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GLOBAL DIGITAL TV MAGAZINE

04-05/2011



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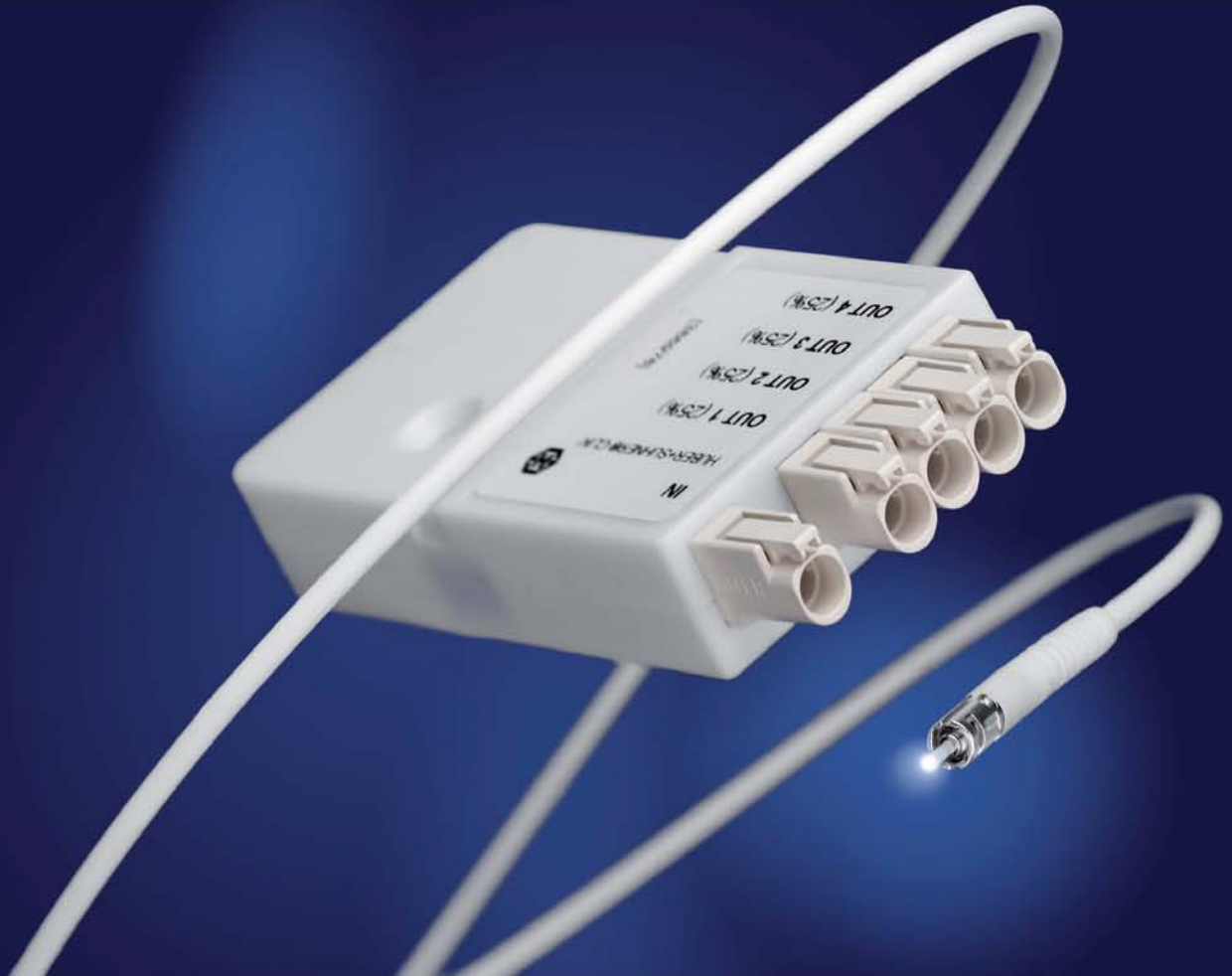


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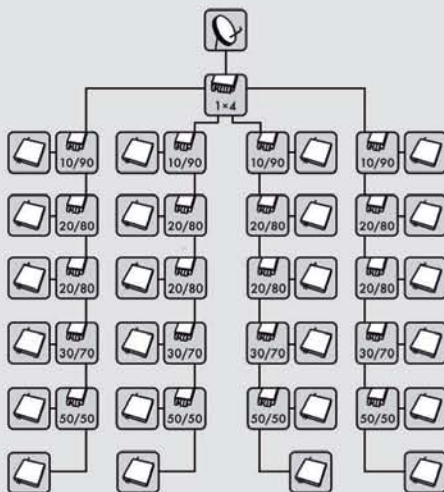
AMIKO SHD-8900 ALIEN

World Innovation: Linux Receiver with Dual Boot

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ANGA 2011 in Cologne
3 - 5 May



TELE-satellite
Global Digital TV Magazine
Published worldwide since 1981 in
all major languages

Alexander Wiese
Publisher

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

Dear Readers,

Just when you thought it couldn't get any better, another new and innovative product appears: in this issue of TELE-satellite we present more than one receiver that come with two different operating systems. The user can start up the receiver on one day using one of the operating systems and switch to the other the next day. It's a surprisingly logical idea. "Why didn't I think of that?" some might say, but the truth is no one ever thought to include it in any of their receivers. My guess is that this Dual Boot feature will soon find its way in many receivers simply because of all of its advantages.

As our tests have shown, these operating systems behave differently and depended on what the software programmers paid attention to. With one operating system you have a perfect cooperation with the receiver's hardware so that, for example, you can very quickly find a large number of channels. With another operating system the primary focus is to provide an easy-to-use very powerful PVR function. Without the ability to select an operating system when turning the receiver on, the end-user has to decide ahead of time what features are the most important for him and choose a correspondingly optimized receiver.

Now it can just be one receiver and depending on what the user wants to do at that moment, he just needs to select the matching operating system when turning on the receiver. This concept also highlights the fact that the operation of a receiver has become so complex that it really isn't possible anymore to integrate every possible feature in a receiver with one operating system that at the same time makes everyone happy. It's much easier and far more comfortable for the end-user to be able to choose an operating system when turning on the receiver.

Then there's another question that comes up with this Dual Boot solution: what about apps? Those are the small programs (applications) that a user can download to optimize a receiver's operating system with additional features that are important to

the user. Can you use these apps to make the available operating system DX compatible or to optimize the PVR functions? To some extent I believe the answer is 'yes' but not completely. An operating system that is written around specific features, such as for satellite DXers or PVR fans, can also extract that extra bit of optimization.

But until we get to that point, we'll still have to wait. For now all receiver operating systems are general in nature and are not geared towards any specific areas (such as DX or PVR). Until that time, specialized apps will fill up any gaps. So we have to deal with two different and yet similar ideas: apps to help beef up a receiver's capabilities and Dual Boot to instantly convert a receiver into a specialized receiver.

Alexander Wiese
Editor-in-Chief TELE-satellite

On a personal note: While I was at the CES in Las Vegas, USA, with our own booth, I began to experience extreme pain on my right side. It got to a point where I couldn't take it anymore so I decide to go to a local hospital in Las Vegas. The diagnosis? A nasty tumor in the right kidney. The doctor gave me a choice: "Either we operate here right away or you go straight home." I decided on the second option and after landing back home I went straight to a hospital. Apparently it was just in time; I was operated on the next day. Now I'm living with just one kidney but without any other tumors. The moral of the story and my advice to all TELE-satellite readers? Your health may not be the only thing on your mind as long as you're healthy but if you're unhealthy, everything else becomes unimportant!



TELE
satellite

Address TELE-satellite Magazine, PO Box 1234, 85766 Munich-Ufg, GERMANY/EUROPE
Editor-in-Chief Alexander Wiese, alex@TELE-satellite.com

Published by TELE-satellite Medien GmbH, Aschheimer Weg 19, 85774 Unterfoehring, GERMANY/EUROPE **Design** Németi Barna Attila

Advertising www.TELE-satellite.com/ads/

Printer Litografia Rosés, 08850 Gavà, SPAIN/EUROPE

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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.

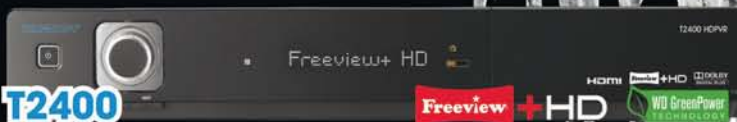
www.TELE-satellite.com

Redaktion TELE-satellite, Postfach 1234, D-85766 München-Ufg **Chefredakteur** Alexander Wiese (verantwortlich) Anschrift wie Verlag, **Verlag** TELE-satellite Medien GmbH, Aschheimer Weg 19, D-85774 Unterfoehring, Inhaber: Alexander Wiese, Verleger, Unterfoehring

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- Spark online user manual
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- Spark personalized setting
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- Popular internet applications:
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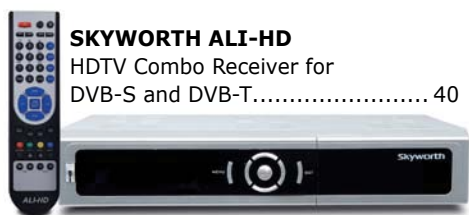
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- PVR, Timeshift



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- 4000 channels TV and Radio programmable
- Support multi-language OSD
- PVR Timeshift.



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- Plug-in two S2 tuner
- Fully support to 7 days Electronic program Guide
- 1 x CI, CA optional with Conax Embedded
- PVR, Timeshift,



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- Software upgrade by USB, OTA, RS232 and LAN
- PVR, Timeshift



S1M DVB-S Sticker CA+PVR

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- 4000 channels TV and Radio programmable
- On Screen Display with multi-language
- PVR, Timeshift, CA optional with Conax embedded



S1N DVB-S SD FTA+PVR

- MPEG-2 digital & fully DVB-S compliant
- 4000 channels TV and Radio programmable
- Fully support to 7 days Electronic Program Guide (EPG)
- Disecq 1.0, 1.1, 1.2 and USALS, Unicable
- PVR, Timeshift, CA optional with Conax Embedded

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HDTV - DVB-S Receiver

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

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



*** FULL HD ***



HDTV - DVB-S Receiver

- USB 2.0 host for playback of external hard drive or USB flash drive
- 1 x Common interface slot
- PVRready. Direct recording via USB on external storage media possible
- HDTV & SDTV
- 1 x smart card reader
- Video-resolution 1080p, 1080i, 720p, 576p
- optical signal to the align the antenna
- HDMI out with HDCP

Balcony mounting parts



ALSO AVAILABLE:

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- Supports DiSEqC 1.0, 1.1, 1.2 and USALS.
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- Supports time-shift up to 5 hours at maximum.
- Records two services at the same time while displaying another service.
- Can record directly to an external hard drive (through USB/eSATA ports).
- Plays back recorded programmes at up to 64 times speed at maximum.
- Plays back video files in DivX, MPG, MP4, VOB, MKV and FLV format.
- Displays image files in JPEG format
- Provides a network game named Battle Tank.
- Provides various ways for firmware update (OTA, USB, LAN).
- Makes it easier to transfer files from/to the receiver by means of an embedded web/FTP server.

HDTV Receiver Selection

TOPFIELD

SBP-2001 CI+



HDTV DVB-S Receiver

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

TOPFIELD

CBP-2001 CI+



HDTV DVB-C Receiver

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

STRONG
DIGITAL TV

SRT 6205 - PVR Ready



USB recording capability

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

SRT 7100



HDTV Receiver, USB PVR Ready

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- Unicable ready

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370 RXO

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All available as:

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- Twin Universal
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Full LNB range INVERTO available from stock

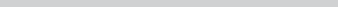
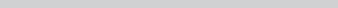
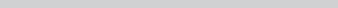
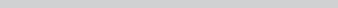
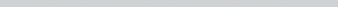
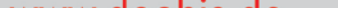
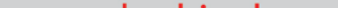
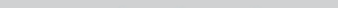
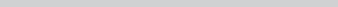
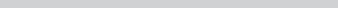
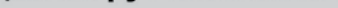
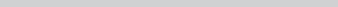
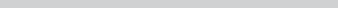
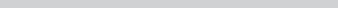
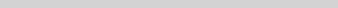
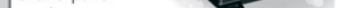
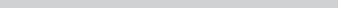
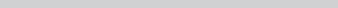
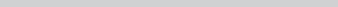
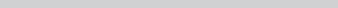
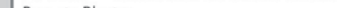
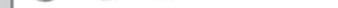
Parts

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



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

Multiswitches/ DiSEqC-Switches

SPAUN



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

Full range

Flat-Dishes

SELF SAT

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

SELF SAT Flat-Dishes available as:

H30D / H30D2 / H30D4

STRONG

Slimsat SA 61

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

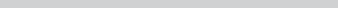
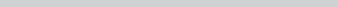
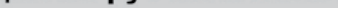
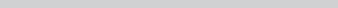
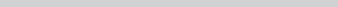
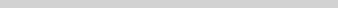


Unicable solution

Inverto digital-labs

IDLP-USS200-CUO10-8PP

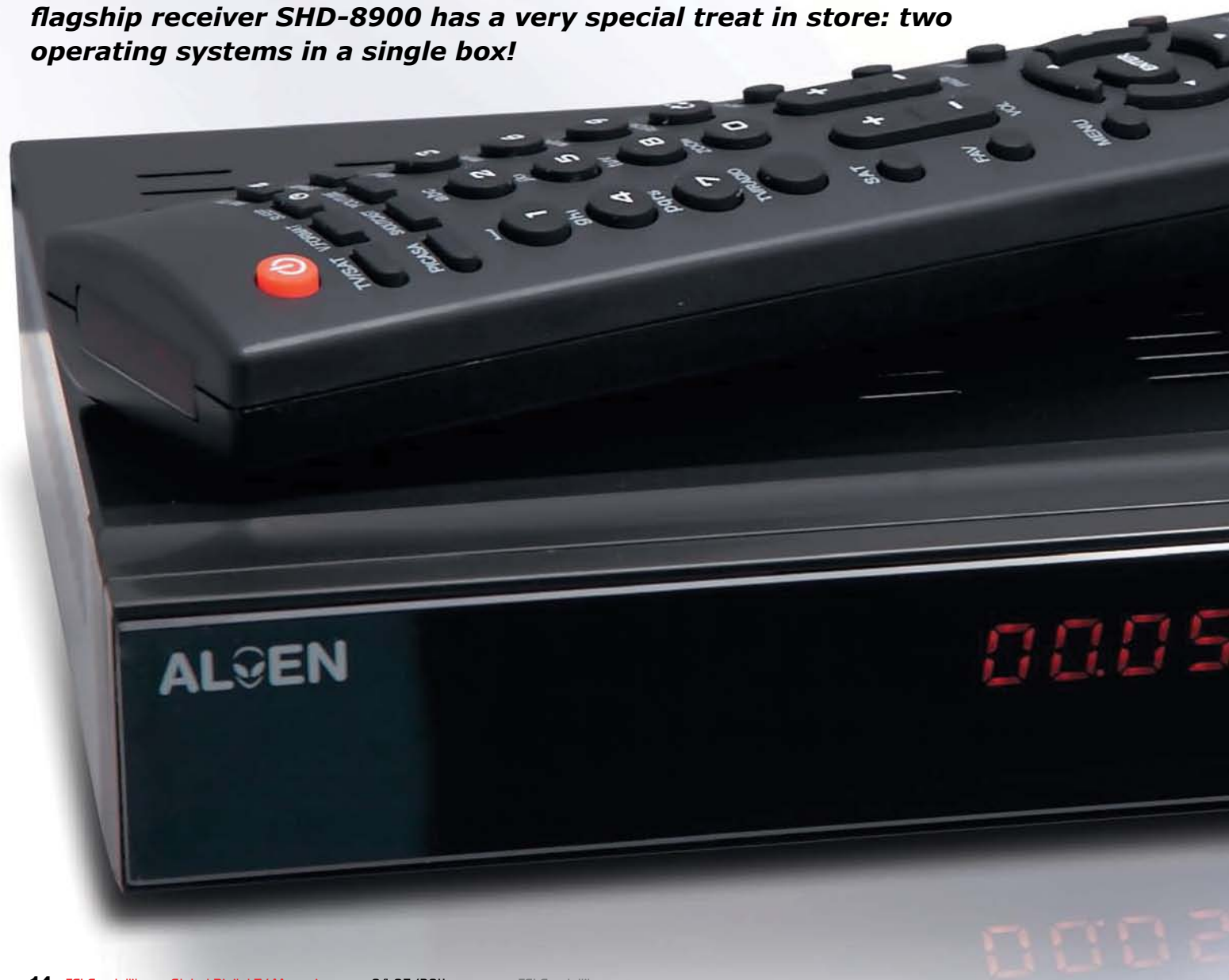
This cascable Unicable switch is the smallest form factor Unicable switch enabling the reception of 2 satellites and installations with up to 8 satellite receivers over a single cable. In addition to its eight User Bands Unicable output, the multiswitch also features two legacy outputs, a terrestrial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



Amiko SHD-8900 Alien

Linux receiver with dual boot, more than one simultaneous recording and lots more...

• *Linux receivers are the way to go these days, and if you look at all the features and options they offer it's not hard to see why. This development pleases us no end at TELE-satellite, as we see huge potential with Linux that is only waiting to be exploited by innovative companies. Karmacom from Hungary is one such company and with its own brand Amiko they are well on the way to waking up the sleeping giant that is Linux. The company's latest flagship receiver SHD-8900 has a very special treat in store: two operating systems in a single box!*



But let's not get carried away with Linux at this stage and look at the receiver itself first. Right out of the package we notice how small the box actually is. Measuring merely 22x16x4 cm it will find its place in even the smallest (or most crowded, for that matter), lounge room cabinet or TV rack.

And it creates a rather stylish impression with its buttonless front and the 4-digit segment display that light up in a fiery hue of red. Two LEDs indicate the current operating mode.

Of course, there's more than first meets the eye,

and a small flap hides a total of seven buttons to control the receiver whenever the remote control is out of reach, as well as a Conax card reader. While our test receiver had cutouts in place for CI slots it only came with the built-in card reader.

The back panel of the SHD-8900 comes equipped with all connection options you're likely to ever require. Apart from the DVB-S/S2 antenna input plus loop-through output there is HDMI for digital signal output, a coax digital audio output, three RCA jacks for stereo audio and composite video, a scart eu-

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Portuguese	Português	www.TELE-satellite.com/TELE-satellite-1105/por/amiko.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-1105/rus/amiko.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1105/tur/amiko.pdf

Available online starting from 1 April 2011

roconnector, a USB 2.0 interface for external storage media, an Ethernet socket as well as a mechanic power switch and an RS-232 connection.

We've tested our share of remote controls, and the Amiko type is right up there with the best. For one thing, this is thanks to its ergonomic shape and logical layout. Added to that are the hugely practical function keys that can be used to access the numerous multime-

dia features of the receiver such as YouTube, Shoutcast Internet radio or Picasa, to name just a few.

The build quality of the SHD-8900 will meet even the most exacting demands and the manual (currently available in Hungarian and English) that is shipped with the receiver is of equally high quality.

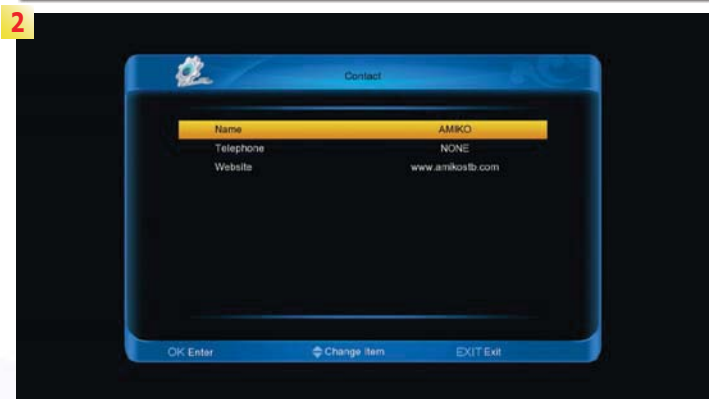
Considering the fact that the Amiko SHD-8900 Alien comes with two entirely different operating systems we decided to split this test report into two distinct sections as well. We'll start out with an in-depth look at the default software by the name of Spark, before turning to all the features of Enigma 2 in connection with the latest Amiko offering in section two.

Spark

In case the name Spark rings a bell with some of our readers there's a reason for that: Amiko deliberately chose tried-and-test technology and software, which



Amiko SHD-8900 Alien
Innovative dual boot receiver
with two different operating
systems



is why Fulan's Spark software platform was selected alongside Enigma 2 (find out more about Spark elsewhere in this issue of TELE-satellite).

Amiko has done a great job integrating the Spark platform into its receiver, and during our test hardware and software behaved like a perfect match. With its support of all DiSEqC protocols (1.0, 1.1, 1.2 and 1.3) as well as SCR unicable solutions, the SHD-8900 should be happy with just about any existing antenna setup.

Video output is just as flexible and allows users to select all standard HDMI resolutions (576p, 720p, 1080i, 1080p) – if need be, this setting can be changed on the fly with a dedicated button on the remote control, without having to go through a separate menu.

We were in for a hugely pleasant surprise as far as the tuner is concerned: It scanned the entire bandwidth of HOTBIRD 13° East in only three and a half minutes, detecting 1446 TV channels and 394 radio channels, which is a real treat.

Regular readers know that none of our test reports is complete without checking a tuner's SCPC capabilities, and the SHD-8900 is no exception to that rule. This time we used the 12.620 MHz (V) transponder on EU-TELSAT W7 36° East with a symbol rate of merely 2894 Ks/s. We're pleased to announce that the Amiko box locked and processed the

signal without even turning a hair.

One of the great joys of watching satellite TV is zapping through hundreds of channels from many corners of the earth, and it's here that cheer can easily turn into jeer in everyday use. No risk of the SHD-8900 falling into the jeer category, though, as it only takes slightly more than one second to switch from one channel to another. It goes without saying that the Amiko box comes with a fully-fledged EPG system that can either display current and next events for several channels at once, or more detailed information for a single channel.

You might look in vain for the PVR acronym in the SHD-8900 Alien's model designation, but this does not mean this feature is missing. Au contraire, all you need to do is plug in a USB storage medium to gain full recording and time-shift viewing functionality. While a recording takes places it is possible to watch an existing recording or another channel on the same transponder. With our test sample, several recordings at the same time were not possible, however this is about to change: a new software release, which will be available when this TELE-satellite issue appears, will allow multiple recordings of channels on same transponder.

If you're having one of those "there's nothing on TV" moments, then you may simply call up the integrated multimedia player which

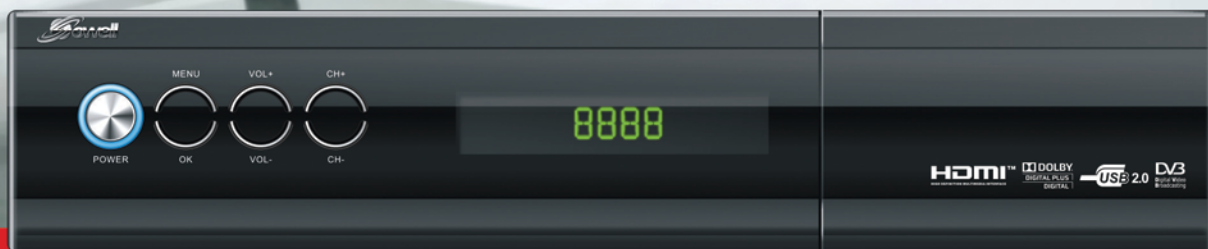
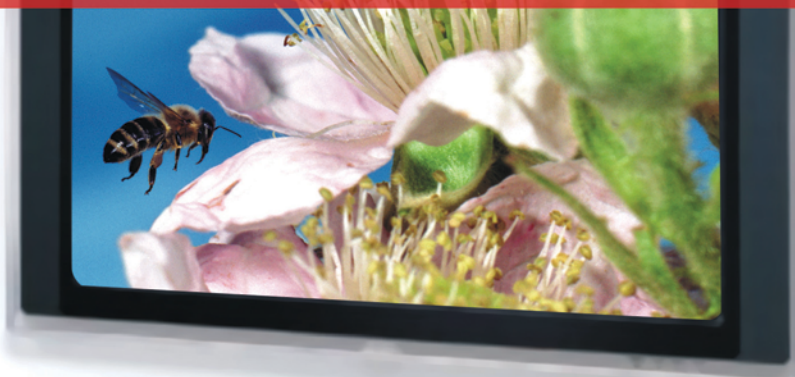
1. Very practical channel list with excellent design
2. Cool: Contact data can be left for the user by the manufacturer
3. Editing the channel list
4. EPG view of each channel
5. The info bar appears every time a new channels is selected

NXP8735 Linux HD DVB-S2+T COMBO



DVB Series

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



Features

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



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

MSD7828D HD DVB-T



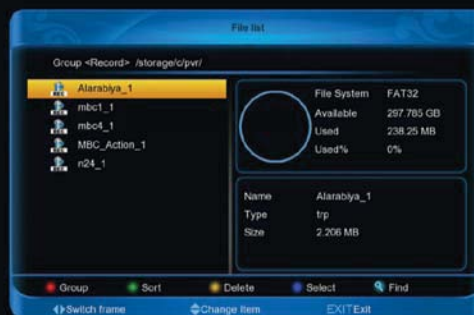
Features

- Fully compliant with DVB-T standard
- Fully compliant with MPEG-2 ,ISO/IEC 13818-2,MP@HL
- Fully compliant with ITU-T H.264/MPEG4 AVC,ISO/IEC 14496-10(MP&HP@L4)
- Full segment standard MPEG-4 ASP@L5 HD resolution
- Audio decoder compliant with ISO/IEC 13818-3, ISO/IEC 11172-3, AAC/AAC+, AC3
- 1080i/720p/570p/576i/480p video resolution supported
- HDMI 1.2 output interface
- PVR function supported, recording TV
- and playback media files with external storage devices (USB2.0 / HDD)
- Supporting pictures with JPEG, BMP, PNG
- Supporting music files with WMA, MP3, AAC (wma, mp3, m4a)
- Supporting movie files with MPEG1, MPEG2, MPEG4, H264, Motion JPEG (avi, mpg, dat, vob, div, mov, mkv, mjpeg, ts, trp)
- Capable to playing picture and music at the same time
- Advanced Time-shift function
- Software upgrade by USB2.0 interface

6



11



7



12



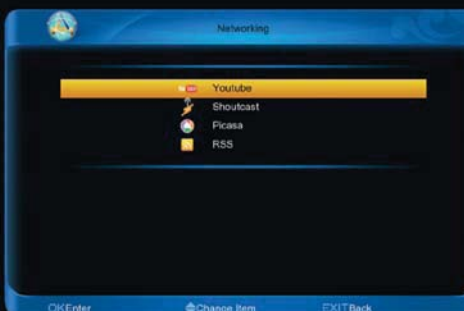
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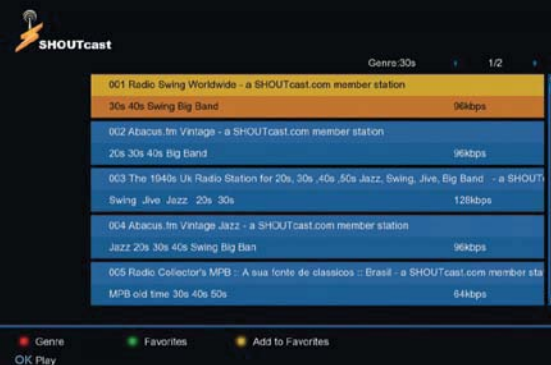
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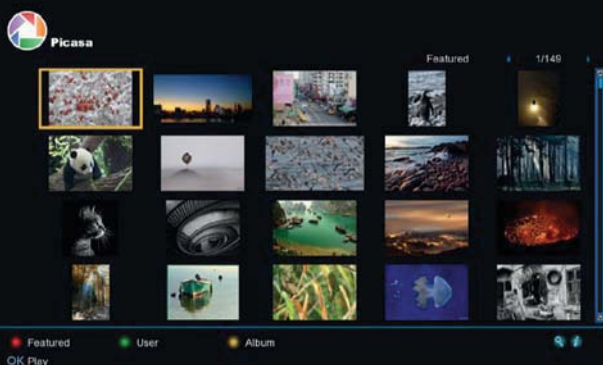
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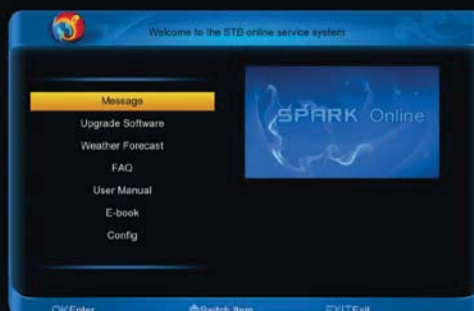
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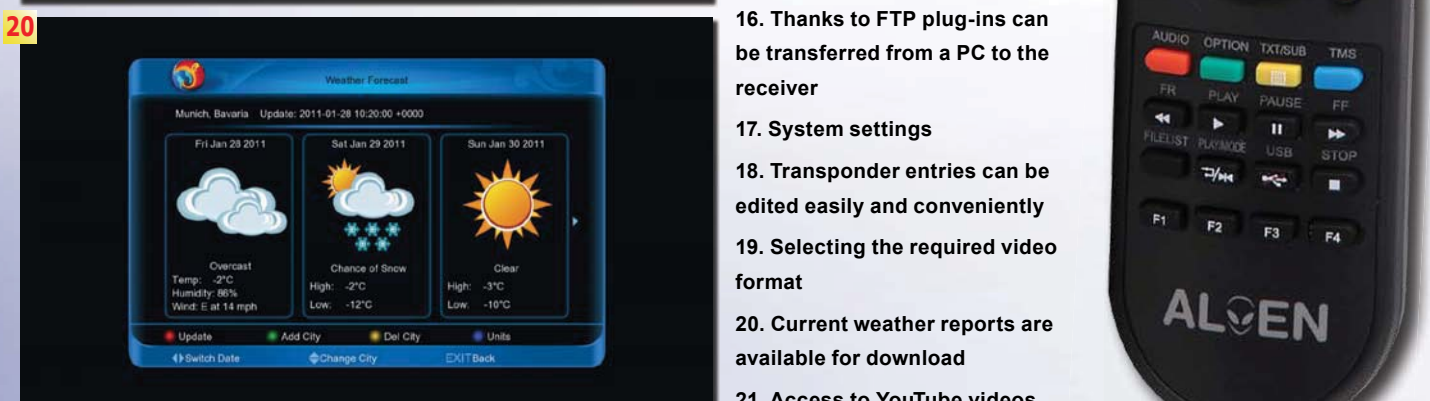
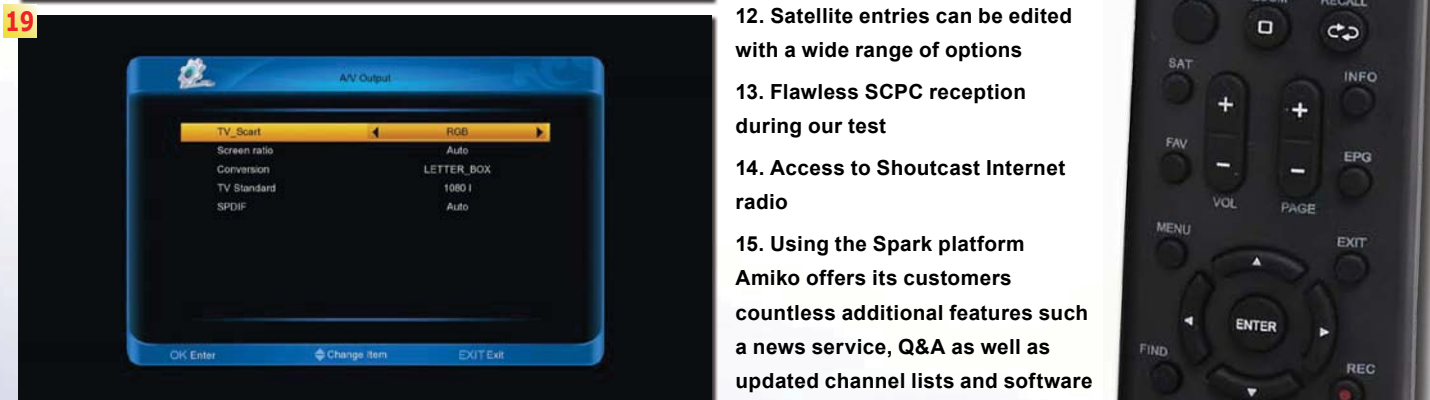
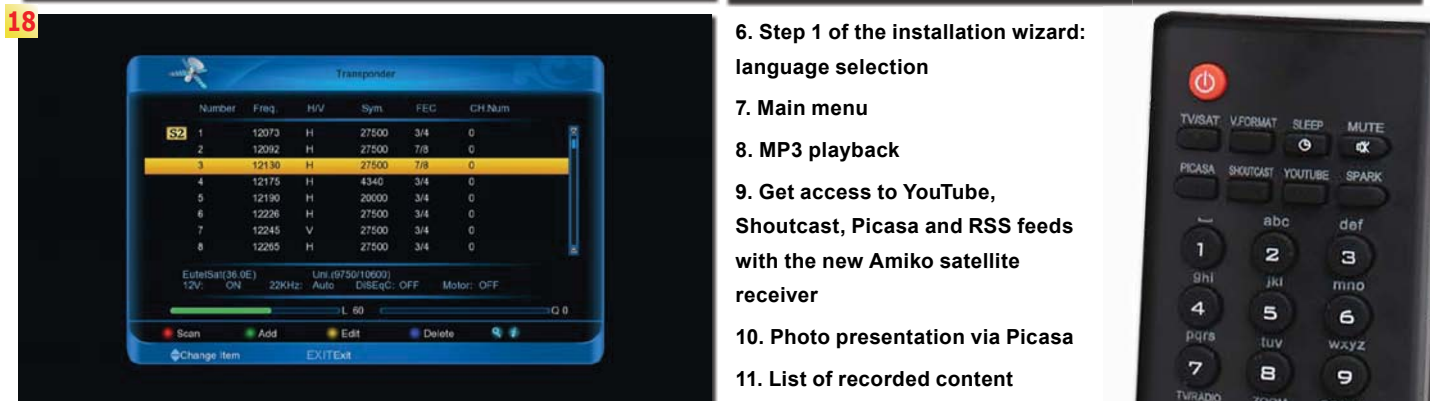
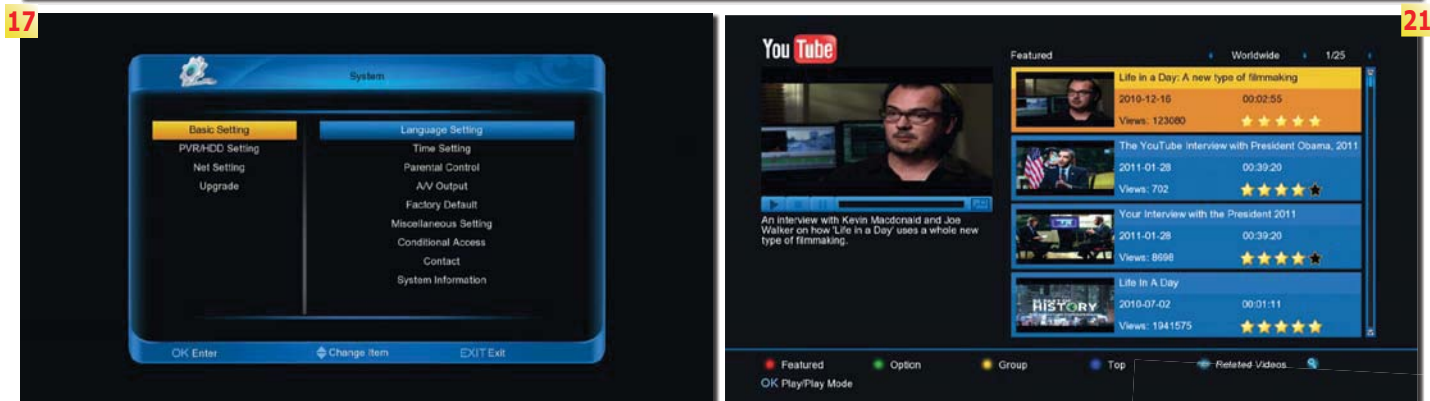
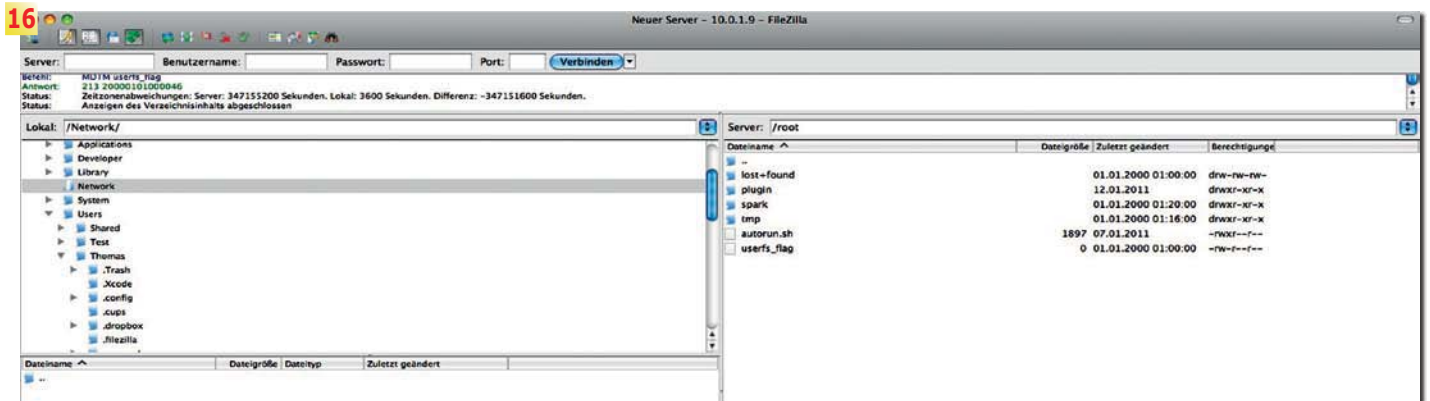


10



15





1

Contrast

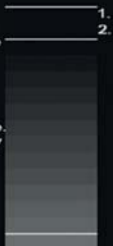
Now, use the contrast setting to turn up the brightness of the background as much as possible, but make sure that you can still see the difference between the two brightest levels of shades. If you have done that, press OK.



2

Brightness

If your TV has a brightness or contrast enhancement, disable it. If there is something called "dynamic", set it to standard. Adjust the backlight level to a value suiting your taste. Turn down contrast on your TV as much as possible. Then turn the brightness setting as low as possible, but make sure that the two lowermost shades of gray stay distinguishable. Do not care about the bright shades now. They will be set up in the next step. If you are happy with the result, press OK.



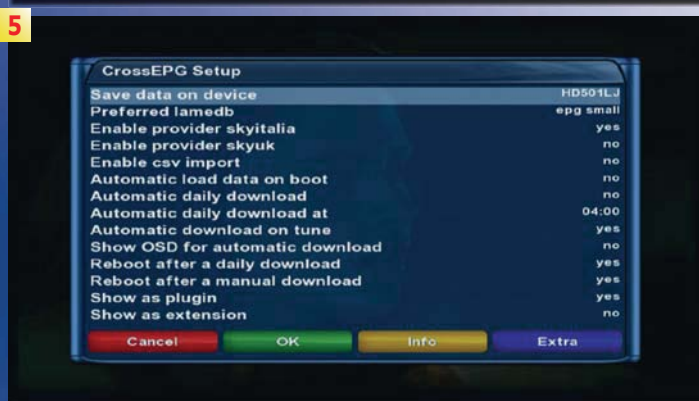
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supports a wide range of file formats such as AVI, MKV, MPG, TS, WMA, WMV, M2TS, FLV, DAT, ASF and MP3. We threw some video sequences at the player and found that all of them were played back flawlessly. We call that a PVR system which really deserves that name.

A whole range of plug-ins is available to add new features and functions to the software, and thanks to FTP the file directory of the SHD-8900 can be accessed directly via the Internet, the OSD menu or a PC for plug-in installation.

With the decision to bring the Spark software platform on board, the Amiko at the same time benefits from a full multimedia package and dedicated online platform, both of which can be used with the receiver. Multimedia features include playback of YouTube videos, Internet radio via Shoutcast, photo presentation via Picasa as well as subscribing to various RSS feeds. Thanks to the Spark software platform Amiko is able to provide its customers with valuable files such as manuals, Q&A documents, channel lists and software updates in real time for online access. We particularly loved Amiko's own news service which alerts Amiko customers to available software updates, up-to-date channel lists or any other worthwhile information. This takes a lot of work and research off the shoulders of Amiko's customers.

Enigma 2

No operating system is

perfect, and even if one system seems to offer paradise to Joe Average, Jane Average might beg to differ as she is looking for entirely different features. So why not implement dual boot for a Linux-based satellite receiver, a feature that has been available for PCs for some time already? Amiko has done just that with its SHD-8900 and ships the receiver with a boot loader capable of starting up with either Spark or Enigma 2. If you want to make use of these two options all you need to do is press OK while turning on the box. This allows selecting the preferred operating system right on the receiver. Once either Spark or Enigma 2 is selected the receiver uses that operating system until a new option is chosen.

After the receiver is turned on for the first time an installation wizard pops up and guides through the entire installation process. At first you need to select your preferred OSD languages, with the options being English, German, Arabic, Catalan, Hungarian, Czech, Danish, Dutch, Greek, Portuguese, Estonian, French, Lithuanian, Icelandic, Italian, Norwegian, Polish, Romanian, Russian, Spanish, Swedish, Turkish and Ukrainian. The next step is to adjust the video output of the SHD-8900 to the existing TV panel. Next to the standard HDMI resolutions of 576p, 720p, 1080i with 50/60 Hz the receiver can also create a 1080p output, a feature that is rare even among newer satellite receivers. Next, the Amiko box

1. Adjusting the contrast setting on the TV using a test pattern
2. Adjusting the brightness setting on the TV using a test pattern
3. Channel list categorised by satellites
4. Automatic channel search on HOTBIRD 13° East
5. Using Enigma 2 as the operating software the Amiko SHD-8900 can download EPG for any number of pre-selected channels



Made In Korea. Certificate of Origin

More than
You Can Imagine

HD PVR (Full HD, 1080P)

High Definition PVR Receiver

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



Full HD / DivX



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



Time Shift



Picture in
Picture



Playing recording
files in P.C



6



11



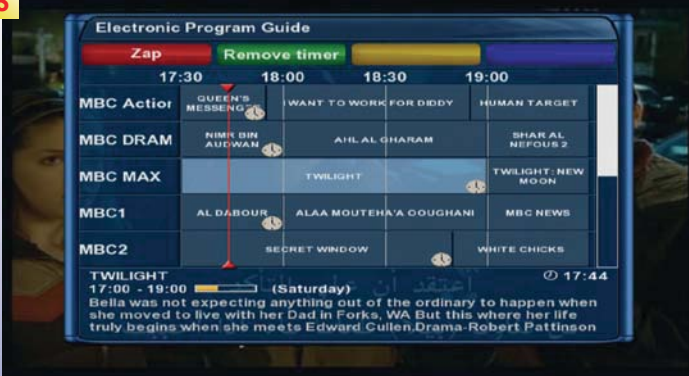
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creates two test patterns for adjusting brightness and contrast settings of the TV panel so that you will arrive at an optimum video quality. In our opinion this is a particularly helpful and innovative feature and goes to show that developers have put a great deal of thought into this system.

Before we're ready to rumble the receiver needs some information about the individual reception setup in place. All DiSEqC protocols (1.0, 1.1, 1.2 and 1.3) are supported so that the Amiko box is the right choice for a standard single or multi-feed antenna as well as for a multi-focus dish or a DiSEqC motor.



Network access is a must in order to use all Enigma 2 feature to the full, and this is why network configuration is included in the installation wizard. Unless your network at home is of a truly complex or exotic type we recommend activating the receiver's DHCP so that it will detect and take over all network parameters (IP address, gateway, DNS server) automatically.

Now that the basics are finished we can't wait to explore all the features of Enigma 2. Yet, there is one more job to complete – the receiver's channel list is still empty and begging to be filled with everything the sky has to offer. Transponder data of major European

satellite positions are pre-stored so that we can start scanning these birds right away.

Manual and automatic modes are available for channel search. We tried out an automatic search on HOTBIRD 13° East, which unfortunately took nine long minutes and found 2056 TV and radio channels. It seems like the interplay between hardware and software has some room for improvement in this regard. After all, the Spark platform achieved the same task five and half minutes faster, which can feel like an eternity. In addition, the Spark software of the new Amiko receiver also did a better job with SCPC signals. With Enigma 2 the

6. DiSEqC settings

7. In our test we were able to record up to four streams at the same time without any problems

8. Graphic multi EPG

9. The info bar appears every time a new channels is selected

10. Main menu of Enigma 2 with the SHD-8900 Alien

11. Manual channel search

12. Network settings

13. List of installed plug-ins

14. Setting the recording time

15. List of recorded events

16. Pre-stored satellite entries can easily be edited

17. Language selection

18. Two different standby modes are available

19. Creating a timer entry

box had a hard time locking the 12.620 (V) transponder on EUTELSAT W7 36° East, while the same receiver with a different software (Spark) couldn't care less about low symbol rates. All this shows that some fine-tuning is still required to propel the Amiko/Enigma couple further up on the receiver ranking.

Once the channel list is filled it can be edited to your heart's content with Enigma 2 without even having to run through a dedicated menu. We cannot think of any other operating system with the same ease of use.

All you need to do is press the MENU button while the channel list is displayed and the software will offer you all editing features that are available. Want to move a channel to your favourites list (which, incidentally, can be organised using markers)? One touch of a button and it's done. In the overall list you can either chose all channels, all satellites, all providers or favourites.

The keypad on the remote control can always be used to enter text in the same way we use our mobile phones for texting, a feature that is awesome for

renaming channel names or recordings, for example. Several people in our editorial offices tried it out and they all felt this was a much more convenient way of entering text than using a virtual keyboard on screen and the arrow buttons on the remote to select letters. We should not have to mention that all channel list entries can be augmented with current EPG data so that current event information is added to channel list data. This way you can see what's on before even zapping to a particular channel. Those of you arguing that the Amiko SHD-8900 only has a single tuner and therefore can only provide EPG data of the selected channel, or of channels on the same transponder, are right. However, Enigma 2 can be set to turn

on automatically at a given time (during night-time, for example) and download EPG data from previously selected channels to be stored locally. That's a truly brilliant feature which makes EPG data available for channels from different transponders at any time.

In general, the EPG of the Amiko SHD-8900 Alien in combination with the Enigma 2 software is a good example of how to do it right. It offers three presentation modes: (1) graphic multi EPG for five channels at time – you simply select the required bouquet and get EPG information for five channels per screen page, all nicely presented; (2) standard multi EPG for 15 channels per screen page without graphic presentation and

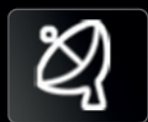
(3) single EPG with content information, a listing of actors in a movie and the like (if provided by the channel).

In our opinion the Enigma 2 info bar is worthy of special praise. Every time a new channel is selected it is inserted on the bottom of the screen for some seconds and shows current and next events, as well as icons for additional channel information (encryption, EPG, subtitles, audio channels, etc.).

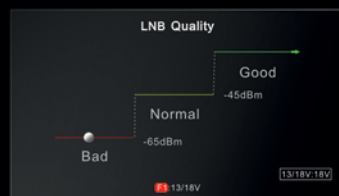
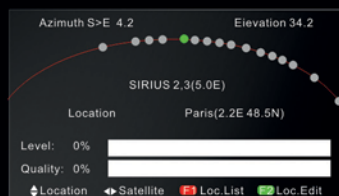
All PVR features worked smoothly under Enigma 2 – but frankly, we didn't expect anything less. Time-shift viewing is available at any time for lossless interruption of the live program. When we tested how many recordings the Amiko SHD-8900 Alien can handle simultaneously

under Enigma 2 (or if more than one is possible at all) we were lost for words: One recording is the minimum requirement, two simultaneous recordings would be a brilliant bonus, three would be great, but the Amiko box even managed four, all of which were neatly stored on our external hard disk. The impressive thing is that the number of simultaneous recordings is only limited by the data speed of the hard disk, which in our case did not allow for more than four SD streams at the same time. As far as HD content is concerned, our setup only managed one channel at a time. As mentioned before, the SHD-8900 is a single tuner receiver, which means that all simultaneously recorded content must be transmitted on the same





DVB S2



Installation Meter & Full Measurement for DVB-S2

Real-Time and Multi-Analyzing Spectrum

Constellation Chart

LNB Test MDU & Unicable

BER, S/N(MER),FEC Measurement

Auto Search,Blind Search,NIT Search,Manual Search

Satellite Name & Degree Auto Detective & Display

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Local satellites list showing automatically

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Water-Proof Bag,Compass,User Manual

Size:162x100x42(mm) Weight: 0.45kg

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Minisat-basic S2/NIT



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Milestone DTV Device Creator

transponder. Still, we've never had a single-tuner PVR receiver before which was capable of handling up to four SD recordings at the same time. Even the Spark software does not allow more than one, although the hardware apparently is capable of much more.

Where there is light, there is also shadow – in this case playing back recorded content lacks some important features. To tell the truth, all entries are presented in a very pleasing way and can be edited to make for large font sizes or to add additional information, but this is reduced to eye candy when it's not possible to fast forward or rewind. Enigma 2 even goes so far as to insert a message that this feature is not yet available. As an alternative, you can use the number keys on the remote

to jump to a selected time index within a recording.

On a much brighter note, the multimedia features of Enigma 2 are nothing short of unique. Not only is a media player available that will process virtually all current audio, video and image file formats, there is even an integrated DVD player. This way you cannot only watch satellite TV and listen to satellite radio with the SHD-8900 but also call up a DVD movie, provided its content has been extracted and stored on an external hard disk or USB stick before.

A virtually endless supply of plug-ins is part and parcel of Enigma 2, all of which can be downloaded from the Internet free of charge. With these software extensions you can add all sorts of features to your satel-

lite receiver, ranging from conventional video games to current weather reports all the way to emulators. All you need is your set-top box and access to the Internet. Software updates are loaded and implemented in the same way, so you will no longer need modem cables and a PC to install a new version of your receiver's operating system.

We particularly liked the option to fully customise the OSD of the receiver under Enigma 2 to reflect your personal taste. A number of skins (pre-stores design schemes) can be downloaded from the Internet and then activated on the receiver. So if you're not entirely happy with the default look of your OSD you are free to browse available alternatives and exchange the existing skin with a new one.

We believe the huge variety will cater for every taste.

The comprehensive network integration of the Amiko flagship receiver is rounded off with a very special feature of the Enigma 2 platform: A fully-fledged web interface for remote access to the receiver from anywhere with an Internet connection. To access your Amiko SHD-8900 at home all you need to do is key in its IP address in the address field of any Internet browser and – no matter where you are – you are then able to access the most important functions like channel switching, creating a timer entry for a recording, sending a message to the receiver, and so on. If you need to access a receiver feature that is not implemented in the web interface you can always call up a virtual re-



Expert Opinion

+

With two different operating systems users can decide which one is best for them.

Excellent remote control with quick access to special features.

Both software platforms appear to be well-designed and mature – we experienced no freezes or software bugs.

High-definition 1080p content is processed natively and put out as 1080p.



Thomas Haring
TELE-satellite
Test Center
Austria

None

remote control and use it like your real remote at home by clicking on the required button on the screen. Since you can do this from more or less anywhere you can easily access your box while on holidays, change some settings if required, and put it back into standby mode – all with a few mouse clicks!

Talking of standby: No matter which operating system is active (Spark or Enigma 2), the Amiko SHD-8900

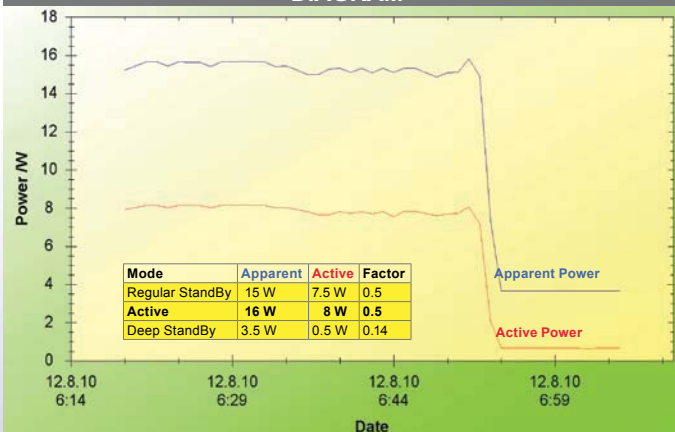
always offers either normal standby or deep standby. Looking at the energy diagrams in this report the vast difference in power consumption between the two modes becomes strikingly obvious.

The Amiko SHD-8900 is a very well built HDTV PVR receiver with high-quality hardware. Being shipped with two different operating systems users can decide which platform better meets their requirement and offers the features they really want and need. We tested both platforms and can recommend both, as neither of them had obvious flaws. They look and feel entirely different, but both are user-friendly and will work nicely for the whole family. With its 1080p video output via HDMI this receiver will be a good choice even for future HDTV transmission standards.

TECHNICAL DATA

Manufacturer	Karmacom Kft., Ganz Ábrahám street 5, Nagytárcsa 2142, Hungary
Tel.	+36-1 431 8932
Fax	+36-1 431 8933
E-Mail	info@karmacom.tv
Model	SHD-8900 Alien
Function	Digital HDTV DVB-S receiver with various multimedia & Internet features including dual boot
Channel Memory	unlimited
Symbol rate	2-45 Ms/sec.
SCPC Compatible	yes
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
USALS	yes
HDMI Output	yes
Scart Connector	yes
Audio/Video Outputs	3x RCA
Component Video Output	no
S-Video Output	no
UHF Modulator	no
0/12 Volt Connector	no
Digital Audio Output	yes
EPG	yes
C/Ku-Band compatible	yes
PVR-Function	yes
USB 2.0 Connector	yes
Ethernet	yes
E-SATA	no
Silicon Tuner	yes

ENERGY DIAGRAM



First 15 minutes: Active use with recording, playback and channel switching

Second 15 minutes: Standby mode

Third 15 minutes: Deep standby mode with very low power consumption



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ISO9001:2000



WDS-6100 SCRAMBLER

WDE-4420 ENCODER

WDE-4220 MPEG-2/4 ENCODER

WDM-4140 MULTIPLEXER

WDQ-3204 QAM MODULATOR

WDE-H2220 HD ENCODER

WDT-1204 TS RECEIVER

4 OUTPUT RETURN OPTICAL RECEIVER

WR8602JDS ROOM OPTICAL RECEIVER

OPTICAL SWITCH

WR8602RJL ROOM OPTICAL RECEIVER

1550nm INTERNAL MODULATION OPTICAL TRANSMITTER

1550nm EXTERNAL MODULATION OPTICAL TRANSMITTER

1310nm EXTERNAL MODULATION OPTICAL TRANSMITTER

ERBIUM DOPED FIBER AMPLIFIER



CATV OPTICAL FIBER COMMUNICATION SYSTEM PLATFORM WOS-3000

AB IPBox 55HD

HDTV Linux Receiver

- *Receiver allows remote satellite reception with Internet streaming of video and audio*
- *Easy start of recordings directly from EPG*
- *Easy connection to the receiver's software via FTP*
- *Plenty of additional software available, including a most versatile channel editor*

We've seen several Linux-based receivers over the last few years. It is an exciting prospect for most of us to have a powerful and customisable receiving system at our fingertips. Too often in the past though, the cost of all this power gets a little too much. When twin tuners, large hard drives and lots of interfaces are added to the receiver, it ends up being outside the budget of all but the most fanatical or rich satellite viewers. With the AB IPBox 55HD, the new model of Slovak manufac-

News Flash!

Dual Boot

for AB IPBox 55HD

AB IPBox will soon release a dual boot software for the AB IPBox 55HD: the user can choose between Enigma 1HD and Enigma 2HD. This means the user can simply restart the Enigma 2HD software to the Enigma 1HD within 15 seconds. The big advantage is that the setup files stored in the VAR folder are shared by both software versions. The dual boot feature adds another big bonus to the AB IPBox 55HD.



Arabic	العربية	www.TELE-satellite.com/TELE-satellite-1105/ara/abipbox.pdf
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Available online starting from 1 April 2011

turer AB IPBox, they have taken a different route. While outwardly similar to the AB IPBox 9900HD - see our test report in TELE-satellite 12-01/2011 - , this receiver has just one tuner and no internal hard drive.

The AB IPBox 55HD comes in the same uniquely styled white case with a stylish design of flowers on the front. I still think they are chrysanthemums, although I have no official confirmation of this. The front panel contains buttons to control the basic

functions. One of which, accessed by holding down the menu key when powering on is very important. It forces a change of screen resolution when the machine boots up. Although the machine is supposed to choose its output and resolution based on which are connected, I've found myself in the position of having to use this method to regain a picture on screen a few times.

The front panel is completed with a four-digit LED display which tries to dis-

play the first four characters of the channel name. It sometimes looks OK, but if you remember back to those old games of trying to make words on a calculator display, sometimes it doesn't really make too much sense.

Under the flap, there is a single Conax card slot - but no USB port. The single USB is found at the back of the receiver. This would be good to keep cables out of the way if a hard drive was permanently connected, but could be infuriating if a drive





is shared with other devices. Also on the back panel, there is a single Scart socket, HDMI and SP/DIF connectors for digital video and audio, an HDMI output, and the antenna socket and its corresponding loop-through output. And that's it. Some people might miss a second Scart, or component video, or stereo audio jacks, but the set of connections has been trimmed to only those that are most popular and most necessary.

Switching on the receiver takes quite a while to get the operating system loaded: two minutes or more depending on if a hard drive is connected. The 55HD comes already pre-programmed with settings and channels for packages and satellites worldwide. The world of satellites never stands still though, so there are plenty of options for adding satellites and channels. A full range of DiSeqC controls are present, allowing for fixed dishes, switches and motors. USALS is supported for simple setup from just the input of the receiving location's coordinates.

For a receiver with such a powerful operating system, scan speeds are surprisingly slow. A full scan of ASTRA 2 clocks in at just under 25 minutes. Adding the network scan option to gather

any new channels from the providers doesn't add any extra time to the scan.

Pressing OK brings up the channel list which can be sorted in a number of ways. The channel storage system is a little bewildering at first, with channels being arranged in a master list that is not editable – which caught me out again on my second experience of Enigma.

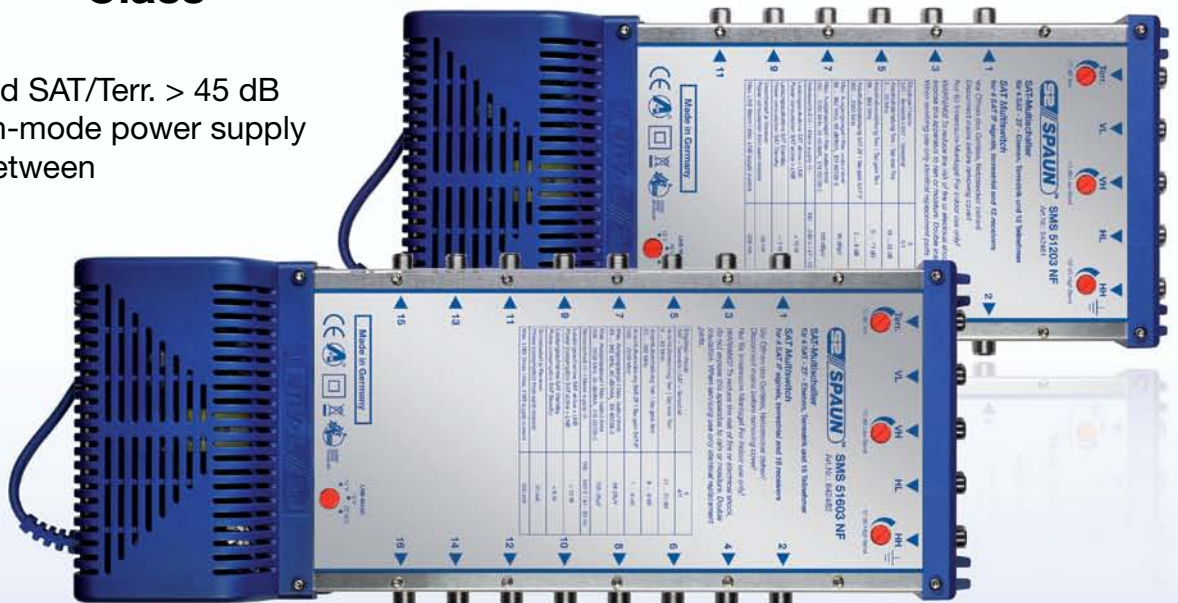
After giving in and referring back to the manual, I am reminded that everything needs to be done through the concept of "bouquets". This term is not to be confused with the sometimes-used definition of a bouquet being a group of channels on a single transponder, or even a bunch of black chrysanthemums. In Enigma-land this is the equivalent of a favourites list. In fact, the standard pre-programmed bouquet is indeed called Favourites.

Whilst channels can be selected and viewed from the master list, taking the time to copy them into a set of organised bouquets makes the whole experience much better. And once the channels are in the list, they can be edited, sorted and moved around as you'd expect. It's quite a long process, but a read of the manual helps you find the best ways to do it for each situation. An even better way is to use some software on a PC to do it – more on this a little later.

1. Scan options
2. Service information
3. AV settings
4. Main menu
5. Antenna setup

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Read TELE-satellite's Company Report:

AB IPBOX

Satellite Receiver Manufacturer, Slovakia



www.abipbox.com



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

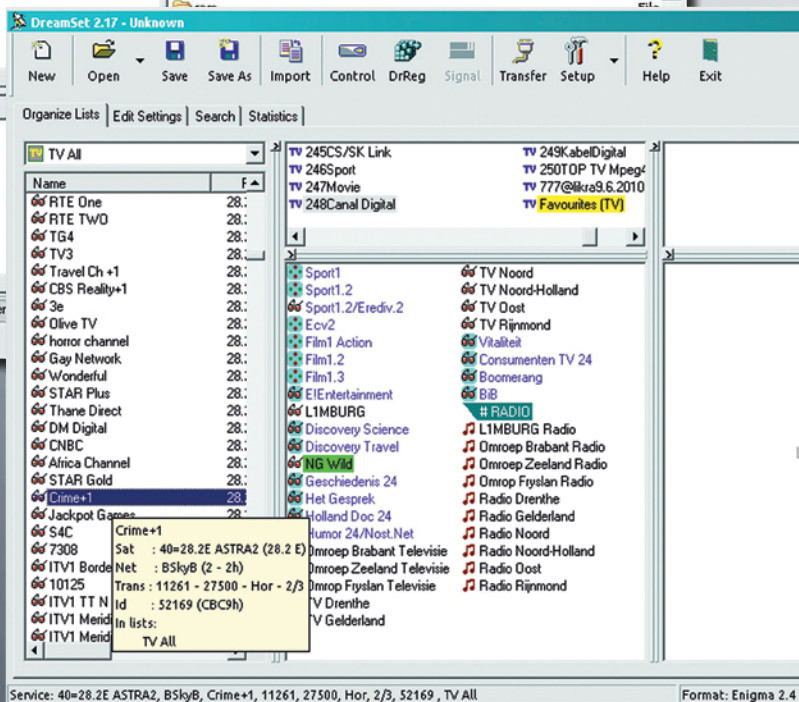
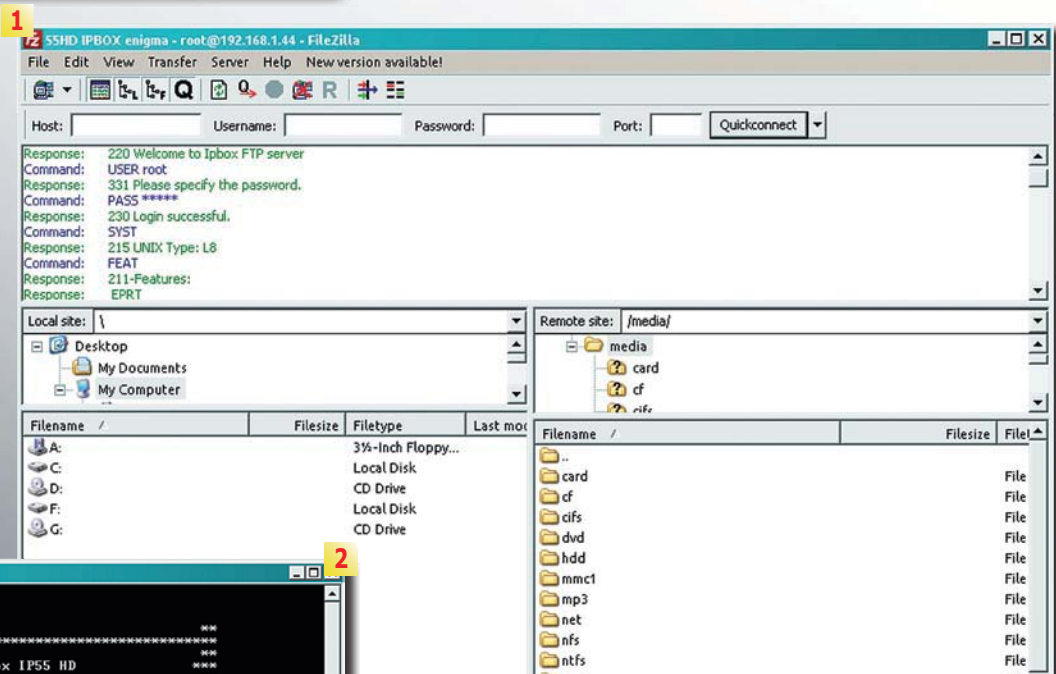
as Formula 1 racing where more than one video stream can be selected.

ture can be used to play a recording.

A picture-in-picture mode is available, and it is much more flexible than most – not only can the secondary picture be moved into a different position on the screen, but it can also be resized. Of course, with only one tuner the choice of channels to display together is limited to the transponder currently in use, or the main or secondary pic-

The receiver's standard EPG is a little different than most – the EPG button on first press brings up the information for the current programme, with the arrow keys moving forward and back to the next and previous shows. Pressing blue for "Multi EPG" gives a list of the channels in the chosen bouquet with their programmes listed – again the arrow keys are used

Navigating channels is nice and easy, although zapping between them using the up and down buttons feels a little sluggish. A recall button is available, and there seems to be a more comprehensive channel history list that could be navigated, although this is only available from the help menu as it has been mapped onto the same key as the less useful function to move between sub-services – those very rare events such

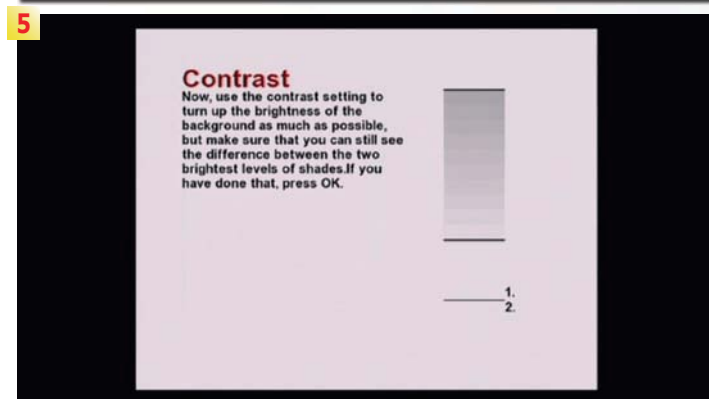
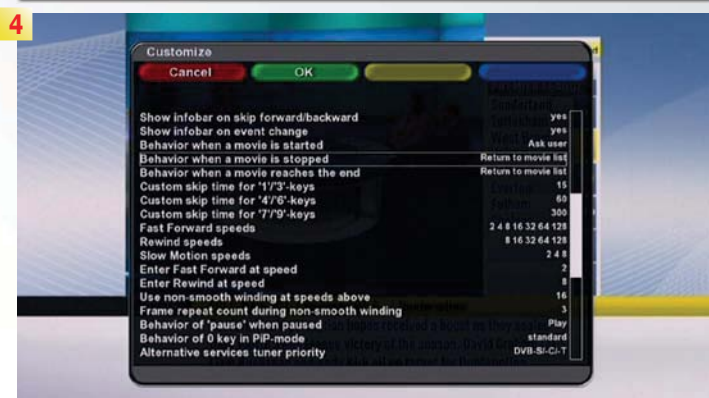


to move to the next programme. For those more used to the grid-style EPG, one is available from either the blue button, which loads extensions or plugins, or by pressing and holding the EPG button. Yes, there are so many functions on this receiver some are even hidden under long keypresses. The "help" button is always a good friend – showing a picture of the remote and a list of available commands.

The EPG is the easiest route into recording onto an external hard drive if one is connected. To be able to hold recordings, the drive needs to be formatted

1. FTP via Filezilla
2. Telnet
3. The DreamSet settings editor
4. Web interface
5. Timer access via web interface
6. The web remote

The collage consists of six screenshots of the AB IPBox WebControl interface, numbered 1 through 6. Screenshot 1 shows the main menu with tabs for Television, Radio, Movies, Timer, BoxControl, and Extras. Screenshot 2 shows the WebRemote tab, which displays a virtual remote control. Screenshot 3 shows the BoxControl tab, which includes options like PowerControl, Send a Message, WebRemote, and Screenshot (OSD). Screenshot 4 shows the main menu with the Timer tab selected. Screenshot 5 shows the Television tab, which displays a list of channels and their current programs. Screenshot 6 shows the Timer tab, which includes a form to set a recording timer.



in the Linux EXT3 format, which the receiver will do if required. When the programme information is on screen, a press of the green button adds it to the timer. The start and end times, repeat recording options and filename can all be changed if required before pressing green again to submit it to the recording schedule. For a quick one-off recording, it's a quick sequence of pressing OK, green, green from the EPG.

It's also worth noting that when specifying the filename here, and in fact anywhere else in the receiver where text input is needed, that the numeric keys on the keypad can be used to input text in the same manner as a mobile phone. Eagle-eyed readers may notice from the pictures that the Q and Z characters are in different positions than on a phone keypad – but in the menus themselves they are on the 7 and 9 keys as they would be on a phone!

Recordings can be replayed via the list under the Files button, and it's not necessary to wait for a recording to finish before starting the playback. Recordings can also be viewed through the media player, this also handles MP3 audio and AVI files very well. The media player does not pos-

sess the most intuitive of interfaces, and I find myself regularly returning to the help button to refresh my memory of how to add and remove files to the playlist. It's great to see that the programme information from the EPG is saved along with the file, something too often forgotten.

The IPBox runs a version of Linux which means several options exist to connect it to the outside world. Once hooked up via the Ethernet LAN port, the box can be accessed by Telnet and FTP. Telnet could be useful to those who have a good understanding of Linux and the receiver, FTP is more useful to the rest of us. If accessing the rear USB port becomes just too annoying, just use FTP to access your files over the network, using root as the username and ipbox as the default password.

When I reviewed the AB IPBox 9900HD IPBox in TELE-satellite 12-01/2011, I was somewhat disappointed by the lack of software available via the box's update service. In meantime, a few more programs have appeared, some which work better than others. There is a Youtube player – which is awaiting an update to the Enigma2 software before it will work; a Google maps viewer that comes preloaded with landmarks around the world including motor racing venues and mostly works well; and a live football scores application that

1. EPG programme information
2. Channel list
3. PID details
4. The customize menu
5. Picture fine-tuning



SPOTLIGHT ON: UNI-BOX 9060 CRCI HD PVR optional for DVB-S, DVB-T, DVB-C
UNI-BOX 9080 CRCI HD PVR COMBO optional for DVB-S/T, DVB-S/C, DVB-T/C

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is a great idea, gave me up to the minute scores from all around the world, yet the English Premier League and German Bundesliga were not included in the list. I am surprised that as internet connectivity is working perfectly from the IPBox, that a web browser is still not available.

The most useful plugin is still the web interface which allows control of the receiver and timers from a browser. With the right router setup it could be accessed from anywhere on the internet, so luckily it can be password protected so that someone doesn't log in and delete that show from the timer you were looking forward to watching when you get home. The receiver's picture and sound can even be streamed from here,

and recordings may also be streamed or downloaded.

Recordings once on a PC are in .ts format, and after some processing in software such as TSRemux are able to be viewed and processed as required. I've made use of radio recordings also, converting them with only a few problems to load onto an MP3 player.

A small amount of software is also available at www.satupdate.net. As well as firmware updates, there is a fully featured settings editor. This one works with many other Linux receivers which means a much larger internet community is opened up, as bouquet lists created for the other receivers can be loaded and sent to the receiver. The editor connects easily via the LAN

and makes editing bouquets so easy it should be the first choice if at all possible.

The editor is reminiscent of DVBEdit for the good old DVB2000 on the D-Box and I felt quite at home using it. It can even load settings from DVB2000, and this is a reminder that the Enigma 2's software family tree can be traced right back to the old days of the D-Box. It almost brings tears to the eyes of a satellite geek of too many years to see such formats as DVB2000's .DVB, Nokia .N98 and even SatcoDX .SDX being importable alongside their modern day counterparts. Taking the trouble to connect via the LAN port even just for this function is well worth it, and much easier than the headaches I remember from using RS232 and SCSI connec-

tions in the past!

As with all Linux receivers, learning how to use it and all it can do is a much greater task than other satellite receivers. But the rewards are great and the power and flexibility are unmatched. The AB IPBox 55HD has only one tuner, no hard drive and less output options than other receivers of its type – but this would only be a problem if those that are absent were specifically required. Taking this route, the receiver's purchaser can choose the size of hard drive they require – or choose not to have one at all if they wish. All the power of Enigma 2 remains, so it's ideal for those on a budget or the enthusiast who just wants to experiment without the extra cost of two tuners and a hard drive.



Expert Opinion

+

includes Internet streaming of video and audio

flexible picture-in-picture mode
easy recording from EPG
EPG information is recorded in PVR
easy connection via FTP
easy download of additional software

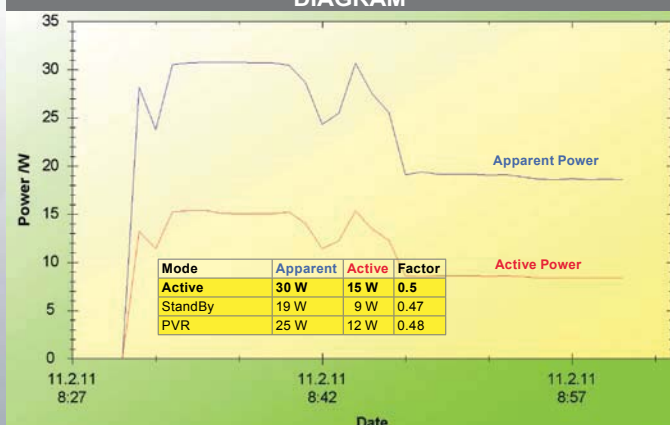


Andy Middleton
TELE-satellite
Test Center
UK

-

Q and Z on remote control are on different positions than in menu

ENERGY DIAGRAM



Just like Linux on a computer, documentation is not always the best and the answers to some questions are found only after some searching around on the internet. There are many functions that are not covered

at all in the receiver's manual, but to be fair if everything inside the box was covered, it could grow to be a very big book. Part of the fun, or infurcation, of using this receiver is they voyage from initial confusion

to enlightenment as you figure out just how everything works. And now I've found a channel editor that makes organising the machine a pleasure rather than the usual pain, I'd love to have one even more.

TECHNICAL DATA

Distributor	AB IPBox s.r.o., M. Razusa 4795/34, 955 01 Topolcany, Slovak Republic
Tel	+421 38 5362 667
Website	www.abipbox.com
Contact	info@abipbox.com
Model	55HD
Function	HDTV Linux Receiver with single tuner and USB for PVR
SCPC compatible	Yes
USALS	Yes
DiSEqC	1.0/1.1/1.2/1.3
Scart connectors	1
Symbol rates	QPSK – up to 45000 QPSK – up to 36000 8PSK – up to 30000
MPEG2 modes	MPEG-2, MPEG-4, H.264
Audio outputs	none
Video outputs	HDMI
Resolutions	720x576 (PAL), 720x480 (NTSC) 1080i, 720p, 480i, 480p
UHF output	No
0/12 volt output	No
Digital audio output	S/PDIF
EPG	Yes
C/Ku-band compatible	Yes
Power supply	100-240V AC
Common interface	None
Card slots	1 (Conax)





Skyworth ALI-HD

DVBS-2 & DVB-T Receiver

• *This tiny receiver comes from Skyworth, a well-known manufacturer to our readers: in TELE-satellite 04-05/2010, exactly one year ago, we reported on their innovative Scart connector receiver line for DVB-S and DVB-T. The small size of those receivers come to mind again when we look at their newest combo box, measuring just 260mm wide and 210mm deep.*

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Polish	Polski	www.TELE-satellite.com/TELE-satellite-1105/pol/skyworth.pdf
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Russian	Русский	www.TELE-satellite.com/TELE-satellite-1105/rus/skyworth.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1105/tur/skyworth.pdf

Available online starting from 1 April 2011



Skyworth have managed to shoe-horn both a DVB-S2 and a DVB-T receiver, quite an achievement. And even though the receiver is 40mm high there is a good range of connections squeezed onto the back panel. There are single HDMI, Scart, component and composite video connectors, audio connections in both digital and analogue flavour, along with loop-throughs to compliment the satellite and terrestrial inputs. The UHF output is for loop-through purposes only; there is no RF modulator onboard. LAN and RS232 ports are also present for upgrade purposes.

The front panel has buttons for the most basic

controls next to an LED display that shows the channel number, a flap hides away a CI slot and USB port, where a storage device can be connected. It's worth noting from the outset though that the unit's power requirements are for a power supply of between 175 and 240 volts, so it would be unsuitable for use in the Americas and other areas that use 110V.

A good range of antenna connections are available despite the initial basic feel of the receiver. Options range from a single fixed dish through DiSEqC switches and motors, with USALS included for a very easy motorised setup. 41 satellites around the world

are pre-programmed, others can be added. LNB frequencies are fixed, but cover most configurations available including C-band.

Hitting the scan button for the first time gave me a real surprise – it is very fast! A scan over the whole of AS-TRA 2 takes only 3 minutes and 20 seconds to find 96 transponders. Adding the network scan option ensures that any frequencies for the provider that are not already in the receiver's database are also scanned, but this adds a time overhead onto the scan. The same satellite scanned with this enabled took over twice as long – 6 minutes 50 seconds. There is another way though, blind scan comes to our rescue and will flew across the whole satellite, picking up any new frequencies and adding everything it finds. The same 96 transponders were found in a staggering 2 minutes 54 seconds, even faster than the normal scan. That is an average of just 1.8 seconds per transponder. Blind scan is clearly the way to go here.

Our sample receiver also had a DVB-T tuner built in. While the satellite tuner can

receive DVB-S2, the terrestrial part does not include DVB-T2 to match, so there's no HD through the TV antenna even if it is available in your area. Scanning here can be over the whole spectrum, or an individual channel can be specified.

At my location there are only two DVB-T transponders and one DVB-T2 – the two traditional ones were found and scanned in an equally fast 27 seconds, the DVB-T2 didn't register at all. I was a little concerned as the frequency bands to scan are set by country, and the options of Czech, Brazil, France, Germany, Poland, Italy, Russia and Sweden might not have been good for me here in England. But all of them seemed to work just fine, and if needed a look on the internet to find the frequencies to enter would be a last resort to find your channels if your country's frequency band did not match these defaults.

The channel list is accessed as usual from the central OK button. Scrolling is quite fast, and there are page up and down buttons to help out here too. The list can be filtered with the left





1. Channel list
3. Channel edit
3. EPG

Skyworth

and right buttons to select between each of the satellites in memory. Terrestrial channels can be separated too.

A nice extra feature is the "find" function, accessed with the red button. Here the list is filtered to match the text that is entered, pressing B would filter it to just channels beginning with that letter, and pressing B again would find BBC One, BBC Two etc. This would be even more useful if it let us use the number buttons as letters, as they are printed on the remote in the same way as they are on a phone keypad. Sadly this isn't available.

Favourites lists are essential now we have thousands of channels to choose from, and it is good to see that the receiver has 32 lists availa-

ble that can be renamed as required, and are accessed quickly from the dedicated button on the remote. Channels can be added to more than one list making the system fully flexible and usable. Channel editing too is quite comprehensive, channels can be renamed, edited, locked or set to be skipped in the list.

Picture quality is OK in higher quality connections – the picture through the Scart was very fuzzy when first used, but switching into RGB mode made the picture much more acceptable. I found the pictures to be a little bland, but a few tweaks of the colour, brightness and contrast controls in the menus made them much nicer.

Being a HDTV receiver, Skyworth expects users to



SHD-8900 ALIEN

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Full HD
1080



ALIEN

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WITH DUAL OPERATING SYSTEMS



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- 6. Motor settings
- 7. Programme info

- 8. Satellite scan
- 9. Satellite scan options
- 10. Terrestrial scan
- 11. Timer



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connect their tv sets via the HDMI socket. This became obvious when we tried to listen to Dolby Digital with our TV connected to the analogue output or the Scart socket: there was no sound to hear. Analogue outputs and Scart are only meant as a last-resort or for configuration, but not for regular viewing.

It's good to see that the remote has some useful function buttons for operations that are too often hidden inside menus – notably those to select of audio track, video format between widescreen or normal, and video format to choose the screen resolution.

The ALI-HD's EPG is ba-

sic, but does its job. Where available, EPG data goes as far as a week into the future. Timers can be added to switch to a channel when it starts, or record to a USB device. It's worth noting that unlike many receivers, it does not seem to check for a conflict when a timer event is running – channels can be changed, menus accessed and even scans started without warning, resulting in lost recordings or a crashed receiver that needs to be powered off and back on to come back to life.

Recordings though are of good quality when played back on a computer – there are none of the issues that were found with the pic-

ture on screen. A bonus is that they are stored in the standard .ts format which allows them to be edited and processed easily on a computer. As seems to be usual with recording in this manner, the external drive needs to be formatted in FAT format and not NTFS so the file size limit of 4GB needs to be remembered if the files are to be used later in Windows.

As well as recording from the EPG, a recording can of course be started manually, and timeshifting is also available, accessed from pause button which feels almost hidden away at the top end of the remote.

Recordings appear in-

side the media player – a basic but usable interface that seems more integrated when you notice that it is also used to access all media that may be on your USB device. Music, videos in AVI format and pictures can all be found in separate pages of the same menu. The music player, often just a quick add-on to a satellite receiver, is better than many.

Files can be renamed and moved around, folders created and favourites marked. Pictures, video and the receiver's own recordings can have the same treatment. It's a let-down though that all of the AVI files I tried to play appeared with a black screen with only the sound playing.



Expert Opinion

- + super fast blind-scan finds all channels
- + includes all functions including high-definition

- + a well thought-out media player is included
- + recordings are saved in .ts format

- country selection for DVB-T seems out of date

- the Find button does not make use of the remote control's keypad



Andy Middleton
TELE-satellite
Test Center
UK

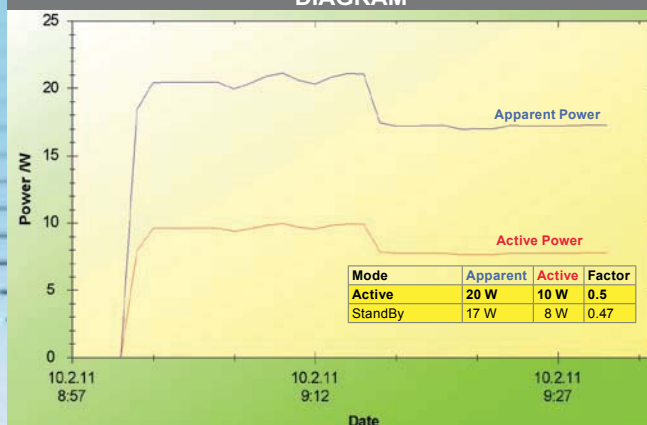
Skyworth have done well to include both satellite and terrestrial tuners and recording capabilities into such a small package. Despite appearing to be quite a basic receiver, most functions needed to receive TV, including high-definition are here. The media player is well thought-out, a good

example of "simple is best". With the small issues of the sometimes silent audio with AC-3 soundtracks and the apparent inability to correctly play AVI files aside, the ALI-HD fulfils its role as a receiver with a good set of basic functions that are kept simple and all fitted inside a small-sized box.

TECHNICAL DATA

Distributor	Skyworth Overseas Ltd, Unit 1601-4 Westland Centre, 20 Westland Road, Quarry Bay, Hong Kong
Tel	+852 23180500
Contact	sales@skyworth.com
Website	www.skyworth.com.hk
Model	ALI-HD
Function	Combo Receiver for DVB-S and DVB-T
SCPC compatible	Yes
USALS	Yes
DiSEqC	1.0/1.1/1.2/1.3
Scart connectors	1
Audio outputs	2 (left & right)
Video outputs	Composite, Component, HDMI
Resolutions	480i, 480p, 576i, 576p, 720p, 1080i
UHF output	No (output is for loop-through only)
0/12 volt output	No
Digital audio output	S/PDIF
EPG	Yes
C/Ku-band compatible	Yes
Power supply	175-240V AC
Common interface	1 PCMCIA
Card slots	0
Silicon Tuner	Yes
Dimensions	260x210x40mm

ENERGY DIAGRAM



AB IPBox 55HD ENIGMA COMBO

CUSTOMIZE YOUR BOX:

BODY: **White**

FRONT PANEL: **Black**

FLOWERS: **No**

ENIGMA: **1HD / 2HD**



AB IPBox 55HD

Enigma 1HD + Enigma 2HD

Custom color theme receiver

High End Linux model for the best price

Stability and new functions

The best choice for everyone converting from Enigma SD to HD



ADVANTAGES OF **ENIGMA 1HD**

- + twice as fast start as with Enigma 2 HD receiver
- + switching between systems in 9 secs
- + well known OS system of older AB IPBox series, now even with HD support
- + integrated webinterface
- + stable proven software with a great user base

ADVANTAGES OF **ENIGMA 2HD**

- + new GUI (Graphic User Interface)
- + higher settings variability
- + linux software used in all High End models
- + watching two programs of one transponder in real time (PIP)

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Fulan ST7111

Linux Receiver with its Own Online Platform for the Operational Software



• ***A product is only as good as the support provided by the manufacturer. The company Fulan has been in the electronics business for the past 12 years and has really taken this wisdom to heart. They developed their own online platform for their Linux-based receivers with the "Spark" operating system so that they can directly reach out to their end-users and provide support in numerous ways while the receivers are in normal operation.***

Fulan is offering this infrastructure and software to other receiver manufacturers so that in the future we'll see more and more receivers that are made using Fulan's "Spark" operating system and its built-in online platform.

When the long-awaited package arrived from Shenzhen, China, everyone in the lab took a break from their work – they all wanted to get a glimpse of this new Fulan receiver. We noticed right away that at 22x16x4 cm it was comparatively small and easy to handle.

The front side of the new Fulan ST7111 is made entirely of a mirrored flap. The

segmented display along with two LEDs are visible in the middle through this flap. Opening the flap reveals seven buttons that can be used to operate the receiver if the remote control mysteriously disappears plus there's also a Conax card reader.

This receiver is available in three different models (DVB-S2, DVB-C and DVB-T) and represents only a portion of Fulan's extensive product portfolio. For our tests we used the DVB-S2 version of the ST7111.

The rear panel of the Fulan receiver is nicely set up. In addition to the typical tuner input and looped-through output, you'll also find an

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Available online starting from 1 April 2011

HDMI output, a digital audio output, three RCA jacks for composite video and stereo audio outputs, a USB 2.0 interface for linking with an external hard drive or USB stick, an RJ 45 network interface, a main power switch as well as an RS232 serial interface.

The RS232 interface is really no longer needed given that there are so many other ways to connect to this receiver. The days of using this type of an interface for software or channel list updates via a null modem link to a PC are for the most part over. We especially liked that Fulan is one of the first receiver manufacturers to do away with Scart jacks. Scart jacks are totally unsuitable for HDTV.

We were also quite happy with the included remote

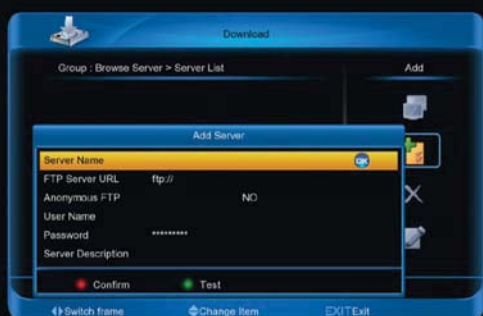
control for several reasons: first of all, it sits comfortably and ergonomically in your hand, second, all of the buttons are nicely organized, legible and have the perfect "feel" to them when pressed. Fulan also, with this remote control, addressed a particular problem, one that we've seen here in our test labs as well as received numerous e-mails about; one that's very irritating to end users: if you happen to have more than one device from a single manufacturer, there's a good chance that one of the remote controls will have the unwanted effect of operating all of the devices.

The blame for this lies with the desire to save money but often a manufacturer's sloppiness is also at fault in that they are unwilling to assign different remote control codes to all of their receivers. Only in this way can one single remote control be included with every receiver model without any large expense. Fulan is handling it differently: they have shown



FULAN

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how it's possible to elegantly circumvent this problem. Their remote control can switch between device 1 and device 2; this can be accomplished with the push of a single button.

The LED for the standby button indicates which device is currently selected: for receiver 1 the LED lights up green for every push of a button and for receiver 2 it lights up red. From the receiver side, a dedicated menu entry lets you switch between receiver 1 and 2 and thereby handle the necessary programming steps.

The manufacturer also included a button on the remote control that can be used to completely deactivate an attached USB device. A push of this button halts all read/write activities to this device and for hard drives moves the read/write heads to a neutral position and shuts off power.

The user manual that came with our test package was at this point in time only in English but with the expansion of the Spark platform other language versions will undoubtedly become available.

Taking the cover off of the receiver reveals a 450 MHz main processor, 8GB NOR Flash, 512MB NAND Flash as well as two 128MB DDR SDRAM memory modules. The power supply also left us with a very positive impression.

Fulan's receivers come with two different operating

systems that can be selected with the Dual Boot Function. For this test report we will be concentrating on their home-grown Spark software and its associated online platform.

Fulan has named its standard receiver operating system Spark and when we turned it on for the first time we immediately noticed with the installation assistant the attention to detail that was put into the development of this software. In six steps the installation assistant guides the user through all of the setup steps of their new receiver. It comes with the following points: language, time settings (the receiver operates with a real time clock), network, video output, PIN code as well as a variety of other basic settings. The P+ and P- buttons on the remote control allow you to easily switch back and forth between the six different steps making it very easy to go back and make any corrections.

The Spark software's main menu is also very nicely organized and logically laid out. We were actually very impressed with the overall layout of the OSD (on-screen display). It is very easy to use and you can communicate with the OSD in English, German, Russian, Spanish, Italian, Portuguese, Turkish, Polish, Greek, Finnish, Swedish, Farsi, French, Czech, Slovakian, Danish, Hungarian, Persian, Ukrainian, Romanian, Kurdish, Bosnian, Croatian, Bulgarian, Indonesian, Slovenian, Hebrew, Lithuanian and Serbian.

1. Adding an FTP server for downloading software, plug-ins and channel lists
2. Adding a transponder
3. Automatic channel scan of HOTBIRD at 13° east
4. Backing up the entire system on an external storage device
5. The ST7111 channel list

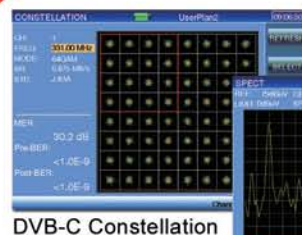
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- Fast spectrum analysis
- DSP Technology to support different Video decoding: MPEG-2, MPEG-4 and H.264
- Support SD&HD
- CAM module (Conditional Access) for encrypted channels
- TS-ASI input and output
- IPTV analysis option
- HDMI, LAN and USB interface
- Easy to use
- High resolution 7" TFT LCD
- L240×H170×D100, light weight.
- working time >4 hours (battery)



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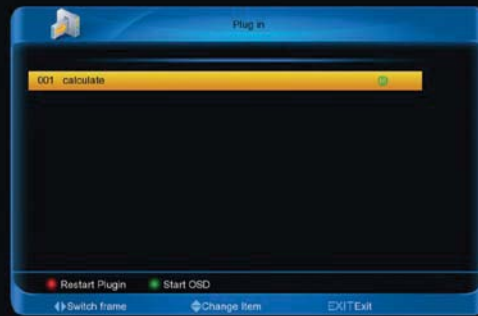
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6. A multitude of DiSEqC settings are available for each satellite entry

7. Editing the Favorites list

8. EPG for a channel

9. Channels can be found in the channel list using the first letters in the channel name

10. The integrated image viewer properly displays digital photos

11. An Info bar appears momentarily after changing channels

12. The ST7111 main menu

13. Display showing the available MP3 titles

14. Network settings

15. Overview of currently installed plug-ins

16. Overview of recorded programs

17. RSS feeds can easily be displayed over the receiver's OSD

18. The list of preprogrammed satellites

19. Manual transponder scan

20. FAQ's via the Spark online platform

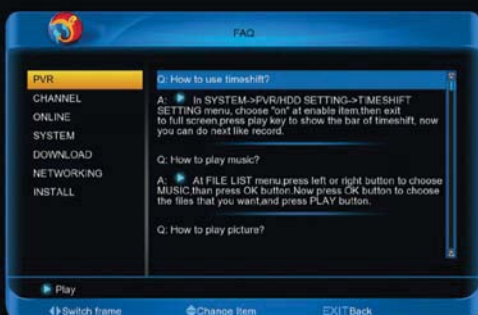
21. News reception via the Spark online platform

22. Fulan has provided a practical online platform for its customers via Spark online

19

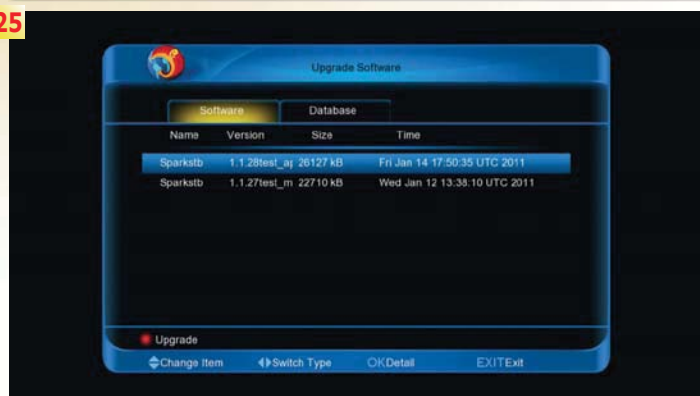


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The system settings can be used to adjust a variety of parameters, such as the resolution of the HDMI video signal, the display of 4:3 signals on a 16:9 TV and of course a variety of on-screen display settings. We can't forget to mention that this receiver is fully HD compatible in that it can provide an output signal in 1080p and is therefore perfectly prepared for the future.

The list of preprogrammed satellites and transponders includes the more important European and Asian satellites but there are also a few American satellites that have found their way into this list. An interesting highlight is the display of the satellite positions on a world map directly in the settings menu. This lets you get a visual idea of where the satellites are located over the equator.

Since this new Fulan receiver supports DiSEqC 1.0, 1.1, 1.2 and 1.3, it can be used with the simplest of antennas as well as with more complex multifeed dishes that can carry up to 16 LNBs. Of course, it can also be used with DiSEqC motors. Thanks

to all of the preprogrammed LOF values, signals in both the Ku-band and C-band can be received; there are even other LOF values for use with other frequency ranges.

If you want to use this receiver with an SCR single-cable solution, Fulan didn't forget about you either; the new receiver also supports these protocols. Especially interesting is the automatic DiSEqC recognition. The receiver uses this feature together with the preprogrammed satellite list to try and automatically recognize which signals are connected to what DiSEqC multiswitch port.

Fulan has designed a visually appealing and nicely organized satellite and transponder editor. The same can also be said for the automatic and manual channel scan. The corresponding settings and parameters can all be accessed via a central menu that has all the necessary functions.

As you would expect with a high-valued product, the ST7111 supports not only an automatic channel scan for

23. The technical parameters of a channel

24. Setting up timer entries

25. New software and channel lists can be downloaded from the Internet via the Spark online platform

26. Data transfer speed test via USB



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HDTV DVB-S2 Linux Based Digital Satellite Receiver CAS + LAN + USB PVR

Technical Specifications

MPEG Decoding
Transport Stream & Profile Level MPEG-4/H.264,
MPEG-2 MP@ML, MP@HL,
MPEG-4/AVC
Aspect Ratio 4:3 / 16:9
Output NTSC / PAL
Video Format 576i, 576p, 720p, 1080i

TUNER

Input frequency: 950MHz to 2150MHz
Input impedance: 75 ohms
Input level: -65dBm to -25dBm
Input socket: F type connector
LNB Power & Polarization: Horizontal: +18V;
Vertical: +13V;
Current: Max. 500mA; Short circuit protection
Band switch: 22KHz, DiSEqC

DEMODULATOR

Waveform: QPSK S2
Symbol rate: 2-45MS/s
Outer decoder: RS (204,188,8)
Code rate: 1/2, 2/3, 3/4, 5/6, 7/8

MAIN SYSTEM

CPU NXP8735 350Mhz
Flash Memory 64 Mbytes
SDram Memory 128 Mbytes

CONNECTION OUTPUT

TV SCART TV Video output (CVBS, RGB)
HDMI HD Video/Audio
Ethernet RJ45
A/V RCA CVBS
Digital Audio S/PDIF Digital Audio output RCA and
Fiber Optical

GENERAL

Supply voltage: 100-240VAC 50/60Hz
Power consumption: 20watts max.
Standby Power 3watts max.
Operation temperature: +5° to +40°
Storage temperature: -20° to +70°

Key Features

Based on NXP 8735E chipset
Ethernet function: YOUTUBE; INTERNET RADIO;
Linux Based !!!
Multi CAS Reader
1 Record 1 to watch in the same TP.
Full Media Player to support .AVI, .MKV, .MP4, .VOB, .MPG, .FLV, .wmv etc...
USB 2.0 PVR -- Record and play HDTV content
Real Timeshift -- do not miss any exciting moments.
Update software through USB interface.
Low Power --- 3 Watts
Support USB stick and Hard Drive Disk
Support WIFI dongle

Features

DVB-S/DVB-S2 Satellite Compliant (MPEG-II/ MPEG-IV/ H.264)
DiSEqC 1.0, 1.1, 1.2 & 1.3 (USALS) Compatible
SCPC & MCPC Receivable from C/Ku Band Satellites LNB Supported:
Variable Aspect Ratio (4:3, 16:9) with Pan Vector or Letter Box
Output Resolution: 576p & 576i, 720p & 1080i
CAS reader
8 Favorite Group and Parent Lock Function
4 Kinds of Sort Function for Channels
On-screen Display with True full Color (32 bits) Resolution
Teletext and Subtitle Supported (OSD & VBI)
Blind Scan
7 days EPG (Electronic Program Guide) for On-Screen Channel Information
1 Scart, (RGB, CVBS)
Multi Language Menu
Supported FTP Download S/W, Channel List, Message and other additional
information.
OTA Download
Supported Unicable
8 favorite group and parental lock supported.
PIG-Small screen picture and zoom in function.
Supported setting timer, you can add up 8 timer event at most.
Multi-Picture supported
S/W download, upload and download channel data
backup channel list and restore channel list
Supported JPEG, bmp format.

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7 day
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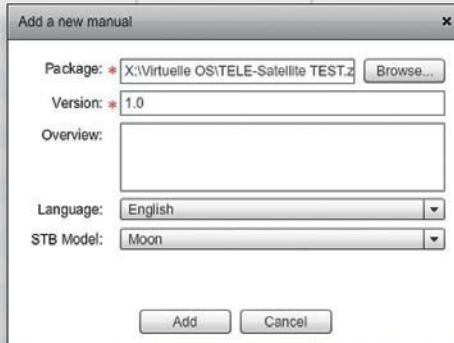
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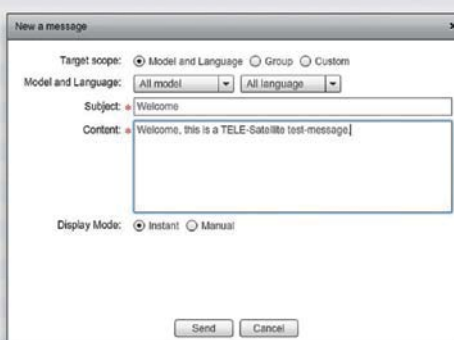
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one or more satellites, but also a manual transponder scan that includes individual PID entries. Of course, DVB-S2 compatibility is automatically understood with an HDTV receiver; the ST7111 was no exception: it handled DVB-S transponders as well as DVB-S2 transponders in MPEG-4.

The Fulan receiver is basically a fast receiver; this can also be seen in its channel scan speed. A scan of HOT-BIRD at 13° east required just about five minutes to complete and managed to find 1849 TV channels and 570 radio channels. We also weren't disappointed with the tuner in our SCPC test: it was able to correctly process a 12.620 GHz transponder on EUTELSAT W7 at 36° east with a symbolrate of just 2.894 Ms/sec.

Since the channel list can be filled with an endless number of channels, it would make sense to organize the list before the receiver is put into normal, everyday service. The Fulan ST7111 comes with an easy to use channel list editor that lets you move, delete, rename or lockout channels with a PIN code. Thanks to the numerous Favorites lists, more popular channels can be shifted there so that they can be accessed more quickly at a later time.

After we began testing the new Fulan receiver for a few days, it became clear that the channel list display is an especially practical feature. It is divided into three columns. While Favorites, satellite, provider or encryp-

tion can be selected in the left column, the middle column contains the individual PID entries. Of course, DVB-S2 compatibility is automatically understood with an HDTV receiver; the ST7111 was no exception: it handled DVB-S transponders as well as DVB-S2 transponders in MPEG-4.

The EPG itself is nicely organized and is available in two different modes: the first mode displays ten channels at the same time with information on the current or subsequent program. The second mode provides a general overview of a channel up to seven days in advance. To round it all off, timer entries can be handled directly from the EPG.

Since this is also a PVR receiver, you can not only record programming on an external storage device, but you can also take advantage of the time shift function which will let you pause a program if you have to walk away from your TV and then continue watching it from the point you paused it when you return. If the data transfer rate of the storage medium you use is fast enough, you can use the time shift function at the same time an HD channel is being recorded. The term "fast enough" isn't very specific; for that reason Fulan included a data transfer speed test that measures the speed of a data transmission and displays it graphically and at the same time indicates if it's possible to time shift and record an HD channel at the same time.

Because an external stor-

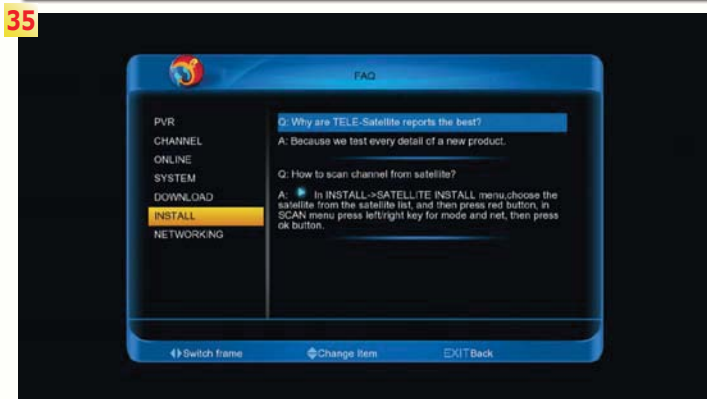
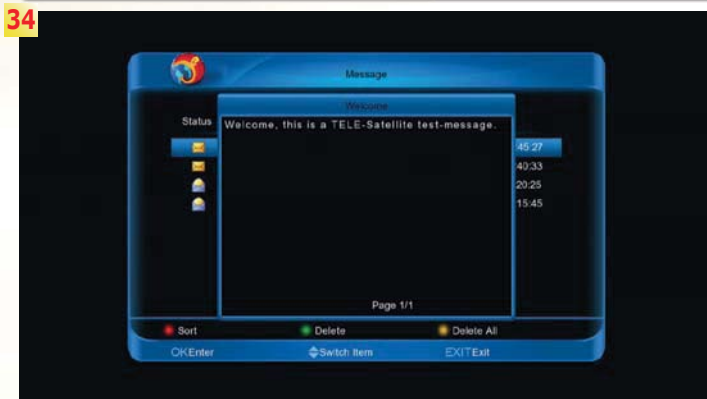
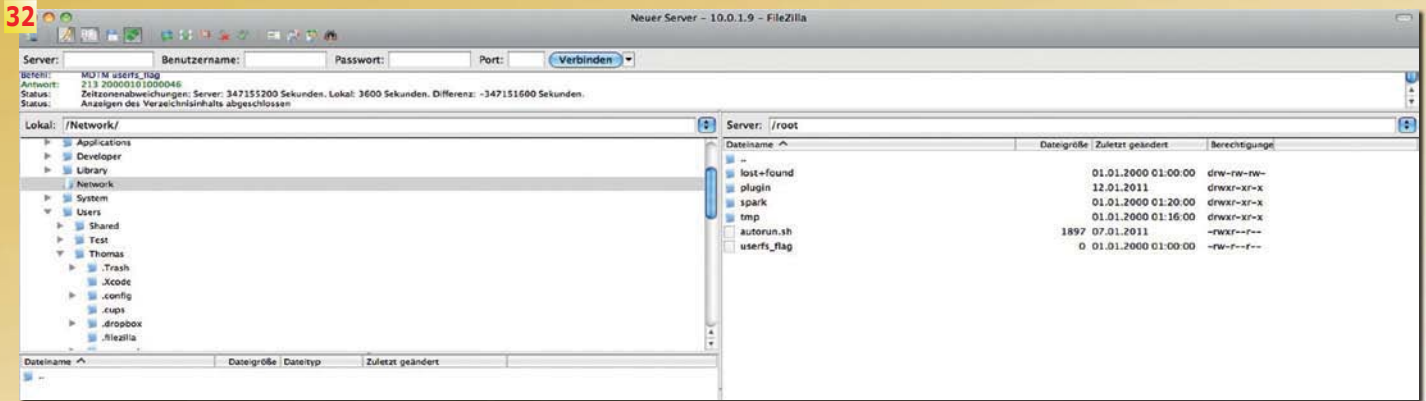
27. Internet login to access the Spark online platform

28. Accessing a new user manual

29. Adding a new question/answer

30. Sending a news update to a few end users or all of them

31. Editing account information



age device is used, any recordings are immediately available on a PC for further processing such as burning a DVD. There's no time-consuming data transfer via USB or FTP.

Our overall positive impression of the ST7111 was further amplified by the ability to partition and for-

mat external storage media directly from the receiver. Additionally, the extended recording time, the standard recording time as well as the time shift cache memory can be set as desired.

As a precautionary measure, the channel list settings and plug-ins can be backed up on an external

32. Thanks to FTP access, plug-ins can also be downloaded to the receiver via a PC

33. Explanation in the online user manual of the automatic DiSEqC recognition feature

34. Our Spark-online-created news update appears on the receiver

35. Our Spark-online-created question/answer appears in the FAQ's of the receiver

storage device so that if the receiver ever has a problem, the settings become corrupted or if you accidentally deleted some channels from the channel list, it can all be immediately restored.

But wait, there's more. The receiver comes with a multimedia player that supports a variety of formats such as AVI, MKV, MPG, TS, WMA, WMV, M2TS, FLV, DAT, ASF and MP3. The video clips we used to test this feature were all correctly processed and played back. The MP3 jukebox didn't disappoint us either, nor did the image viewer have any problems displaying our demo JPEG pictures.

So, if you're the proud owner of this Fulan receiver, you can use it to listen to your collection of music as well as check out your favorite pictures. External MP3 players or image viewers are not needed.

The ST7111 is very efficient when it comes to power usage: it uses only 20W while in normal operation and a mere 4W when it's in deep standby. If you want the Fulan receiver to be able to instantly wake up from standby, it would need to use

about as much power as if it were in normal operation.

YouTube, Shoutcast, Picasa oder RSS Feeds are services that Internet users would unlikely want to do without these days. Since Fulan included a network interface in its receiver, the only thing needed to be done would have been to incorporate these services in the receiver.

And that's exactly what Fulan did. Now you can view video clips via YouTube or listen to radio stations via Shoutcast. You can also view your friend's latest pictures via Picasa. Thanks to RSS feeds, you can always keep yourself up to date with current events. If you're watching TV and there's a long commercial break, you can take a quick look and see what's going on in the world.

Despite all of these network features, the Fulan engineers were still not satisfied. They took it to an entirely new level and incorporated a few other specialties. This included the expansion of the software to allow plug-ins (small software packets that enhance the function of the receiver in specific areas) and the Spark

online server. A calculator plug-in was included in our test model although for developers the sky's the limit.

With the Spark online server, Fulan is attempting to create a direct communication link between the receiver manufacturer and the end user. This would allow, for example, receiver news to be sent to the user; it could also be used to make available user manuals, FAQ's and other information. It could also be used to access the end users local weather data as well as other useful information. Even software updates and new channel lists could be made available to the customer.

Fulan is demonstrating with its own devices how it

would all work but it opens up possibilities for third-party providers who are also using this platform. In our tests we liked the FAQ section; it contains the answers to numerous questions posed by other end users and all of this was handled directly on the receiver without having to refer to the user manual! And while we're talking about the user manual, it is also available online in one of the selectable folders. If you have any questions regarding the operation of the receiver, you no longer need to get up from your comfortable couch to get an answer.

Since Fulan is making the Spark software available to other receiver manufacturers, they would be able to fully control the Spark online

server via the Internet as a licensed user.

For this Fulan uses AIR (Adobe Integrated Runtime) as the system's central switching point; it's an extension available for all the popular web browsers such as Internet Explorer, Firefox, Safari, etc. With just a few mouse clicks and the entry of the correct access data, new questions and answers can be added to the system, new software can easily be made available, even receiver news can be sent to you.

In our tests it was the easy, organized operation of the system that stood out for us and as you can see with the pictures that accompany this test report, we

were easily able to access all of the functions through the test account that was set up for us by Fulan.

The Fulan ST7111 also comes with the ability to boot the system using Enigma 2 instead of the manufacturer's own Spark software. Simply hold down the OK button while turning the receiver on and the option to choose which operating software to use will be displayed.

We enjoyed using the Spark software during our tests. It was stable in its performance, operated with a large assortment of features and can be expanded with plug-ins. It worked perfectly with the built-in tuner in such a way that fast channel scans as well as problem-



Expert Opinion

+

Stable software with a large assortment of features

Very fast channel scan

Outstanding video and audio quality

Speedy channel surfing

Exceptional customer service thanks to the online platform of their home-made Spark software which is also available to third parties



Thomas Haring
TELE-satellite
Test Center
Austria

The alternative Enigma 2 software will allow multiple recordings at the same time, a feature that is not yet available with the Spark software

free SCPC reception were both possible.

The video and audio quality of this receiver are outstanding and even channel surfing was fun with its channel switching time of roughly one second.

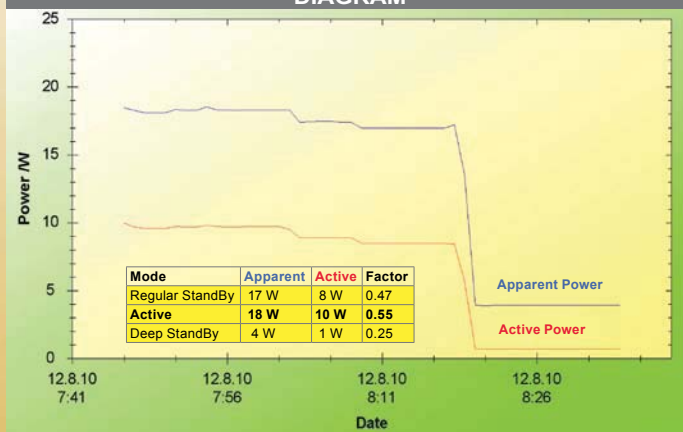
Fulan, with its Spark online platform, has taken a very big step in the direction of customer service; it offers user manuals, FAQ's, software updates as well as news updates sent directly to the end user.



TECHNICAL DATA

Manufacturer	Fulan, 3/F, A1 Block, Cyber-Tech Zone Gaoxin AVE.7.S, Hi-Tech Industrial Park, Nanshan District, Shenzhen/China
Tel.	+86-755-86153611
E-Mail	litt@fulan-soft.com
Model	ST7111
Function	Digital HDTV DVB-S receiver with various Multimedia & Internet Features, including Dual-Boot and Spark online-platform
Channel Memory	unlimited
Symbolrate	2-45 Ms/sec.
SCPC compatible	yes
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
USALS	yes
HDMI Output	yes
Scart Connector	no
Audio/Video Outputs	3x RCA
Component Video Output	no
S-Video Output	no
UHF Modulator	no
0/12 Volt Connector	no
Digital Audio Output	yes
EPG	yes
C/Ku-Band compatible	yes
PVR-Function	yes
USB 2.0 Connector	yes
Ethernet	yes
Silicon Tuner	yes
E-SATA	no

ENERGY DIAGRAM



First 15 minutes: Active operation with recording, playback and channel switching

Next 15 minutes: Standby mode

Third 15 minutes: Deep standby mode with very little power usage

FULAN

SmartWi II

A Clever Solution for PayTV Reception in Multiple Rooms

• *PayTV providers typically give you only one SmartCard per subscription yet in most households this is simply not enough. In addition to the typical receiver in the living room, these days you could also find one in the bedroom, the kid's room and even in the kitchen.*



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Windows 7 Media Center, DVBDream, DVBViewer, DVBlogic, ProgDVB, AltDVB, Skynet, TSreader supported.
3. Linux driver for all kernels; MythTV, VDR, XBMC supported.



DVB-S2



PCIe DVB-S2 TV Tuner card (TBS 6921)

1. DVB-S2/S Transponders Receiving.
2. Transponders blind scan.
3. Low profile size.



PCIe DVB-S2 TV Tuner card (TBS 6925)

1. CCM, VCM, ACM and Multi Input Stream mode supported.
2. 8PSK/QPSK/16APSK/32APSK mode.



PCIe DVB-S2 Dual Tuner card (TBS 6981)

1. Dual DVB-S2/S Receiving.
2. Windows 7 Media Center, Linux driver supported.
3. Low profile size.



USB DVB-S2 CI BOX (TBS 5981)

1. DVB-S2/S Transponders Receiving.
2. CI supported.
3. USB 2.0 interface.

DVB-C



USB DVB-C stick

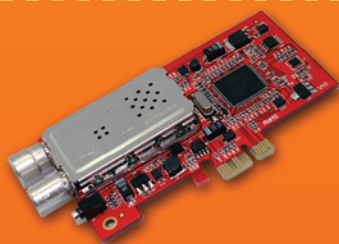
1. DVB-C Frequencies Receiving.
2. 16, 32, 64, 128 and 256 QAM supported.
3. USB 2.0 interface.



USB DVB-C CI BOX

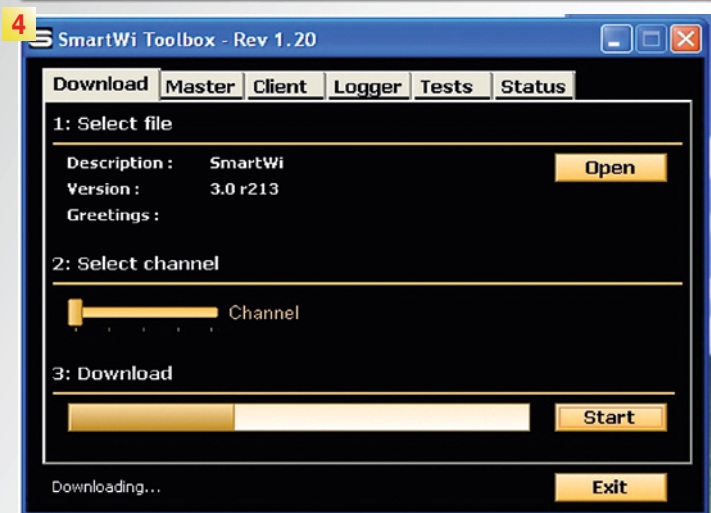
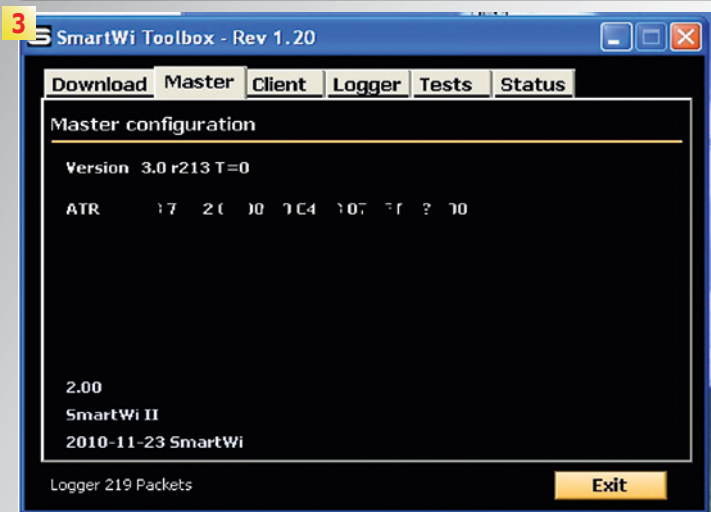
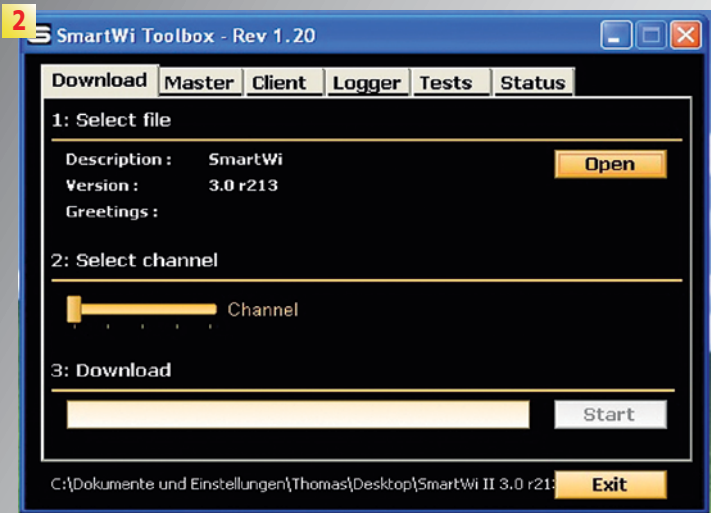
1. DVB-C Frequencies Receiving.
2. 16, 32, 64, 128 and 256 QAM supported.
3. CI supported.
4. USB 2.0 interface.

DVB-T2



PCIe DVB-T2/T/C TV Tuner card

1. Receiving system: DVB-T2/DVB-T/DVB-C.
2. Low profile size.



Before the appearance of HDTV, the signal from a PayTV receiver could easily be distributed throughout the house or apartment, either via coax cable from the built-in modulator or, for example, via a transmitter that can take an audio/video signal and transmit it in very good quality with a range of roughly 30-50 meters. But all of these solutions only work with SDTV; with HDTV it's a different story. The problem is that the high-resolution HDTV content can't be carried by these kinds of analog transmission systems.

If you want to watch HD-quality PayTV in your home on more than one TV, you might have a big problem. A few PayTV providers allow for the addition of a second or even third subscription for an end-user but this option is not especially interesting either because of some technical limitations such as connecting each receiver to a telephone line or because the added costs would be too high.

So, what's the alternative? The answer is a clever solution by the Danish company SmartWi: the wireless card splitter.

The idea behind a card splitter is actually quite simple: since most PayTV providers only supply their customers with one card, this card would simply be inserted in a card reader unit (master station) the contents of which would then be forwarded wirelessly to multiple reception cards

that would ultimately end up in the receivers. Hence the name SmartWi: which stands for 'SMART' card and 'Wi'less'.

The SmartWi system is set up for a maximum of five reception cards that are mated with the master station for security reasons. Therefore, a card that doesn't belong to the system will not work with the system. Only those cards that were physically linked with the master station will be able to decode the signals. The entire transmission process is encrypted.

To decode a radio or TV channel, the receiver needs a valid decryption key which can be found on the SmartCard that comes from the provider. This key is accessed every ten seconds; if the key is valid, the channel is decrypted, if not, the TV screen remains dark. The SmartWi system does nothing more than take these key requests that appear every ten seconds at the SmartWi cards inserted in the receivers and transmits them wirelessly to the master station.

The master station then reads the correct key from the original SmartCard and sends the reply back to the reception cards so that the receiver can continue to decrypt the channel.

The SmartWi system operates in the 868 MHz band which is not as congested and interference-prone as the 2.4 GHz range would be and is therefore more reliable. The transmission range

1. The SmartWi box should be connected to the PC only after the software installation
2. SmartWi toolbox for configuration and updating the master station
3. Detailed information on the SmartCard in use
4. Transferring new software to the master station

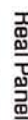
Serve the World Inspire the Future

DVB-S2



- Fully compliant with DVB-S and DVB-S2 (MPEG 2/ MPEG 4 / H.264)
- Common Interface Plus (CI+) available
- Optional smart card slot for embedded CA support
- Full HD output in 720p, 1080i, 1080p
- Up to two USB 2.0 available for software update and PVR
- Build-in 10/100M Ethernet MAC
- Multimedia functions: plays back files in MKV, AVI, MP4, TS, MPG, JPG, MP3 and etc.
- Timeshift supported with external hard drive disc
- CEC (Consumer Electronic Control) and Unicable supported
- Parental control, teletext and subtitle supported

- Multilingual Menu OSD supported
- Extension to ISDB-T, DVB-T, DVB-C HD Optional
- CE & RoHS, LPC, EuP, FCC Compliant



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Online Sat-finder



Display Size

26"

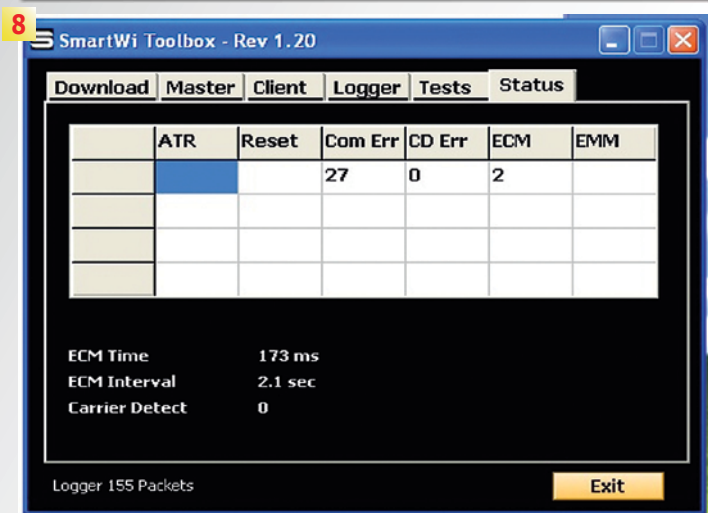
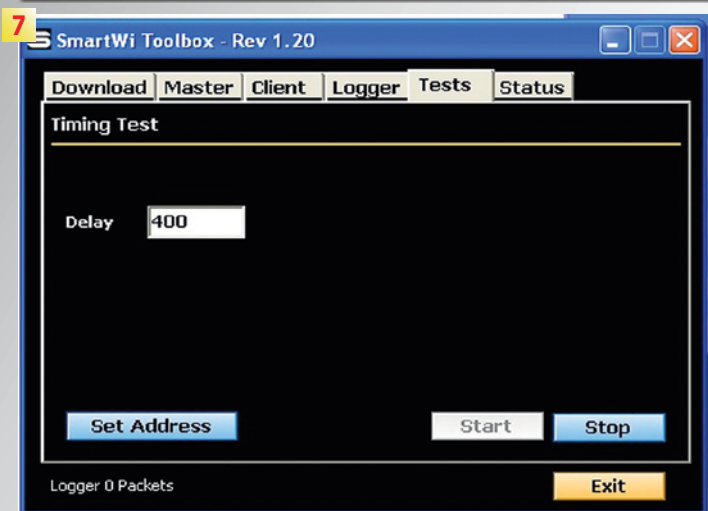
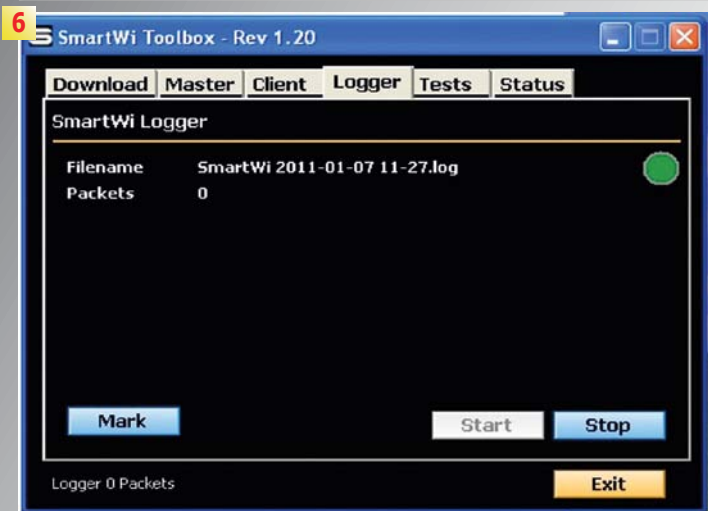
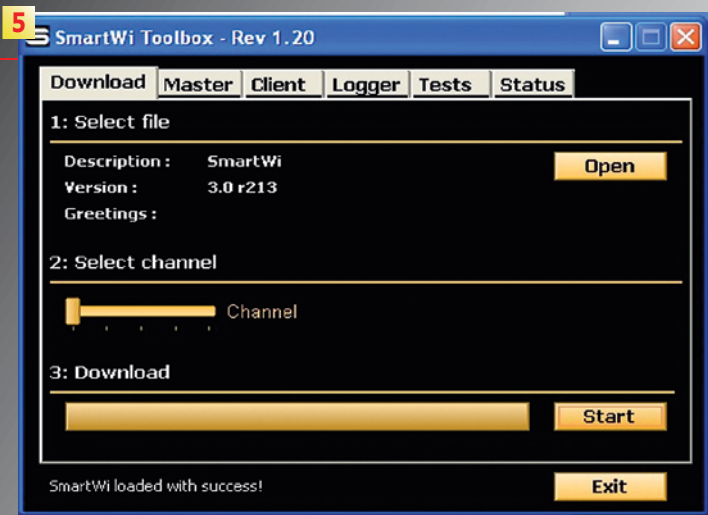
32"

42"

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in enclosed rooms is around 15 meters which should be good enough for most homes and larger apartments. Walls should not hinder the signal at all unless they happen to be outside walls covered in aluminum siding on the exterior; that could lead to problems.

The SmartWi system won't let you watch PayTV without paying for it nor will it allow a large number of people to access the PayTV content. All of this is guaranteed by the pairing of the reception cards with the master station as well as the limited range of roughly 15 meters. Additionally, SmartWi strictly adheres to the ISO 7816 standard that is associated with the technology used.

According to the manufacturer, the SmartWi system supports the Seca Mediaguard 1&2, Viaccess 1, 2 &3, Cryptoworks, B-CAS as well as the Conax and Irdeto encryption systems. The latter two encryption systems will only work as long as the SmartCard and receiver aren't logically linked together through the serial number. Also not supported is any encryption system in which a SmartCard is not used, in other words, a system where the provider accesses the receiver directly. Nagravision and Videoguard are also not compatible with the SmartWi system.

SmartWi has given its newest product an elegant new look. At 90x56x23mm the master box is rather slim and comes with three LEDs

(green, red, orange) on the front side as well as a micro USB port on the rear panel.

The black finish on the box allows it to fit in nicely with any TV setup. The original PayTV card from the provider disappears conveniently into a port on the underside of the box. Although this port is fitted with slots for two cards, only one of them can be used; the other is internally blocked. Because of this, the SmartWi card splitter can't be used with two different PayTV cards at the same time. This feature will become available in subsequent versions.

The package includes two reception cards (up to three additional cards can be purchased separately), a USB cable for connection to a PC and a power supply.

Operating the SmartWi system is so simple that the user manual supplied by the manufacturer consists of just a single page; it includes all the necessary steps to put the card splitter into operation.

Of course, the very first step would be to insert the original PayTV card into the card reader slot. After just a few seconds, the orange LED begins to blink signaling that the system is reading the card and setting itself up for the proper encryption system. The green LED shows the current operational status while the red LED would indicate a problem.

When the orange LED goes

5. The software update was successful

6. The Logger function provides valuable error information to SmartWi support

7. A variety of test functions are also available to the support team

8. Communication status between the master station and the reception cards

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out, the original PayTV card from the provider can be removed after which the reception cards can be inserted one after the other into the master station. The orange LED will once again blink for a few seconds while the reception cards are linked with the master station and prepared for use with the provider's encryption system.

Once the reception cards are set up, the original PayTV card is reinserted into the master station while the reception cards make their way to the receivers. Unfortunately, the reception cards, with their on-board electronics, are larger than normal cards and therefore will stick out from the CI slot or card reader preventing in most cases the flap on the receiver from being closed. SmartWi is working on smaller versions of the reception cards that would then allow these flaps to be closed.

For our tests we used three receivers that we had lying around. We inserted reception cards into the CI slots or card reader slots of these three receivers and began surfing through the PayTV channels. The first encryption system we tested was an ORF Cryptoworks card. After that came an SRG Vi-access card followed by a SECA card.

No matter how hard we put each of the three cards to the test, we could not disturb the SmartWi system

and all of the channels that we tested were promptly and correctly decrypted regardless if the channels were SD or HD. And the type of signal (DVB-S/2, DVB-T/2 or DVB-C) didn't matter to the SmartWi system; it only transmits the necessary key from the master station to the reception cards and leaves the DVB signal itself undisturbed.

Since there were misunderstandings in the past, we want to make it clear once again: the SmartWi system only transmits the necessary keys for PayTV decryption to the reception cards; it does not provide each individual receiver with the actual TV signal (DVB-S/2, DVB-T/2 or DVB-C). The signal itself still comes from an antenna or via coax cable and must be separately routed to each individual receiver by the end user.

Each of the encryption types supported by the SmartWi system are in principal very similar but there are slight differences and because of this it is necessary for the master station to know ahead of time what encryption system will be used and what information is available on the original PayTV card. Therefore, before the reception cards are programmed, the original PayTV card from the provider needs to first be inserted in the transmitting station. Also note that if a different encryption system comes into play or if a new original PayTV card needs to be used, the entire programming process would have to be repeated.

In other words, it's not possible to first set up the master station and the re-

1. Front of the SmartWi II with three control LEDs
2. SmartWi Client Cards
3. Smartcard slots on the base of the unit
4. USB power connection
5. The SmartWi gets its power via USB, either connected to a PC or to the power supply, which comes with the unit

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



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



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Polish	Polski	www.TELE-satellite.com/TELE-satellite-1011/pol/netup.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-1011/por/netup.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-1011/rus/netup.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1011/tur/netup.pdf



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



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www.TELE-satellite.com/...

Read Indepth Review of This Product Directly on the Internet:

Arabic	العربية	www.TELE-satellite.com/TELE-satellite-1009/ara/azbox.pdf
Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-1009/bid/azbox.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-1009/deu/azbox.pdf
English	English	www.TELE-satellite.com/TELE-satellite-1009/eng/azbox.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-1009/esp/azbox.pdf
French	Français	www.TELE-satellite.com/TELE-satellite-1009/tra/azbox.pdf
Hebrew	עברית	www.TELE-satellite.com/TELE-satellite-1009/heb/azbox.pdf
Chinese	中文	www.TELE-satellite.com/TELE-satellite-1009/man/azbox.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-1009/pol/azbox.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-1009/por/azbox.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-1009/rus/azbox.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1009/tur/azbox.pdf





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No. 3 PingGong One RD, Technology Industrial Zone, NANTING Town, Zhuhai, China
Tel: +86-756-8699310 Fax: +86-756-8699312
Mobile: +86-13823060786
E-mail: sales@boiingsat.com
Attn: Joseph

TAIWAN & MACAU Office address:
RUA TRIBUNA 118A CHUNPEK GARDEN RCA Macau
Tel: +853-439694 Fax: +853-438633
E-mail: jason@boiingsat.com & jason975219@gmail.com
Mobile: +86-13703006026 & +886-983210314
Attn: Jason

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<http://www.boiingsat.com/>

AWARD WINNING

**DIGITAL
RECEIVERS OF
21ST CENTURY**





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



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

Read Indepth Review of This Product Directly on the Internet:

Arabic	العربية	www.TELE-satellite.com/TELE-satellite-1105/ara/amiko.pdf
Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-1105/bid/amiko.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-1105/deu/amiko.pdf
English	English	www.TELE-satellite.com/TELE-satellite-1105/eng/amiko.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-1105/esp/amiko.pdf
French	Français	www.TELE-satellite.com/TELE-satellite-1105/fra/amiko.pdf
Hebrew	עברית	www.TELE-satellite.com/TELE-satellite-1105/heb/amiko.pdf
Chinese	中文	www.TELE-satellite.com/TELE-satellite-1105/man/amiko.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-1105/pol/amiko.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-1105/por/amiko.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-1105/rus/amiko.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1105/tur/amiko.pdf



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



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Arabic	العربية	www.TELE-satellite.com/TELE-satellite-1105/ara/abipbox.pdf
Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-1105/bid/abipbox.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-1105/deu/abipbox.pdf
English	English	www.TELE-satellite.com/TELE-satellite-1105/eng/abipbox.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-1105/esp/abipbox.pdf
French	Français	www.TELE-satellite.com/TELE-satellite-1105/fra/abipbox.pdf
Hebrew	עברית	www.TELE-satellite.com/TELE-satellite-1105/heb/abipbox.pdf
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Portuguese	Português	www.TELE-satellite.com/TELE-satellite-1105/por/abipbox.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-1105/rus/abipbox.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1105/tur/abipbox.pdf



Manufacturer	Skyworth
Website	www.skyworth.com.hk
Function	Combo Receiver for DVBS2 and DVBT
DVBS2/LAN	• / •
Channel Memory	6000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

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English	English	www.TELE-satellite.com/TELE-satellite-1105/eng/skyworth.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-1105/esp/skyworth.pdf
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Chinese	中文	www.TELE-satellite.com/TELE-satellite-1105/man/skyworth.pdf
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Russian	Русский	www.TELE-satellite.com/TELE-satellite-1105/rus/skyworth.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1105/tur/skyworth.pdf



ALI-HD

TELE-satellite AWARD
 04-05/2011
Skyworth ALI-HD
 Easy to use combo receiver
 in small size with excellent blind-scan

Energy Efficiency Rating
eco friendly
0.5
 power factor
 tested by TELE-satellite

SKYWORTH



Manufacturer	Fulan
Website	www.fulansoft.com
Function	Digital HDTV Receiver with Dual-Boot and Spark online-platform
DVBS2/LAN	• / •
Channel Memory	unlimited
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	— / •

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Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-1105/bid/fulan.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-1105/deu/fulan.pdf
English	English	www.TELE-satellite.com/TELE-satellite-1105/eng/fulan.pdf
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Hebrew	עברית	www.TELE-satellite.com/TELE-satellite-1105/heb/fulan.pdf
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www.fulansoft.com

INNOVATION TELE-satellite AWARD
 04-05/2011
FULAN ST711
 Excellently designed operating software
 with built-in customer service

Energy Efficiency Rating
eco friendly
0.55
 power factor
 tested by TELE-satellite

FULAN



Manufacturer	Golden Media
Website	www.golden-media.net
Function	Digital HDTV Dual Tuner PVR Receiver with Blindscan
DVB-S2/LAN	• / •
Channel Memory	8000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

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Golden Media UNI-BOX 9080 CRCI HD PVR COMBO PLUS
 Perfect family receiver but also a top choice for the satellite DXer thanks to its high-speed BlindScan function



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German	Deutsch	www.TELE-satellite.com/TELE-satellite-1103/deu/goldenmedia.pdf
English	English	www.TELE-satellite.com/TELE-satellite-1103/eng/goldenmedia.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-1103/esp/goldenmedia.pdf
French	Français	www.TELE-satellite.com/TELE-satellite-1103/fra/goldenmedia.pdf
Hebrew	עברית	www.TELE-satellite.com/TELE-satellite-1103/heb/goldenmedia.pdf
Chinese	中文	www.TELE-satellite.com/TELE-satellite-1103/man/goldenmedia.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-1103/pol/goldenmedia.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-1103/por/goldenmedia.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-1103/rus/goldenmedia.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1103/tur/goldenmedia.pdf

GOLDEN MEDIA



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

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AB IPBOX 9900HD
 Very Powerful Satellite and Media Receiver with Endless Features



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Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-1101/bid/abipbox.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-1101/deu/abipbox.pdf
English	English	www.TELE-satellite.com/TELE-satellite-1101/eng/abipbox.pdf
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French	Français	www.TELE-satellite.com/TELE-satellite-1101/fra/abipbox.pdf
Hebrew	עברית	www.TELE-satellite.com/TELE-satellite-1101/heb/abipbox.pdf
Chinese	中文	www.TELE-satellite.com/TELE-satellite-1101/man/abipbox.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-1101/pol/abipbox.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-1101/por/abipbox.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-1101/rus/abipbox.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1101/tur/abipbox.pdf

AB IPBOX



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



JAEGER HD+ 2011
Excellent Family Friendly HDTV Receiver optimized for the HD+ Transmission Standard in Germany



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Read Indepth Review of This Product Directly on the Internet:

Arabic	العربية	www.TELE-satellite.com/TELE-satellite-1101/ara/jaeger.pdf
Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-1101/bid/jaeger.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-1101/deu/jaeger.pdf
English	English	www.TELE-satellite.com/TELE-satellite-1101/eng/jaeger.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-1101/esp/jaeger.pdf
French	Français	www.TELE-satellite.com/TELE-satellite-1101/fra/jaeger.pdf
Hebrew	עברית	www.TELE-satellite.com/TELE-satellite-1101/heb/jaeger.pdf
Chinese	中文	www.TELE-satellite.com/TELE-satellite-1101/man/jaeger.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-1101/pol/jaeger.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-1101/por/jaeger.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-1101/rus/jaeger.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1101/tur/jaeger.pdf



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



AZBOX PREMIUM HD
Perfect receiver for watching all TV channels available in South America



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Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-1101/bid/azbox.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-1101/deu/azbox.pdf
English	English	www.TELE-satellite.com/TELE-satellite-1101/eng/azbox.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-1101/esp/azbox.pdf
French	Français	www.TELE-satellite.com/TELE-satellite-1101/fra/azbox.pdf
Hebrew	עברית	www.TELE-satellite.com/TELE-satellite-1101/heb/azbox.pdf
Chinese	中文	www.TELE-satellite.com/TELE-satellite-1101/man/azbox.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-1101/pol/azbox.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-1101/por/azbox.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-1101/rus/azbox.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1101/tur/azbox.pdf



Manufacturer	ABC BIZNIS
Website	www.opensat.info
Function	Digital HD Receiver with PVR via USB
DVB2/LAN	• / •
Channel Memory	8000
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-1009/tur/opensat.pdf



Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	Digital PVR DVB-T Receiver
DVB2/LAN	— / —
Channel Memory	1000
PVR	•
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-1007/bid/jiuzhou.pdf
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Hebrew	עברית	www.TELE-satellite.com/TELE-satellite-1007/heb/jiuzhou.pdf
Chinese	中文	www.TELE-satellite.com/TELE-satellite-1007/man/jiuzhou.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-1007/pol/jiuzhou.pdf
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1007/tur/jiuzhou.pdf



Manufacturer	AZBOX
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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German	Deutsch	www.TELE-satellite.com/TELE-satellite-1005/deu/azbox.pdf
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Portuguese	Português	www.TELE-satellite.com/TELE-satellite-1005/por/azbox.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-1005/rus/azbox.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1005/tur/azbox.pdf

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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Russian	Русский	www.TELE-satellite.com/TELE-satellite-1005/rus/skyworth.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-1005/tur/skyworth.pdf





Manufacturer	AB IPBox
Website	www.abipbox.com
Function	Digital Linux-based HDTV PVR Receiver
DVBS2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



AB IPBOX 91HD
A smart choice both for DXers and
regular family usage



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English	English	www.TELE-satellite.com/TELE-satellite-0909/eng/abcom.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-0909/esp/abcom.pdf
French	Français	www.TELE-satellite.com/TELE-satellite-0909/fra/abcom.pdf
Hebrew	עברית	www.TELE-satellite.com/TELE-satellite-0909/heb/abcom.pdf
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0909/tur/abcom.pdf



Manufacturer	AB IPBox
Website	www.abipbox.com
Function	Digital Linux-based HDTV PVR Receiver for DVBS, DVBS2, DVBC and DVBT
DVBS2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



AB IPBOX 910HD
Satisfies almost everyone with its
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Manufacturer	Tenow International
Website	www.tbsdtv.com
Function	PCI-E card for SDTV and HDTV with two separate tuners and PVR
Channel Memory	unlimited
Satellite Memory	176
Symbol Rates	1-45 Ms/sec (QPSK), 10-31 Ms/sec (8PSK)
DiSEqC	1.0, 1.1, 1.2



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Manufacturer	NetUP
Website	www.netup.tv
Function	Two Tuners DVBS2 PCIe card
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Satellite Memory	—
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DiSEqC	1.0, 1.1, 1.2



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



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Boiingsat's Numerous Production Facilities

- **Three Production Locations in Zhuhai/China**

- **Large Sales Expansion in South America**

- **In the Works: LNB with Two Feed Rings**

LNB Manufacturer Boiingsat operates multiple production facilities in Zhuhai, China, a city with 1.5 million inhabitants located in western Guangdong Province. Zhuhai sits right next to Macao and slowly but surely is attracting more and more satellite component manufacturers.

But one of the first of these manufacturers was Boiingsat; it has been in exis-

tence since 1997. However it all really started in Taiwan. Hoawen Chiang, General Manager of the company who was also born in Taiwan, explains to us how it all began.

"In 1996 I was a Production Manager at an LNB manufacturer in Taiwan. But things didn't go exactly as I had planned so in 1997 I along with three investors founded Boiingsat in Zhuhai, China",



remembers Hoawen Chiang. "Two of the investors have in the meantime moved on to other things but investor, Yunnjye Qin, is still here and is in charge of Production."

The main reason for moving from Taiwan to China was obviously the costs. Wages in China are still lower than that of Taiwan. "But we still have a small R&D office in Taiwan with three engineers", says Hoawen Chiang. Thus far the technical expertise in Taiwan is somewhat more advanced than in Mainland China at least as far as high frequency LNBS are concerned.

"Back then we started with 30 employees and produced 20,000 C-band LNBS every month", he says looking back. In 2002 Boingsat started a second produc-

tion plant which they used to manufacture 240,000 C-band LNBS every month.

2004 became rather turbulent: "We sold our first production facility and then built a new one for Ku-band LNBS." Now with 500 employees, production climbed to 350,000 C-band LNBS per month and 150,000 Ku-band LNBS per month.

The next expansion step took place in 2008: "We constructed our third factory this time for production of die-cast housings." With



■ One of Boingsat's three factories in Zhuhai in southern China; soon it'll be four factories. The company's administration offices can also be found here.



this third plant, Boiingsat was in control of every aspect of production; they only needed the SMD components which they went out and purchased. In 2010 production capacity reached 500,000 C-band LNBs and just as many Ku-band LNBs. A fourth factory should begin operations in 2013 which would then raise the capacity of Ku-band LNBs to a staggering one million a month.

Of course, we want to know where all these LNBs are going to. "In the beginning, we delivered our production to Indonesia and Thailand", explains

Hoawen Chiang to us. These two countries still received the bulk of their deliveries in 2010: 40% of their production went to Indonesia and 30% to Thailand. 20% went to Brazil with 10% going to other countries like South Africa, Dubai, Russia, Singapore as well as Malaysia.

When we heard him mention Brazil, our ears perked up. "We've been delivering C-band LNBs to Brazil since 2004 but demand has recently taken a strong jump upwards", revealed Hoawen Chiang, "In fact, for 2011 we're expecting that 35% of our LNB production will be delivered to Brazil."

of Ku-band LNBs looks quite a bit different.

"Our primary market for Ku-band LNBs is the Middle East. In 2010 60% of our Ku-band LNBs were shipped to Dubai, 15% went to North Africa, 5% to South Africa with the remaining 20% going to North America, Australia and Europe." But in 2011, Jason Chiang sees these numbers shifting considerably: "The North African market will pick up quite a bit; we expect to ship 30% of our total production there, 45% will go to the Middle East, 5% to South Africa, 10% to Brazil with another 10% going to the rest of the world."

Once again Brazil is mentioned but this time in connection with Ku-band LNBs. Jason Chiang revealed a little secret: "I have good contacts in Brazil." That along with the steadily increasing demand in that South American country makes for a very attractive market.

It's common knowledge how prices for LNBs have been falling considerably and when General Manager Hoawen Chiang



■ **Haowen Chiang**
Boiingsat's founder
and General
Manager

Hoawen Chiang's son Jason Chiang also works for the company. He's currently passing through a number of stations in the company but above all he's involved in International Sales. He breaks down for us the product distribution by groups; the geographical distribution



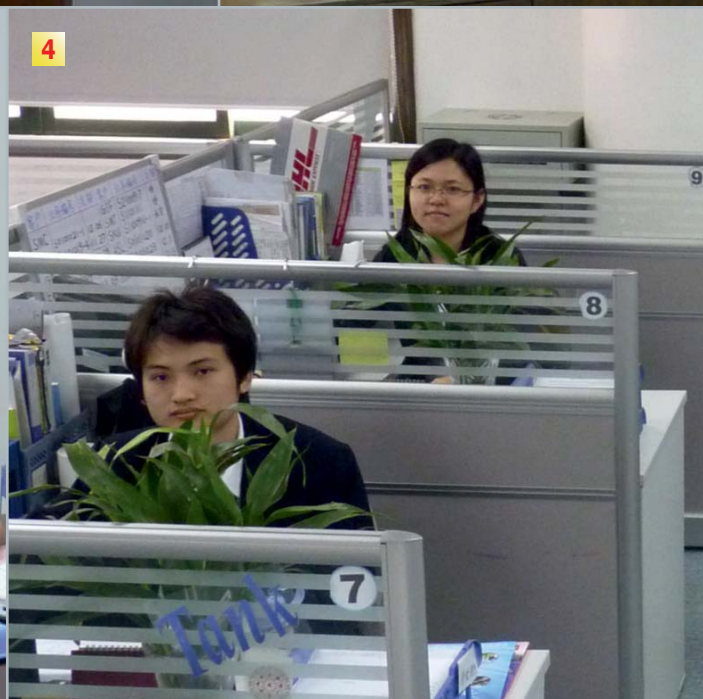
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1. Annie greets visitors at the reception desk

2. Yunnjye Qin is co-owner of Boiingsat and in charge of production.

3. Jason Chiang is the son of the company's founder and designated successor to the Captain's chair. Here in the showroom he shows us one of the company's specialties: a four-way combination with 4 x C-band LNB. This LNB lets four receivers receive four C-band satellites independently from each other; this setup is especially in demand in Indonesia.

4. Sales Manager Joseph Liu runs a team of six employees



such an increase in sales, could it? "Well, actually, we're expecting this increase in sales also because we're expanding into a new business sector; in 2012 we'll be opening up a new factory for LED lights. In 2013 we expect that 30% of our sales will be from LEDs with the rest coming from LNB production." OK, now the picture is getting clearer.

But back to LNBs. Sales Manager Jason Chiang tells us that in 2009 70% of all the LNBs shipped were single models. In 2010 that number dropped to 50% and it will obviously continue to sink. Single LNBs will cease to exist in a few years. Twin models made up 35% of the total in 2010; the rest consisted of quad and octo models.

The time has come for new models. Jason Chiang gives us some insight: "In the second quarter of 2011 we'll be releasing a Ku-band LNB with a shorter housing, for the third quarter there'll be a Ku-band LNB with only two rings instead of the previous three rings in the feed. For the fourth quarter we're planning on an SCR LNB." So, it's plain to see that there are several new products coming for 2011. "But that's not all", he says, "In 2012 we'll be starting with Ka-band

revealed his sales figures, a tendency in that direction was clearly visible: "For 2010 we calculate sales of USD\$ 20 million. For 2011 we expect a fallback to USD\$ 18 million and for 2012 we expect a further fallback to USD\$ 16 million."

Those aren't very pretty numbers but

then he surprised us with his prognosis for 2013: "We expect sales to jump to USD\$ 24 million!" What? Is he serious? And then he surprised us for a second time: "I believe that demand for LNBs will drop off for several years but then it will turn around and go back up." But that alone couldn't possibly be the reason for



LNBs." Since SCR LNBs and LNBs for Internet-via-satellite (Ka-band) have the most demand in Europe, the next question must be how production will conform to European requirements. "We're in the process of converting our production to the RoHS standard step-by-step. We should be ready no later than 2012", explains Hoawen Chiang.

Clearly the company Boiingsat is preparing to move itself onto higher levels. With consistent small improvements in technology and improvements in production, they can raise their standard and thereby enter those sophisticated markets such as Europe and North America that up until now couldn't be breached. And for this reason you can only meet up with Jason Chiang at a Boiingsat stand at trade shows outside of Europe. For 2011 that would be CABSAT in Dubai, the EEBC in Kiev as well as the two local Canton shows in the Spring and the Fall. "But for 2012 we're looking to be at the IBC in Amsterdam", says Jason Chiang optimistically regarding the future of the company with its many factories.

1. Sam Ho is Production Manager for C-band LNBs

2. A Boiingsat specialty: mounting components for the 4 x C-band LNB for the Indonesian market.

1

BOINGSAT

LNB Manufacturer, China



Company Details

Engineers in Research & Development | Total Number of Employees
0.....500.....1000
Average Turnover (Previous, This, Next Year Estimates)
0.....12.5.....25 Mio US\$

Production Certificates
RoHS in preparation
Main Products
LNBs for Ku and C bands, Ka band in preparation. Variants in Single, Twin, Quad, Quattro and Octo.

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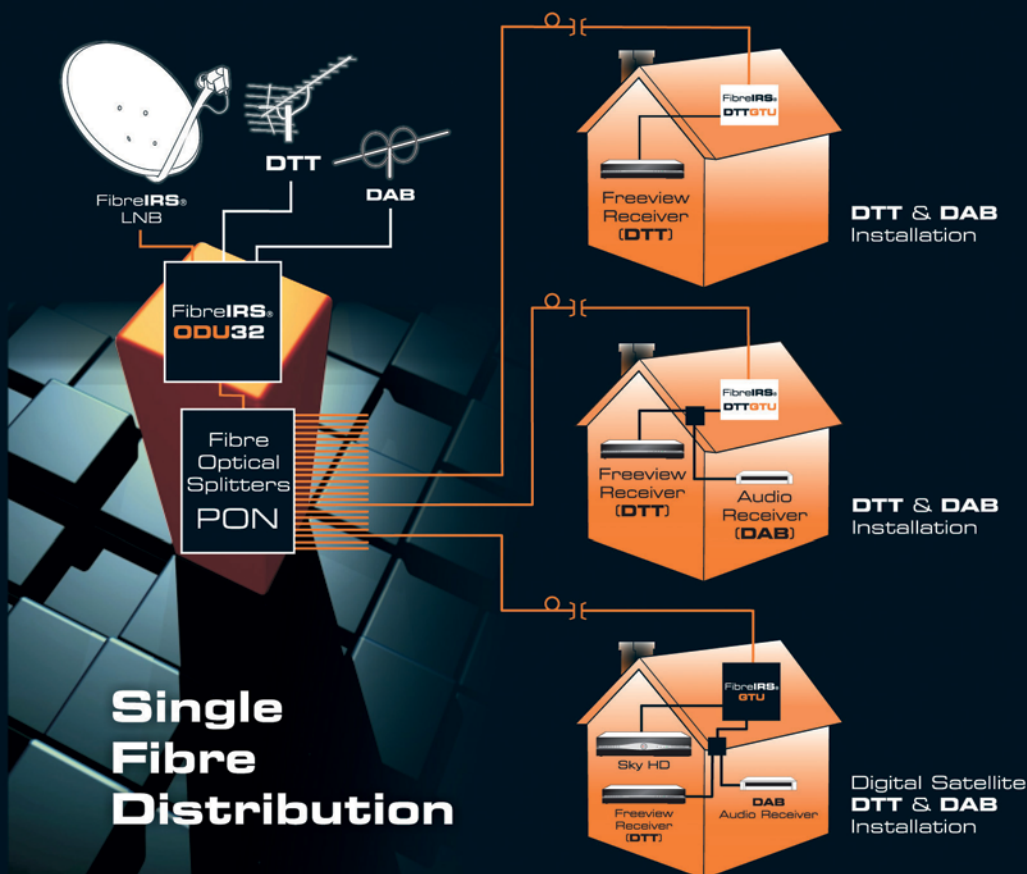


2



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*Compared with existing Fibre Systems

Research & Development at Boiingsat

1. David Chou is R&D Manager and is in charge of a team of six R&D engineers. Three additional engineers should be added in 2011.

2. R&D engineers here in the lab test product samples taken from the production line and check for product improvements.

3. An employee is testing the gain/noise figure of a C-band LNB.

4. New from the R&D team: the LNB on the left is from current production, the LNB on the right has a new shape that is somewhat shorter and makes possible even smaller LNBs. Current LNBs are 103.5mm long; the new model will only be 85mm in length.

5. A look into the feed. Up until 2008 these feeds were manufactured with four rings. Then advances in technology allowed one of the rings to be removed. Now, as can be seen in the picture, there are only three rings. But it won't be long before the third ring can be eliminated. An LNB with two rings is planned for the third quarter of 2011.



1



2



4



3



5



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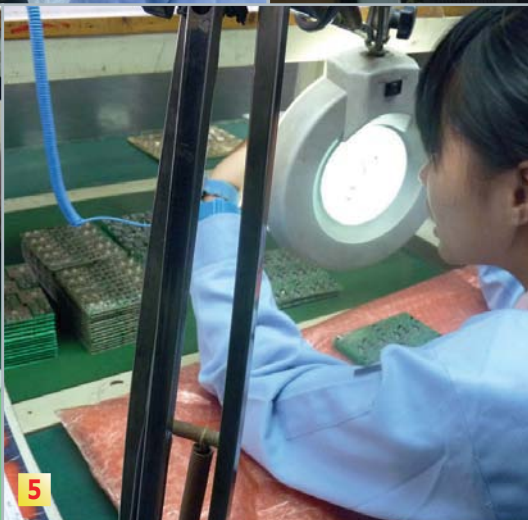
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LNB Circuit Board Production

1. The LNB circuit boards are produced here using four SMD machines. Boingsat uses two Yamaha SMD machines and two from Siemens. SMD Production Manager Andy Gong explains, "These machines operate 24 hours a day and produce 40,000 LNB circuit boards in that time."
2. The stuffed boards exit the oven and are checked by an employee for mechanical defects.
3. Employees use two optical measurement tools to check the circuit boards.
4. If any defects are found, this employee manually resolders any cold solder joints.
5. Every tenth circuit board is optically rechecked by an employee.
6. Before they move on to actual production, this employee solders the reception probes onto the circuit boards. For each version (Single, Twin, Quad, Opto) a variety of different reception probes are needed.





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1

Production of a Ku-Band LNB

1. A look onto the factory floor.
2. The LNB housing that Boiingsat produces in another factory is fitted with "F" connectors here in this first step.
3. The just-completed circuit boards are placed in the LNB
4. The "F" connector is soldered to the circuit board.
5. An initial test with power applied: is there a short circuit or does the circuit board work correctly?
6. Mounting screws are placed on the separately manufactured LNB circuit board cover...



2



3



4

5. Loctite on the adjustment screws to make them operate smoothly.
11. The LOFs are adjusted. With a universal LNB it would be 9.75 GHz and 10.6 GHz. An employee uses a foot switch to shift between the two reception bands.
12. Gain is checked.



5



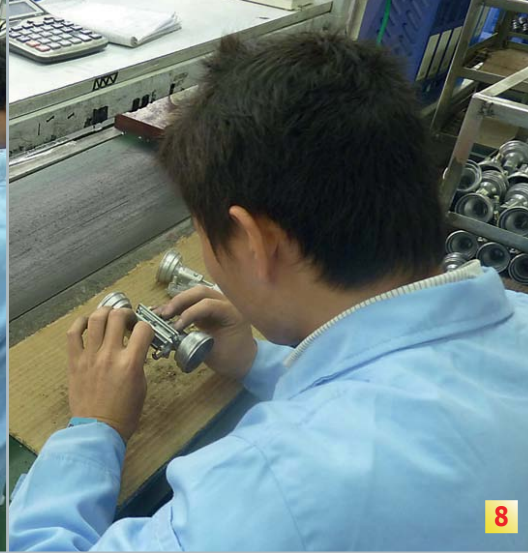
6

7. ...the cover is then screwed onto the LNB.
8. Visual checkpoint: does it all fit?
9. An oven is waiting for the LNBs: the LNBs are burned in here for 20 minutes at 80°C
10. Next is fine tuning. An employee dabs

13. Noise figure is tested. Using a transmitter that fits perfectly on the feed opening, an employee checks the behavior of an LNB.
14. And that's just about it: here the protective cap is placed on the feed opening.



7



8

15. Next comes the cold soak: The completed LNBs are placed in these refrigeration chambers and cooled to -18°C. If the LNBs are to be delivered to colder climates such as Russia, the LNBs would be cold tested to -40°C. And they have to work perfectly.

16. After the cold soak the LNBs are waterproofed: the circuit boards are covered with silicon paste that dries in four hours.



9



10



11



12



13



14



15



16

17. The plastic top is mated on the side with the "F" connector...

18. ...and then mated with the plastic bottom.

19. A final functionality test.

20. The completed LNBS are cleaned..

21. Next comes the sticker.

22. The completed LNBS are packed and ready to ship to the customer.



17



18



19



20



21



22



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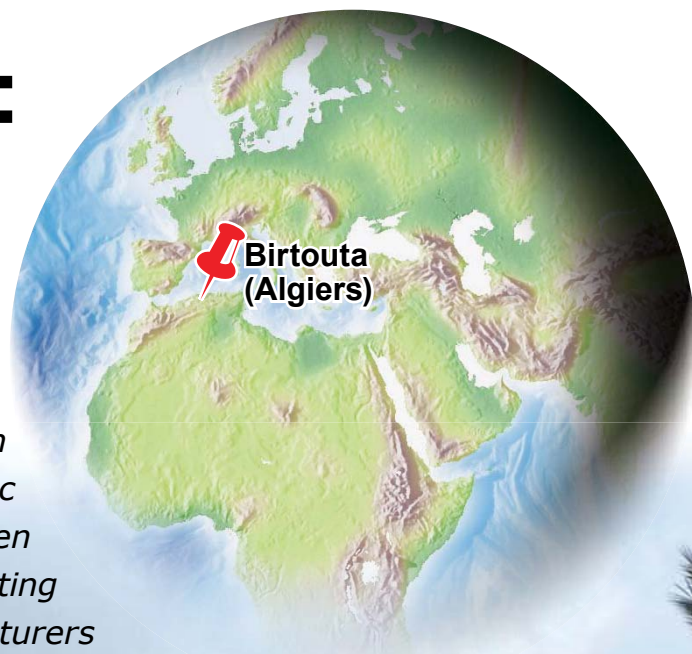
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Bomare Company: a new OEM Manufacturer

In 2005 the European Union entered into an agreement with the Democratic Peoples Republic of Algeria to support economic cooperation between the two. This agreement provides an interesting opportunity for satellite receiver manufacturers and, in the case of the Algerian Bomare Company, also for TV manufacturers. Actually, Bomare Company produces both products. For 2011 Bomare Company has decided to take their products and service capabilities to the European market. We paid a visit to Bomare Company's production facility in Birtouta, about 20km from Algiers, and had a look around.



The industrial city of Birtouta is very conveniently located: the airport, harbor and numerous highways are all within easy reach. It is an excellent location especially for a company that wants to expand its export business.

It all started many years ago with the distribution of satellite receivers. The founder, Ali Boumediene imported receivers from South Korea and sold them locally. But for him it wasn't

enough: one day it dawned on him that he could assemble these receivers on his own production line. Together with a South Korean manufacturer that supported him with not only the components but also the "know-how" in setting up an assembly line, Ali Boumediene started his own production in 2001. Back then 20 employees assembled digital receivers using the supplied components. Today Bomare Company has 120 employees.

Right from the start Ali Boumediene had a great idea: he chose the brand name "Stream System" for his line of receiver products. An excellent choice considering that in today's IPTV age everything revolves around streaming.

But let's get back to the beginning: in 2003 Ali Boumediene took the next expansion step. He created his own production line for power supplies and then in 2006 he took one more step by investing two million Euros and installing an SMT line in a new production facility complete with automatic component mounting machines and an oven. Bomare Company also owns a unit of plastic injection and silkscreen painting.

Technical Director Tewfik Lamrani gives us some insight into their production numbers: "From 2001 to 2007 we produced a total of three million SD receivers."

Production numbers dropped every year because of the ever-increasing competition with imported receivers. But Ali Boumediene also managed to find a solution to this: he simply started a second assembly line to produce TVs. "We are

especially proud of our LCD TVs with integrated DVB-T tuners", commented Tewfik Lamrani whose five-member R&D team developed this TV. "Now we also manufacture HD TVs", says Tewfik and explains why now is the right time to begin exporting their products: "In the past several years we learned how to start a production line."

The old adage holds true: "You learn from your mistakes"; Bomare Company has accepted all of the setbacks and over time has become a professional manufacturer.

"Now we have the right products and now we know how to make them", says Tewfik Lamrani, "And now the time has come to start exporting." Bomare Company is not only going to export their own products such as HD receivers and LCD-TVs in various sizes from 19" to 47", but they are now ready to become an OEM or ODM maker for other manufacturers and distributors primarily in Europe.

Tewfik Lamrani gives us a few reasons why Bomare Company with its location in Algeria would be a good choice: "We are in the same time zone as Europe, we speak the same languages (French and English), we can ship economically to Europe, we provide a high-quality product and our production follows the RoHS directive and just recently also the Euro 1 Norm."

The subject of quality control is especially critical for the export market: "Five engineers are directly involved with quality control during production (pre-production) and five additional engineers

■ Even in Algiers it rains occasionally and when it does it pours: a look at Bomare Company's production facility in Birtouta not far from the capital Algiers. Working hours are from 8AM-12PM and 1PM-5PM Sunday to Thursday (they are closed Friday and Saturday).

BOMARE
TV and Receiver Manufacturer, Algeria
www.bomarecompany.com

Company Details
Engineers in Research & Development | Total Number of Employees
0 75 150
Average Turnover (Previous, This, Next Year Estimates)
0 12.5 25 Mio Euro
Production Certificates
RoHS, DVB
Production Categories
OEM, ODM
Main Products
LCD and Plasma TV-Sets with integrated DVB-Tuner, Satellite Receiver for DVB-S/S2, DVB-T, Home Theatre Systems

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Available online starting from 1 April 2011



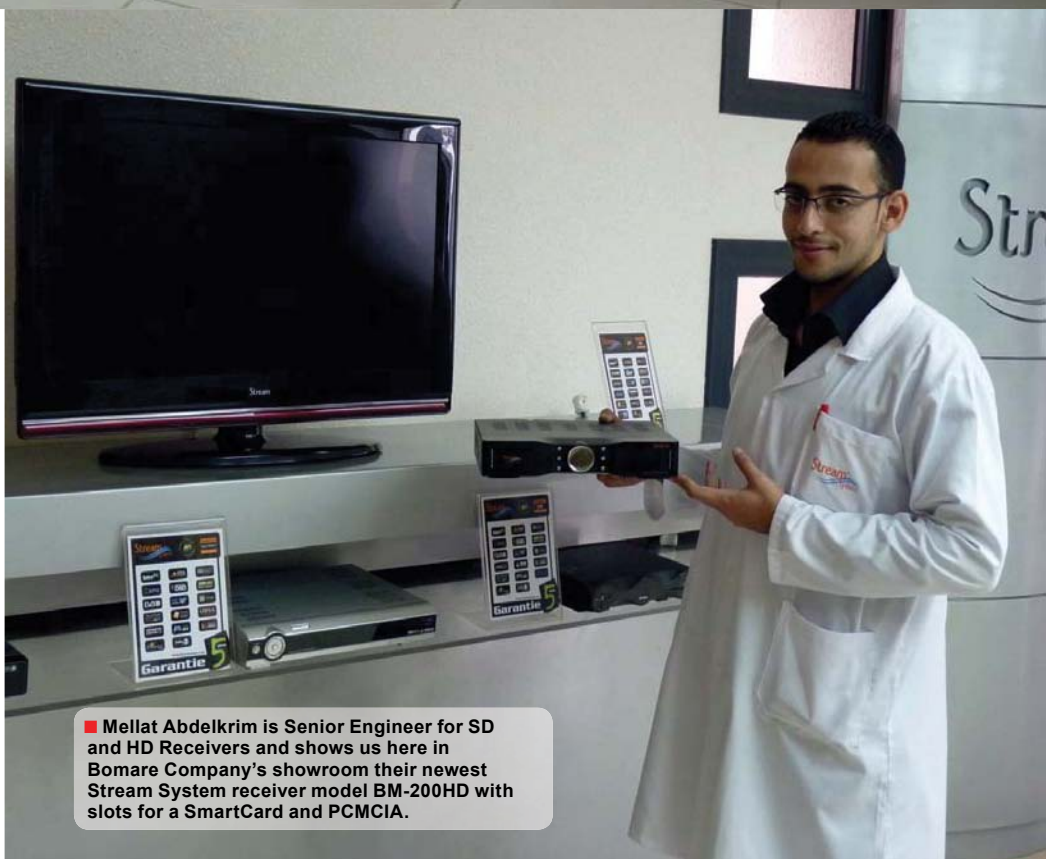
■ Technical Director Tewfik Lamrani in front of one of Bomare Company's flagship products - a complete home theater system currently marketed inside Algeria under the Stream System brandname.

deal with testing products after production to make sure they perform as required."

Besides these quality assurance engineers, there are ten more engineers in Bomare Company's R&D Team. They are constantly working to improve their product line and also incorporating the latest requirements (such as MPEG4 for DVB-T). Bomare Company also works closely with the Technical University and is actively involved in Standards Commissions like CETA (Comité Electrotechnique et Télécommunication Algérien) and the Comité Techniques Normatives Nationaux.

In January 2009 Bomare Company installed a management system to comply with the requirements of ISO9001 V2008, ISO14001 V2004, OHSAS 18001 V2007, thus becoming an proactive and efficient organisation, aimed at satisfying its customers.

The quality of Bomare Company's products has become so high that they



■ Mellat Abdelkrim is Senior Engineer for SD and HD Receivers and shows us here in Bomare Company's showroom their newest Stream System receiver model BM-200HD with slots for a SmartCard and PCMCIA.

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Combo



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DVB-Satellite



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Dealers and Distributors wanted





■ Ahmed Lounes is SMT Manager. Here we see him in the SMT machine room.



■ The SMT machines in operation: the motherboards are automatically loaded with components and then soldered in place.

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Full range Conax Chipset paring Set-Top-Box

✓ DVB-T H. 264 SD Receiver

✓ DVB-T HD MPEG2/4 Receiver

✓ DVB-S2 H. 264 SD Receiver

✓ DVB-S2 HD MPEG2/4 Receiver

✓ DVB-C HD MPEG2/4 Receiver

✓ DVB-C SD MPEG2 Receiver



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1

provide a five-year guarantee. "This is only possible through strict quality management", comments Tewfik Lamrani. You can meet him personally either at the "FIA - Foire International d' Alger", that takes place every year in June in Algiers, or at the MIDEST every year in November in Paris.

An energetic production team is ready to take on clients from Europe and other countries!



2



3

1. Mohamed Demiche is Production Manager. He explains to us, "for every eight-hour shift we can produce between 300 - 400 CRT TVs and 700 LCD TVs. Our receiver production line can produce 2000 boxes per shift including quality control."

2. The line of soldering control & correction in the Electronic Card Production Unit is here.

3. LCD-TV sets with integrated DVB-T tuners are assembled here and then fully tested by a quality inspector in the foreground.

4. Final testing for a just-completed TV with integrated DVB-T tuner.

5. The young employee in the background is Abdelhak Kemane. He is responsible for pre-production quality control.

6. Faten Azzouz of the R&D Team checks out a new DVB-T tuner using an Algerian test channel receivable with an antenna.





■ The after sales service is also very important. Ferrag Farida is a SAV assistant, she is responsible of supplying spare parts to the different after sales services.



■ Tewfik Lamrani, Technical Director, with two of his vital employees: IT-Engineer Ismail Walid (left) and Receiver Engineer Abdelkarim Mellat (right)



HIGH QUALITY HDTV RECEIVER - PRODUCED BY DOEBIS

JAEGER



JAEGER HD+2011



ENVIRONMENTALLY FRIENDLY
STANDBY-POWER CONSUMPTION < 1 WATT

PVR Ready - Direct recording via USB
on external storage media possible!

FULL HD!

1080 P, 1080i, 720 P, 576 P

USB 2.0 SLOT



For external HDD
or USB-Stick

HDMI



High Definition
Multimedia Connection

1 x SMARTCARD-READER



FEATURES:

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

JAEGER HDCI 2010



Ready for



ENVIRONMENTALLY FRIENDLY
STANDBY-POWER CONSUMPTION < 1 WATT

USB 2.0 host for playback of external
hard drive or USB flash drive!

1080i, 720 P

USB 2.0 HOST



For external HDD
or USB-Stick

HDMI



High Definition
Multimedia Connection

1 x COMMON INTERFACE



FEATURES:

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



Prevail's Perfect Organization



- ***Substantially Increased Sales for 2011 Thanks to Rising Exports***
- ***Additional Factory Soon to be in Operation***
- ***Increased Number of Employees***
- ***Four New SMT Machines in Operation***
- ***Very Active R&D Team***

A recipe for the continued success of a manufacturer is a well-organized operation. A perfect example of this would have to be the Chinese manufacturer Prevail located in Hangzhou, the capital of the Zhejiang Province which is south of Shanghai. This company manufactures fiber optic products, CATV components and professional digital TV modulators and accessories for signal distribution.

The first thing you notice when you visit Prevail is how neat and clean the entire factory is; nothing is out of place. Another small detail are the uniforms that the employees wear. It's not out of the ordinary to see workers on an assembly line wear uniforms, but at Prevail the office workers also wear uniforms. For the visitor it

■ Two of the three Prevail factories in Xiaoshan in Hangzhou City in, China. The fourth is under construction.





becomes immediately clear that the work here is very disciplined and organized. And of course the products themselves would also be associated with this high standard.

To confirm this we paid a visit to the three manufacturing plants and had a look around; a fourth factory is currently under construction.

Necy-xu is General Manager Sales & Marketing and provides us with a little history about the company: "Prevail was founded in 2001 by Managing Director Xu Quanhai along with ten other partners." The company is in private hands and continues to manufacture the same product groups that it did at the beginning: fiber optic products, CATV components and accessories as well as distributors and splitters for coaxial cable lines. Necy-xu remembers the early days: "In our first year 2001 we had sales of roughly 50 million RMB (5 million Euros) with about 100 employees. 70% were domestic sales and the rest were exported."

For 2010, however, this changed considerably. Necy-xu revealed to us that now only 50% of their products are sold domestically in China; exports have increased markedly. To what countries and regions does Prevail export to?

Helen is Prevail's International Sales Manager and tells us, "40% of our exports end up in the south Asian region and this includes India, Pakistan, Indonesia, The Philippines, Thailand and Vietnam. 30% land in South America, 20% go to Europe and the rest go to The Middle East, North America and Africa."

Necy-xu adds that sales in South America have picked up quite a bit and that Prevail is shipping more and more products to that region: "The cable TV providers there are expanding



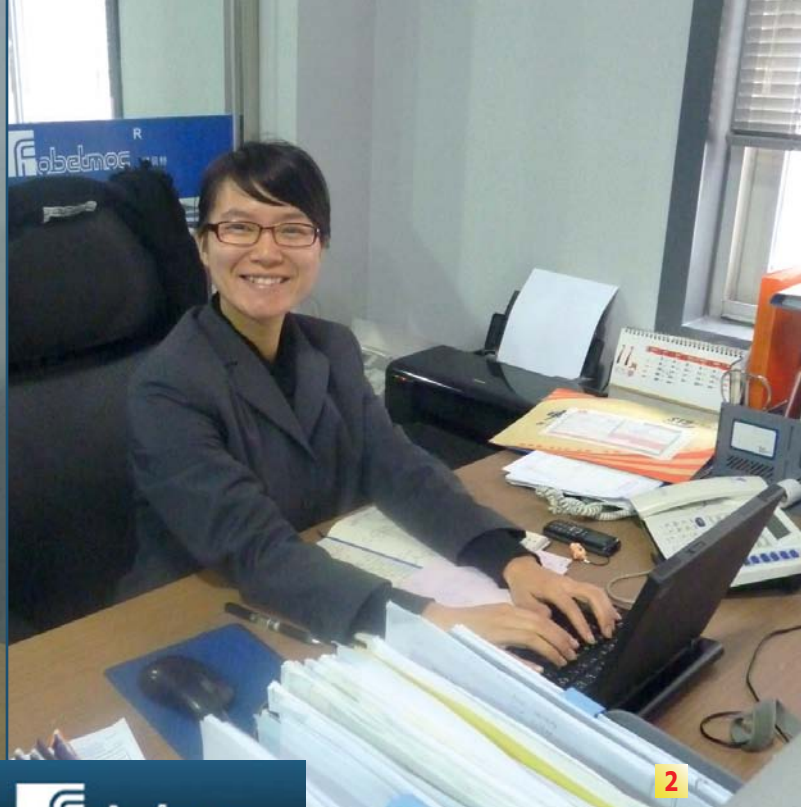
■ Two elephant statues greet visitors in Prevail's entrance lobby.

significantly and we have exactly the right products for them." Exports to South America look to sharply increase for 2011, but Eastern Europe is also rapidly on the rise.

Prevail achieved sales of 200 million RMB (roughly 20 million Euros) in 2010. The number of employees has also been



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on the rise: now about 450 employees work at Prevail. But for 2011 Necy-xu is extremely excited: "The number of our employees will climb to over 500 and we also expect a jump in sales." Prevail is actually optimistic that they can be on the Shanghai Stock Exchange in 2012. That's quite an achievement for such a young company!

Who actually buys Prevail's products? "90% of our customers are the cable operators themselves", explains Necy-xu, "only about 10% are shipped to distributors." The obvious reason for this is that at this point fiber optic products require a great deal of installation

know-how and that therefore cable operators prefer to tackle this on their own. This is not true for accessories although cable operators are still the largest customers for this product group as well since they need large numbers of these products.

As an international company, Prevail can be found at numerous trade shows. International Sales Manager Helen gives us an overview: "In 2011 we'll be exhibiting at CCBN in Beijing, Cabsat in Dubai, CommunicAsia in Singapore, ANGAs in Cologne, Cable-Tec in New Orleans as well as three shows in South America: one in Columbia and two in Brazil." This provides

1. Necy-xu is General Manager Sales and Marketing and takes care of the company's exposure, such as, at trade shows and in the press.

2. Helen is International Sales Manager and is constantly in contact with customers all over the world. She can often be found at trade shows at the Prevail stand.

3. This man is very critical for a quality manufacturer like Prevail: he is Yu Xinghong and with his 20 engineers he is responsible for quality assurance during production.

4. He manages production: Ren Guorui is Production Manager and organizes the entire production process at Prevail.

NetUP Dual DVB-T/C-CI

Professional high-density terrestrial & cable TV reception card



Overview

The NetUP Dual DVB-T/C-CI is a professional PCI-e card for reception and decoding of terrestrial & cable TV. The card is intended for high-density appliances such as DVB-IP gateways, home theaters, etc. In contrast to usual DVB reception cards NetUP's Dual DVB-T/C-CI provides a unique versatility – it can be used to receive terrestrial and cable TV, analog & digital. Moreover, two DVB tuners and two Common Interface (CI) slots occupy only one PCI-e slot. This allows saving space on installation and using the card in confined environments. For example, a standard 1U rack-mount server with two PCI-e slots can receive and fully decode 4 transponders/multiplexes, such as NetUP's IPTV Combine 4x or DVB-IP gateway 4x.

Features

- two DVB-T/DVB-C inputs – simultaneous reception of two DVB-T or DVB-C transponders/multiplexes or two analog TV channels
- two CI slots – independent descrambling of two transponders/multiplexes
- support of any professional CA modules (e.g., PowerCAM Pro, Aston Pro Solutions, SMIT, etc.)
- PCE-e x1 – drivers for Linux OS

Components Used

- Conexant CX23885
- STM STV0367 low-power and ultra-compact combo DVB-T/C single-chip receiver
- Xceive XC5000 silicon TV tuner
- Altera FPGA for Common Interface



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quite a few opportunities to take a closer look at Prevail's product line and learn more about their capabilities. "We always have at least one engineer present at our booth to answer any technical questions", explains Helen regarding Prevail's strategy.

Prevail is a company that is clearly geared for expansion and is perfectly organized to do just that. Prevail's product segment offers the best opportunities for further growth since, for example, the Triple Play service offered by cable networks or IPTV offered through fiber optic networks are in ever-increasing demand requiring Prevail's carefully manufactured products. Prevail's perfect organization knows only one way to go: up!

PREVAIL
Fiber Optic and CATV Manufacturer, China
www.prevail-catv.com



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

Company Details

Engineers in Research & Development | Total Number of Employees
0 250 500

Average Turnover (Previous, This, Next Year Estimates)
0 12.5 25 Mio €uro

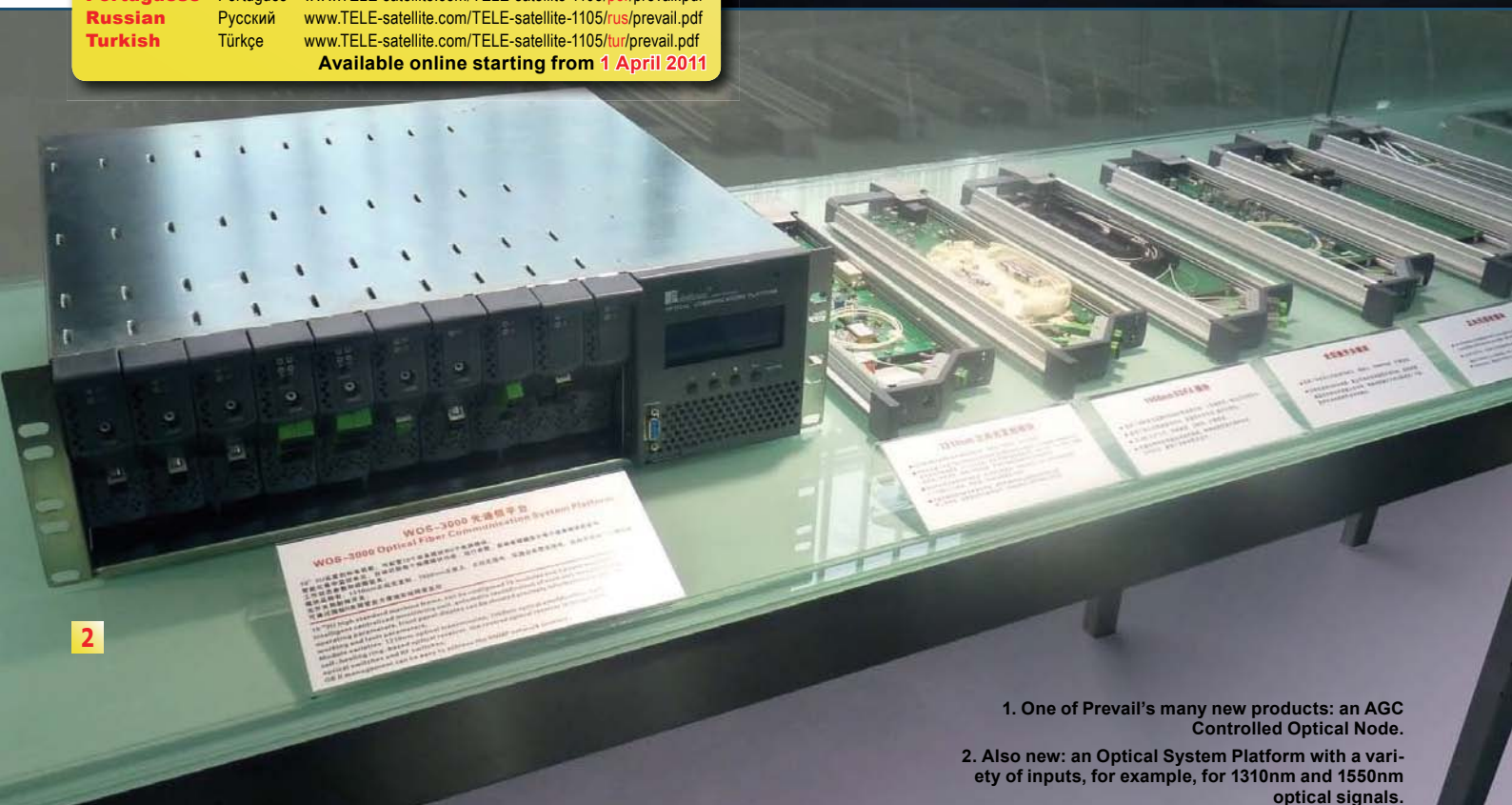
Production Certificates
RoHS
Production Categories
OEM
Main Products
Fiber Optic Nodes and Systems, Optical Receivers and Transmitters, CATV Equipment, Bi-directional Network Transmission Equipment, Head-Ends, Splitters, Taps

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Hebrew	עברית	www.TELE-satellite.com/TELE-satellite-1105/heb/prevail.pdf
Chinese	中文	www.TELE-satellite.com/TELE-satellite-1105/man/prevail.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-1105/pol/prevail.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-1105/por/prevail.pdf
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Available online starting from 1 April 2011



1. One of Prevail's many new products: an AGC Controlled Optical Node.

2. Also new: an Optical System Platform with a variety of inputs, for example, for 1310nm and 1550nm optical signals.

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- range of **production training opportunities** to further your career





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1. The export sales team works here. 10 employees take care of international customers here while 20 employees serve the domestic market in China.

2. The employees at 10 packing stations ensure that every product is carefully packaged in the correctly sized carton.

3. Hu Chei He runs the shipping department with five employees. She ensures the proper shipping of customer-ordered products.

Stream[®] System

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Rêve ou réalité

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BM-SMART

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5
ANS

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- CONNECTIVITÉ MULTIPLES (ETHERNET, WIFI VIA USB).
- LECTEUR DE CARTE EMBARQUÉ.
- RÉOLUTION FULL HD (1080P) .
- FONCTION PVR ET TIME SHIFT.
- SYSTÈME LINUX EMBARQUÉ.
- EXPLORATEUR YOUTUBE.
- NAVIGATION WEB.
- DOUBLE TUNER.
- AFFICHEUR VFD.
- 2 PORTS USB 2.0
- CLIENT FTP.
- IPTV.

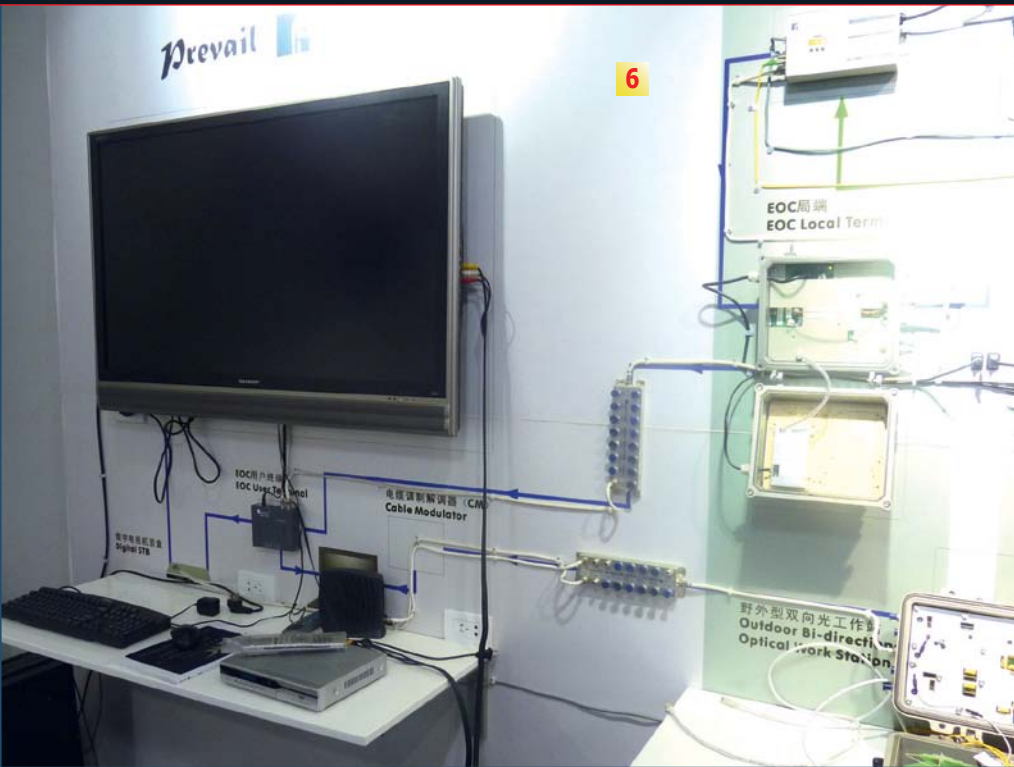


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Fiber Optic and Amplifier R&D Team at Prevail



1. A look into the perfectly organized R&D lab. Each of the 20 engineers here has an expansive work area with all the necessary test equipment.
2. Zhu Shuihu is in charge of the fiber optic R&D team. He can be seen here working on a fiber optic transmitter.
3. New from Prevail: an E-pon system terminal for Triple Play. The connections on this terminal that would be installed at the end-user's home are the coaxial input from the cable provider and the three outputs: a coaxial jack for the TV, an Ethernet jack for the Internet as well as another Ethernet jack for VoIP (telephone). Prevail is just introducing this product and a test report will appear in TELE-satellite shortly.
4. This engineer is working on the design of a coaxial cable splitter.
5. This employee is troubleshooting a problem with an optical receiver. He has all the necessary test equipment at his fingertips to help him solve the problem.
6. Block diagram of a Triple Play system: in a local terminal at the distribution point the TV and Internet signals are combined and then sent via a coaxial cable to the a receiver at the other end.



Fiber Optic Production

7. Fiber Optic Nodes are assembled here. Hu Chan Song is in charge of this department with 80 employees. Not only are the optical nodes assembled here, but the optical receivers, transmitters and amplifiers as well.
8. Fiber optic product Quality Control. Every product is checked out here.



SMT at Prevail

1. Huang Yang is in charge of the SMT department. "These machines started operations in November 2010", he explains to us, "20 employees work here in two shifts." A total of four Yamaha SMT machines were installed.
2. A fully automatic PCB pressing machine. It delivers the boards that are then stuffed with components by the SMT machines.
3. A semi-automatic pressing machine for smaller product versions.
4. The stockroom with the SMT components is fully stocked and thoughtfully organized.
5. Optical controllers for the completed circuit boards.



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UNICABLE

QUALITY ENGINEERING
HQ
HIGH

USALS

PERFECT MOTOR SETUP

ASDTM

ACTIVE SATELLITE DATA



DVB - T TEST
DVB - S TEST
FM TEST
DAB TEST
UNICABLE
CAMERA TEST
22KHZ TEST
VOLTAGE TEST
NIT ID FUNCTION
USALS
ASD

PORTABLE DEVICE
VERY LIGHTWEIGHT
1GB MASSIVE MEMORY
HIGH BUILD QUALITY
UNIQUE FUNCTIONS
WORLD COMPATABLE
EXCELENT SERVICE
SUPERB VALUE
CALIBRATED READINGS
FULL EDIT BY HAND

NOTE: WE PRODUCE TRUE DVB METER PRODUCTS WHICH ARE DESIGNED AND DEVELOPED AS PROFESSIONAL METERS. WE DO NOT MANUFACTURE MINI STB RECEIVERS WITH AN ADDED LCD SCREEN !! ALL OF OUR PRODUCTS HAVE FULL EUROPEAN WARRANTEE WITH SPARE PARTS AVAILABLE AND ARE ALL FULLY LISCENCED .

OTHER MODELS AVAILABLE:

DVB-S	EXCEL-TV MK4
DVB-S2	DIGIPRO IIIS HD
DVB-T	DIGIPRO T MAX
DVB-S/C	DIGIPRO SC COMBO
DVB-C	DIGIPRO C MAX
DVB-S 1GB	EXCEL-TV MK4 NIT

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ALL PRODUCTS ARE AVAILABLE FROM YOUR LOCAL DISTRIBUTOR IN YOUR OWN LANGUAGE !



Accessories Assembly

1. Huang Li Mao is Production Manager and is responsible for mounting of the accessories. Each employee has their own vacuum connection to exhaust the solder smoke
2. Production line for circuit board installation for splitters and taps.
3. An employee installs components on a circuit board that will ultimately be installed in a splitter housing.
4. Completed splitters at the end of the assembly line that are being fully tested by this employee before the QC sticker is placed on them.
5. Many of the assembly lines at Prevail are already 'lead-free' and are therefore RoHS certified. The products produced here are, for example, for export to Europe. This is one of the RoHS compatible assembly lines for accessories.

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4

Prevail 

Power Supply Production

6. Prevail also manufactures the power supplies

7. A look in the burn-in room in which the power supplies need to function correctly for 24 hours before they can be shipped out.





BEST DIGITAL TV COMPANIES in W EUROPE

Satellite Shop, Germany



Software Programming, Belgium

TELE
satellite
Recommended

www.satbeams.com



Satellite Distributor, Netherlands



Fibre Optic Products, UK




www.globalinvacom.com



Satellite Shop, Netherlands

[illegible]

www.TELE-satellite.com/TELE-satellite-1005/eng/eeshop.pdf

Software Programming, UK

TELE
satellite
Recommended

www.dishpointer.com

[illegible]

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

Satellite Shop, Netherlands

[illegible]

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

Maritime 3-Axis Dish Manufacture. UK

[illegible]

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

Distributor, Netherlands

COMPANY REPORT | Distributor in The Netherlands

Clark Electronics 70 Years Old and Full of Ideas

Clark Electronics is another Holland giant at the entrance to the Rotterdam harbor in the city of Schiedamschen. The company has been in the Netherlands for 70 years and has more than a thousand employees.

And what's new here in its 70th year? "We have a lot of new products and services that we are now able to offer," says John Korte, CEO of Clark Electronics. "We have a lot of new products and services that we are now able to offer, and we are also expanding our range of services to include more and more areas of the market."

In 2007, the company was the leading distributor of electronic components in the Netherlands. The company has a long history of innovation and has been a pioneer in the development of new products and services. The company has a strong focus on research and development, and has a number of patents to its name.

Clark Electronics is a company that is always looking for new ways to improve its products and services. The company has a strong focus on innovation and has a number of patents to its name. The company has a strong focus on research and development, and has a number of patents to its name.

John Korte

Clark Electronics is a company that is always looking for new ways to improve its products and services. The company has a strong focus on innovation and has a number of patents to its name. The company has a strong focus on research and development, and has a number of patents to its name.

John Korte, the Chairman of Clark Electronics

When the Dutch electronics giant Clark Electronics was founded in 1947, it was a small company with a few employees. Today, it is a large company with more than a thousand employees. The company has a long history of innovation and has been a pioneer in the development of new products and services.

A sign in the store window of Clark Electronics in Schiedamschen, The Netherlands, advertising a digital removable reel.

Digital Removable Reel
Model No. 127000-001
PYY-1953

The Clark Electronics building in Schiedamschen, The Netherlands, which has been a central part of the company's operations for many years.

A display of electronic components in a store window, showing a variety of products available for sale.

A man in a white shirt standing next to a large electronic component, likely a digital removable reel, in a store window display.

Clark Electronics is a company that is always looking for new ways to improve its products and services. The company has a strong focus on innovation and has a number of patents to its name. The company has a strong focus on research and development, and has a number of patents to its name.

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Clark

A man and a woman sitting together, smiling, likely representing the company's commitment to customer service and satisfaction.

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

Manufacturer of Measuring Instruments, UK



www.horizonhqe.com

COMPANY REPORT

Manufacturer of Measuring Instruments HORIZON

A RoyalWarrant from Her Majesty the Queen, Elizabeth II, in recognition of the company's services to the Royal Household.

The Queen and Horizon

What the award means to the company is that it has been recognised for its commitment to the Royal Household, a position of trust and responsibility. The company's commitment to the Royal Household is a testament to its long-standing relationship with the Royal Household, which has been a source of pride and honour for the company since its inception.

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order to get out of the financial difficulties. The company's commitment to the Royal Household is a testament to its long-standing relationship with the Royal Household, which has been a source of pride and honour for the company since its inception.

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10 • THE JOURNAL OF THE MEASUREMENT SOCIETY

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

BEST DIGITAL TV COMPANIES in EUROPE

SMARTWI
TECHNISAT
DOEBIS
GOLDEN MEDIA
NANOXX
MEDIA BROADCAST
SMART
SPAUN POWER
GT SAT
SPAUN

DOEBIS

Satellite Wholesaler, Germany



www.doebis.de

DOEBIS is Expanding

Exactly three years ago TELE-satellite published a report on DOEBIS, a satellite wholesaler in Germany. We thought it was a good time to ask DOEBIS how they withstood the all-around crisis. We received a rather surprising answer: "We're expanding!" says Jochen Wierling, Operations Manager at DOEBIS. The company used the economic crisis that took hold in 2008 and instead of scaling back they opted for a counter strategy: they used the opportunity to invest and primarily expanded their sales force.

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

SMARTWI

Wireless Card Reader Producer, Denmark



www.smartwi.net

SmartWi to Conquer Provider Market

Readers of this magazine have been familiar with wireless card reader manufacturer SmartWi for years. In TELE-satellite issue 06-07/2007 we published the first report on the Danish company which has come up with a genius idea: rise about transmitting data from a pay-TV provider's subscription card to a personal card in the same household! All of a sudden, your viewing pleasure can be extended from the living room all the way to the bedroom, den or any other room at your place. Pay TV whenever you like – and a smart idea for the consumer's proper name: smart Wi, or SmartWi in short.

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

SPAUN POWER

Power Supply Manufacturer, Germany



www.spaun.com

Power Supply Units Made by SPAUN – guaranteed!

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

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

GOLDEN MEDIA

Manufacturer and Distributor, Germany



www.cynextra.com

New On The Market: Golden Media

As part of the media giant Bosch this factory, located in the heart of the German industrial region, has been producing satellite components for over 20 years. Golden Media, a young company, was founded in September 2009 and has had a successful start since then. We wanted to find out the secret to their quick success.

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

MEDIA BROADCAST

Broadcasting Services, Germany

STATION REPORT | Earth Station Usingen, Germany

Satellite Reception with a 19 Metre Dish

30 Years of Satellite Reception and Uplink in Usingen near Frankfurt

In an age of ever decreasing antenna sizes and only very few satellite dishes using large dishes it's a welcome change to explore really huge antennas. These can only be found in professional settings, of course, and in particular where TV channels are beamed up to a satellite of satellite earth stations. One of Europe's top 5 stations is located close to the small town of Usingen, not far from Frankfurt in Germany.

TELE-satellite WORLD

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

SPAUN

High Quality Accessory Manufacturer, Germany



www.spaun.com

COMPANY REPORT | High Quality Accessory Manufacturer

Spaun at 40 years

Moving into the new decade with many new products

Alexander Wies

With 40 years, Spaun is a well-established company. Since 1974, the company has been producing and distributing satellite accessories. The company's products are sold in over 100 countries. The company's products are sold in over 100 countries. The company's products are sold in over 100 countries.

TELE-satellite WORLD

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

SMART

Receiver Manufacturer, Germany

COMPANY REPORT | Receiver Manufacturer Smart

Being 'SMART' in Germany's Black Forest

When you hold this issue of TELE-satellite in your hands, the company Smart Electronics will only have been in existence for less than a year. It is relatively new, but still it can boast its own production facilities and dedicated sales channels. How can a start-up business develop so fast? That's exactly what we wanted to find out when we set out on our journey to the south-western corner of Germany, home of the world-famous Black Forest cuckoo clock and a byword for precision and the art of craftsmanship.

TELE-satellite WORLD

www.TELE-satellite.com/TELE-satellite-0901/eng/smart.pdf

GT SAT

LNB Distributor, Luxembourg

COMPANY REPORT | LNB Distributor GT SAT

GT-SAT

This is a very old GT-SAT in Luxembourg. Since 1974, the company has been producing and distributing satellite accessories. The company's products are sold in over 100 countries. The company's products are sold in over 100 countries. The company's products are sold in over 100 countries.

TELE-satellite WORLD

www.TELE-satellite.com/TELE-satellite-0805/eng/gtsat.pdf

NANOXX

Wholesaler and Receiver Manufacturer, Germany

COMPANY REPORT | Wholesaler and Receiver Manufacturer Nanoxx

Two X's Mark the Spot in Frankfurt

NANOXX

The trademark of the receiver manufacturer's Nanoxx product are the two X's. These two X's also appear in the Nanoxx company name. We wanted to find out about the secret of the two X's. We found Max of Nanoxx in the small town of Liederbach north of Frankfurt, Germany. He is the founder and President of Nanoxx and chose the name Nanoxx for his line of receivers. It's actually a clever name in that the two large X's truly stand out.

TELE-satellite WORLD

www.TELE-satellite.com/TELE-satellite-0901/eng/nanoxx.pdf

TECHNISAT

TV Manufacturer, Germany

COMPANY REPORT | Technisat TeleDigital AG

TV Made in Germany

Alexander Wies

There are only a few TV manufacturers left in Germany. One of them is Technisat. The company has been producing and distributing satellite accessories for over 40 years. The company's products are sold in over 100 countries. The company's products are sold in over 100 countries. The company's products are sold in over 100 countries.

TELE-satellite WORLD

www.TELE-satellite.com/TELE-satellite-0709/eng/technisat.pdf



BEST DIGITAL TV COMPANIES in S/E EUROPE

NETUP

IPTV Software and Hardware Producer, Russia



www.netup.tv

Company Details

Engineers in Research & Development | Total Number of Employees

0 25 50

Average Turnover (Previous, This, Next Year Estimates)

0 5 10 Mio US\$

Production Certificates

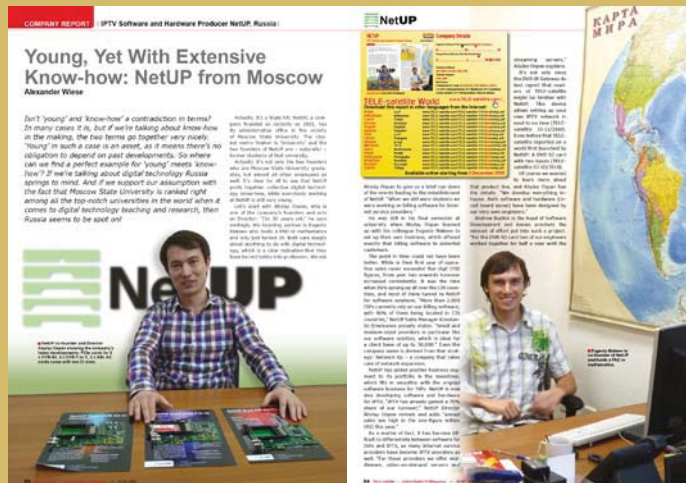
ISO, RoHS, PCI SIG, IEEE, DVB

Production Categories

OEM, ODM

Main Products

Professional PC Cards for DVB-S/S2, DVB-T/MPEG-4, DVB-C, ASI, IPTV Gateway/Streamer, IPTV Middleware, IPTV Conditional Access Systems, IPTV Billing Systems, Video on Demand



www.TELE-satellite.com/TELE-satellite-1101/eng/netup.pdf

AB IPBOX

Satellite Receiver Manufacturer, Slovakia



www.abipbox.com

AZBOX

Satellite Receiver Manufacturer, Portugal



www.azbox.com



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



www.TELE-satellite.com/TELE-satellite-1001/eng/azbox.pdf

Satellite Installer, Spain



Satellite Shop, Spain



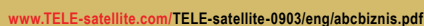
Accessory Manufacturer, Spain



Uplink Technology, Italy



Satellite Receiver Manufacturer, Slovakia



Antenna Motor Manufacturer, Italy



BEST DIGITAL TV COMPANIES in MIDDLE EAST

YAHYA

ATLANTA
COMINTOUCH
ECHOLINK

ATLANTA

Satellite Wholesaler, UAE

COMPANY REPORT | Satellite Wholesaler ATLANTA, Dubai

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 pay-TV 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 lived as an expatriate in Saudi Arabia, the Gulf Coast area from the Arabian Sea to the Persian Gulf, the author has seen the growth of satellite TV in the region. In 1990, there were only a few satellite TV dishes in the region. Today, there are thousands. The growth of satellite TV in the region is due to the fact that satellite TV is now available to everyone. The growth of satellite TV in the region is due to the fact that satellite TV is now available to everyone.

Atlanta is a leading satellite wholesaler in the Middle East. They have a large inventory of satellite equipment and offer competitive prices. They also offer a wide range of services, including installation and maintenance. Atlanta is a reliable and professional company that has earned a reputation for excellence in the satellite industry.

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

ECHOLINK

Satellite Wholesaler, UAE

COMPANY REPORT | Satellite Wholesaler ECHOLINK, Dubai

TRIMAX Distributor ECHOLINK in Dubai

One of the largest satellite wholesalers in the Middle East is ECHOLINK. The company has four stores in Dubai's Satellite Souk. There is one half store you'll find an endless variety of satellite shops right on top of the next one. The local market in Dubai isn't off their 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).

ECHOLINK distributes satellite receivers under the different brand names of the major manufacturers. With the exception of the TRIMAX brand, which is a registered trademark of the TRIMAX company, ECHOLINK has a wide range of satellite receivers. The TRIMAX brand is a registered trademark of the TRIMAX company. ECHOLINK has a wide range of satellite receivers. The TRIMAX brand is a registered trademark of the TRIMAX company.

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

COMINTOUCH

Satellite Wholesaler, UAE

COMPANY REPORT | Satellite Wholesaler COMINTOUCH, Dubai

SPAUN at COMINTOUCH in Dubai

SPAUN is a leading satellite wholesaler in the Middle East. They have a large inventory of satellite equipment and offer competitive prices. They also offer a wide range of services, including installation and maintenance. SPAUN is a reliable and professional company that has earned a reputation for excellence in the satellite industry.

COMINTOUCH is a leading satellite wholesaler in the Middle East. They have a large inventory of satellite equipment and offer competitive prices. They also offer a wide range of services, including installation and maintenance. COMINTOUCH is a reliable and professional company that has earned a reputation for excellence in the satellite industry.

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

YAHYA

Software Programming, KSA

COMPANY REPORT | Software Programmer

Enigma in Arabic – How does it work? Paying a visit to Yahya in Saudi Arabia

When you switch on a receiver for the very first time you are usually asked which language you prefer: English, German or French are obvious choices. But what about Arabic? From a technical point of view translating one language into another is no big deal. But while most languages are written from left to right, Arabic is written from right to left. And that's where the problems begin. We set off to meet Yahya and to learn how these problems can be solved. We first somewhere in Saudi Arabia and would either not have his last name published because what he does is considered a grey area by some, even though it's not against the law.

www.TELE-satellite.com/TELE-satellite-0911/eng/yahya.pdf



BOMARE

TV and Receiver Manufacturer, Algeria



www.bomarecompany.com

COMPANY REPORT TV-Sets and Receiver Manufacturer Bomare, Algeria

Bomare: a new OEM Manufacturer

In 2005 the European Union entered into an agreement with the Democratic Peoples Republic of Algeria to support economic cooperation between the two. This agreement provides an interesting opportunity for satellite receiver manufacturers and, in the case of the Algerian company Bomare, also for TV manufacturers. Actually, Bomare produces both products. For 2011 Bomare has decided to take their products and service capabilities to the European market. We paid a visit to Bomare's production facility in Birtouche, about 20km from Algiers, and had a look around.

The industrial city of Birtouche is well known for its satellite receiver production. Bomare is one of the few companies in the region that has decided to take their products and service capabilities to the European market. We paid a visit to Bomare's production facility in Birtouche, about 20km from Algiers, and had a look around.

Bomare is a new OEM manufacturer. It was founded in 2005 by a group of engineers who had worked for several years in the satellite receiver industry. They decided to start their own company and produce their own products. Bomare is now a leading manufacturer of satellite receivers and TV sets in Algeria. They have a production facility in Birtouche, about 20km from Algiers, and a sales office in Algiers. Bomare is now a leading manufacturer of satellite receivers and TV sets in Algeria. They have a production facility in Birtouche, about 20km from Algiers, and a sales office in Algiers.

TELE-satellite World

TELE-satellite World is a leading magazine for the satellite industry. It provides news, information, and analysis on the latest developments in the industry. It is a must-read for anyone involved in the satellite industry.

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

Company Details

Engineers in Research & Development | Total Number of Employees

0 75 150

Average Turnover (Previous, This, Next Year Estimates)

0 12.5 25 Mio €

Production Certificates

RoHS, DVB

Production Categories

OEM, ODM

Main Products

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

CNBC

Satellite Channel, South Africa

COMPANY REPORT Business News for Africa

CNBC Africa
Alexander Wieser

The first African Business News Channel (CNBC Africa) is set to launch in 2011. The channel will provide business news and analysis for the African continent. It will be the first of its kind in Africa and will be a major milestone for the continent's media industry.

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www.TELE-satellite.com/TELE-satellite-0709/eng/cnbc.pdf

TELEMEDIA

Satellite Uplink, South Africa

Company Report TV Uplink

Telemedia Johannesburg

Telemedia is a leading satellite uplink provider in South Africa. They provide reliable and efficient services for their clients. They have a state-of-the-art facility in Johannesburg and a team of experienced professionals.

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www.TELE-satellite.com/TELE-satellite-0709/eng/telemedia.pdf

BEST DIGITAL TV COMPANIES in ASIA

YONGSAN NASA CNS TOPFIELD
ARION
SEKISAT

INFOSAT
FASHION TV

CISS

SUBUR SEMESTA

CISS

Satellite Wholesaler, Singapore

COMPANY REPORT Satellite Wholesaler in Singapore



CISS, Singapore

It is possible to sell only 35 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 Communications trade show.

The official and analytical website for Singaporean satellite dishes is the CISS website. CISS, which stands for Commercial Industrial Satellite Systems, is a leading satellite wholesaler in Singapore. The company has been in the business for over 10 years and has a strong reputation for providing high-quality satellite dishes and antennas to its customers.

Lim Ching, managing director of CISS, explains that the company's success is due to its focus on providing high-quality products and excellent customer service. He notes that the company has a large inventory of satellite dishes and antennas, which allows it to meet the needs of its customers quickly and efficiently.

CISS has a wide range of products, including satellite dishes, antennas, and receivers. The company also offers installation services and technical support to its customers. CISS is a leading provider of satellite services in Singapore and is known for its reliability and quality.

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

TOPFIELD

High-End Receiver Manufacturer, Korea

COMPANY REPORT High-End Receiver Manufacturer, Korea



Premium Brand Topfield Alexander Weiss

Topfield has been an established player in the high-end satellite receiver market for many years. The new TMS Super Box will further strengthen Topfield's foothold in the top-quality market. TELE-satellite wanted to learn more about the company's future strategy and spoke with Dong Heon Suk of the Topfield marketing team.

Working towards the future, Topfield is committed to providing high-quality products and excellent customer service. The company has a strong reputation for its premium brand receivers and is known for its reliability and quality.

www.TELE-satellite.com/TELE-satellite-0905/eng/topfield.pdf
www.TELE-satellite.com/TELE-satellite-0801/eng/topfield.pdf

INFOSAT

Dish Manufacturer, Thailand

COMPANY REPORT Dish Antenna Manufacturer INFOSAT, Thailand



Innovation Out of Thailand

Even a long-standing product such as a C-band antenna still has room for improvement. A few months ago, INFOSAT in Thailand introduced a 1.5-meter super-compact antenna to the market. The result was immediate success! The driving force behind this new product is Niran Tangsomboon, founder and owner of the company.

INFOSAT is a leading manufacturer of satellite dishes and antennas in Thailand. The company has a strong reputation for its high-quality products and excellent customer service. INFOSAT is known for its reliability and quality.

www.TELE-satellite.com/TELE-satellite-0907/eng/infosat.pdf
www.TELE-satellite.com/TELE-satellite-0803/eng/infosat.pdf
www.TELE-satellite.com/TELE-satellite-0705/eng/infosat.pdf

ARION

High Quality Receiver Manufacturer, Korea

COMPANY REPORT High Quality Receiver Manufacturer, Korea



Arion on its way

More than a year ago TELE-satellite published a report highlighting the success of South Korean manufacturer of high-quality receivers Arion with headquarters in Arirang, one of the southern suburbs of Seoul. This time we visited to find out how Arion has managed to sail through the rough seas of last year and which expansion plans are on the road map for 2008.

Arion is a leading manufacturer of satellite receivers in Korea. The company has a strong reputation for its high-quality products and excellent customer service. Arion is known for its reliability and quality.

www.TELE-satellite.com/TELE-satellite-0903/eng/arion.pdf
www.TELE-satellite.com/TELE-satellite-0801/eng/arion.pdf
www.TELE-satellite.com/TELE-satellite-0701/eng/arion.pdf

OPERATOR MARKET Qualified

Classification for Best Digital TV Companies



Attributes of Qualified Company:

- High Production Volume ■ Quality Controlled
- Customized Product Case ■ Customized Product Software
- Aftersale Service

NASA CNS

Satellite Wholesaler, Korea



www.TELE-satellite.com/TELE-satellite-0805/eng/nasacsns.pdf

FASHION TV

Satellite Channel, Thailand



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

SUBUR SEMESTA

Dish Manufacturer, Indonesia



www.TELE-satellite.com/TELE-satellite-0805/eng/subursemesta.pdf

YONGSAN

Satellite Shop, Korea



www.TELE-satellite.com/TELE-satellite-0807/eng/koreasatshop.pdf

SEKISAT

Satellite Wholesaler, Korea



www.TELE-satellite.com/TELE-satellite-0801/eng/sekisat.pdf

 SVEC
 YINHE
 BOXSAM
 PREVAIL
MOTECK TEVII
 TEVII
AZURESHINE
SKYWORTH JIUZHOU
GLOBALSAT SOWELL
TRIMAX TENOW
BOJINGSAT JIUZHOU

Fiber Optic and CATV Manufacturer, China



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

Engineers in Research & Development | Total Number of Employees

0 250 500

Average Turnover (Previous, This, Next Year Estimates)

0 12.5 25 Mio €

RoHS

Production Categories

OEM

Main Products

Fiber Optic Nodes and Systems, Optical Receivers and Transmitters, CATV Equipment, Bi-directional Network Transmission Equipment, Head-Ends, Splitters, Taps

PC Card & Receiver Manufacturer. Taiwan



www.TELE-satellite.com/TELE-satellite-1101/eng/tevij.pdf

Engineers in Research & Development | Total Number of Employees

0 25 50

Average Turnover (Previous, This, Next Year Estimates)

0 2.5 5 Mio US\$

RoHS

Production Categories

OEM. ODM

Main Products

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

JIUZHOU

Receiver Manufacturer, China



www.jiuzhou.com.cn



www.TELE-satellite.com/TELE-satellite-1003/eng/jiuzhou.pdf
www.TELE-satellite.com/TELE-satellite-0903/eng/jiuzhou.pdf
www.TELE-satellite.com/TELE-satellite-0803/eng/jiuzhou.pdf
www.TELE-satellite.com/TELE-satellite-0703/eng/jiuzhou.pdf

SVEC

Professional Dish Manufacturer, China



www.svec.com.cn



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

BOXSAM

Receiver Manufacturer, China



www.boxsam.com



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

AZURESHINE

Professional Dish Manufacturer, Taiwan



www.azureshine.com.tw



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

YINHE

High Volume Receiver Manufacturer, China



www.yinhe.com



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

MOTECK

Antenna Motor Manufacturer, Taiwan



www.motek.com



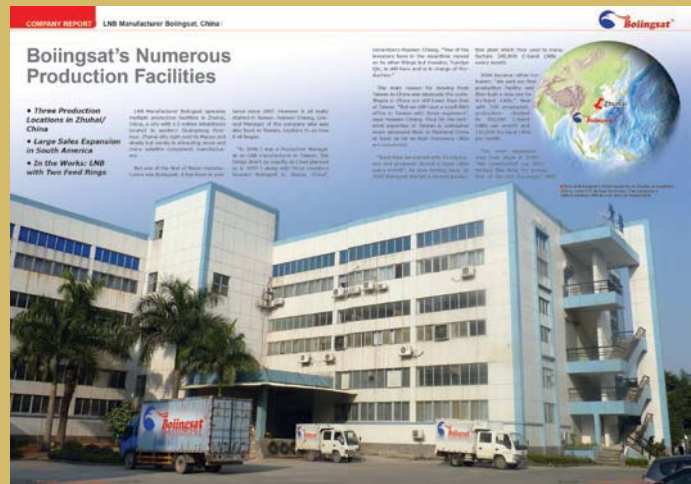
www.TELE-satellite.com/TELE-satellite-0707/eng/motek.pdf

BOINGSAT

LNB Manufacturer, China



www.boingsat.com



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

Company Details

Engineers in Research & Development | Total Number of Employees

0 500 1000

Average Turnover (Previous, This, Next Year Estimates)

0 12.5 25 Mio US\$

Production Certificates

RoHS in preparation

Main Products

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

TENOW

PC Card Manufacturer, China



www.tenower.com



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

Company Details

Engineers in Research & Development | Total Number of Employees

0 12 25

Average Turnover (Previous, This, Next Year Estimates)

0 1.5 3 Mio €uro

Production Certificates

RoHS, DVB

Main Products

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

SKYWORTH

OEM Receiver Manufacturer, China



www.skyworth.com



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

Company Details

Engineers in Research & Development | Total Number of Employees

0 1250 2500

Average Turnover (Previous, This, Next Year Estimates)

0 1.250 250 Mio US\$

Production Certificates

RoHS, CE, REACH, DVB

Main Products

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

GLOBALSAT

Receiver Mass Manufacturer, China



www.globalsatdvb.com

COMPANY REPORT | OEM Receiver Manufacturer Globalsat, China

Millions of Receivers from Globalsat

- GLOBALSAT opens a new production facility in Zhuhai (west of Shenzhen)
- Production capacity of up to 8 million units per year
- More than 100 engineers in R&D
- New multimedia receiver in 2nd quarter of 2011
- Distribution of their own brand name by 2012
- Sales numbers expected to double in 2011

With a new production facility, Globalsat is increasing its global sales. The new facility is located in Zhuhai, a city with a rich history of manufacturing. The new facility is a state-of-the-art building with a large area for production and a modern design. The new facility is a state-of-the-art building with a large area for production and a modern design. The new facility is a state-of-the-art building with a large area for production and a modern design.

Globalsat was founded in 2004. It is a leading manufacturer of satellite receivers. The company has a strong reputation for quality and reliability. The company has a strong reputation for quality and reliability. The company has a strong reputation for quality and reliability.

Globalsat is a leading manufacturer of satellite receivers. The company has a strong reputation for quality and reliability. The company has a strong reputation for quality and reliability. The company has a strong reputation for quality and reliability.

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

Company Details

Engineers in Research & Development | Total Number of Employees

0 125 250

Average Turnover (Previous, This, Next Year Estimates)

0 75 150 Mio US\$

Production Certificates

RoHS, FCC, UL, CE, DVB, ISO

Main Products

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

TRIMAX

Signal Analyzer Manufacturer, China



www.trimaxtec.com

COMPANY REPORT | Digital TV Meter Manufacturer Trimax, China

New Products from Trimax

- New from Trimax: HDTV Signal Analyzer with HDTV Monitor
- Expansion into New Business Sectors such as Fiber Optics
- Manufacturing on Their Own Since 2008

Trimax is a leading manufacturer of digital TV meters. The company has a strong reputation for quality and reliability. The company has a strong reputation for quality and reliability. The company has a strong reputation for quality and reliability.

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

Company Details

Engineers in Research & Development | Total Number of Employees

0 25 50

Average Turnover (Previous, This, Next Year Estimates)

0 1 2 Mio US\$

Production Certificates

RoHS, FCC, DVB

Main Products

Signal Analyzer with built-in Monitor for DVB-S/S2, DVB-T and DVB-C

SOWELL

OEM Receiver Manufacturer, China



www.sowell-tech.com

COMPANY REPORT | Receiver Manufacturer Sowell, China

Sowell, an Engineering Firm that's an OEM

- Founded by 5 Partners
- 2500-T and DVB-T2 Receiver in 2011
- Overseas Offices in the Plan
- User Friendliness in Company Philosophy

Sowell is a leading manufacturer of satellite receivers. The company has a strong reputation for quality and reliability. The company has a strong reputation for quality and reliability. The company has a strong reputation for quality and reliability.

Sowell is a leading manufacturer of satellite receivers. The company has a strong reputation for quality and reliability. The company has a strong reputation for quality and reliability. The company has a strong reputation for quality and reliability.

Sowell is a leading manufacturer of satellite receivers. The company has a strong reputation for quality and reliability. The company has a strong reputation for quality and reliability. The company has a strong reputation for quality and reliability.

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

Company Details

Engineers in Research & Development | Total Number of Employees

0 50 100

Average Turnover (Previous, This, Next Year Estimates)

0 25 50 Mio US\$

Production Certificates

DVB

Main Products

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



Satellite Dealer: USA



Satellite Dealer, USA



Satellite Dealer. USA



Maritime 3-Axis Dish Manufacturer. USA



The New Audio: MPEG Surround

Are we to forget the old good audio codecs? Not exactly!

Jacek Pawlowski

• **When we think about digital TV we usually focus on the video performance. The terms SDTV and HDTV refer to video resolution. To save bandwidth, the original video data stream has to be compressed. Most of our TELE-satellite readers are very familiar with the two most popular video compression standards: MPEG-2 and H.264 (also known as MPEG4 AVC or MPEG-4 Part 10).**

What is often ignored: the audio bit streams have to be compressed as well before broadcast. However, we need different compression methods than those required for the video. In the beginning of digital TV era, the MPEG-1 Level 2 codec was used almost exclusively to compress stereo or mono audio signals. AC-3 also known as Dolby Digital has been implemented a little later for 5.1 audio. So now, when the providers want to make their TV channel available for the users with regular

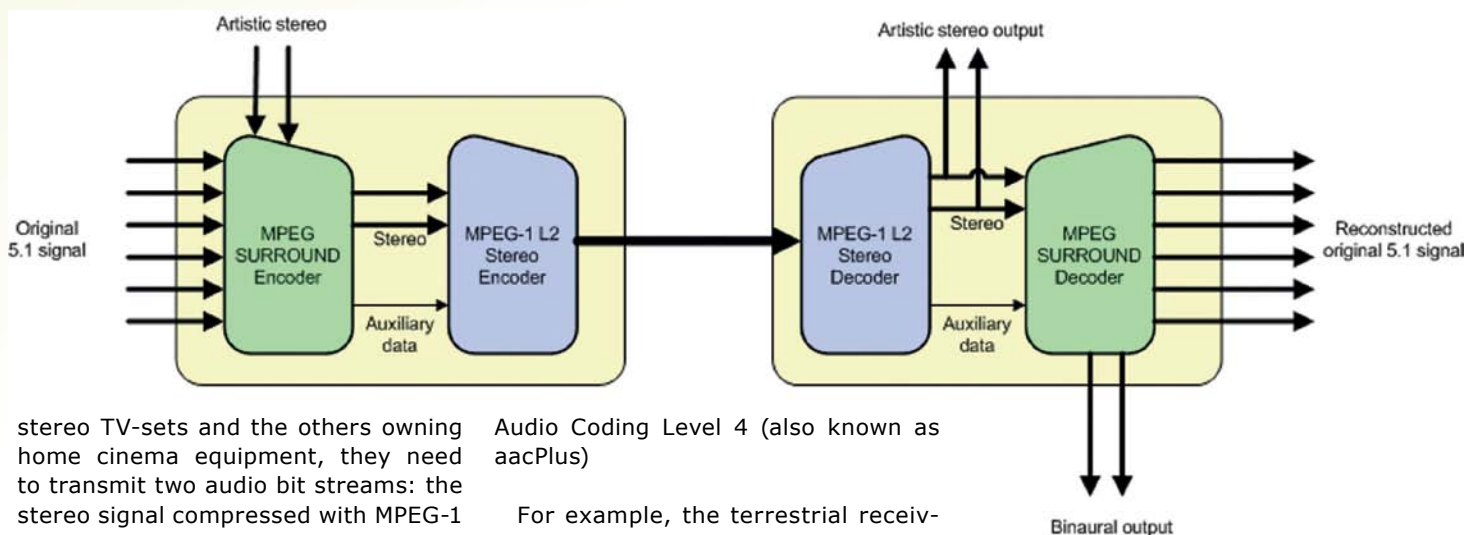
Other standards also found their way into digital TV and radio and now we can meet many kinds of audio codecs in use:

- MPEG-1 Layer 1, 2, 3
- AC-3 (also known as Dolby Digital)
- Enhanced AC-3 (also known as AC3+ or Dolby Digital Plus)
- MPEG-4 Advanced Audio Coding
- MPEG-4 Low Delay Advanced Audio Coding
- MPEG-4 High Efficiency Advanced

MPEG-4 HE AAC Level 4. Some European providers introduced Dolby Digital Plus in their networks and distributed suitable receivers among their subscribers.

And now another new standard appears: MPEG Surround. Is this yet another kid on the block? Not exactly. MPEG Surround works together with one of the existing codecs (we will call them: legacy codecs).

Look at the drawing in Figure 1. The MPEG Surround encoder converts a 5.1 signal bit stream into a stereo bit stream enhanced with some additional data („Auxiliary data” in the drawing). Then a legacy stereo encoder does the normal coding. This can be just MPEG-1 Level 2 encoder if this is a satellite TV system, or HE-AAC encoder if this is a DVB-T or DVB-H system. In any case, the legacy encoder is needed. The auxiliary data (sometimes called: spatial parameters) inserted into the stereo data stream make up only a



stereo TV-sets and the others owning home cinema equipment, they need to transmit two audio bit streams: the stereo signal compressed with MPEG-1 Level 2 codec and additionally the 5.1 signal compressed with AC-3 codec.

Audio Coding Level 4 (also known as aacPlus)

For example, the terrestrial receivers dedicated for Ireland have to comply with MPEG-1 Layer 2 as well as

■ Fig. 1. Principle of operation.

few percent of the total bit stream (3-10%). This little data make it possible to reconstruct the original 5.1 signal on the reception side! It is essential for this system that the auxiliary data is completely transparent for the legacy encoder. MPEG-1 L2 or whatever encoder it is, simply does not recognize this information and let it pass through. At the output, we get transport stream packets that are combined with the whole multiplex and transmitted to the end user. Multiplexing is not shown on the picture.

On the reception side the process is the opposite. First the legacy stereo decoder (e.g. MPEG-1 L2) converts the input signal to the stereo signal while passing through the auxiliary data, then the MPEG Surround decoder converts the stereo and auxiliary information into 5.1 signal. This signal can then be converted to DTS and fed to the output on S/PDIF connector in a typical way.

As you can easily deduce from the drawing, if the receiver does not have the MPEG Surround decoder but only the basic decoder it is still able to decode the stereo signal. MPEG Surround solution is backward compatible – all set-top-boxes can decode the stereo signal and the modern ones with MPEG Surround decoder can additionally output 5.1 signal.

The term „artistic stereo“ means that the L/R stereo signals are not just equal to the front left and front right channels taken from 5.1 signal. They can be the result of downmixing front and rear channels in a specific way to ensure the best effect. This is the job of an audio engineer in a recording studio. As such L/R audio channels of the artistic audio are slightly different from the content of 5.1 group. When we receive the MPEG Surround signal, we are getting the artistic stereo after the legacy stereo decoder.

But the good news about backward compatibility does not end here. MPEG Surround system is compatible with matrix surround decoders – see Figure 2. So, depending on your receiver, the same MPEG Surround encoded signal can be received as classical stereo, legacy matrix surround or MPEG Surround. As could be expected, MPEG Surround ensures better quality than the legacy matrix surround like Dolby Prologic II.

The perceptive reader would no-

tice that there is yet another output from MPEG Surround decoder shown in Figure 1. And this is another exciting feature of MPEG Surround. The binaural signal is the stereo output for the headphones. Using this mode, the listener experiences a 3D virtual multi-channel loudspeaker setup when listening over headphones. This extension is of especially significant interest for mobile devices (such as DVB-H receivers) but also for car radios.

The theory behind the binaural audio is quite complex (as almost everything in digital world) but we can understand the principle of operation in the following way. The system calculates when the particular sound reaches the left ear and when the right ear. Additionally, the system „knows“ how human ear (and mind) perceives the sound volume when it comes from different direction. Based on that, it can slightly change the 5+1 signals by changing its amplitude and delaying one signal versus another before combining them together to form the left and the right ear signals. In this way our mind is tricked to perceive it as 3D audio.

By the way, have you noticed that all that digital video and audio is nothing but the illusion of our mind? And we all agree to pay hard earned money for that!

Various listening tests were performed to confirm the quality of MPEG Surround system. The results depend on the audio bit rate and the legacy de-

coder used. MPEG-4 HE AAC accompanied by MPEG Surround decoders at 64 kbps got a „good“ mark while at 96 kbps the mark was

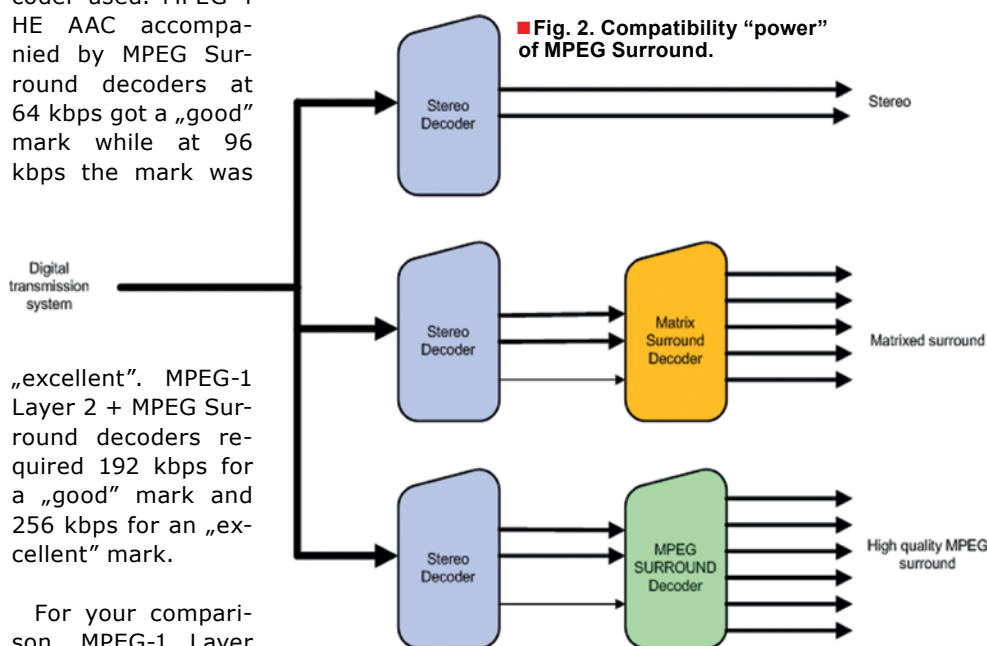
„excellent“. MPEG-1 Layer 2 + MPEG Surround decoders required 192 kbps for a „good“ mark and 256 kbps for an „excellent“ mark.

For your comparison, MPEG-1 Layer

2 classical stereo is usually transmitted with bit rates from 128 kbps (many popular satellite radio channels) to 256 kbps (MTV ROCKS TV channel on HOTBIRD 13 E). Dolby Digital (AC-3) requires 640 kbps for 5.1 audio and Dolby Digital Plus 1.7 Mbps for 6.1/7.1 audio.

But speaking of Dolby Digital and Dolby Digital Plus, will MPEG Surround make those modes less attractive? This is very likely. But do not worry, Dolby were among the inventors of MPEG Surround (next to: Fraunhofer Institute for Integrated Circuits IIS, Phillips, and LSI). So the eventual switch from DD/DD+ to MPEG Surround should not hurt their business too much.

To sum it up. MPEG Surround does not require broadcasters to send separate audio streams for stereo and 5.1 surround, as it can decode a single stream into either format. In this way 100% backward compatibility is retained (including support for matrix-downmixes and artistic downmixes) while the auxiliary information permits next-generation receivers to present a high-quality multi-channel surround experience. MPEG Surround provides very high quality, very efficient compression and scalability (higher bitrate = better surround experience). One of the most exciting extensions of MPEG Surround is the capability to render a 3D/binaural stereo output and experience surround effect in the headphones. Definitely, MPEG Surround is an excellent companion for contemporary HD video.



A/V Connections of a Receiver: What are they used for and which possibilities do they open up?

Thomas Haring

If you take the time to look at all the sockets and interfaces on your receiver's back panel you might ask yourself what they all are for. And more importantly, which option will give you the ultimate video and audio quality, and which is remnant of a by-gone era?

This feature report sets out to answer all these questions, and more: It will help you decide which connection to use for optimum quality, and it will prevent you from jumping with joy simply because of an endless list of options, when the one you really need is nowhere in sight.

Video - How are images carried from receiver to TV set?

Here, the major line is drawn between analog and digital signal transmission.

Digital signal transmission is a rather recent development and has only really sprung to prominence with the roll-out of HDTV in large parts of the world, while

analog transmissions dates back all the way to the beginning of television.

RF modulator

This means a composite video signal – which in techno-speak is an unmodulated TV video signal in the base band (FBAS) – is transmitted via a coax cable.

Such a composite signal may also be

mixed with an audio signal and modulated to a high-frequency RF carrier and than transmitted via radio broadcasting:

Our good old analog terrestrial TV signal is a brilliant example of that transmission mode. It is received from a conventional antenna and sent right to the TV set's tuner.

In the early days of video recorders, satellite receivers and the like, many TV



■ Classic antenna cable with male/female connector

■ Connection panel of a modern receiver (AB IPBOX 9900 HD)



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sets only had this single antenna input available without any additional options.

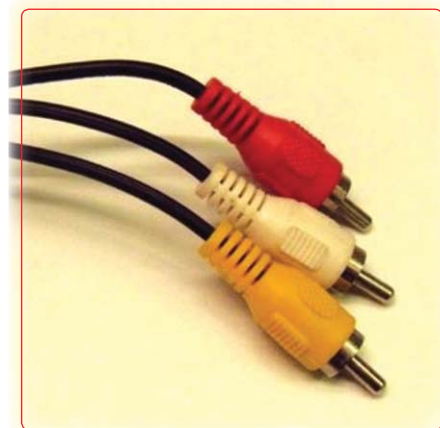
In turn, almost all receivers came with RF inputs and outputs which meant that – on the one hand – it was easy to receive and loop through terrestrial signals and – on the other hand – the receiver's output signal was led to the TV tuner through the regular coax antenna cable.

These days you'd have to look long and hard for satellite receivers with RF connections, as this transport mode is so last century and not up to present-day quality demands.

Cinch (RCA)

A Cinch (RCA) connection carries a composite signal that is not modulated to a high frequency via a thin coax cable. Audio and video signals are transmitted on dedicated lines which means a total of three cables are required for audio (L and R stereo) and video. Cinch (also called RCA) connections are colour-coded, with yellow indicating video, white L stereo and red R stereo.

Almost all currently sold TV panels and satellite receivers are equipped with these three Cinch (RCA) connections for composite video and stereo audio.



■ Classic coax cables with Cinch connectors for composite video and stereo audio

Why is that? Quite simply because composite video and stereo audio represent the lowest common denominator and whenever no higher-quality option is available you can conveniently fall back on this established standard.

However, you should take into account that the video quality, in particular, leaves some room for improvement. Since all video information is transmitted in a single cable colour errors invariably occur, especially in case of extended cable lengths.

Aside from conventional Cinch (RCA) connectors we also find BNC connectors, mainly professional settings.

BNC connectors have an impedance of 50 Ohms, which is exactly the same value

as the coax cable. Even though, they still cannot work wonders with regard to a composite video signal – the only help would be to split up all components of a video signal into dedicated cables.

Y/C

Y/C, or Super VHS / S-Video as it is also referred to, is a cable standard which consists of two signals lines (inside a single cable) to separately transmit luminance (Y – brightness) and chrominance (C – colour) information using mini-DIN connectors.

When compared to composite video



■ Y/C cable with mini-DIN connector

Y/C is able to deliver markedly improved colour separation and a significantly better overall video quality.

When S-VHS recorders flooded the market in the 1980s this standard rose to the occasion and was quite popular for some time. Today, however, it lives in the shadow of its more able successors.

RGB

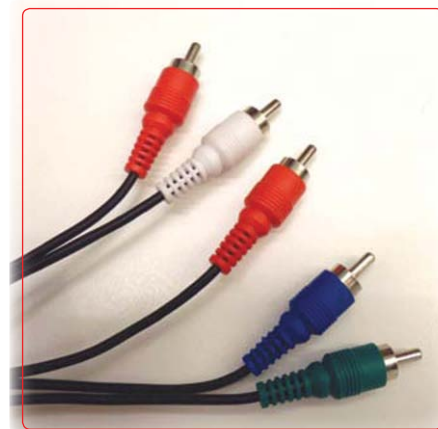
RGB norm splits up the colours red, green and blue (hence the name) into separate signal lines. This allows creating all available colours without interference, thanks to additive colour mixing. Adding 100% of each colour creates white.

For a long time RGB has been the method of choice for professional applications and – with some lag of time – even in the consumer market.

To this day most AV devices are perfectly happy to accept RGB signals and to create an RGB output signal. This makes RGB far more widespread than Y/C, which it also leaves behind as far as video quality is concerned.

YUV (Y, R-Y, B-Y)

YUV is the first analog transmission standard to allow resolutions that are higher than 576 lines (PAL) and 480 lines (NTSC). Thanks to three discrete signal lines colour signals are not split up into red, green and blue any longer, but into



■ YUV cables

luminance (Y), the difference between red and luminance (R-Y) and the difference between blue and luminance (B-Y). Green can be created out of these parameters.

Form a purely technical perspective, this transmission technology exploits the fact that the human eye does not react to colour as sensitively as it reacts to brightness, which means that brightness (Y – luminance) must be reproduced as accurately and with as few errors as possible.

YUV is capable of transmitting 720p and 1080i resolutions, making it the only analog standard that is fully HDTV-compatible. It is not possible to use YUV for 1080p, however.

When it comes to analog video transmission YUV definitely is the way to go, even though in the consumer market it has been losing ground against HDMI, which is a purely digital technology.

If your receiver at home features YUV outputs and your TV has the corresponding connections as well, you are able to enjoy HDTV on your screen, even though the digital HDMI output should be preferred, if available.

All four signal transmission modes discussed so far are based on standard coax cables to connect various devices. Depending on technology, the number of cables and signal lines differs considerably and even the connector types are not the same for different modes.

While professionals use massive coax cables which are perfectly shielded against outside interference and attach top-quality BNCs (bayonet nut connectors), more cost-efficient systems have conquered the consumer market.

As mentioned previously, a rather thin coax cable with Cinch (RCA) connector has turned out to be the lowest common denominator which is supported by almost all devices. Depending on the number of signal lines it is possible to transmit either composite video, RGB or



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YUV. Y/C is the only standard that uses mini-DIN connectors rather than Cinch (RCA), making it incompatible with all other types.

SCART

SCART, short for Syndicat des Constructeurs d'Appareils Radiorécepteurs et Téléviseur, is a European peculiarity. As can be seen on the picture, it is a cable with a thickness of more than 1 cm and consists of up to 20 separate signal lines. Consequently, a SCART connectors features 20 pins, with the connector shell made of metal as well, so that at the same time it serves as pin no. 21 which is required for grounding purposes.

With such a high number of available lines a SCART connection can simultaneously transmit composite video, Y/C, RGB, YUV as well as a whole range of additional information such as a control signal for automatically switching to the SCART input, for example.

If a receiver is connected to the TV set via SCART cable the receiver's software is used to select the desired transmission mode with the result that the individual signal lines of the SCART cable are fed accordingly. Have a look at table 1 for all pin assignments.

In summary, the following transmission modes are available for analog video signals:

- composite video
- Y/C
- RGB
- YUV

as well as the following connector types:

- RF
- Cinch (RCA)
- mini-DIN
- BNC
- SCART

Of all these, YUV is the only transmission standard compatible with high-definition video, while composite video via Cinch (RCA) represents the still very important base level of video transmission, mainly due to its wide-spread use.

Our recommendation is that receivers should at least be equipped with composite video and stereo audio outputs for analog transmission. This way you can always fall back to this base level in case you encounter installation troubles with higher-quality connection types.

Even though composite video is not exactly state-of-the-art, it will still bring the receiver's OSD on your TV even if



■ SCART cable



■ Scart connector with all 21 pins easy to notice

Pin	Signal
1	Audio R output
2	Audio R input
3	Audio L output
4	Audio ground
5	RGB blue ground
6	Audio L input
7	RGB blue signal
8	AV switching voltage
9	RGB green ground
10	Data line 1
11	RGB green signal
12	Data line 2
13	RGB red ground
14	AV switching voltage ground
15	RGB red signal
16	Blanking signal
17	Composite video ground
18	Blanking signal ground
19	Composite video output signal
20	Composite video input signal
21	Shielding

■ Table 1: PIN assignment of a scart connector

everything else fails. Cinch (RCA) sockets are all you need for that.

Avoid RF connections, as these should really be a thing of the past by now. Mini-DIN and Y/C are nice extras, but you can nicely do without those.

For readers in Europe SCART connections are the easiest way of dealing with all sorts of analog signals.

Digital signal transmission - HDMI

The acronym HDMI stands for High Definition Multimedia Interface and refers to an interface for fully digital transmission of audio and video information. Developed in 2003 it is the first fully digital transmission option, which is the most distinguishing characteristic when compared to YUV.

A second major feature in terms of access and content control is its integrated digital rights management (in other word: built-in copy protection) by the name of HDCP, which is short for High-bandwidth Digital Content Protection. This integrated – and so far also perfectly efficient – mechanism was the conditio sine qua non for all stakeholders to agree to a fully digital standard in the first place.

Similar to a SCART cable a HDMI cable (Type A) consists of 19 separate signal lines for transmitting digital content based on the TMDS (Transition-minimised Differential Signalling) protocol. Thanks to this method it has become possible for the first time to digitally transmit high-definition content up to 1080p via a single cable. With 1080/30p this means 30 full images per second at a resolution of 1920x1080 pixels, which requires a typical bandwidth of 27 Mbit/s.

HDMI also carries digital audio content, so a single cable is all it takes for both fully digital audio and video transmission.

In theory, HDMI is capable of carrying all audio formats that are available from DVD and DVB. In actual terms, Dolby Digital has established itself as the format of choice which covers the full range from single mono channel to 6-channel digital surround sound.

Thanks to available bandwidth via HDMI even multi-language audio tracks can be made available. Even when it comes to very recent developments such as Dolby Digital Plus or DTS-HD HDMI cannot be pushed to its limits since the required audio bandwidth is very small when compared to video, and the overall bandwidth available via HDMI is more than sufficient.

What's more, thanks to digital technology HDMI is perfectly fit for future upgrades and actually has experienced



■ HDMI cable



■ HDMI Type A connector

Pin	Signal
1	TMDS Data 2 +
2	TMDS Data 2 Shield
3	TMDS Data 2 –
4	TMDS Data 1 +
5	TMDS Data 1 Shield
6	TMDS Data 1 –
7	TMDS Data 0 +
8	TMDS Data 0 Shield
9	TMDS Data 0 –
10	TMDS Clock +
11	TMDS Clock Shield
12	TMDS Clock –
13	CEC
14	N/C (Reserved)
15	SCL
16	SDA
17	DDC/CEC Ground
18	+ 5 V Power
19	Hot Plug Detect

■ Table 2: PIN assignment of an HDMI Type A connector

some revisions already. We currently stand at HDMI standard 1.4a, but it should be stressed that any HDMI standard always has to be compatible with previous standards.

As far as HDMI connectors are concerned, there are four different types available, with types A and B being the most popular by far. Types C and D are miniature versions which were introduced only some time after HDMI was launched (type C with HDMI 1.3 and type D with HDMI 1.4). These smaller types are mainly used for camcorders, still cameras and the like.

No currently available receiver should have to do without a HDMI connection. If an HDTV box comes without HDMI you should not even bother to give it a closer look.

Audio - Striking the right tone

Most of what can be said about video is also true for audio, with the exception that – due to much lower bandwidth requirements – audio has gone digital long before video.

For analog stereo transmission two separate signal lines are required, which are connected to the two devices either with Cinch (RCA) or BNC connections. In the consumer market red and white lines are the established standard.

The European SCART connection with its 21 lines also has more than enough capacity for stereo audio and thus allows convenient audio and video transmission for analog signals with a single cable.

Yet, the advent of various surround sound systems has quickly shown that analog transmission was not sufficient to meet consumer demands any longer. For Dolby Surround the industry got around by implementing matrix coding in order to package signals for four audio channels into two existing lines, but as soon as 5.1 channels (left and right front, centre, left and right rear plus sub-woofer) were required a simple two-line standard simply didn't do the trick anymore.

You have to go digital in order to transmit six discrete audio channels side by side, and the S/PDIF (Sony/Philips Digital Interface) standard was established to that end. This digital standard uses either a fibre optic cable or a coax cable with Cinch (RCA) connectors to digitally transmit audio.

Most devices these days use a fibre optic cable, and if the need arises an inexpensive converter box is able to convert an optical signal into an electrical (coax) signal. So if you're faced with a receiver that only offers optical audio output, while your home stereo only has a coax input then this is something that need not cause headaches.

The introduction HDMI has also solved

the problem of audio transmission between AV device and TV panel, as the HDMI standard carries audio alongside video.

This is an aspect that should not be underestimated, since the data rate of S/PDIF is somewhat limited and does not really allow the most recent audio formats such as Dolby Digital Plus and DTS-HD.

For the sake of compatibility the data rate via S/PDIF is down-converted to 6 Mbit/s for transmission via S/PDIF, even though it has to be said that the full audio bandwidth for these latest audio formats can only be enjoyed via HDMI.



■ BNC connectors

Which connection option should your receiver have?

HDMI is an absolute must for any modern receiver, not least because it will keep your box fit for future digital transmission standards.

Analog component video transmission is also very capable, particularly in case a problem occurs with the HDMI connection. YUV and SCART connection are nice to have, but you can easily do without them as HDMI is a better option by far.

RF socket and Y/C are long past their 'use by' date and these days are more or less useless.

On the audio front you need to make sure to either have a digital optical output or a digital coax output as well as two Cinch (RCA) connections for analog stereo.

Even though HDMI is bound to fully take over audio transmission in future it's never a bad idea to have additional analog and digital outputs to connect with older devices that may not be HDMI compatible.

The Shovel DXer

Farmer Jang Lee lives in the Gangwon province in northeastern South Korea. As is typical for any farmer, he most often uses shovels of all different shapes and sizes. But since he's also a satellite enthusiast, he uses these shovels not only for his daily farming work but also as satellite dishes! This is something we just had to take a closer look at.

For Jang Lee it's not the lack of "real" satellite dishes that make him reach for shovels. His home and garden are filled with all different kinds of dishes.

"I was determined to show how easy satellite reception really is", explains Jang Lee as he shows his collection of various shovels, cooking pot lids and sieves.

Sure enough, it isn't all that hard to receive strong satellite signals using unconventional reflectors. Anything that can even partially focus satellite signals can be used.

"It's fun to work with unconventional equipment", says Jang Lee. As a farmer he is quite used to working with his hands, so much so that he even welded the LNB mount into place. "This makes for a very stable set up", Hisaka comments proudly regarding his handiwork.

Jang Lee has shown that a shovel can be used for more than just digging a hole!

■ So what do you think of this nice sieve reflector?



■ TELE-satellite presents Jang Lee's latest dish creation: could it be this shovel? Or that one? Or even a lid?



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■ Jang Lee also has a folding spade at his disposal.



■ A cooking pot lid reflector with thanks to Jang Lee's grandmother for supplying the lid.



■ A small lid works too!



■ A satellite dish doesn't need to be big: this small lid also does the trick.



■ Jang Lee from South Korea knows his way around satellite reception: with his numerous antennas he receives all of the visible satellites in northeastern South Korea.

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■ Don't feel like permanently installing the shovel?
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Tevii PC Cards and SVEC Antennas as Pillars of Success

Wholesaler MIR-ANTENN in Moscow was only founded in 2010 and thus ranks as a very young company in the satellite field. Even though, the company has embarked on an impressive road to success right from the start with its distribution of Tevii PC cards and SCEV satellite antennas. In its position as wholesaler, MIR-ANTENN obviously also offers all sorts of other equipment and components a satellite installer might require. We visited the start-up business in the north-western area of Moscow, only a few blocks from Mitino station, the end of metro line 3 – an area mostly made up of new residential buildings.

MIR-ANTENN uses the office premises of one of the large and airy buildings for their business. Three employees take care of customers, who are commercial customers only, such as retailers and installers. The company does not do business with private end users.

Rinat Gubeydullin is the Managing Director and tells us some more about himself and MIR-ANTENN. "I have a degree in electrical engineering," he says and at the same time admits that at home all he uses is a 60cm satellite antenna for reception of local channels. "However, our range also includes a multi-LNB dish with a diameter of 90cm – and it even

■ MIR-ANTENN (the Russian word 'mir' means 'peace' in English) can be found on the ground floor of this recently built apartment building.



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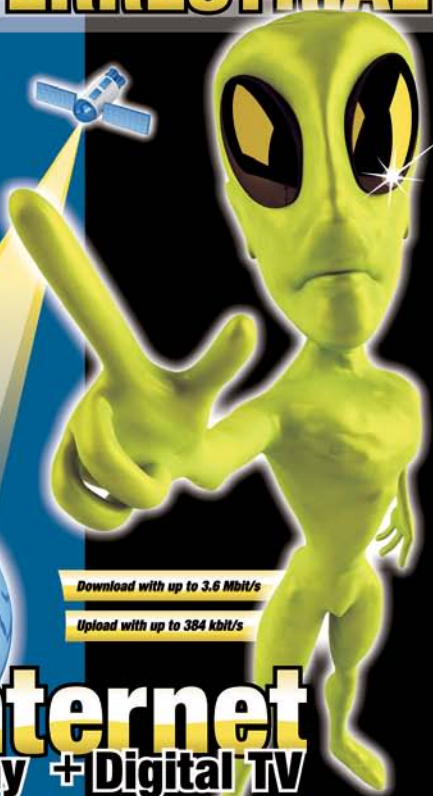
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sells reasonably well," Rinat Gubeydul-
lin continues. This goes to show that his
company does not only have things in
store for your average Joe, but for more
demanding satellite enthusiasts as well.

Incidentally, we have tapped into a
major issue there: MIR-ANTENN is a big
player when it comes to selling satel-
lite antennas made by SVEC. We turn to

Sales Manager Shamil Nyrimanov to find
out more. "We mainly sell the 60cm and
90cm dishes made by SVEC," he reveals,
but an increasing number of customers
requests other sizes as well. "That's why
we also offer 55cm, 120cm and 180cm
dishes, and even mesh antennas with a
diameter of 240cm are in demand time
and again," Shamil Nyrimanov goes on.

Sales figures are modest at the moment,
but taking into account the very young
age of the company this is hardly sur-
prising. "Some 50 SVEC dishes go over
the counter every month right now." All
indicators are pointing up sharply, how-
ever, and that is the only thing that really
counts at this stage.

The number of Tevii PC cards that are



■ SVEC antennas are displayed prominently in the MIR-ANTENN reception area. Also shown are additional terrestrial antennas offered by the company as well.



sold by MIR-ANTENN also is quite small at the moment. Technical Manager Mike Ilyukhin shows us the PC cards in the display cabinet and explains "we sell approximately ten of them each month." While this will hardly take your breath away it is still a good start and set to increase substantially.

As a start-up business MIR-ANTENN seems to have chosen the right track with selecting excellent products. On the Internet the company can be found at www.mir-antenn.ru and www.satellite-trade.ru and for everyone in or around Moscow looking for Tevii PC cards or SVEC satellite antennas they are the place to go.

■ Technical Manager Mike Ilyukhin in front of the Tevii PC card display cabinet in the MIR-ANTENN showroom.

■ Shamil Nyrimanov (left) is the Sales Manager of satellite and antenna wholesaler MIR-ANTENN, while Rinat Gubeydullin (right) pulls the strings as Managing Director.





The World of Satellite Markets

Backlist: Previous Reports about China Satellite Markets

Satellite Market in Changchun, Jilin, China: www.TELE-satellite.com/TELE-satellite-0801/eng/chinasatshop.pdf

Note: Replace *eng* with corresponding language code - see page 178

Satellite Shopping in Chengdu, China

Chengdu is the capital of the province of Sichuan in southwestern China. With a population exceeding eight millions it is one of China's high-tech centres. So where do you shop for satellite equipment in Chengdu? We turned to Luo Shigang from Shenzhen-based Aluosat and naturally he knew the answer: "Why not visit Cheng Huangmiao Market?"



■ The entrance gate to Huangmiao Market lies right between two high-rise buildings.

Just before Dongda Street merges into the Third Circular Road (Northern Area, Third Section) a symbolic gate marks the entrance to Huangmiao Market. The place consists of numerous buildings with apartments on the higher levels and a huge number of small electronics shops on the lower levels. A walk through the market leads you past a new electronics shop virtually every few metres. Simply look out for 35 or 45-cm dishes displayed in shopfronts if you're after a shop dealing with satellite

equipment. Bear in mind, though, that these dishes can only be used to receive signals from China's new DTH satellite.

We meet Mr. Pei in the small office behind his shop. He is one of only few dealers also selling larger dishes with diameters of 1.2 or 1.5 metres, even though you would never notice that when walking through his store. "This is a somewhat delicate matter," Mr. Pei admits. "Officially, private satellite reception is not allowed in China."

And it's true that small satellite antennas galore can be seen in the market, but you'd be hard pressed to also find a corresponding receiver, for example. "We'd rather leave these components in the warehouse," Mr. Pei ambiguously explains. "After all, we prefer to be on the safe side." Now we also understand why he declines to reveal his full name.

Way more than 2,000 dealers create Huangmiao Market's typical buzz. Several hundreds of them also sell satellite equipment. When asked about



■ Mr. Pei provides some market insight in his office.

the number of satellite systems passing hands each day in all of Huangmiao Market's shops Mr. Pei estimates that it's definitely between 10.000 and 20.000. "Even 20 or 30 of the larger 1.2 and 1.5 metre antennas are sold on a single day."

In another shop we meet Tiam Cheng, who takes out a receiver for the Chinese ABS-S norm from below the counter. "You can buy a complete set including antenna, LNB, cable and this receiver for 130 RMB," which is no more than 13 EUR. "And this is the retail price, in wholesale you will get it for even less," Tiam Cheng hastens to add. She should know, after all more than 100 sets go over her counter every month.

In China, satellite reception is well on its way to becoming a mass market. Most people can easily afford to buy a satellite system as China's electronics markets are virtually bursting with extremely inexpensive components.

■ Meet Tiam Cheng: Here she presents an ABS-S receiver which she sells for 130 RMB complete with 35-cm dish, LNB and coax cable.





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■ Heaps of 35-cm mini-dishes.



■ Antennas and coax cables in any required length.



■ Shopfront parade of dishes.



■ Looking for remote controls and satellite antennas?



■ Customer checking out a satellite system.



■ Customer examining one of the 45-cm antennas that are available here in sheer endless numbers.



Edited by
Branislav Pekic

EUROPE

ESTONIA

TALLIN TV FIRST IN HD

The city-government-financed channel, Tallinn TV, which began broadcasting in January, is the first Estonian TV channel which promises airs programs in HD format. The channel is available to Elion cable clients who may choose between regular- and HD-quality broadcasts.

ITALY

MEDIASET LAUNCHES FIRST TERRESTRIAL 3D TV SERVICE

Mediaset launched the world's first terrestrial 3D TV service in January, following a successful trial. 3VOD, runs on Motive's Bestv STB, offers subscribers the ability to view films from a selection of around 50 films. It was originally offered as a limited trial to subscribers from late last year. 3VOD trickle the movie file to the Bestv STB throughout the day and night and the box stores the film on its hard drive.

KOSOVO

IPKO AND DIGITALB PROVIDE 6 HDTV CHANNELS

IPTV operator Ipko and DTH platform Digitalb are offering six new HD channels to subscribers equipped with HD or HD Ready TV sets. Premium HD is a package that contains 98 channels (84 TV Premium channels, 8 Super-Sport channels and 8 HD channels) and can be purchased for a time period of six or 12 months.

MALTA

MELITA ADDS SUNDANCE CHANNEL IN HD

Melita TV subscribers can now access an exclusive channel, Sundance Channel, which will be available both in standard and High Definition. It offers audiences a selection of films, documentaries and original programmes under the creative direction of Robert Redford. The Sundance Channel HD is available on the XL HD package. In addition, Melita provides another 15 high-definition channels such as Food Network HD, Sky News HD, ESPN America HD, Discovery HD Showcase, National Geographic HD, Nat Geo Wild HD, Luxe TV HD, iConcerts HD, History HD, FashionTV HD, MTVN HD, Eurosport HD, Stars HD and Melita Sports HD..

PORTUGAL

TVI SELECTS ATEME FOR MPEG-4 SNG

TVI is upgrading its SNG vehicles with ATEME's H.264/MPEG-4 capable contribution encoding system for covering sporting and other outside events in HD. TVI has started by upgrading one of its SNG vehicles to ATEME's CM4101/DR8400 broadcast contribution encoder/decoder pair in order to provide HD coverage of football matches for worldwide distribution by the EBU/Eurovision satellite services. The ATEME solution supports H.264/MPEG-4 HD 4:2:2 10-bit encoding scheme as the broadcast industry migrates to that over the next few years.

TVCINE INCREASES HD CHANNEL OFFER

TVCine has increased the number of HD channels provided to pay-TV operator Zon TV Cabo for its cable and DTH offering. TVCine 1 HD and TVCine 2 HD are offered exclusively and free of charge to all TVCine customers.

MEO LAUNCHES THREE NEW HD CHANNELS

Meo has launched three new HD channels, dedicated to lifestyle, music and documentaries. They are: Food Network HD (also available in the SD version), Mezzo Live HD (with distinct programming to the SD version of the channel Mezzo) which is 100 percent in Native HD, as well as the Travel Channel HD. A

SERBIA

ARENA SPORT OPTS FOR OMNEON FOR HD CHANNELS

Serbia's Arena Sports has built one of the region's first HDTV stations and automated, file-based workflows on an Omneon infrastructure. A MediaGrid active storage system is integrated with five MediaDeck server systems in a platform that connects systems within the new Arena Sport Belgrade facility. The MediaDeck server systems operate under the control of Snell Morpheus automation and are connected to HD satellite receivers and a digital HD routing system.

SPAIN

COSMOPOLITAN TV TO LAUNCH HD FORMAT

Cosmopolitan Television Iberia, a 24-hour network that offers lifestyle programming for young women in Spain, is available in HD since January. Launched in partnership with Digital +, the Cosmopolitan HD channel will broadcast movies and TV series, including Gossip Girl, Army Wives and Hellcats.

SWEDEN

CANAL DIGITAL SELECTS PACE FOR HEAD-END UPGRADE

Canal Digital Sweden will deploy the Pace MDC1000 head end platform to support its nationwide upgrade of SMATV head ends, enabling it to deliver digital TV, including HDTV, with minimum disruption to customers. The Pace MDC1000 is an easy to install and adaptable solution, enabling Canal Digital to rapidly deploy digital services to smaller SMATV and cable TV networks, including previously hard to access areas such as suburbs and rural communities. The system can be managed remotely for diagnostics, configuration, maintenance, and upgrades, reducing the time and cost of sending out engineers to specific sites.

UKRAINE

TWO HD CHANNELS LAUNCH IN UKRAINE

Two new foreign TV channels - Discovery HD Showcase and Animal Planet HD - have joined the list of foreign channels in Ukraine, following a decision taken by the National Council on Television and Radio Broadcasting in January. According to the Deputy Head of the Council, Oksana Holovenko, both channels fully corresponded to the requirements of the European Convention on Trans-border Television and contained no direct advertising.

UNITED KINGDOM

70,000 HOMES SIGN UP FOR 3D

Sky has announced that 70,000 customers have signed up for the pioneering 3D TV channel Sky 3D since it was launched last October, indicating the channel's early success and the level of enthusiasm for 3D television. Accord-

ing to John Cassy, Sky 3D's channel director, around half of all 3D TVs sold so far in the UK are connected to Sky 3D. Sky now has 3.5 million HD customers, a 68% increase year-on-year.

MORE THAN ONE MILLION FREEVIEW HD SETS SOLD

More than one million Freeview TVs and set-top boxes that can receive HD channels have been sold. Some 642,000 homes in the UK have hardware that allows them to access Freeview's HD service, which was launched nearly a year ago. The TV service hopes that by the end of next year, 98.5 percent of the UK will be able to receive Freeview HD. After BBC HD, BBC One HD and ITV HD, Freesat is adding the Channel 4 HD channel to its line-up in April.

NORTH AMERICA

CANADA

SHAW HAS OVER 1.2 MILLION HD CUSTOMERS

Shaw Communications said in January it now has over 1.2 million customers capable of receiving HD programming. The number includes 790,000 HD capable customers at Shaw Cable and 415,000 HD customers at Shaw Direct, the company's DTH division. Overall the company has 3.23 million cable and satellite television subscribers which means about 37.3% of its customers can receive HD programming. Shaw cable now offers over 50 HD channels as well as HD programming through its VOD while Shaw Direct now offers 78 HD channels.

UNITED STATES

3NET LAUNCHES ON DIRECTV

A new 3-D television network from Discovery Communications, Sony Corp and Imax Corp launched in February on DirecTV. The network, called 3net, is available to more than 18 million homes and is the first distribution deal.

PENTHOUSE TO LAUNCH 3D CHANNEL

Penthouse announced the launch of the Penthouse 3D Channel, featuring original adult-oriented programming shot in native HD and 3D. Penthouse 3D will complement the already successful and growing Penthouse HD Channel line-up covering over 30 platforms in more than 15 countries. The Penthouse 3D Channel is expected to be available to system operators for broadcast to the general public in the 2Q 2011.

HDTV PRICES EXPECTED TO DECLINE

According to a recent report from the Consumer Electronics Association, in 2010, 34.4 million HD TV sets were shipped by manufacturers. That's down 500,000 from 2009, the first drop since 2005, and it's expected these sales will continue to decline in 2011. Critics suggest that many people already own HDTVs, and that the decrease in demand is likely due to market saturation. Also, there simply just too much choice when it comes to HDTVs.

LATIN AMERICA

BRAZIL

BBC TO LAUNCH HD TV CHANNEL IN BRAZIL

BBC Worldwide Channels is preparing the launch of the BBC HD channel for Brazil, according to local media reports. The idea is that the channel's programming is similar to the BBC Entertainment channel, but is also customised to the local public.



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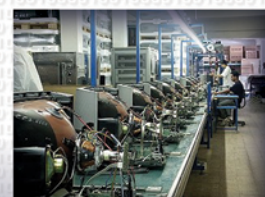


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The channel will broadcast exclusive to Brazil with Portuguese subtitles, from later this year.

ASIA & PACIFIC

CHINA

BIGBAND TO HELP JIANGSU CABLE DELIVER MORE HD SERVICES

BigBand Networks is providing its Switched Digital Video (SDV) solution to Jiangsu Broadcasting Television Network Corporation (Jiangsu Cable). This is BigBand's first commercial SDV deployment outside of North America and will free up the bandwidth necessary for the growing demand for more HD VOD services in China. Jiangsu Cable is one of the largest cable operators in China with over 17 million subscribers. The company selected Zhenjiang as the initial regional deployment of SDV within the province and plans to expand to other cities in coming years.

INDIA

DISH TV TO USE ASIASAT 5 TRANSPONDERS TO BOOST HD

Dish TV India will be using four 54 MHz Ku-band transponders on AsiaSat 5 to enhance its HD and SD DTH offerings in India. Dish TV serves over 9.5 million subscribers with an expanding bouquet of some 270 channels and services. Additional transponder capacity on AsiaSat 5 will enable Dish TV to significantly increase its DTH offerings to more than 30 HD and 320 SD channels.

ISRAEL

ISRAEL GREENLIGHTS FOUR HD CHANNELS

The Israeli Government in February unanimously approved expanding the number of free TV channels available to the public from five to 12 regular channels and four HD channels within the next two years. Currently, only channels 1, 2, 10, the Knesset Channel and Channel 33 are free. Under the latest decision, Educational TV channel 23, Russian-language channel 9, music channel 24 and an HD channel will be added at first. In the second stage, one channel in Arabic, a heritage channel and additional HD channels will also be added.

MALAYSIA

UNIVERSAL HD ARRIVES IN MALASIA

Universal Networks International has launched its first HD channel in South-East Asia. The Comcast-owned network distribution unit has debuted Universal Channel HD on Telekom Malaysia's IPTV platform HyppTV. The launch comes on the back of the channel's arrival in Japan last year, with plans for further HD launches of its channel brands in the Asia Pacific region in the year ahead.

NEW ZEALAND

FREEVIEW HD COVERAGE TO EXPAND BY JUNE

Ten more centres should be able to receive FreeviewHD by the end of June, after obstacles that threatened to delay the expansion of the HD free-to-air service to another 12 per cent

of the population were overcome. The Government announced in September that it would meet the \$7 million capital cost of extending the service to Wairarapa, Taupo, Whanganui, Taranaki, Nelson, Gisborne, Rotorua, Whangarei, Timaru and Invercargill. However, the project was held up by negotiations between transmission companies and broadcasters over the ongoing costs of running the service.

SINGAPORE

MEDIACORP SELECTS SNELL KAHUNA FOR HD MIGRATION

MediaCorp has chosen Snell's Kahuna HD/SD multi-format production switcher as a central element in the company's migration to HD operations. As the first Snell Kahuna installation in Singapore, the system provides seamless mixing of SD sources into HD broadcasts from MediaCorp's newly refurbished, state-of-the-art Studio 4.

SOUTH KOREA

KBS FORMS CONSORTIUM FOR 3D CONTENT

KBS has signed on to form a consortium with the leading companies of 3D industries to accelerate the development of 3D content. Last year, KBS broadcast the 2010 Daegu IAAF World Challenge live in 3D, achieving a new standard of 3D broadcasting. Among the companies that are involved in the consortium are Stereopictures, which specialises in 2D to 3D conversion, and Two Eye Digital.

EUROPE

CROATIA

T-HTV has selected the 16 degrees East satellite position operated by Eutelsat to extend reach of its MAXtv pay-TV platform to all homes across Croatia. The two companies have concluded a 10-year contract for three satellite transponders. The new satellite service will extend coverage to semi-urban, rural communities and Croatian islands in the Adriatic. In addition, for T-HT's ADSL subscribers, a new hybrid box will enable users to benefit from interactive services through the DSL network and a broad range of digital and HD television delivered by satellite.

T-HTV INTRODUCES TV ON IPTV PLATFORM
T-Hrvatski Telekom (T-HT) has expanded its IPTV platform MAXtv with the addition of PPV services on the Arena Sport channels. Every weekend, an average of 12 sporting events is available including football, basketball, hockey and rugby. Users can subscribe to individual sports events and prices range from HRK 20 to HRK 60.

FRANCE

FRANCE TELECOM ADDS NEW CHANNELS
France Telecom has boosted its IPTV offering, TV d'Orange, with the addition of new music and video chan-

nels as well as a free premium movie Android application. Complementing its 130 channel IPTV offering, is its new (Extra) video channel package, which includes offers 35 new channels in addition to 10 new on-demand channels. Orange is offering Extra at a €7 discount for the first three months in an effort to expand VOD take-up.

ITALY

COMBINE OFFERING Sky Italia and Fastweb in February agreed to Sky's satellite TV offer with Fastweb's broadband internet and landline services. Under the terms of the new offer, named "Home Pack", consumers will be able to choose entertainment, connectivity and telephony with a single bill that combines the Sky Italia subscription with Fastweb's broadband services. The two companies said the new offer is better priced than purchasing the single services separately and is aimed at winning new customers in the Italian market.

Italy has now reached 700,000 subscribers to IPTV services, according to the first report issued by the recently-formed Italian IPTV Association. Some 5% of Italian households now own Web-connected devices such as TVs, Blu-ray players and games consoles which enable the streaming of OTT content to the main screen in the home, and the number of users of IP-based television services could grow considerably in the coming years. However, regulator framework geared for traditional media and problems in signing content rights deals could hinder further development.

THE NETHERLANDS

KPN has signed a distribution deal with BBC Worldwide under customers of its IPTV service will get access to the BBC One, BBC Two, BBC Three, BBC Four and BBC HD Look channels. KPN added around 60,000 subscribers for its IPTV service Interactive TV in the 4Q 2010 to reach a total of 302,000 customers by the end of the year. KPN also added live HD coverage of premier football league Eredivisie. The new package called Eredivisie Live costs €12.50 per month.

PORTUGAL

RTP LAUNCHES MUSIC CHANNEL ON IPTV launched a TV channel dedicated to Portuguese music in March on both cable and IPTV. RTP is investing €1.3 million in the project and the expectation is that advertising and distribution revenues will cover the investment by the end of this year. RTP Music will predominantly air Portuguese music and artists of Portuguese-speaking countries.

RUSSIA

NTV-PLUS has confirmed that it is planning to enter the IPTV market this year. The operator, which offers over 130 channels on its satellite TV platform (including HD), states that it is looking for partners to meet key needs within the project, including content provision, content protection and project management.

VOLGA TELECOM LAUNCHES IPTV
Volga Telecom has launched IPTV services across the territory of Nizhny Novgorod in the Volga federal



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district. The new service offers more than 100 linear channels divided into seven thematic packages, including an HD package and trial versions of 3D channels, as well as VOD options. The service also offers TV catch-up options, parental controls, information services such as exchange rates, weather forecasts, news and more.

SLOVENIA

TELEKOM SLOVENIJA OPTS FOR NETGEM STB

Telekom Slovenija has selected Netgem's N5000 TV/Web adaptor device for its IPTV service SiOL TV, branding the device the SiOL BOX S. Telekom Slovenije selected set-top boxes and middleware from Netgem last August as part of its plans to upgrade the legacy infrastructure for its IPTV service. The operator had reached around 120,000 subscribers for SiOL TV by August 2010, up from 105,000 one year previously.

SWITZERLAND

SWISSCOM LAUNCHES IPTV APP

Swisscom has launched a new smart phone app, designed respectively to enable users to access the programming guide of its IPTV service Swisscom TV and schedule recordings. Swisscom TV customers can now access the free new Swisscom TV Guide app, available immediately on the Apple App Store and downloaded automatically in the language of the user's iPhone. They can also use it to browse through the IPTV service's full VOD library, watch trailers and schedule films for later viewing. Swisscom had reached 358,000 subscribers for its IPTV service Swisscom TV by the end of the 3Q 2010.

TURKEY

IPTV TO BRING TURKISH TV CHANNELS WORLDWIDE

A new agreement signed between Cihan and IPTV Oletim (Communications) Holding will introduce a new IPTV service that allows Turkish speakers worldwide to watch Turkish TV stations. The system will allow users to watch television programmes in HD quality up to eight days after the programme is first aired, and also record them. The new technology will go into service first in the Netherlands and other European countries, delivering 10 local and 40 national channels in HD quality and 3D.

UNITED KINGDOM

BT VISION INCREASES IPTV TAKE-UP

BT saw 40,000 people sign up for broadband TV service BT Vision in the last three months of 2010, its highest subscription figures in two years. In the previous three months it had 24,000 additions, bringing its total customer base to 545,000.

NORTH AMERICA

TV2MORO BRINGS ORIENT TV TO NORTH AMERICA

Orient TV has launched in North America, thanks to an agreement between TV2Moro and Modern Class Media. The two will work together to expand the markets for Dubai-based Orient TV among the diaspora in the Americas and Australia, in two phases. The first phase of distribution will include North America, while the second phase will include South America and Australia. TV2Moro will be the only IPTV platform carrying Orient TV in North America.

CANADA

TELUS ADDS 48,000 IPTV SUBSCRIBERS IN 4Q 2010

Telus had reached 314,000 IPTV subscribers by the end of 2010, up 85% from one year previously. The strong gains in 2010 are attributed to the launch of its Optik TV brand in June, as well as to increased installation capabilities, the introduction of enhanced services including OVR Anywhere, and expanded broadband coverage. At the end of 2010, there were 2.1 million homes within its IPTV-capable footprint, and Telus also continued to upgrade its broadband network to VDSL2 technology, enabling Optik TV subscribers to watch or record up to four channels simultaneously on the same connection.

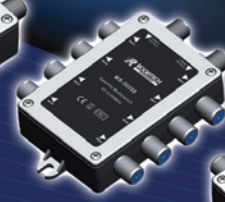
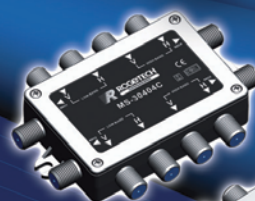
UNITED STATES

AT&T REGISTERS BEST QUARTER FOR IPTV SERVICE

AT&T has posted its best-ever quarter for its IPTV service U-verse TV in the three months to December 2010, adding 246,000 customers in the period to reach a total of 3 million in service. More than three-quarters of its IPTV subscribers now take a triple- or quad-play option



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and ARPU per user for its U-verse triple-play customers reached over USD 160 million in the 4Q of last year.

LATIN AMERICA

BRAZIL

NET LAUNCHES VOD SERVICE

Net launched a VOD service in March, with a line-up of unreleased films and linear programs of the major pay-TV programmers. The new content should be available in an exclusive window, prior to displaying the content on linear channels. Pay-TV programming will be available as "catch-up TV" for subscribers. The operator will adopt two forms of marketing: price per title and unlimited access for a fee.

ASIA & PACIFIC

HONG KONG

NOW TV ADDS VOD MOVIES

Now TV has launched a PPV movie on-demand service called now Video Express. The service kicks off with some 1,500 hours of on-demand content following deals with Hollywood studios Paramount Pictures, 20th Century Fox Home Entertainment and Warner Bros. Digital Distribution and local-language rights holders. Viewers can choose between HD with Dolby 5.1 surround sound at HK\$30 (\$3.87) or in SD format versions at HK\$25 (\$3.23).

SAUDI ARABIA

SAUDI TELECOM INTRODUCES FTTH

Saudi Telecom Company (STC) has formally launched its new Fibre-to-the-Home (FTTH) service Verve, offering speeds of 40 Mbps and 100 Mbps, as well as new sports packages for its IPTV service InVision. The new sports packages available for its IPTV service includes domestic and international sports championships. The IPTV service was launched in August 2010 in the three major cities of Riyadh, Jeddah and Dammam, and is planned to be made available nationwide in the medium term.

SINGAPORE

SINGTEL ADDS NEW CHANNELS TO IPTV SERVICE

SingTel has added the news channel Bloomberg Television and the Hindi-language channels Colors and MTV India to its IPTV service mio TV. Bloomberg TV is available to all subscribers of the service for free, the channel Colors is priced at SGD 5.35 (USD 4.18) per month, while MTV India is priced at SGD 3.21 per month. SingTel had reached 245,000 customers for mio TV by the end of the 3Q 2010, having added 25,000 new subscribers in period.

SOUTH KOREA

SK BROADBAND ADDS 123,000 IPTV SUBSCRIBERS

SK Broadband had reached 735,000 IPTV subscribers by the end of 2010, having added 123,000 customers in the 4Q 2010. The IPTV business showed continuous growth thanks to higher average revenues per user (ARPU) and additional revenue from services such as shopping and advertisement. Its total TV subscribers, including for VOD services, increased by 947,000 in the three-month period.

AUSTRALIA & OCEANIA

AUSTRALIA

IPTV BOOSTS TELSTRA'S RESULTS

IPTV and the delivery of movie content are paying off for Telstra with total pay-TV bundling revenue increasing by 15.8 percent to \$286 million. Telstra said that customer growth was largely driven by new and existing Foxtel customers converting their service to a Foxtel from Telstra service in order to receive the entertainment bundling benefits. Foxtel bundling increased by 6.0% resulting from strong sales of Platinum and Platinum HD packages. Telstra said that more than 120,000 consumers a week were now spending on average \$4.00 a week buying content via their T Box or BigPond Movies connection.

WORLD

ASIAN IPTV DEMAND TO OVERTAKE EUROPE

Europe was still well ahead of Asia at the end of the 3Q 2010, with 46.3 percent of the world's 41,892,171 IPTV subscribers, with France accounting for about half of that (10 million), according to the Broadband Forum. French IPTV subscriber numbers grew from around 7 million to 9 million between Q1 2009 and Q1 2010, but the long-sustained growth seemed to be slowing down by the end of the year as the pay-TV market as a whole became more saturated. As such, Europe will soon be overtaken by Asia, while France will lose its top spot to China sometime during 2011 or 2012, the report said.

The New IPTV Standard



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References



www.dishpointer.com
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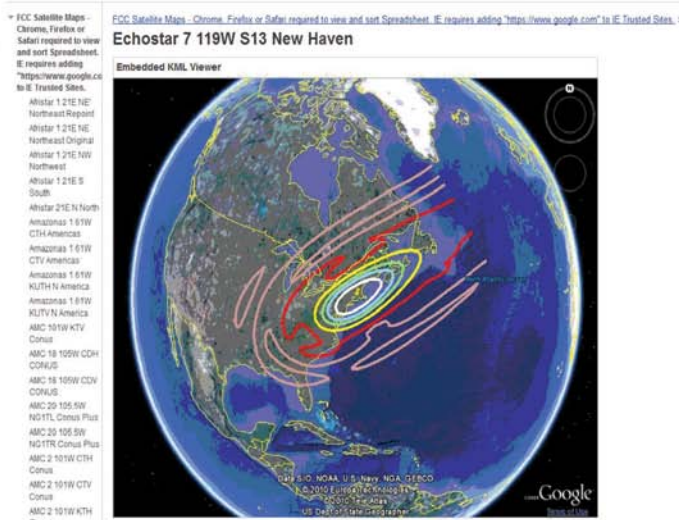
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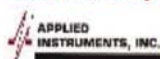
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Issue	TELE-satellite 06-07/2011	TELE-satellite 08-09/2011	TELE-satellite 10-11/2011
#	1107	1109	1111
Editorial Deadline	1 April 2011	3 June 2011	5 August 2011
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