europe

002.8 East ▶ C-Band: Rascom 1 - Africa

004.0 East ▶ EUROBIRO 4A - Europe, Asia

004.8 East ▶ SIRIUS 2 - Europe, South Africa

007.0 East ▶ EUTELSAT W3A - Europe, Africa

009.0 East ▶ EUROBIRO 9A - Europe

010.0 East ▶ EUTELSAT W2A - Europe

010.0 East ▶ C-Band: EUTELSAT W2A - Global

013.0 East ▶ HOTBIRD 6,8,9 - Europe, Middle East

015.8 East ▶ EUTELSAT W2M - Europe, Madagascar

015.8 East ▶ EUROBIRO 16 - Europe, Madagascar

015.8 East ▶ EUTELSAT SESAT 1 - Europe

017.0 East ▶ C-Band: Amos 51 - Africa, Middle East

019.2 East ▶ ASTRA 1H,1K,1L,1M - Europe

021.6 East ▶ EUTELSAT W6 - Europe, Asia, West Africa

023.5 East ▶ ASTRA 1E,1G,3A - Europe

025.5 East ▶ EUROBIRO 2 - Europe, Asia

026.0 East ▶ BADR 4,6 - North Africa, Middle East

028.2 East ▶ EUROBIRO 1 - Europe

028.2 East ▶ ASTRA 2B - Europe, Nigeria

028.2 East ▶ ASTRA 2A,2D - Europe

030.5 East ▶ ARABSAT 2B - Middle East

030.5 East ▶ C-Band: ARABSAT 2B - Asia, Middle East

031.0 East ▶ TURKSAT 1C - Europe, Asia

031.5 East ▶ ASTRA 2C - Europe

033.0 East ▶ EUROBIRO 3 - Europe

033.0 East ▶ INTELSAT 802 - Africa

033.0 East ▶ C-Band: INTELSAT 802 - Europe

036.0 East ▶ EUTELSAT W7 - Europe, South Africa, Asia, Russia

036.0 East ▶ EUTELSAT W4 - Russia, Nigeria, Africa

038.0 East ▶ PAKSAT 1 - Pakistan, North India

038.0 East ▶ C-Band: PAKSAT 1 - Pakistan, India, Middle East, Africa

039.0 East ▶ HELLAS SAT 2 - Europe, Middle East, Asia

040.0 East ▶ EXPRESS AM1 - Europe, Russia

040.0 East ▶ C-Band: EXPRESS AM1 - Europe, Russia

042.0 East ▶ TURKSAT 2A - Europe, Russia

042.0 East ▶ TURKSAT 3A - Europe, Russia, North India

045.0 East ▶ INTELSAT 12 - India, South Africa, Middle East, Europe

049.0 East ▶ C-Band: YAMAL 202 - Global

050.8 East ▶ GALAXY 26 - Europe, Middle East, North India

053.0 East ▶ EXPRESS AM22 - Europe, Middle East, North India

053.0 East ▶ C-Band: INSAT 3E - India

056.0 East ▶ BONUM 1 - East Russia

057.0 East ▶ NSS 12 - Europe, Russia, Africa, India

060.0 East ▶ INTELSAT 904 - Europe

060.0 East ▶ C-Band: INTELSAT 904 - Europe, Africa, Global

062.0 East ▶ INTELSAT 902 - Europe, Middle East

062.0 East ▶ C-Band: INTELSAT 902 - Europe, China, Australia, South Africa, Global

064.2 East ▶ C-Band: INTELSAT 906 - Europe, Africa, South India, Global

066.0 East ▶ INTELSAT 702 - Europe, Russia

068.5 East ▶ INTELSAT 7 - South Africa

068.5 East ▶ C-Band: INTELSAT 7 - Europe, Asia, Africa

068.5 East ▶ INTELSAT 10 - Africa, Europe, Middle East

068.5 East ▶ C-Band: INTELSAT 10 - Global

070.5 East ▶ EUTELSAT W5 - Europe, Middle East, India

074.0 East ▶ EDUSAT, INSAT 4CR - India

074.0 East ▶ C-Band: INSAT 3C - India

075.0 East ▶ ABS-1 - Europe, Asia, Middle East

075.0 East ▶ C-Band: ABS-1 - Global

075.0 East ▶ EUTELSAT W75 - Middle East, North India, China

076.5 East ▶ APSTAR 2R - North East Asia

076.5 East ▶ C-Band: APSTAR 2R - Global

078.5 East ▶ C-Band: THAICOM 2 - Thailand, East Asia

078.5 East ▶ THAICOM 5 - Thailand

078.5 East ▶ C-Band: THAICOM 5 - India, China, Thailand, Global

080.0 East ▶ EXPRESS AM2 - Russia, Europe

080.0 East ▶ C-Band: EXPRESS MD1 - Russia, North India

083.0 East ▶ INSAT 4A - India

083.0 East ▶ C-Band: INSAT 4A - India, Middle East

083.0 East ▶ INSAT 3B - India

083.0 East ▶ C-Band: INSAT 2E - Asia, Middle East, Europe

085.2 East ▶ INTELSAT 15 - Middle East

087.5 East ▶ C-Band: CHINASTAR 1 - China, India, Middle East

088.0 East ▶ ST 1 - India, Malaysia

088.0 East ▶ C-Band: ST 1 - India, Thailand

090.0 East ▶ YAMAL 201 - Russia, North India

090.0 East ▶ C-Band: YAMAL 201 - Russia, North India

091.5 East ▶ MEASAT 3 - Malaysia, South Asia

091.5 East ▶ C-Band: MEASAT 3 - Global, Thailand, Australia, East Asia

091.5 East ▶ C-Band: MEASAT 3A - Global

092.2 East ▶ CHINASTAR 9 - China

093.5 East ▶ INSAT 3A,4B - India

093.5 East ▶ C-Band: INSAT 3A,4B - India, Middle East

095.0 East ▶ NSS 6 - India, Middle East, South Africa, North/South East Asia, Australia

096.5 East ▶ C-Band: EXPRESS AM 33 - Asia, Russia, China

100.5 East ▶ ASIATASAT 5 - East Asia, India, Middle East, Thailand

100.5 East ▶ C-Band: ASIATASAT 5 - Global

103.0 East ▶ C-Band: EXPRESS A2 - Russia, China

105.5 East ▶ ASIATASAT 3S - East Asia, South Asia, Australia

105.5 East ▶ C-Band: ASIATASAT 3S - Global

109.0 East ▶ NSS 11 - South Asia, North East Asia, China

108.0 East ▶ C-Band: TELKOM 1 - Indonesia

110.0 East ▶ BSAT 1A,2A,3A, N-SAT 110 - Japan

110.5 East ▶ C-Band: SINOSAT 1 - China, Asia Pacific

113.0 East ▶ KOREASAT 5 - South Korea, North East Asia

113.0 East ▶ C-Band: PALAPA D - Asia, Australia

115.5 East ▶ C-Band: CHINASTAR 6B - Global

116.0 East ▶ KOREASAT 3 - South Korea

118.0 East ▶ C-Band: TELKOM 2 - India, Thailand, Malaysia

122.0 East ▶ ASIATASAT 4 - East Asia, Australia

122.0 East ▶ C-Band: ASIATASAT 4 - Global

124.0 East ▶ JCSAT 4A - Japan

125.0 East ▶ C-Band: SINOSAT 3 - China

128.0 East ▶ JCSAT 3A - Japan

128.0 East ▶ C-Band: JCSAT 3A - Asia

132.0 East ▶ VINASAT 1 - Vietnam

132.0 East ▶ C-Band: VINASAT 1 - Asia, Australia

132.0 East ▶ JCSAT 5A - Japan

134.0 East ▶ APSTAR 6 - China

134.0 East ▶ C-Band: APSTAR 6 - Asia, Australia

138.0 East ▶ TELSTAR 18 - India, China

138.0 East ▶ C-Band: TELSTAR 18 - Asia, Australia

140.0 East ▶ EXPRESS AM3 - Russia, China

140.0 East ▶ C-Band: EXPRESS AM3 - Russia, China

144.0 East ▶ SUPERBIRD C2 - Japan

146.0 East ▶ AGILA 2 - Myanmar

146.0 East ▶ C-Band: AGILA 2 - India, China

150.0 East ▶ JCSAT 1B - Asia

152.0 East ▶ OPTUS D2 - Australia, New Zealand

154.0 East ▶ JCSAT 2A - Japan

154.0 East ▶ C-Band: JCSAT 2A - Asia, Oceania, Hawaii

156.0 East ▶ OPTUS C1,D3 - Australia, New Zealand

160.0 East ▶ OPTUS D1 - Australia, New Zealand

162.0 East ▶ SUPERBIRD B2 - Japan

166.0 East ▶ INTELSAT 8 - Australia, New Zealand, North East Asia

166.0 East ▶ C-Band: INTELSAT 8 - Pacific

169.0 East ▶ C-Band: INTELSAT 2,5 - Pacific

172.0 East ▶ GE 23 - South Pacific, South East Pacific

172.0 East ▶ C-Band: GE 23 - Pacific

180.0 East ▶ INTELSAT 701 - Australia, Pacific

180.0 East ▶ C-Band: INTELSAT 701 - Pacific



New Satellites

to be launched soon



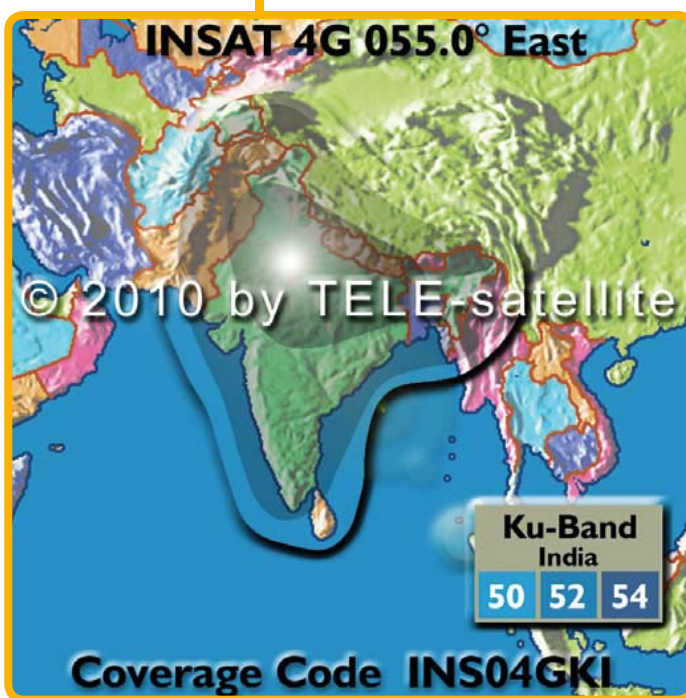
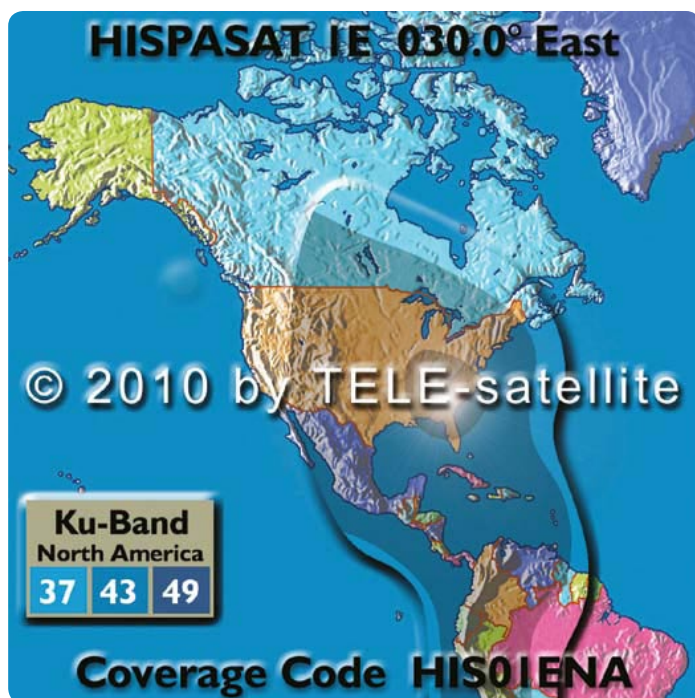
Edited by
Aleksandar Medic

HISPASAT 1E

This satellite will have 53 Ku-band transponders that will cover Europe, Americas and parts of North Africa. It will provide optimal coverage of the Iberian Peninsula as well as the Balearic and Canary Islands. It is based on Space Systems/Loral's LS-1300 satellite platform and will have a launch mass of almost 5.3 tons and a payload power of almost 14 kW at the end of its 15 years lifetime. HISPASAT 1E will be carried aboard an Ariane 5 rocket and it will be located at 30° East, further expanding HISPASAT's offer on this orbital position.

INSAT 4G

This Indian Space Research Organisation satellite, also known as GSAT-8 will be launched into orbit on an Ariane 5 launcher from the Kourou Space Centre in French Guyana and it will use ISRO's own I-3K bus. It is a Ku-band satellite carrying 18 transponders which will mainly be used for domestic direct-to-home TV transmissions. INSAT 4G will also carry a GPS Aided Geo Augmented Navigation (GAGAN) payload that will enable more accurate navigation in South Asia, Middle East and most of Africa and Europe. INSAT 4G will be positioned at 55° East, it will have a mission life of 12 years and a lift-off mass of 3150 kg. Its payload power will be 5.3 kW.



Missed TELE-satellite?



**TELE-satellite
is available in
22 language
versions**

**Read Previous
Issues**

ONLINE

Arabic

www.TELE-satellite.com/ara/

العربية

Indonesian

www.TELE-satellite.com/bid/

Bahasa Indonesia

Bulgarian

www.TELE-satellite.com/bul/

Български

Czech

www.TELE-satellite.com/ces/

Česky

German

www.TELE-satellite.com/deu/

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www.TELE-satellite.com/esp/

Español

Farsi

www.TELE-satellite.com/far/

فارسی

French

www.TELE-satellite.com/fra/

Français

Hebrew

www.TELE-satellite.com/heb/

עברית

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Ελληνικά

Croatian

www.TELE-satellite.com/hrv/

Hrvatski

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www.TELE-satellite.com/ned/

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www.TELE-satellite.com/pol/

Polski

Portuguese

www.TELE-satellite.com/por/

Português

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www.TELE-satellite.com/rom/

Românesc

Russian

www.TELE-satellite.com/rus/

Русский

Swedish

www.TELE-satellite.com/sve/

Svenska

Turkish

www.TELE-satellite.com/tur/

Türkçe



Edited by
Alexander Wiese

ECHOSTAR AD-3000IP VIACCESS

TELE-satellite has previously tested Echostar's AD-3000IP with the first version of its software. There were then a number of bugs, most of which have now disappeared with the introduction of version 300. This receiver has since acquired a strong hold on the marketplace. Whenever large motorised dishes with C and Ku feeds are involved, the AD-3000IP is a receiver that potential buyers will always want to have a closer look at. It incorporates two CI slots and this allows easy upgrade from strictly FTA only reception to pay-TV in all the current modes.

One of the most widely used encryption systems is VIACCESS and so it is a good idea that this system should be embedded in the receiver's operating system in order to save the cost of an additional CI module. The result of this innovative idea is the AD-3000IP VIACCESS.

The front panel has been revised in this model. Hidden behind a cover on the right side of the panel are the two CI slots and the one VIACCESS card slot.

All the buttons needed to operate the receiver are now located directly on the front panel. In this way full control of the receiver directly on the box itself is achieved.

The green four-digit numerical display indicates any one of the 5000 (4000 TV, 1000 radio) digital programs which can be stored in the memory. In addition, data for receiving 700 analog channels can also be stored. This vast number of channels can be shared among a maximum number of 50 satellites carrying a total of 999 transponders. Even the most fanatical DX hunter and collector should be able to store all the signals he will ever want to store on this box.

The back panel of the receiver is organised in the traditional and respected Echostar fashion. Three scart euroconnectors are provided to hook up external units. There are also analog audio and video outputs via three RCA sockets.

Of three F-sockets two receive the IF analog and/or digital signals from the antenna, the third socket is a IF signal output so that the analog signals can also be looped through with the help of the included coax-jumper.

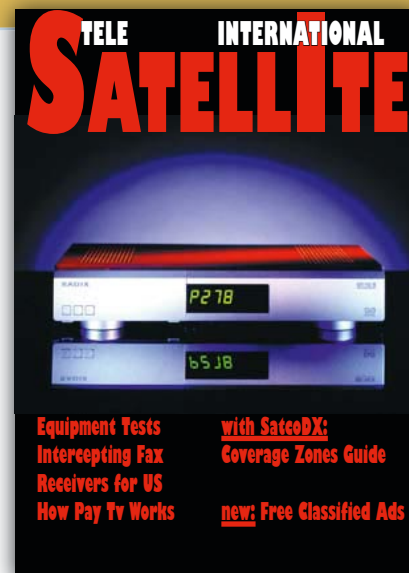
10 Years Ago

Travel into the Past TELE-satellite Magazine Issue 09-10/2000

An additional C-band LNC may be activated by the programmable 0/12 V control switch output (RCA). There is one more RCA socket which is good news for all audio freaks: it affords a digital audio output (S/PDIF)! The serial interface can handle data rates between 9600 and 115200 baud. You can link a reed-switch or hall-switch controlled motor to the motor control socket. However, in order to be able to use the auto-focus mode of an EGIS rotor (or similar products with such a feature) an AGC output is needed. Unfortunately the newly revised model does not offer such an output. In addition to a servo polarizer, a magnetic polarizer can be used in combination with this receiver. Buyers who do not (yet) own the more complex antenna system will not be able to use the full range of facilities but will be happy with the standard 14/18 V polarisation switch which makes the unit fit for a wide variety of applications. The terrestrial antenna signal is looped through an UHF modulator.

Tri Control Database

Yes, this is the name of the remote control of the Echostar AD-3000IP VIACCESS. And indeed, it cannot be compared with any other remote control. This remote not only controls the satellite receiver, but also virtually any TV and VCR. So if you've still got some older Echostar models at home you can just as well put away their remotes and use the new Tri Control to take care of everything. The software menu of this receiver has something of the appearance of Bill Gates' Windows, but fortunately without the error messages! We were quite unable to provoke any



software crashes during heavy-duty use and even though our test crew tried very hard. For the initial set-up and installation the user's manual is not really necessary since the individual menus, in combination with the online help, make this task quite easy. The factory settings include all major satellites between 66° west and 180° east. Eight different LNC configurations are available to be able to adapt the receiver to all possible applications. A motorised dish with standard LNCs for the C and Ku bands will only require two LNC settings. If, however, DiSEqC is activated in order to include additional LNCs (for example an additional fixed antenna with multi-feed) these many types of LNC configuration are very useful. The AD-3000IP VIACCESS can be integrated into an SMATV system.

There is no need to be worried about searching for satellites between the two limit values. Once the receiver establishes in its memory the easternmost and the westernmost satellites available at the site, it handles all the rest in between independently using the AUTO-SAT mode. The memorising of individual satellites is no problem either. All the receiver needs to know whether it is meant to search for FTA, transponder, network or whether it should use the auto-search mode. The exact adjustment of the polarisation angle can be achieved using skew control. Two signal meters showing the relative signal strength and signal quality help in adjusting the signal level, but also come in handy when fine tuning the antenna position. The automatic search mode of the AD-3000IP is very fast and leaves many competitors behind. The complete Hotbird position was scanned in

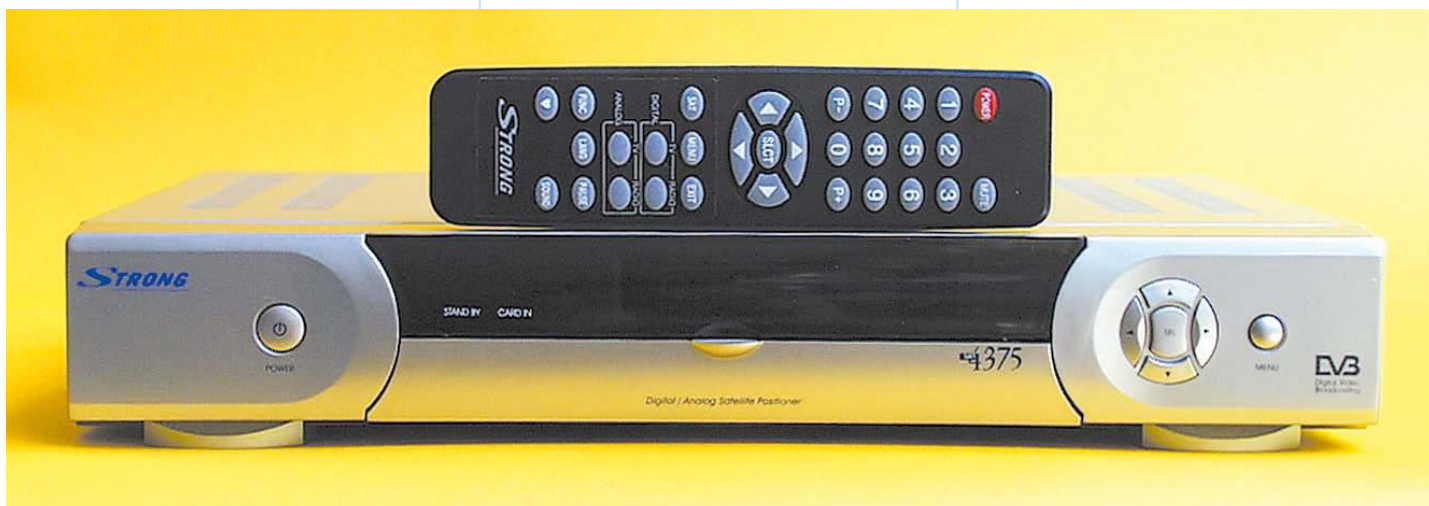




five minutes and the Thor/Intelsat 707 shared position was dealt with in only four minutes. In the analog reception mode, if you don't want to key in every channel manually this receiver features an automatic signal scan which quickly searches at both polarisation angles in steps of 250 kHz and stores all detected channels automatically. With a theoretical memory capacity of 700 analog and 4000 digital channels a favourites list is essential. The AD-3000IP VIACCESS allows you to combine analog and digital favourites in one list, no matter which satellite they come from. It can be NTV+ or a feed signal on Intelsat K; a simple touch of a button in the FAV menu is all it takes to access the selected signal right away.

required generous capacity and can store up to 3000 digital and 500 analog channels. Emergency operation of the SRT 4375 receiver without the remote control is possible using the buttons on the front panel. The four F-connectors on the back panel may look a bit confusing at first sight, but once the short coax cable which connects the analog and the digital tuners is installed there are only two IF inputs left. One is used to connect a motorised antenna system while the other is left for a stationary dish. Four RCA sockets deliver analog stereo audio, video and programmable 0/12 V outputs. Three scart euroconnectors link the receiver with external units.

If a motor with hall-switch or reed-switch positioner control is connected to the receiver then it is necessary to set the two azimuth limit points first. Identification of all satellites between these two limits is done almost automatically. Up to 64 satellites can be processed, a surprisingly high number. It is also possible to install stationary antennas with multi-feed. The receiver features DiSEqC 1.0. In the search mode it can distinguish between FTA, pay TV or All. The search on a 90 transponder system takes about eight minutes, which is quite quick. The pre-stored data for both the analog and the digital signals is quite up-to-date. Both modes support editing.



STRONG SAT 4375

STRONG is another manufacturer that has joined the select circle of high-end receiver manufacturing companies with its new SRT 4375 receiver. In order to be accepted into this sophisticated club the receiver has to be capable of processing both analog and digital signals, feature a built-in positioner and be capable of controlling a servo-polarizer. And needless to say the memory capacity for storing satellite positions and channels has to be very adequate. The marketing department of STRONG has announced the 4375 to be exactly this miracle machine. The TELE-satellite test crew wanted to find out for themselves. The silver-colored chassis looks classy and creates the image right away that this receiver is not exactly cheap. The receiver incorporates two CI interfaces hidden behind a cover on the front panel. If equipped with the necessary modules and cards they allow pay-TV reception. The selected channel number is displayed on a four-digit display. The memory has the

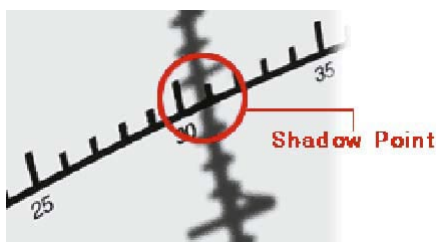
The terrestrial signal is looped through and the modulator uses the complete UHF range. The RS-232 serial interface is more important on this receiver because according to a statement issued by STRONG the receiver will also be SatcoDX compatible. Six quick-jam terminal blocks anchor the cables of the motor control and the mechanical polarizer. Firstly, it's necessary to select the appropriate language for the on-screen menu. The 4375 turns out to be very cosmopolitan in this respect: English, Spanish, French, German, Arabic, Russian and Dutch are available. For both audio channels there is Turkish and Portuguese as well. And if the menu background color is not entirely to your liking there are 16 different shades to choose from. The next step adjusts the receiver to the type of LNC used. Three different settings for universal LNCs and one customisable setting are available. This looks somewhat inadequate, because if you want to have an LOF of 10.0 GHz for the Ku-band and 5.15 GHz for the C-band you will discover it's not possible to select both frequencies at the same time.

Switching between channels causes moderate and by no means unacceptable delay. The switch from analog to digital and vice versa is also very swift. When changing channels, basic information regarding the channel (signal strength, technical transmission data, time and date, satellite and channel ID) is inserted for a few seconds. The very well designed EPG (Electronic Program Guide) delivers additional information on current and upcoming broadcasts. The EPG also works in digital radio mode. Favourite channels can be stored in a separate list and can be accessed with the touch of a button, independent of the satellite. The analog receiver features a fairly efficient threshold extension, which reduces the input threshold to approximately 3.0 dB. We tested the unit with a motorised dish and a 24 inch actuator that was powered effortlessly. For an EGIS rotor the AGC connection for the auto-focus is missing. The STRONG SRT 4375 turns out to be an easy-to-install and operate satellite receiver for analog and digital signals.



Solarsat Antenna

The Solarsat antenna has already been introduced in the previous issue of TELE-satellite. Since then, it has undergone intensive long-term testing in order to establish its practicability for everyday use. This antenna is designed to make it possible to align it exactly with a selected satellite in a very short time and without using measuring equipment. The only aid needed is a completely natural one, namely the sun. Crossbars are fixed between the feed and the upper edge of the reflector. A linear scale is printed horizontally on the dish itself. Depending on the site location, direction and elevation of the dish and the time of the day, the crossbars cast a shadow as a crossing point onto the horizontal measurement scale. In this way the two measurement points are created on the x and the y-axis, one for the azimuth and the other for the elevation. Normally, in order to obtain usable data from such a set-up, it would be necessary to perform a complex astronomic calculation. First of all, the position of the sun based on the time of day and the geographic position of site of the antenna has to be calculated. Spherical trigonometry is then used to determine the exact angle between the sun and the selected satellite. Then the exact corresponding horizontal and vertical position of the measurement point (i.e., the shadow point on the dish) is calculated. Since a manual calculation of the necessary data would take hours, not to mention an advanced course in astronomy, the manufacturer of the Solarsat antenna has developed the SOS software (Shadow Operating System), which does the same work in a split second on any PC. Keying in the relevant data does not require expert knowledge: the exact site location is chosen from a global database and the date and time are something most people know anyway. The PC delivers the exact parameters for the x and y axes. They determine where the shadow point should fall when adjusting the azimuth and the elevation. It may sound a bit complex in theory, but if you really get down to it the whole process takes only a few minutes, even if you're an amateur.



When mounted the Solarsat antenna is much the same as other makes of antenna. Having connected the antenna to a digital satellite receiver card installed in a PC, the practical test used was to try to align the antenna exactly with satellites with Internet access. The only measuring equipment available was the signal strength indicator of the Internet-via-satellite software on the PC monitor. However, since the PC was inside the house no feedback from it to guide the setting up was available, i.e. the antenna was aligned using nothing more than the position of the shadow point. In the actual test, all the satellites (5) were found right away without the need to fine-tune the dish alignment. Satellites with the typical 3° separation were clearly distinguishable from one another. As far as this claim of the manufacturer is concerned: it's clearly a 'pass'. The sun can be a different problem! During the day it is always there but not always clearly visible. In the test country (the Netherlands) it frequently hides behind a layer of clouds. If this layer gets too dense, there is no shadow to use. This is where the limitations of this "sun-stick antenna" method

of setting up are reached. And of course it is also not possible to align the antenna after sunset. To optimise the ease of setting up and improve the accuracy of the method, SOS software suggests a time frame on selected days, within which it is recommended to carry out antenna alignment and which depend upon the relative positions of the sun and the chosen satellite. Once the antenna is correctly adjusted, it usually stays that way, and the cross bar can be removed. In our test, however, we assumed that this aid would be needed permanently because a DXer, for example, might want to align his or her dish to a different satellite every once in a while. So the cross bar was left on the dish and exposed to all kinds of good and not so good weather during that time. Even in a country like the Netherlands there were a few days with temperatures exceeding 30°C, but the heat had no adverse effect on the structure of the cross bar. It even survived a few storms unharmed. The elevation setting allows selecting parameters between 15° and 65°. This makes the



SOS(Shadow Operating Soft

HELP ABOUT EXIT

1 Select your location

Great Britain London

• Latitude 51.3 N

• Longitude 0.7 E

2 Select satellite

Hot bird 1,2,3,4,5 0130E

• Azimuth 163.1

• Elevation 030.12

3 Present Time & Date

☒ Use the system date and time.

• Date: [Y-M-D] 2000 05 15

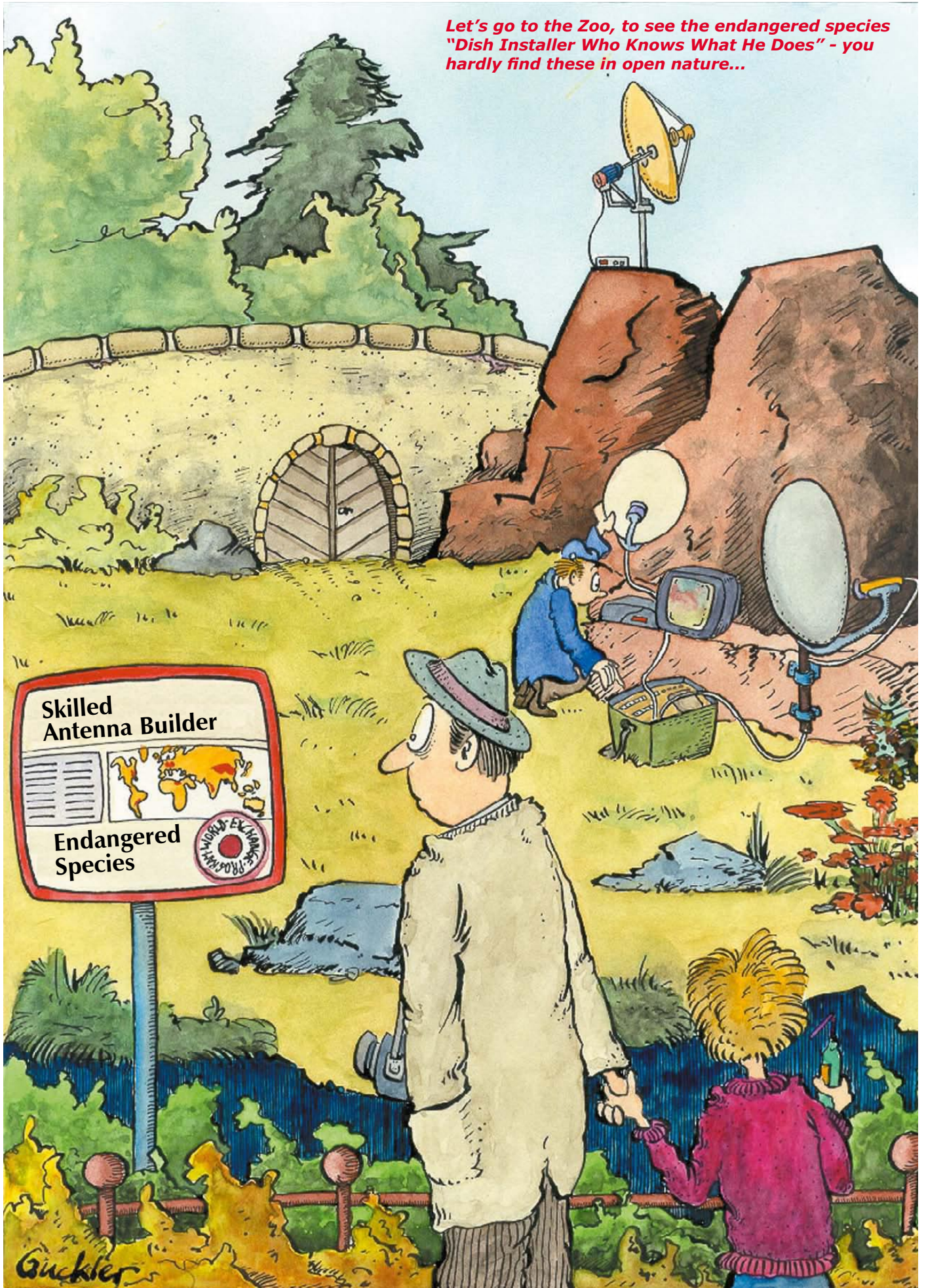
• Time: [H-M-S] 14 15 35

DATA Input

In this area of Data Input, the designation is made about where and when the dish is placed. SOS automatically calculates the input data in less than one second to find the SHADOW POINT.

Solarsat antenna ideal for almost global use, with the exception of areas close to the equator. Professional installers will not be too happy with the new antenna, since it really can be set up by any lay person without difficulty. The cost-saving factor is considerable, especially when taking into account that the simple installation of all the outside gear is often more expensive than the analogue receiver in the living room, or costs up to 70% of the price for a new digital receiver. This antenna can be particularly recommended for the reception of Internet services or digital TV on satellites that don't carry analogue signals any longer and thus do not offer a visible reference signal.

Let's go to the Zoo, to see the endangered species "Dish Installer Who Knows What He Does" - you hardly find these in open nature...



TELE-satellite World



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Manufacturers, distributors, wholesalers, dealers, traders and private enthusiasts of digital TV

Exhibition Preview

- **4 - 6 May 2010: ANGACable 2010**
Trade Fair for Cable, Broadband and Satellite
Koeln Messe, Cologne, Germany
www.angacable.com

ANGACable

- **15 - 18 June 2010: CommunicAsia 2010**
The 21st International Communications and Information
Technology Exhibition & Conference
Singapore Expo, Singapore
www.communicasia.com



- **22 - 24 June 2010: SatCom 2010 Russia & CIS**
Investment and development for operators, developers,
government and investors
Kiev, Ukraine
www.terrapinn.com/2010/satcomrus/



- **25 - 27 August 2010: China Satellite 2010**
China Satellite Intelligence and Market
Hotel Nikko New Century, Beijing, China
www.china-satellite.org



- **9 - 14 September 2010: IBC2010**
Premier annual event for professionals engaged in the
creation, management and delivery of entertainment and
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RAI Exhibition Center, Amsterdam, The Netherlands
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- **6 - 10 October 2010: eurasia**
14th International Trade Fair and Conference for Satellite
Communication, Broadcasting and TV Content
Tüyap Fuar ve Kongre Merkezi, Istanbul, Turkey
www.cebit-bcs.com
- **20 - 22 October 2010: EEBC**
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Exhibition centre "KyivExpoPlaza", Kiev, Ukraine
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#219	10-11/2010	6 August 2010	17 September 2010	1 October 2010
#220	12-01/2011	8 October 2010	19 November 2010	3 December 2010
#221	02-03/2011	3 December 2010	14 January 2011	28 January 2011
#222	04-05/2011	4 February 2011	18 March 2011	1 April 2011

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