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INTERNATIONAL **05-06**2014



Test Report

PANODIC

Alan Yu unveils Android Smartphone technology in a TV box



Company Report

GLOBALINVACOM

Ivan Horrocks brings fiber optic TV to the super rich in London



Test Report

DVBViewer

Christian Hackbarth expands his software to include UHDTV



Company Report

SPAUN

Kevin Spaun: Yet another remarkable luxury hotel installation

Test Report

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Test Report
GIGABLUE
HD Quad Plus

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- Output: HDMI, Scart (Optional) CVBS, Y Pb Pr (Optional)
- Stereo Audio output, Coaxial, USB
- Earthnet Support (Optional)



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DVB-T2 MPEG-4

- DVB-T2 MPEG4 HD
- T2 1.31 profile, support with T2 LTE
- Multi Media Player for Music/Picture/Movie
- EWS System (Early Warning System)
- 3D Image player
- HDMI full HD 1080P output



HDT2-132A

DVB-C HD MPEG-4/H2.64 With CA

- CA Interface: NDS, Verimatrix, Novel Super TV, ABV, Suma Vision, etc.
- Mail: 1 Alert Setting: on/off the alert message. 2 View message
- AVM Setting audience view measurement On/Off in secure engineer menu
- Pairing STB and smartcard pairing Channel List view the channels
- OTA Over the air software download
- HDMI, CVBS, L/R, Coaxial, Ethernet(optional), USB



PCH208-B1

DVB-S2 SD MPEG-4/H.264 With CA

- DVB-S2 MPEG4 HD with CA
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- Multi Media Player for Music/Picture/Movie
- USB PVR
- HDMI full HD 1080P output
- CVBS, L/R, Coaxial, USB



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Dear Readers,

In every issue of TELE-audiovision you'll find images of our old issues of the magazine. It gives you a glimpse of what receivers looked like 10, 20 and even 30 years ago. What a surprise though: they don't look much different from the receivers of today. Over the course of 30 years, not much has changed in their design. But wait! That's not entirely true. In this issue we're introducing a box that sharply deviates from a standard receiver's design: it's a unit with a built-in monitor. Some of you might be thinking right now that this is nothing really special; why would you want to watch TV on a mini-screen when you have a big-screen TV already hanging on your wall?

Not so fast! With this little monitor the receiver has once again become what it hasn't been for a long time: the control center for watching TV. The monitor turns the receiver into a TV reception station from which all of the TV channels can be controlled. That's exactly the opposite of the little mini-receiver that generally gets hidden behind the TV so that it can't be seen.

It's totally different with this receiver: it sits there right

in the middle and is the headquarters for TV reception. It won't be next to the big-screen TV, instead it'll be located within the TV viewer's reach and sight. He's no longer a TV viewer but rather a TV manager that uses the control center to manage his TV viewing. And as it should be, this receiver comes with multiple tuner inputs so that as the newly promoted TV manager you'll have plenty of channels to choose from.

In this way the digital receiver is no longer just a box that receives signals and converts them, it has once again become more; it has given the TV viewer the feel that he is a TV manager with decisions to make. It's fun again to play around with the receiver; you can once again enjoy searching for channels, changing them and organizing them.

Alexander Wiese

Editor-in-Chief TELE-audiovision Magazine



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- ▶ LCN & Channel monitoring support*
- ▶ Easy software & channel list upgrades via USB / Network / OTA
- ▶ Low power consumption (<0.5W in Stand-By mode)

* depending on model

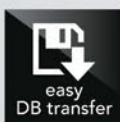
HD8250+ Satellite



HD8260+ Satellite + T2 Terrestrial / Cable



CHD8270+ T2 Terrestrial / Cable



BREAKING NEWS!

Stay Tuned for Live Reports In This TELE-audiovision Iss

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Aubagne, France

Company Report
GLOBALINVACOM
London, UK

Test Report
GIGA BLUE
Gluckstadt, Germany

Test Report
DEKTEC
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ROHDE & SCHWARZ
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05-06/2014

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are Original and Exclusive!**

from Around the World!

Issue We Report Directly From

Test Report
DVBViewer
Erfurt, Germany

Company Report
SPAUN
Munich, Germany

Test Report
PANODIC
Shenzhen, China



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



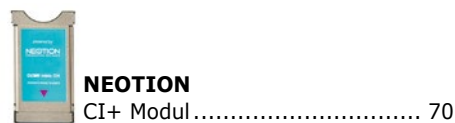
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Smart Center Box

- Android 2.2, 1080P HD
- Multi-screen interaction
- Content sharing with Pad, phone, STB
- Multi-media player
- 3D somatic games
- HTML 5 browser
- IP camera
- Smart remote control
- Changhong APP store



Products & Technologies

- DVB-C/T/S/C2/T2/S2, ISDB-T, IPTV
- Conax/Nagra/Irdeto/NDS
- MHEG-5/OpenTV/NDS Core/MHP
- Android/OS21/Linux/μ_iTron
- OTT/HBBTV/CATCH UP TV/UNICABLE

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MHEG-5



openTV



NDS Core



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System: Basic on Android 4.0 ICS
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 Mpeg2,Mpeg4(H.264) decoder ,fully DVBS&DVBS2 compliant
 Storage 8000 TV and Radio programs
 Video codec: H.264(MPEG4-AVC, VC-1), MPEG2, DviX3/4/5/6,Xvid
 Audio codec: MP3, AAC, OGG, MPEG, MPEG Audio, Dolby AC-3
 Container : MP4, AVI, MKV, FLV, MPEG TS
 DLNA 1.5 compliant
 Networking-WIFI AP,Ethernet



Feature:

Multi-Screen shifting (DLNA and AIRPLAY Alike)	Motion sensing games
OTT (Over the top)	Powerful Media
Android Market	OTA(over the air)
Web Browser	2.4G wireless interface
Twitter, Facebook,YouTube...	Support 3D and 3D convert 2D function



HS1J

- Video decode: MPEG2 SD, MPEG2 HD, H.264/AVC SD, H.264/AVC HD,MP4
- Interface: Single Cplus, SCART,dual USB2.0,LNB ,HDMI,RCA, Digital Audio, Ethernet
- Video Resolution: 480i/p, 576i/p, 720i/p, 1080i/p
- Function : Manual/Auto search, Edit Channel, EPG, Subtitle,TXT, PVR , RSS, Weather Forecast ,Youtube ,Game,32 FAV group, Media player;
- Language:English, French, German, Italian, Spanish, Portuguese, Russian, Turkish, Arabic, Polish etc



HS1C

- Pluggable tuner,support S2+S2/S2+T2/S2+C tuner
- Video decode:MPEG2 HD/SD H.264/AVC HD/SD
- Output interface:Single CI plus,,dual USB2.0, HDMI,SPDIF,YPbPr/SCART
- Features:
- youtube,google map,picasa,Weather Forecast, RSS,Fastscan search,PVR
- Support WIFI



HTAB

- Video decode :MPEG2 SD, MPEG2 HD, H.264/AVC SD, H.264/AVC HD
- Output Interface : HDMI ,SPDIF, USB,SCART
- Video Resolution : Full HD 1080P, 1080i
- DVB Function : Manual search, Edit Channel, EPG, Subtitle, TXT, PVR,Media player



HTJ4

- SD MPEG-2/HD H.264 & fully DVB-T compliant,
- Output Interface: HDMI,Scart ,SPDIF
- Video Resolution : Full HD 1080P,
- Function : Manual search, Edit Channel, EPG,
- Subtitle, TXT, PVR
- Wifi(option):RSS Reader, Weather Forecast ,maps,
- Picasa,Google ,Youtube ,Youporn,Vimeo,etc



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Hebrew
עברית



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hrvatski



Italian
italiano



Hungarian
magyar



Chinese
中

Worldwide

Asia



Top 25 Countries > 3200 Readers

COUNTRY	Readers #
Brazil	35,061
Germany	26,053
USA	21,418
China	14,695
Italy	13,601
France	12,327
UK	11,588
Iran	11,001
Algeria	9,642
Indonesia	9,565
Turkey	9,319
Netherlands	8,513
Portugal	7,916
Romania	7,477
Russia	6,104
Spain	6,028
Morocco	5,798
Belgium	5,787
Bulgaria	4,999
Poland	4,778
Egypt	4,774
Hungary	4,701
India	4,371
Canada	3,902
Greece	3,861
Czech	3,705
KSA	3,700
Ukraine	3,518
Argentina	3,289

Readers' Breakdown

Manufacturers	7%
Distributors	11%
Wholesaler	18%
Dealers	27%
Installers	10%
Satellite Provider	2%
Cable Provider	10%
IPTV Provider	6%
Program Provider	7%
Private Enthusiasts	2%

Top 25 to 105 Countries > 130 - 3200 Readers

COUNTRY	Readers #
Chile	2,957
Switzerland	2,947
Tunisia	2,831
Slovakia	2,746
Pakistan	2,559
Austria	2,525
Croatia	2,484
Venezuela	2,306
Iraq	2,246
Malaysia	2,181
Sweden	2,137
Australia	2,010
Israel	1,892
Norway	1,849
Serbia	1,797
Mexico	1,698
Colombia	1,627
South Africa	1,541
United Arab Emirates	1,463
Ireland	1,426
Denmark	1,304
Thailand	1,205
Libya	1,178
Finland	1,152
Peru	989
Slovenia	975
Sri Lanka	953
Philippines	935
Yemen	886
Jordan	853
Ecuador	766
Lithuania	765
Lebanon	732
Uruguay	721
Nigeria	710
Syria	686
South Korea	680
Japan	650
Macedonia	647
Bosnia and Herzegovina	631
Sudan	599
Bolivia	598
Albania	588
Kenya	573
Taiwan	563
Puerto Rico	550
Kuwait	517
Panama	495
Qatar	482
Cyprus	467
Hong Kong	466
Latvia	465
Luxembourg	462
Paraguay	447
Senegal	423
New Zealand	394
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Zimbabwe	156
Azerbaijan	154
Tanzania	143
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Top 106 to 180 Countries < 130 Readers

COUNTRY	Readers #
Mali	140
Trinidad and Tobago	134
Brunei	133
Montenegro	114
Macau	109
Armenia	104
Botswana	102
Myanmar	101
Malawi	101
Mauritania	95
Martinique	94
Maldives	89
Aruba	86
Netherlands Antilles	84
Madagascar	84
New Caledonia	83
Angola	78
Namibia	78
Rwanda	78
Mozambique	67
Zambia	67
Congo	65
Guatemala	65
Guyana	65
Haiti	63
Kyrgyzstan	61
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Honduras	45
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Turkmenistan	42
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Nicaragua	41
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Bermuda	22
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Laos	18
Somalia	17
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Curacao	16
Fiji	14
Papua New Guinea	13
Belize	12
Guinea	12
Faroe Islands	11
Guernsey	10
Anguilla	9
Swaziland	9
British Virgin Islands	9
Central African Republic	8
Equatorial Guinea	8
Jersey	8
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AWARD 01-02/2014

Macab Catline TVB-02
Clever solution to use network cables
to distribute TV signals

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Giga Blue



- *(almost) endless recording options thanks to 4 tuners*
- *compatible with wide range of video formats – convenient replacement for external DVD players*
- *virtually unlimited recording capacity*
- *all functions fully customisable*
- *very thorough blind scan finds all channels*



HD Quad Plus

One, two, or even three tuners are not enough? Why not take four?

In the past we have already presented the occasional receiver with three built-in tuners in TELE-audiovision, but a receiver with four integrated tuners is new territory even for us. Then again, times are changing, the channel offering is increasing and the distribution methods are more varied than ever. The following scenario is familiar to many of us: We catch local channels with our terrestrial antenna, may be hooked up to a cable operator and in addition want to explore the globe with satellite TV. Finally, with the new quad tuner PVR from Impex-Sat – distributed under the Giga Blue brand name – one size really fits all.

The front panel of the Giga

Blue HD Quad Plus strikes a sleek yet elegant pose. It's striking feature is a 3-inch VFD colour display which shines thanks to a very special bonus feature: If required, a received AV signal can be shown directly on that front panel display, or it can be used for picture-in-picture mode. What a clever move from Impex-Sat.

A total of seven buttons are hidden behind a flap and can be used to operate the box when the remote control is misplaced or out of battery power. Also behind the same flap you will find two CI slots, two internal card readers as well as a USB port. In addition, the front panel features the On/Standby button and a

multi-colour LED status indicator, which can be customised via the receiver's operating software. In general, the box's appearance is very pleasing to the eye.

Shifting our focus of attention to the back panel, we'll

discover that the Giga Blue HD Quad Plus comes with all connections options we should ever require. They are: HDMI, YUV, CVBS, stereo audio, S/PDIF, Ethernet (gigabit!), 2 USB ports, E-SATA, RS-232, a socket for plugging in the external power supply



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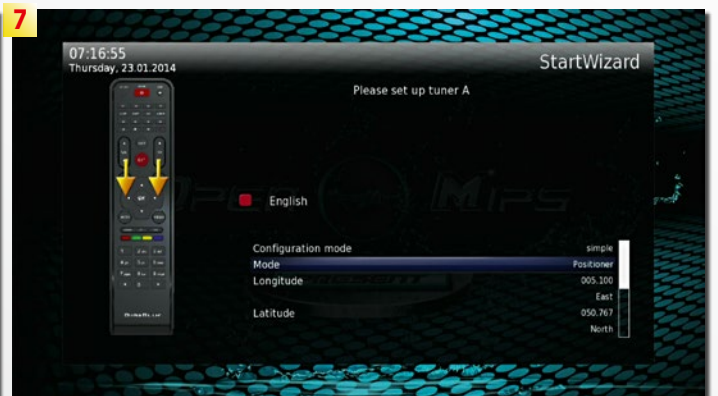
Receiver certification
— R&S®BTC

Digital multichannel
satellite TV modulator
— R&S®SLG

HDMI™ analysis
— R&S®VTE



1. Giga Blue HD 800 Quad
2. Video output options
3. Video resolution options
4. Available OSD languages
5. The installation wizard for initial setup can be skipped, if desired.
6. Setting up a DVB-S2 tuner
7. DiSEqC 1.3 configuration
8. Automatic DiSEqC detection
9. Full support of SCR unicable infrastructure





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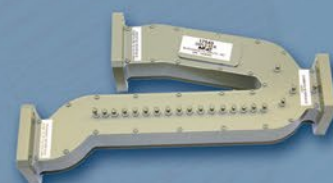
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Transmit Reject & Receive Reject



Transmit Reject



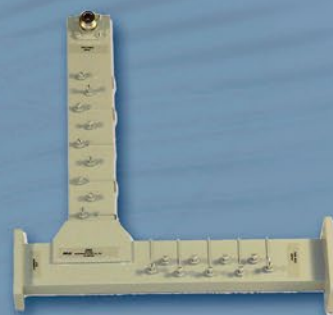
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DTV Transmit Mask



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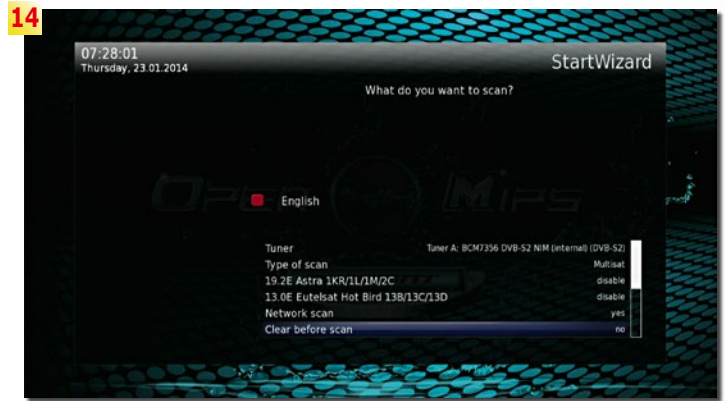
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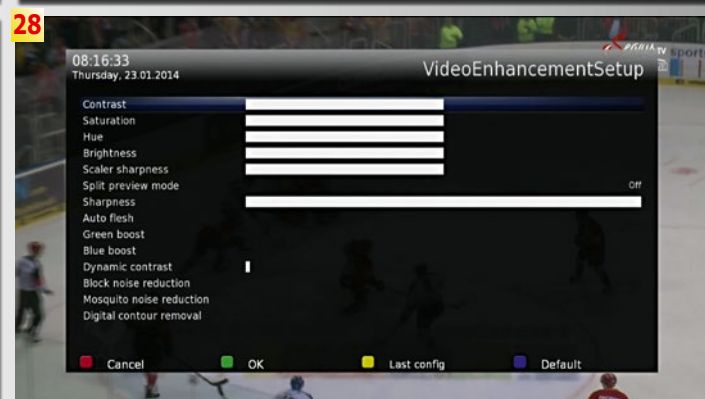
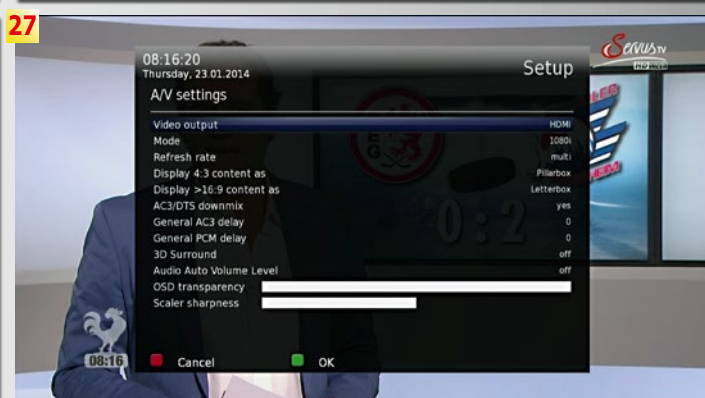
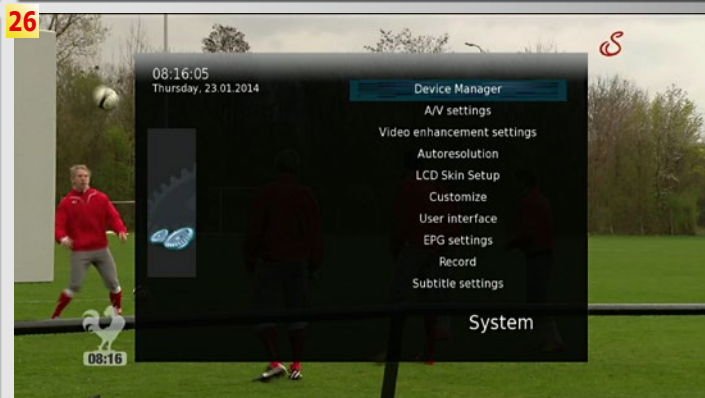
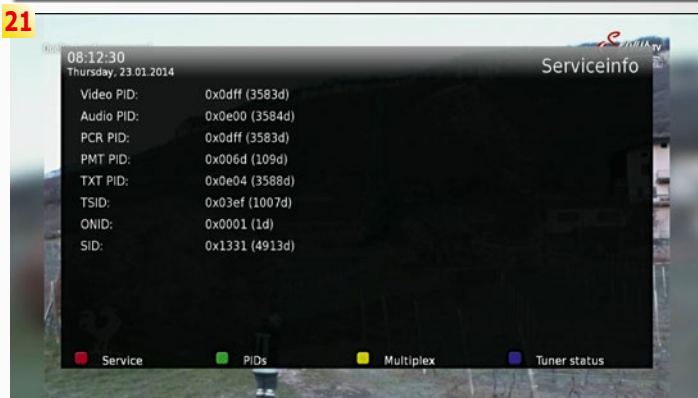
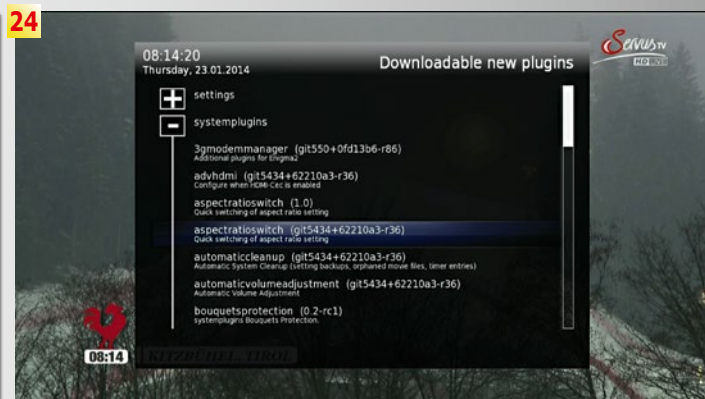
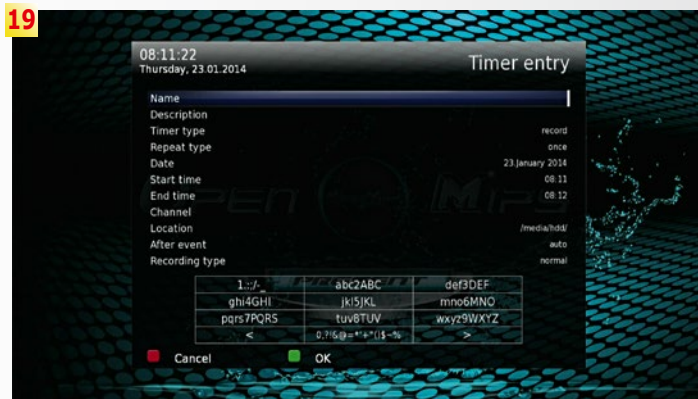
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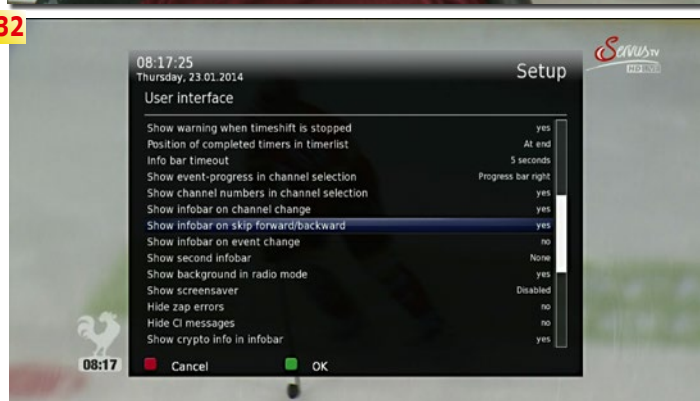
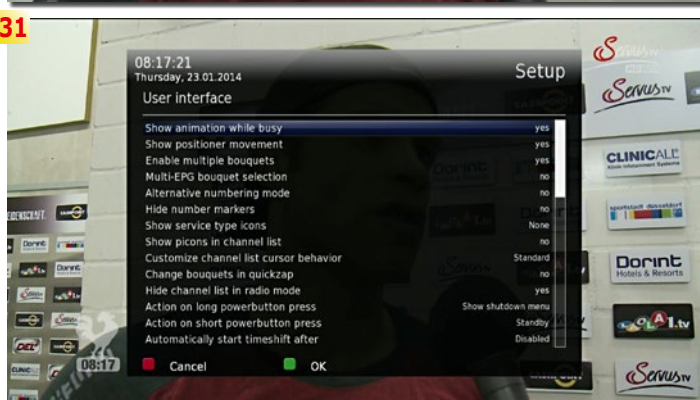
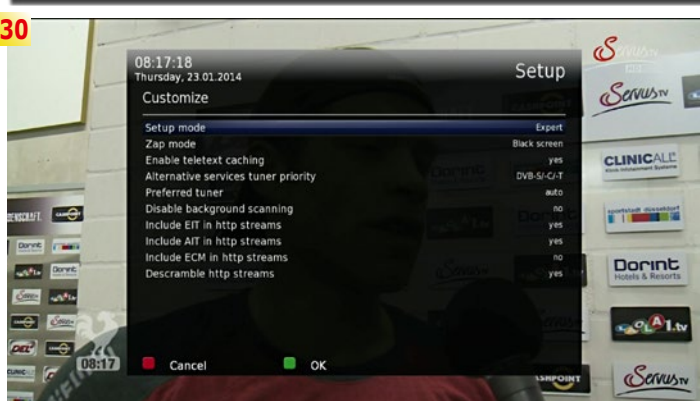
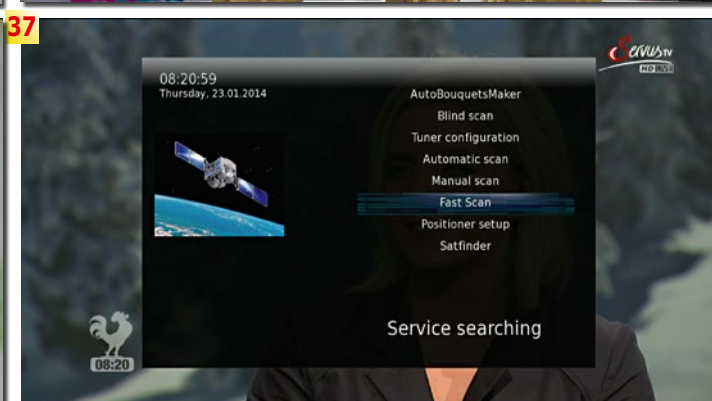
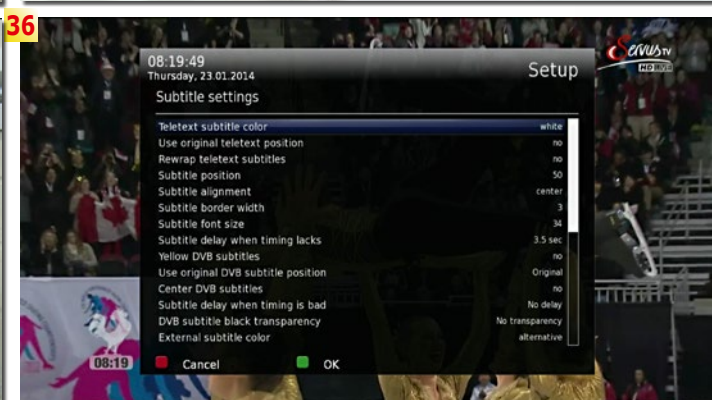
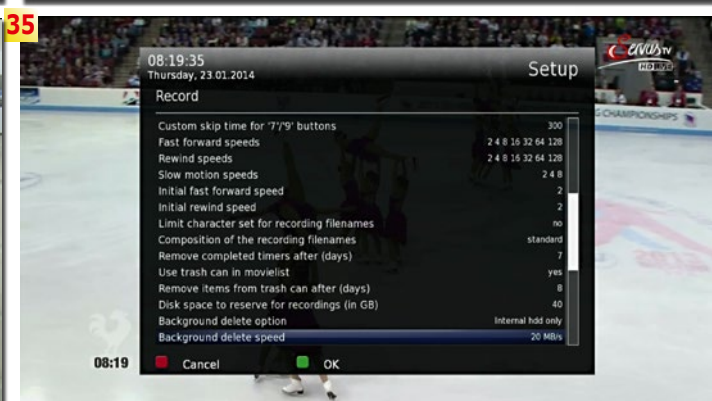
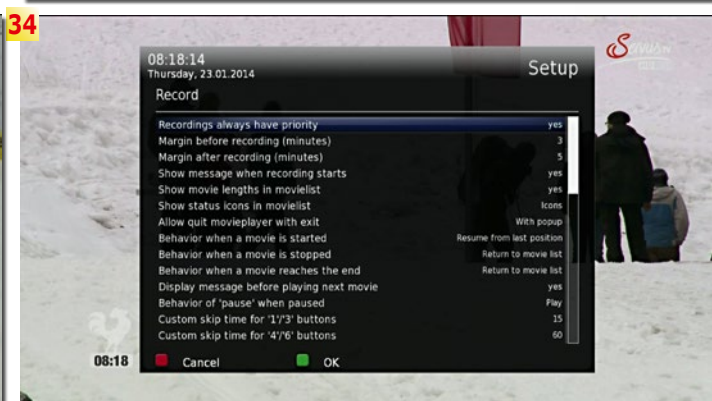
10. Setting up a DVB-C2 tuner
11. Setting up a DVB-T tuner
12. Transponder search
13. Search on a single satellite
14. Search on several satellites
15. Channel search
16. Network settings
17. Channel list after completed search
18. Main menu of the Giga Blue HD 800 Quad
19. Creating a timer entry
20. Channel information
21. PID information of a channel
22. Channel information
23. Directory of installed plugins
24. Online archive for downloading new plugins
25. System settings
26. System settings
27. AV settings
28. AV settings

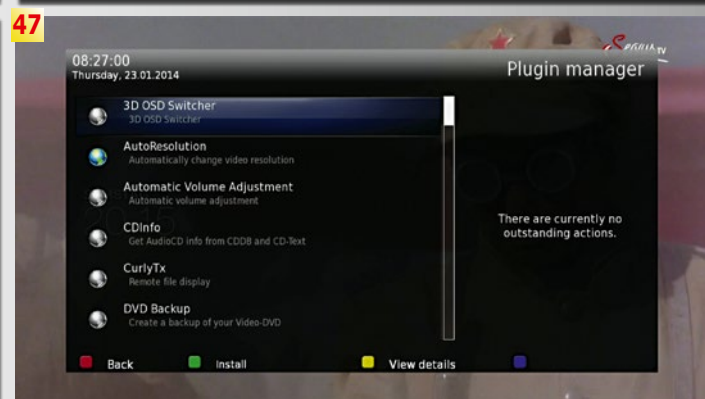
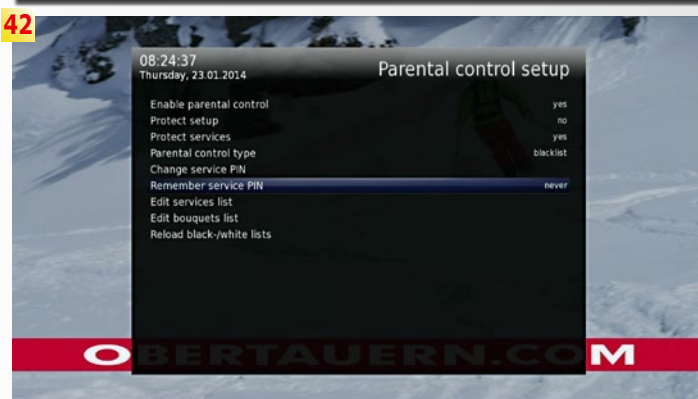
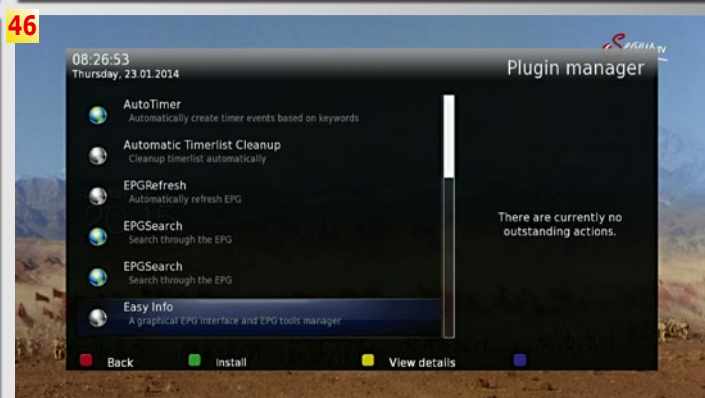
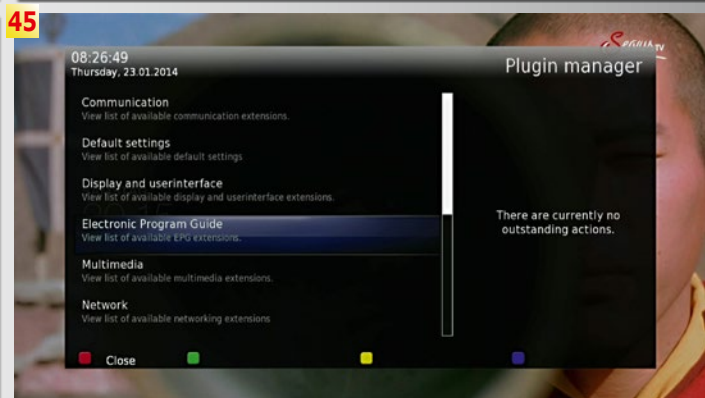
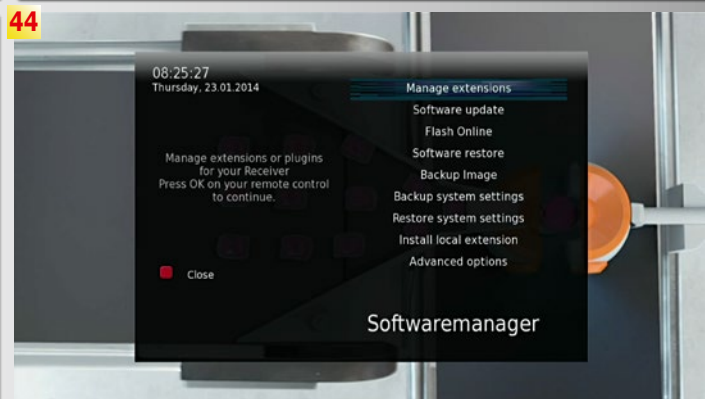




- 29. VFD display settings
- 30. The Giga Blue HD 800 Quad offers a multitude of configuration options
- 31. User interface settings
- 32. The receiver can be customised down to the very last detail
- 33. EPG settings
- 34. PVR settings
- 35. PVR settings
- 36. Subtitle settings
- 37. Different channel search modes
- 38. Fast Scan for adding channels from various pay TV providers to the overall channel list

- 39. SatFinder function assists in antenna alignment
- 40. Blind scan search
- 41. Softcam settings for the built-in card reader
- 42. Parental control settings
- 43. Software update via the Internet
- 44. Software manager for updating existing and adding new software components, as well as for saving the current setup for future use
- 45. Plugin manager for downloading new plugins
- 46. List of available plugins
- 47. List of available plugins





unit and an always welcome mechanical power switch to fully disconnect the receiver from the mains.

By default, the receiver is shipped with two tuners for DVB-S2 reception, while two(!) more tuners can be added by users, if desired. To that end, all you need to do is unscrew and open the cover of the box and slide one or two additional tuners into the corresponding slots on the main board.

The manufacturer offers tuners for either DVB-S2 or DVB-C2/T which – contrary to the two pre-installed tuners – come with loop outputs. For one, we appreciate the fact that this has you covered for all distributions methods, and it puts users in a position to decide which reception types should be supported by their receiver. The choice is yours – what more could you ask for?

And while you're looking at the opened box, why not seize the moment and add an internal 2.5-inch S-ATA hard disk to your Giga Blue HD Quad Plus? The appropriate frame and all required cables are shipped with the box, so you're ready to go right away. The great thing is that with two additional tuners and an internal hard disk you are able to exploit all built-in features and functions to the full.

The remote control shipped with the receiver sits very nicely in your hand and has a top-notch look and feel. We loved that fact that the numeric keypad was shifted to the lower section of the remote so that the frequently used PVR keys could be placed in the upper area where they are much more convenient to reach. Most conventional remotes are the other way round and we can confirm that Impex-Sat took the right decision to change that. To sum up, the Giga Blue HD Quad Plus boasts excellent build quality with a very reassuring level of workman-

ship. The handbook, on the other hand, is rather concise, especially when considering the huge range of features and functions that are offered by this product.

Similar to most competing receivers, the Giga Blue HD Quad Plus offers an installation wizard that guides users through the initial setup process. It's interesting to note, however, that this particular receiver does not begin with asking for your preferred OSD language, but deals with the video output signal before anything else.

Sounds awkward? Not at all, because what use is a list of available languages that does not appear on your screen in the first place? And even if there is one user in a million that does not understand the initial English language welcome screen, there is always an insert directing such user to the red button that brings up the language selection right away. It's impressive to discover that such a great deal of thought has gone into even the smallest details of this product.

Coming back to the video signal, 480i, 480p, 576i, 576p, 720p, 1080i or 1080p are available via HDMI. In a nutshell – you'll find whatever you need.

Next, we go about setting up the installed tuners: The receiver finds out on its own, what type of tuners are slotted in and offers only those configuration options that apply to the tuners in question. As far as DVB-S2 is concerned all parameters we're looking for are easily available – starting with DiSEqC 1.0, 1.1, 1.2 and 1.3, a number of pre-set LOF values as well as manual LOF input, and going all the way to features such as SCR unicable support. The default satellite list is filled to the brim with a total of 220 entries which in general are absolutely up-to-date and cover European, American and Asian orbital

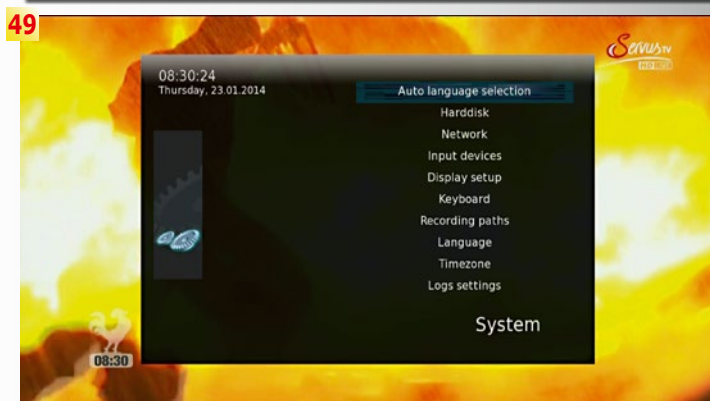
48. Apart from standard standby, the Giga Blue HD 800 Quad also offers a deep standby mode that consumes almost no energy.

49. Various system settings for customising the receiver according to personal preferences.

50. Setting the local time zone

51. Even the behaviour of the status LED on the front panel can be adjusted.

52. User interface settings



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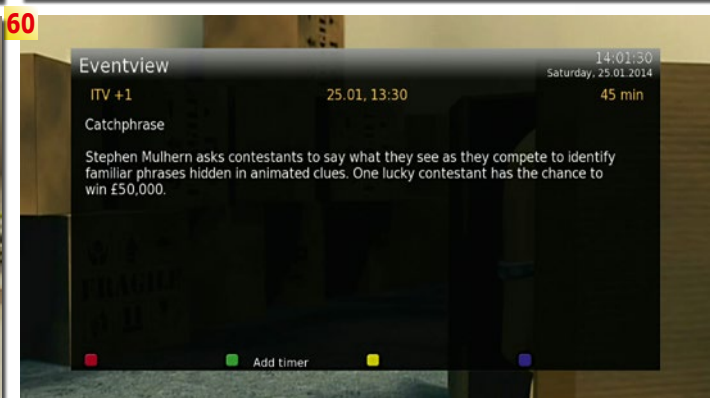
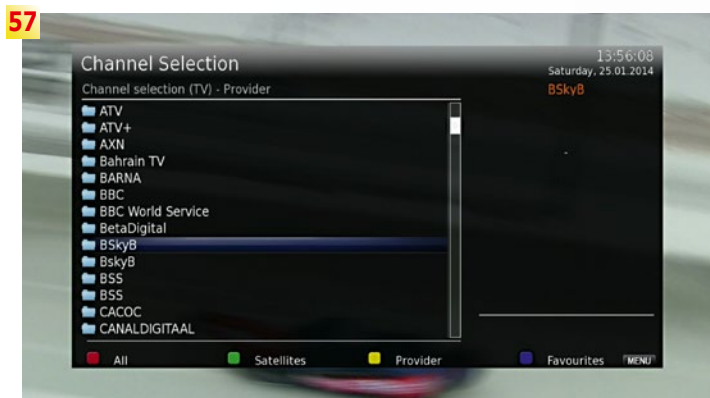
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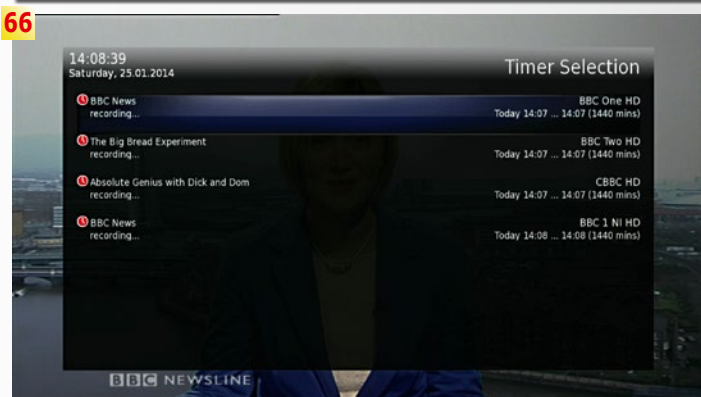
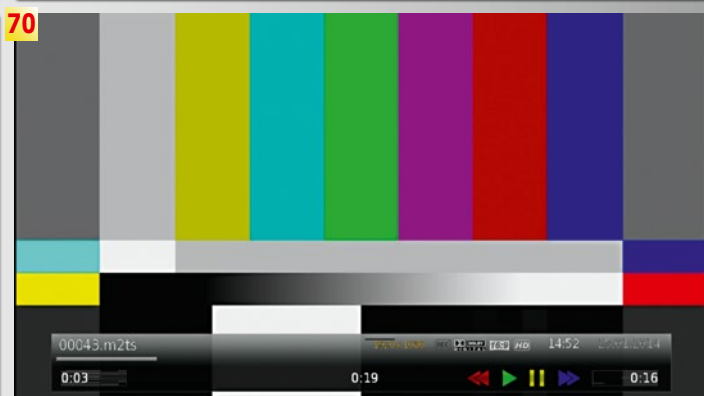
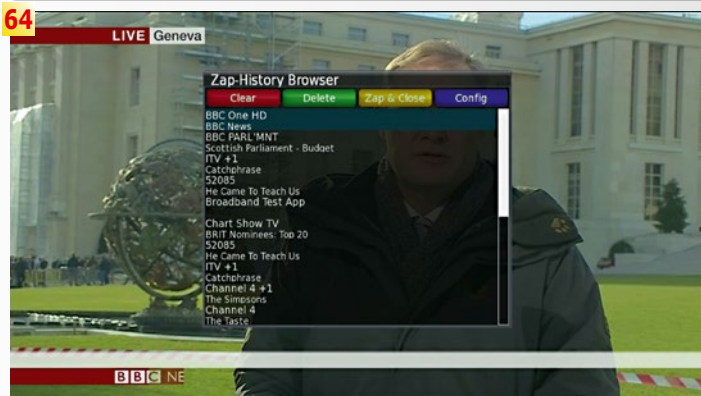
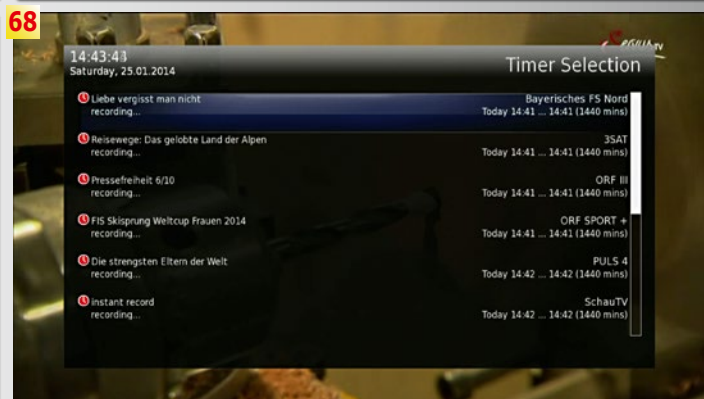
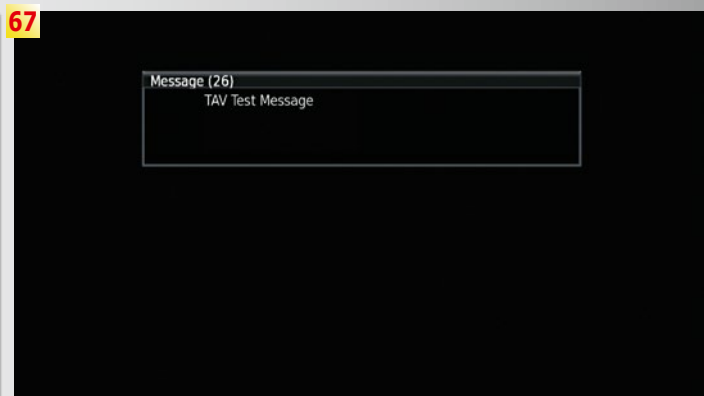
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53. Info bar with title of current and next event
54. Channel list
55. Editing and customising the channel list is possible directly via the main menu without any sub-menu detours.
56. Overview of satellites
57. Overview of provider packages
58. Preferred channels can be grouped together into favourites lists
59. Comprehensive EPG
60. Extended EPG information
61. Timer entries can be created right from EPG view with the touch of a button.
62. Overview of all upcoming events

63. Language selection.
64. Our test revealed that the comprehensive zapping history is very convenient.
65. Picture-in-picture mode
66. Four different HDTV channels are recorded simultaneously in this screenshot
67. Using the web interface feature it is possible to send remote messages to the receiver.
68. A total of eight recordings are being made simultaneously in this screenshot.
69. Overview of existing recorded events.
70. AVCHD video playback
71. AVI video playback





positions. Thanks to its integrated automatic DiSEqC detection, the Giga Blue HD Quad Plus is even capable of assigning the right ports of a DiSEqC multiswitch to the selected satellite positions.

Turning to DVB-C2 and DVB-T now we can confirm that the range of configuration options is just as extensive as for DVB-S2. The only downer is that DVB-T2 is not supported, which is a bit of a fly in the ointment in an otherwise untarnished list of specifications. No matter whether it's satellite or terrestrial/cable television you're after, the initial setup process is invariably completed with a channel search on one or more satellite positions or DVB-C2/DVB-T frequencies. Using the network scan feature transponders or frequencies belonging to the same provider are recognised

and locked reliably, and if you want to bring some order into your results right from the beginning, you can set the channel scan to consider FTA offerings only, for example. Scanning takes its time, but is a very thorough and precise affair. In our test the Giga Blue HD Quad Plus required some eleven minutes to go through all ASTRA satellites at 19.2° East. HOTBIRD at 13° East was a slightly quicker story with seven minutes and twenty seconds.

On a brighter note, the results of each scan left nothing to be desired. On ASTRA, the receiver identified 1630 TV and radio channels, while the number for HOTBIRD stood at 2033. It was a similar experience for DVB-C2/T. The receiver took more than eight minutes for a scan of the entire DVB-T bandwidth, but identified all available chan-

nels in return. Right before the installation wizard releases you into your viewing freedom, it looks at available network options. DHCP can be selected so that the receiver communicates directly with the router for trouble-

free connection, and it is here that you can also activate the web interface.

Once all that is taken care of, users will find themselves in the channel list of the Giga Blue HD Quad Plus. This list

72. DivX video playback

73. Flash video playback

74. Full HD video playback

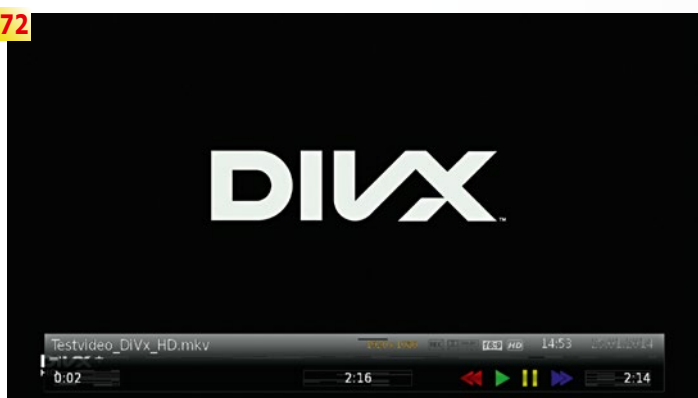
75. MP4 video playback

76. MPEG video playback

77. TS video playback

78. WMV video playback

72



76



73



77

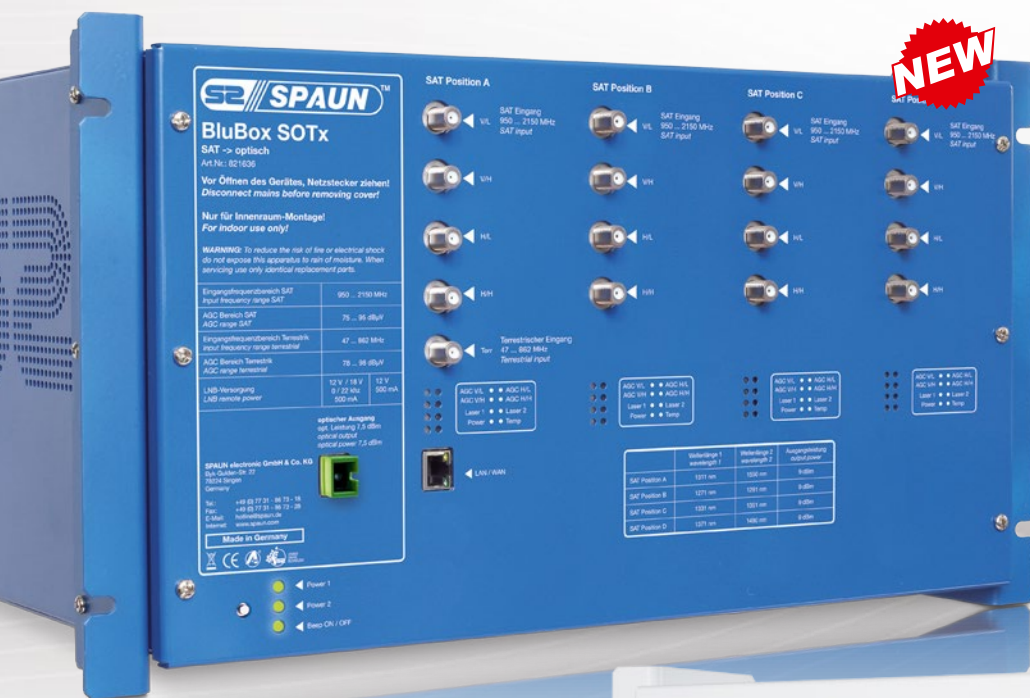


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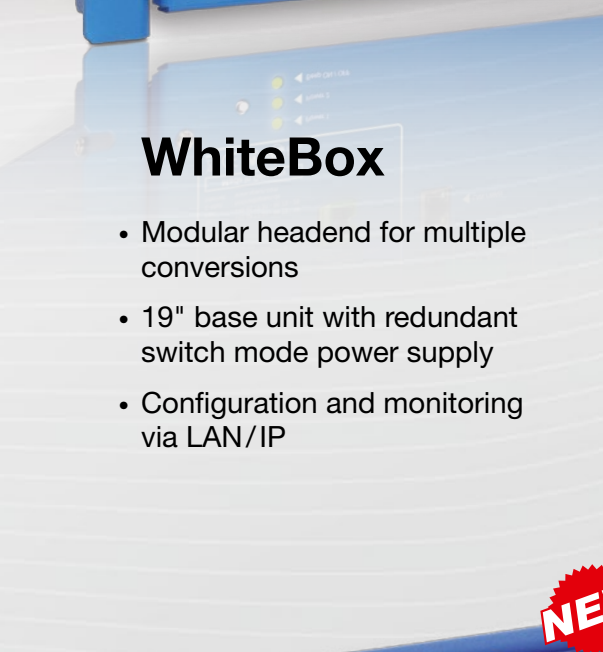
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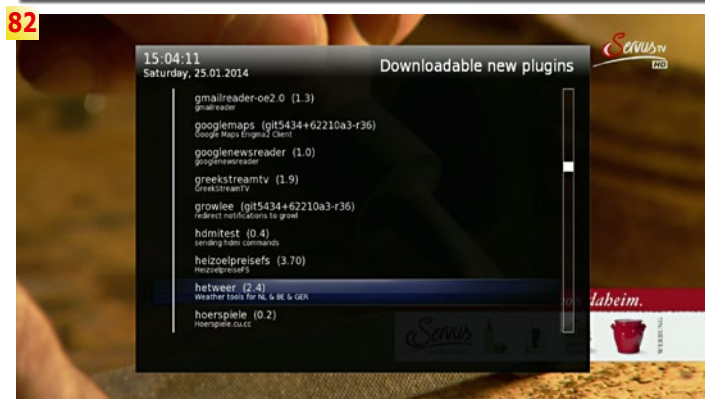
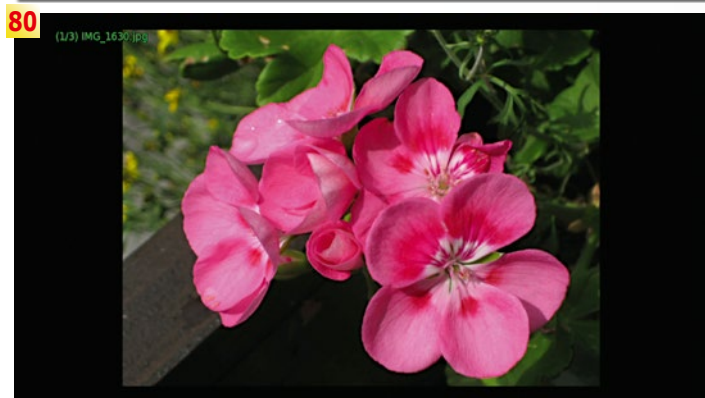
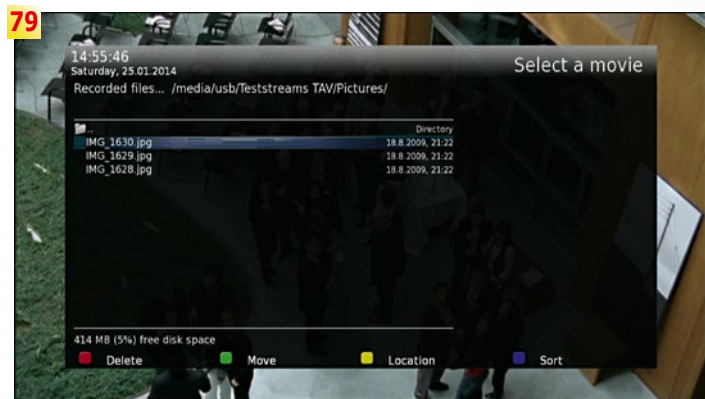
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- 79. Image viewer
- 80. Image viewer
- 81. MP3 jukebox
- 82. Archive for downloading plugins
- 83. Directory of installed

- plugins
- 84. Facebook plugin
- 85. Plugin to access videos on the ORF.at IPTV video server
- 86. Webcam viewer
- 87. Blind scan



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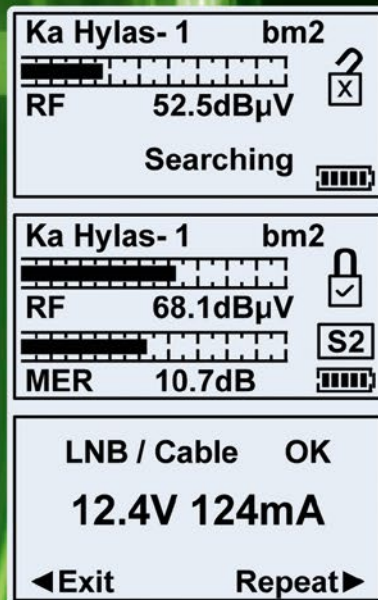
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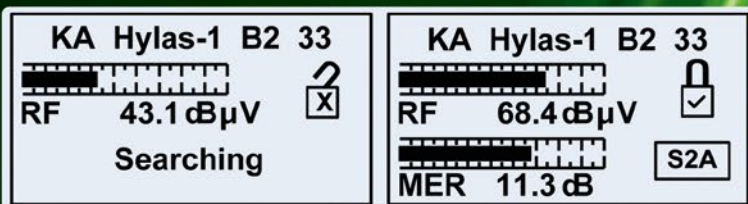
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88



88. URL input line of the integrated web browser

89. Web browser of the Giga Blue HD 800 Quad – seen here is the latest issue of TELE-audiovision for online reading

89



90. Web interface

91. Channel list on the web interface

92. EPG view on the web interface

93. The receiver can be put into standby mode or re-started via the web interface

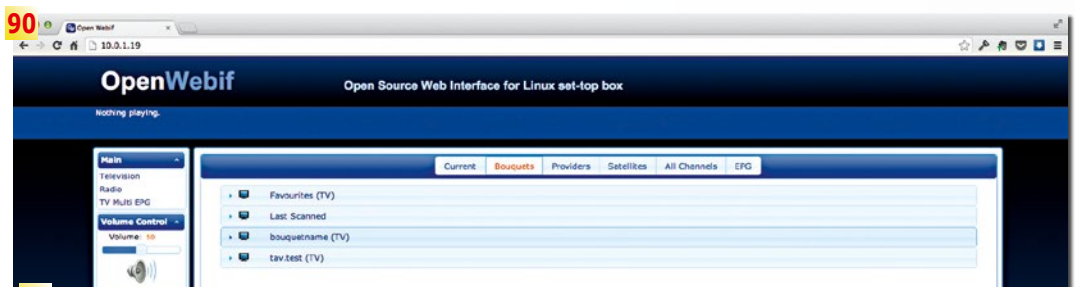
94. Messages can be sent directly to the receiver via the web interface

95. Timer entries can be created via the web interface.

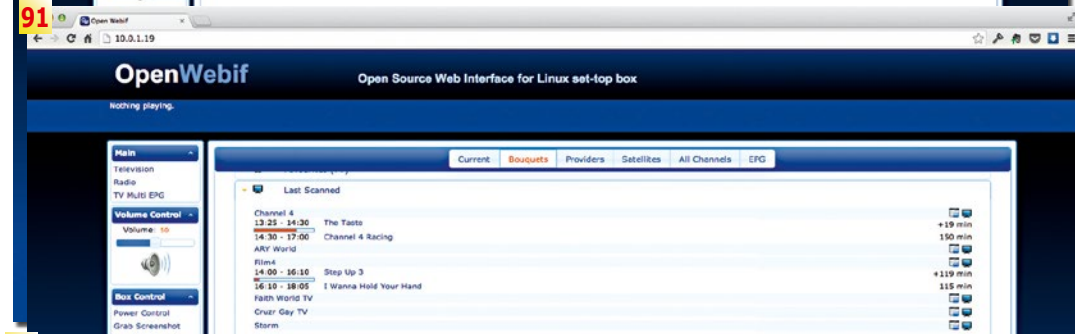
96. Status information about the receiver.

97. Results of an EPG search via the web interface.

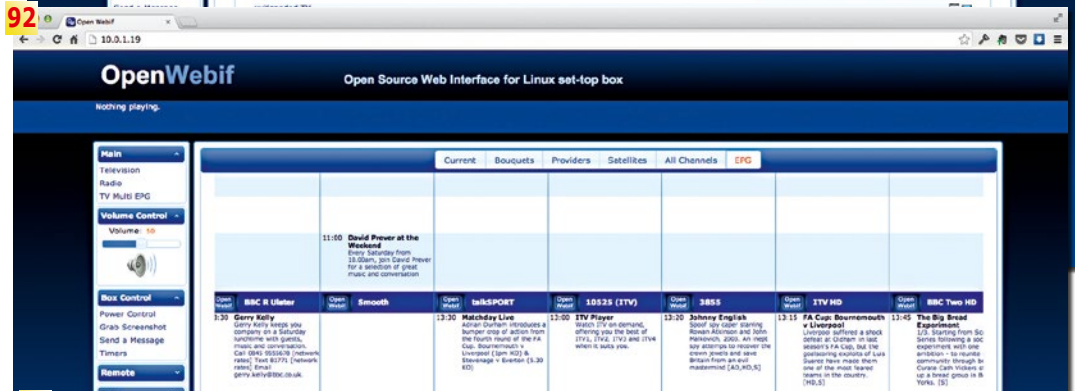
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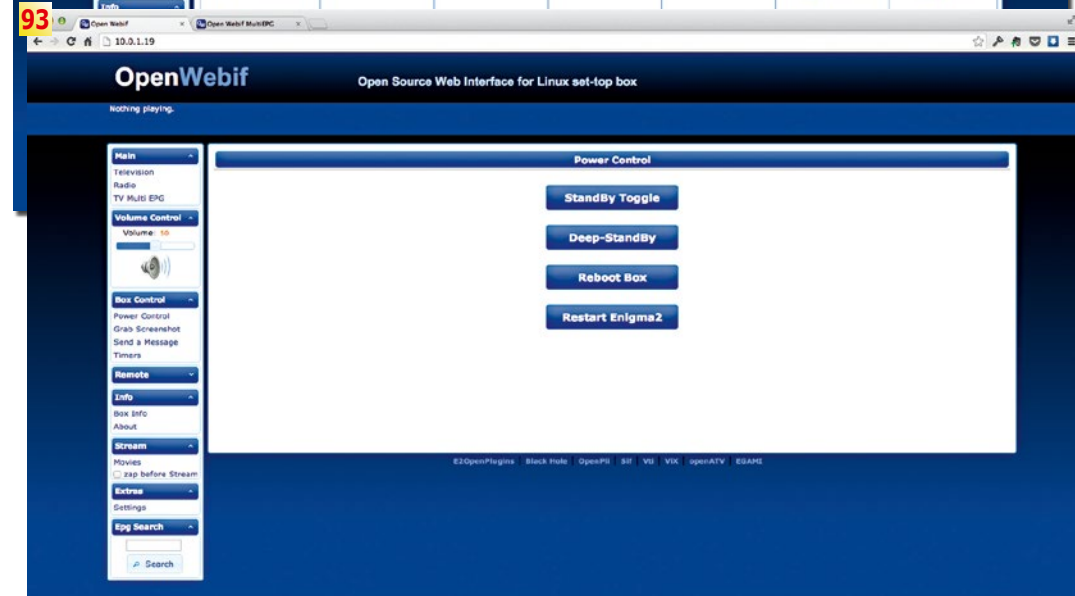
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92



93



is made up of individual sections for satellites, providers and favourites. It is possible to create individual lists with any number of channels so that each member of a household can set up his or her own list with favourite channels.

If provided by the channel, the current schedule of each channel is displayed right next to its name in the channel list, which offers a smart overview of events broadcast by all your favourite channels.

Contrary to most receivers we have tested so far, you don't press the OK button on the remote for the channel list to pop up, but the Up/Down button on the cross-shaped central button. Apart from a range of reception parameters of the selected channel this view also displays the title of the current and next event. Need some in-depth information? Simply press the Guide button to call up current and next events of 16 different channels at a time. Another touch of a button is all it takes to look up scheduled events for up to 14 days, provided the individual channels broadcast the required EPG data. And since we are

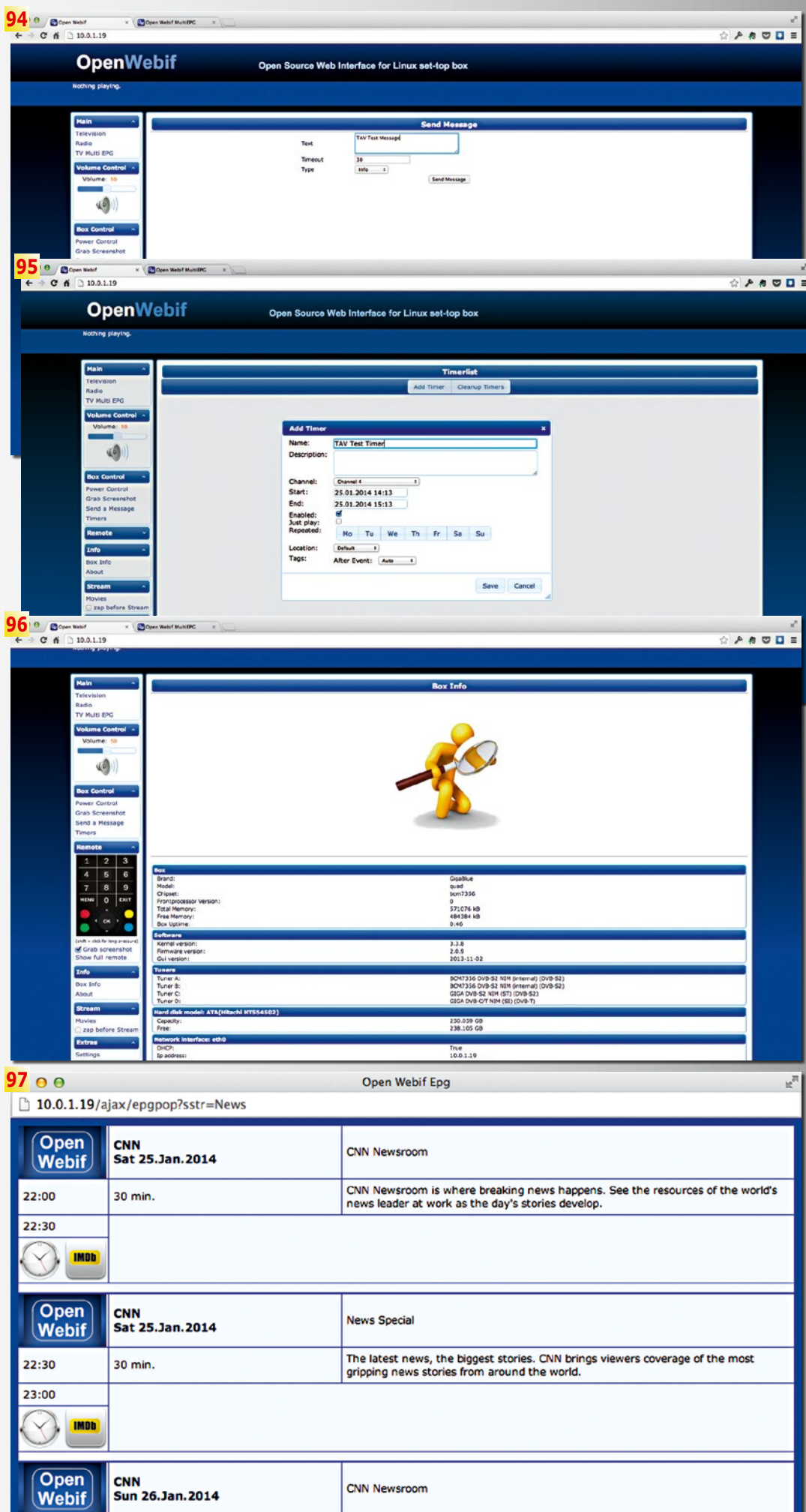
dealing with a PVR receiver here, you can easily create a recording timer entry for any event with a single touch of a button as well, which will then be recorded onto a built-in hard disk or any external storage medium that is attached to the Giga Blue HD Quad Plus.

One thing we have noticed and which deserves special praise is the receiver's support of special EPG standards such as Mediahighway of Canal+, Viasat EPG or Freesat EPG which is used in Great Britain. Our test showed that it is possible to call up the schedule of public and commercial British channels such as BBC or Channel 4 for days in advance. Your average satellite receiver with standard DVB EPG functionality would not even show a single piece of Freesat EPG information.

While it's sometimes jaw-dropping to discover how many hundreds or even thousands of channels are available via satellite, getting some structure and order into this offering is a much more mundane job. But it's a job that has to be done no matter what, and with the Giga Blue HD Quad Plus you don't even have to leave the channel list view in order to accomplish that task. Press the Menu button to be offered a range of options for deleting, editing, or moving one or several channels in one go. If you want to add a channel to your personal favourites list, this is the place to do it as well.

During everyday use, the Giga Blue HD Quad Plus creates a fabulous user experience thanks to its straightforward and largely self-explanatory user interface. Major functions such as language selection, favourites lists, media player, directory of existing recordings or a comprehensive list of previously watched channels are never more than a button on the remote away. If you're still into good old teletext, you'll be glad to find out that the manufacturer has thrown in an OSD version of it as well. Channel switching turned out to be very fast and never exceeded one second, even when two different transponders or frequencies were concerned.

With a total of four installed



tuners and thus pushing the limits of the receiver, we could hardly wait to see how the Giga Blue HD Quad Plus performed in PVR mode. Are you curious too? OK, we don't want to keep you on tenterhooks and can reveal one thing right away: We were impressed!

For our everyday performance test, we used the following tuner combinations:

- 2 x DVB-S2, 1 x DVB-C2,
- 1 x DVB-T
- 3 x DVB-S2, 1 x DVB-T
- 4 x DVB-S2

We should note at this stage that DVB-C2 and DVB-T are taken care of by the same tuner, which naturally can only deal with one transmission type at a time, so it's either DVB-C2 or DVB-T. If you're interested in receiving both signal types simultaneously, you need two of those hybrid tuners.

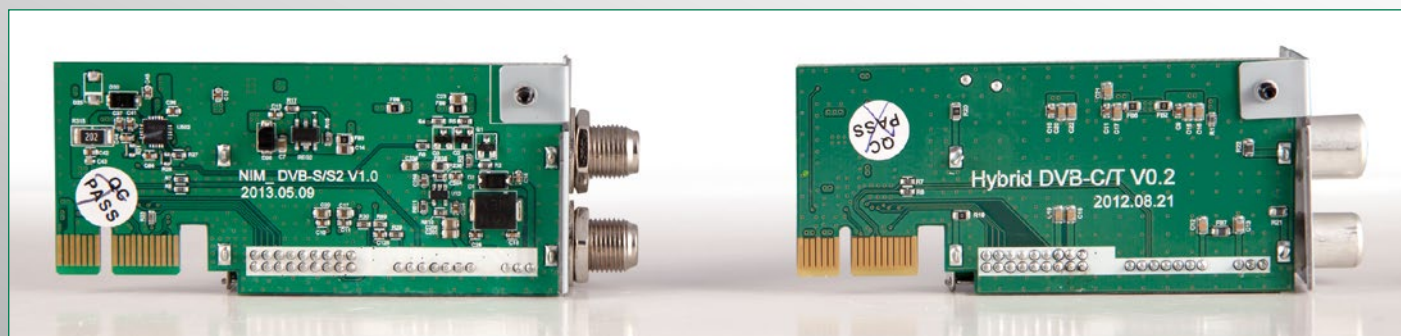
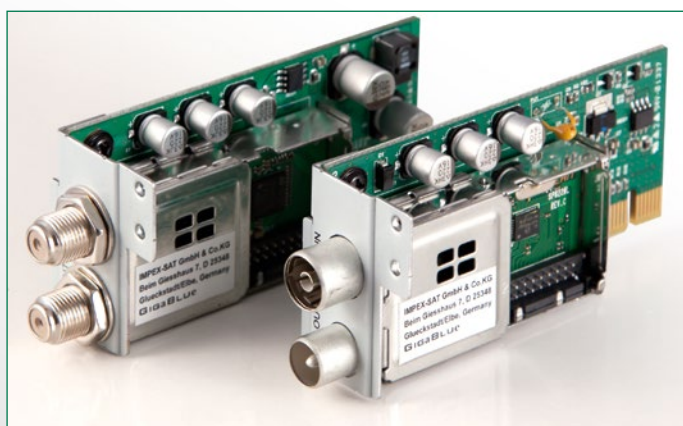
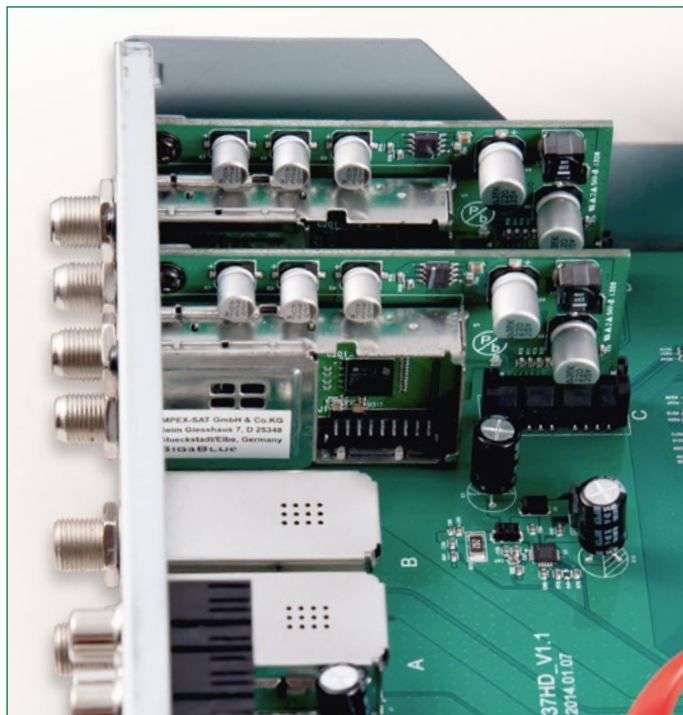
When in PVR mode, the receiver automatically greys out all channels that currently cannot be received due to existing reception restrictions. On the other hand, when you have four tuners installed, there won't be much that is greyed out since this is one of the major benefits of such a high number of individual tuners built into a single receiver. As far as the software side is concerned there seems to be no limit as to the number of simultaneous recordings and in our test we were able to record eight and more events at the same time. It appears that the only restriction is the storage medium that is installed or attached, rather than the processing power or operating system of the receiver.

So it definitely pays to have an internal S-ATA hard disk installed, since this allows for a much higher data throughput than external storage media connected through a USB port.

At the centre of the receiver's hardware is a hugely capable BCM7356 processor clocked at 1300 MHz, together with 1024 MB of DDR3 memory and 512 MB of NAND memory. Linux was chosen as the operating system by the manufacturer, thus using an open platform that can be revised, enhanced, and developed in a multitude of ways.

Extended commercial breaks tend to test our patience way too frequently, but with the Giga Blue HD Quad Plus you can simply start the picture-in-picture function, switch to another channel and still keep an eye on the original channel in order not to miss a single second of your favourite broadcast. In our test we tried this feature with two high-definition channels and could find no fault in the way the receiver processed both signals simultaneously.

It goes without saying that users can also launch a fully-featured media player which can be fed with almost any audio or video file you may have stored. To be more precise, the following formats should work smoothly: M4A, MP3 and WMA, as well as AVCHD, AVI, DivX, Flash, Full HD, MP4, MPEG, TS and WMV on the video side. Do you prefer to watch your latest holiday photos on the TV screen? Not a problem either, since both JPEG and BMP files will be presented flawlessly. In the end, it does not really matter whether you'd like to listen to some music, watch the latest clips and movies right from the Internet, or walk down memory lane while looking at childhood photos of yourself and your loved ones – the Giga Blue HD Quad Plus is the centre of attention for all those activities, and then some. Thanks to fully implemented UPnP server and client functionality you may even access media files stored across your



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local network or make content stored on the receiver's hard disk available to other clients on the same network.

Talking about network integration: Unless you have deactivated the web interface during the initial setup routine all network parameters can easily be controlled and adjusted via a web browser on your PC. All you need to do is key in your receiver's IP address to gain complete access to the channel list, EPG or recorded events. You can even remotely put the Giga Blue HD Quad Plus into standby mode or send messages to the receiver which will be shown on the TV screen. We were particularly pleased to find out that it's possible to perform a keyword search across all EPG data and create timer entries right from the PC. This way you can control and operate the receiver from your office or even while on holidays. It gives you the option of browsing through the EPG and mark events for recording, if desired.

Let us go back now to the main menu of the Giga Blue HD Quad Plus once more to have a look at all the available setting and adjustment options. For those of you who simply want to turn on the box and watch TV without further ado let us just state that you'd be hard pressed to find a parameter that cannot be changed here. To all the rest of you out there – and we know this is by far the majority – we say: read on! Obviously the look and feel of the OSD can be adjusted to meet individual preferences, and the same is true for the receiver's PVR behaviour. This area alone boasts more than 30 customisation options. Never before did we test a receiver that was so open to customisation as

the Giga Blue HD Quad Plus. Keyboard layout, status LED, OSD, you name it – a few little tweaks is all it takes to make this box look and perform exactly how you want it to.

Naturally, all settings and adjustments that have been taken care of during the initial setup are available via the main menu as well. And while we were at it, the fact that a blind scan function is also implemented put a huge smile on our faces, since this was an option that had not appeared in the installation wizard. Before launching a blind scan users can define the required reception range, polarisation and symbol rate range to be targeted. A full blind scan search on HOTBIRD at 13° East only took nine minutes and resulted in 2401 TV and radio stations. As far as SCPC signals are concerned the Giga Blue HD Quad Plus also delivered excellent results on TURKSAT 42° East, where it reliably detected all transponders using low symbol rates.

A product like this does appeal to amateurs and professional alike, and in order to keep the pro segment just as happy as the amateurs, Impex-Sat has also thrown in a manual search with a wide range of adjustment features.

Thanks to the available Ethernet port on the back panel, the Internet plays a major role for the Giga Blue HD Quad Plus, not least as a platform for making available software updates in order to improve and enhance the receiver's range of features. For a manufacturer which does not only launch a product but also supports its customers throughout the product cycle this aspect is of great importance.

What's more, this receiver comes equipped with a so-called plugin interface that can be used to add features and functions in an organised and, above all, simple way. A plugin archive is available online from which users can select those plugins that offer them most added value. Those plugins can then be downloaded and installed with a single touch of a button. The online archive is divided into 11 categories such as skins, drivers, DVB, codec or settings, so that users will find their way around the extensive offering quite easily. The range of features and functions on offer is more or less endless. Do you need a plugin that automatically adjusts the volume to the same level when you switch to another channel? Got it! Want some extra fine-tuning options for DiSEqC settings? Got it! Care for a new skin for the user interface? Got it again! And the list goes on, since you will also find plugins that access YouTube videos, content libraries of various broadcasting networks, Internet TV or radio via the Internet, among other things. Social media, webcams from all over the world, a web browser or pre-defined and perfectly structured channel lists for a number of satellites are other examples for useful plugins. Not only is the archive huge in its current state, it is set to grow by the day so that in the end only the sky is the limit when it comes to using those neat software extensions. Thanks to the many professional and amateur software developers out there we recommend you have a look every once in a while.

If there is one plugin that – in our opinion – deserves a special stage call it's the DVD Burn plugin. It can be used to burn existing recordings

made by the receiver onto a DVD using an external DVD drive connected to one of the receiver's USB ports. If you're looking for an easy and fast way for permanently archiving your favourite recordings, you need not look any further than this plugin.

The list of features of the Giga Blue HD Quad Plus is rounded off by integrated DVD player software. What that means? Well, the receiver can either play back DVDs from an external DVD drive, or you may opt to read out all DVD data on your PC, save it into an external hard disk or USB memory stick and then watch its content with this receiver. Naturally, we had a go at this added function and found it to work smoothly and flawlessly. The best part is that this way you don't need an additional DVD player or even DVD recorder. Unfortunately, however, the Blu-Ray standard is not supported by the Giga Blue receiver, even though the external DVD drive we used was perfectly capable of playing Blu-Ray discs as well.

Another bonus function we'd like to present to you is the so-called Auto Timer. It can be used to enter the name of your favourite crime series – or any keyword for that matter – and the receiver will then look through the entire EPG archive and create an individual timer entry for each match. Even better, with Auto Timer turned on the receiver will not only perform a single EPG scan and set up timer entries, but it will keep looking for matching events until this function is turned off again. Our test demonstrated that this feature is not only very smart to use but also works absolutely reliably. It gives you a huge variety of configuration trim-

98. Our external DVD/Blu-Ray drive was quickly and correctly identified.

99. DVD playback with the Giga Blue HD 800 Quad.

100. Any desired event can be searched for in the EPG and then marked for the Auto Timer feature.

101. Restrictions (regarding channels and times of activity) can be added to each Auto Timer entry to make sure reruns are not recorded, for example.

102. The Auto Timer feature can

be customised to a very high degree in order to guarantee flawless operation.

103. Overview of currently active Auto Timer entries.

104. DVD Burn plugin

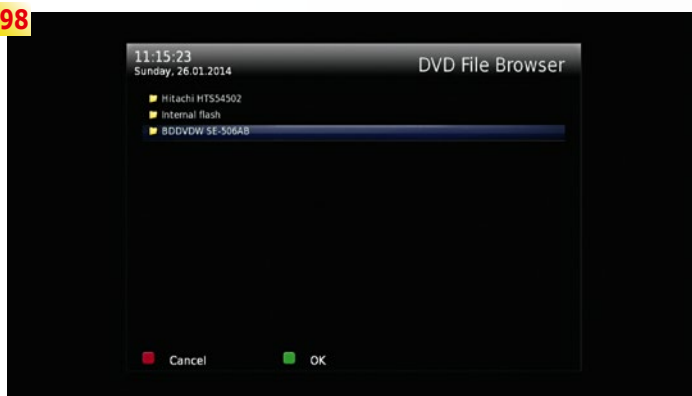
105. DVD Burn plugin

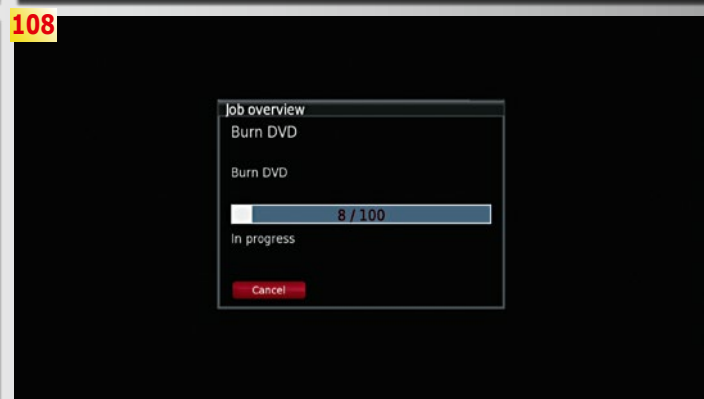
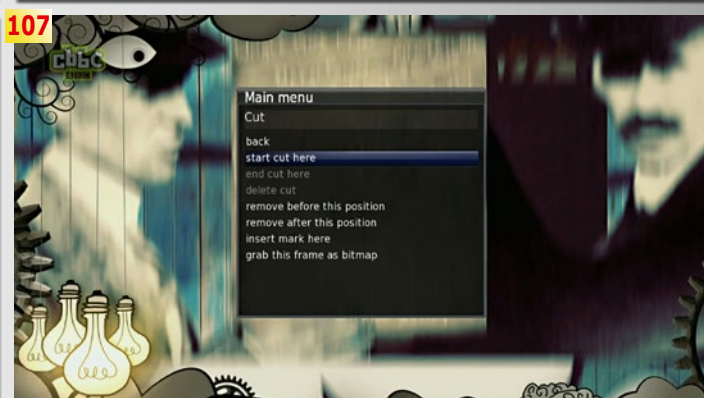
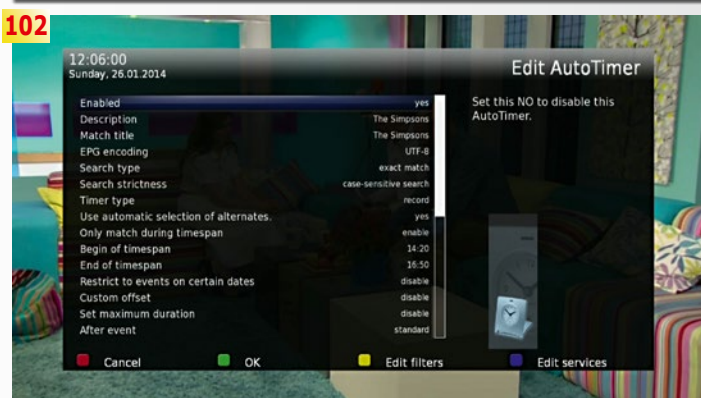
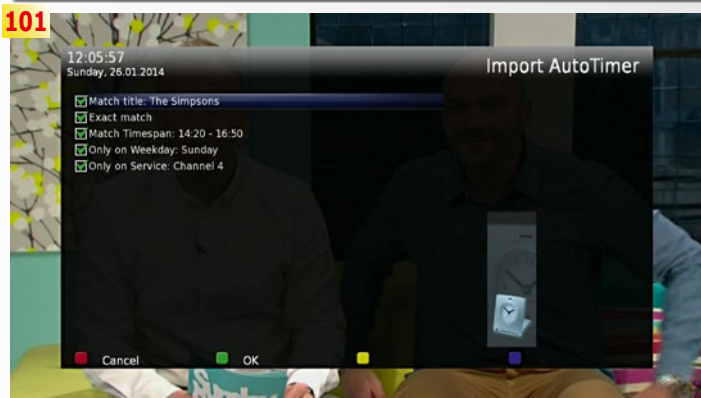
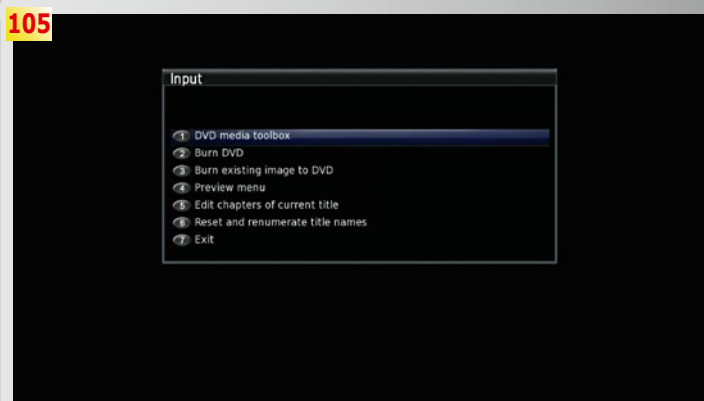
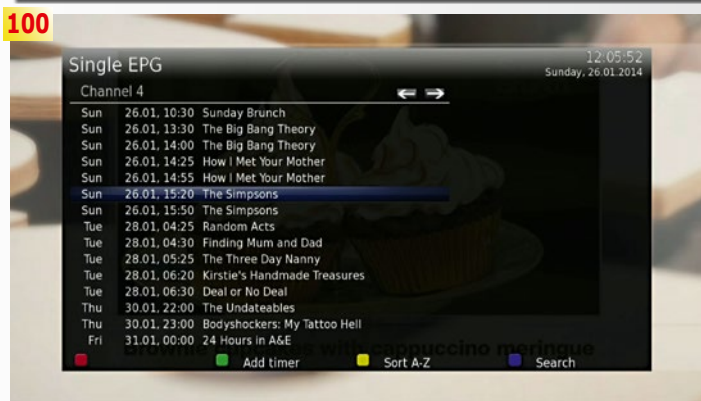
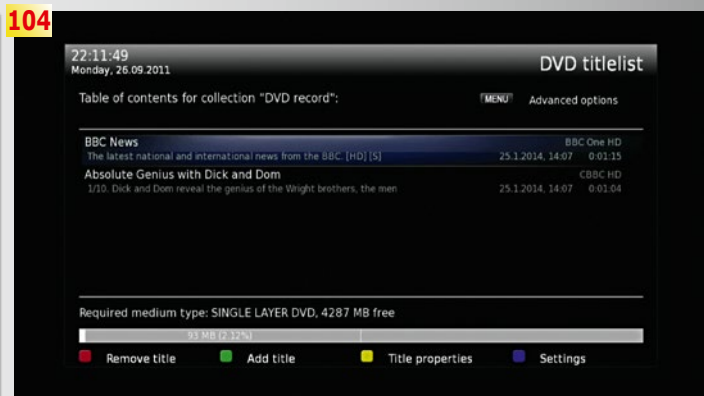
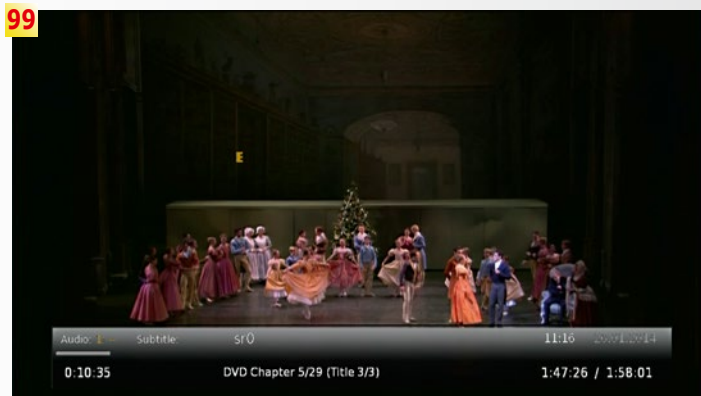
106. Configuration options of the DVD Burn plugin.

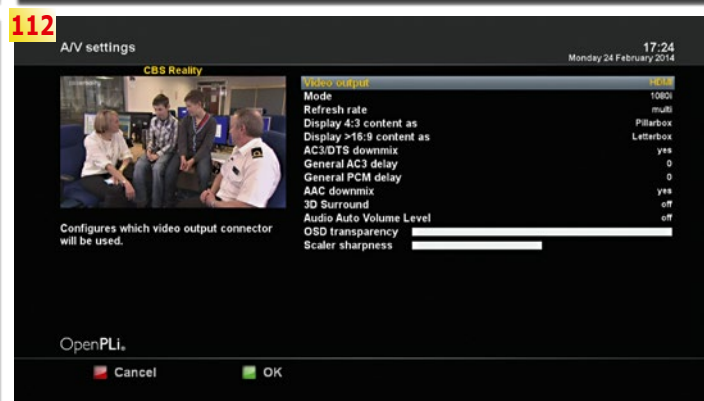
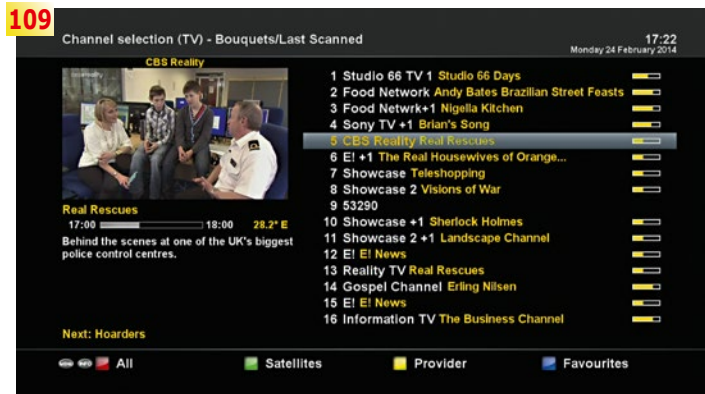
107. Recordings can be edited before being burnt onto a DVD.

108. Burning in progress.

98







109, 110, 111, 112. Thanks to four pre-defined skins the receiver's OSD can be changed with only a few clicks on the remote control.



mings so that – for example – re-runs of already recorded events are not picked up for duplicate recordings by defining certain time frames. It is also possible to define specific days of the week and channels that should not be considered for the Auto Timer routines.

We haven't mentioned encrypted and pay TV channels so far, but obviously the Giga Blue HD Quad Plus will be happy to process those, too. Two common interface slots are available for all currently available modules. If you want to make use of the two integrated smartcard readers you need to activate the receiver's softcam mode. By default, this box is shipped without any softcam extensions installed.

With all those smart features and useful functions, you might think the Giga Blue HD Quad Plus does not call for any additional validation,

but there's one more thing that might be of interest to you: Two different standby modes are available to cater for two rather different preferences: If you want your box to wake up almost instantly after pressing the ON button this can easily be fulfilled, albeit with a higher power consumption in standby mode than with the so-called deep standby. The latter hardly draws any power at all from the mains during standby, but takes some 45 seconds to fully wake up. Once again, the choice is yours.

In summary, the entire test team at TELE-audiovision was overwhelmed with the first quad tuner PVR from Impex-Sat. The overall concept turned out to be thought through to the very last detail, and the user experience is just as remarkable. With up to four individual tuners in a single box you can never blame your receiver again for missing a great broadcast.

EXPERT
 OPINION

GigaBlue HD Quad Plus
4-Tuner HDTV Receiver



TELE-audiovision
THE WORLD'S LARGEST DIGITAL TV TRADE MAGAZINE

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CARD

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Thomas Haring
Test Center
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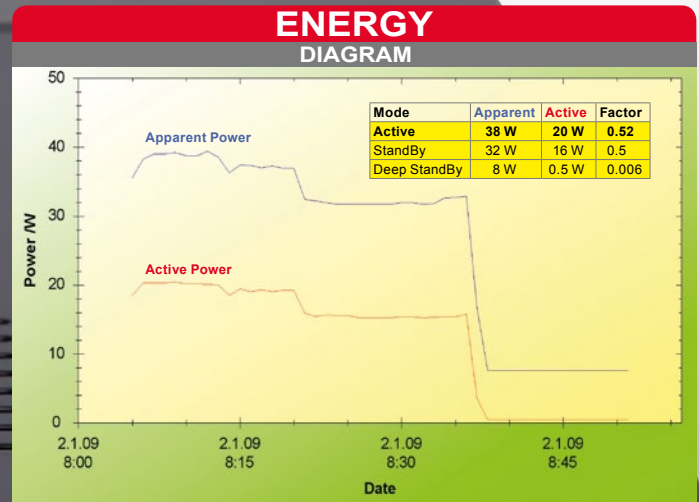
TELE
audiovision
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+ • Four tuners for simultaneous use – what is like a small technical sensation provides users with more or less endless viewing and recording possibilities.

• Thanks to the logical menu structure and clever user interface the Giga Blue HD 800 remains family-friendly – despite its enormous range of functions.

• In addition, it replaces an additional device thanks to the integrated DVD player and recorder function.

- • none



Active use during first 15 minutes, followed by 15 minutes of standby and 15 minutes of deep standby.





Rohde & Schwarz R&S EFL210

- *Faster waterfall diagrams*
- *Now especially weak signals can be recognized*
- *Automatic leakage function for the LTE band*
- *Improvements that benefit the user*



Firmware Update



Now Even Better: Signal Analyzer for the Perfect Installation and Interference Measurement of Cable TV Networks

Vitor Martins Augusto

Recently we introduced the exceptional cable TV signal analyzer for DVB-C in the 03-04/2014 issue of TELE-audiovision. R&S developed the EFL product line for technicians who install and test cable TV installations. The model EFL210 is especially interesting because it is specifically designed to measure interference signals.

The R&S EFL210 is now even better thanks to a firm-

ware update from Rohde & Schwarz. The first beta version of this new firmware was made available to us for this test report. So what's new in this update? What was improved? And above all, how do you load the new firmware? Well, you're in luck! We have all the answers. Read on!

A firmware update is always a good thing. It shows that the manufacturer con-

tinues to support the product by eliminating any bugs and, most importantly, adding new functions.

But there's still a hurdle that has to be jumped: the new firmware needs to be loaded onto the device and this is a critical step. Before the new firmware can be written to the Flash memory, the existing firmware must first be completely deleted. If any problems occur during

the update, the worst-case scenario could be that you have a dead device in your hands. I addressed this subject in my Workshop articles and managed to take several devices and bring them back to life (see, for example, TELE-audiovision issues 07-08/2013 and 05-06/2012). But, of course, it would be best if the firmware upgrade took place without any problems in the first place, especially if it involves a valuable instrument like those from Rohde & Schwarz.

When it comes to firmware updates, many manufacturers expect the user to copy the firmware files to a USB storage device using cryptic filenames so that they don't accidentally use the wrong file. Believe me, it's not at all that unusual; it has happened to me where I've accidentally loaded the wrong firmware to a signal analyzer or receiver. There are many different but similar device models and firmware versions out there such that mistakes like this can happen.

For this reason Rohde & Schwarz relies on their own software program to handle firmware updates. This program takes care of the entire process automatically. It confirms the model of the device so that it's impossible to accidentally load the wrong firmware.

The uploader is a normal software program for Windows. It needs to be installed by the user which at the same time also installs the necessary drivers so that the R&S EFL210 can be recognized by the computer. This is another little tidbit that Rohde & Schwarz thought about; it lets you use any computer or laptop for the firmware upgrade and not just the PC that already has the R&S EFL Suite installed on it.

Finally, you just need to connect the signal analyzer to the PC with the included

Rohde & Schwarz

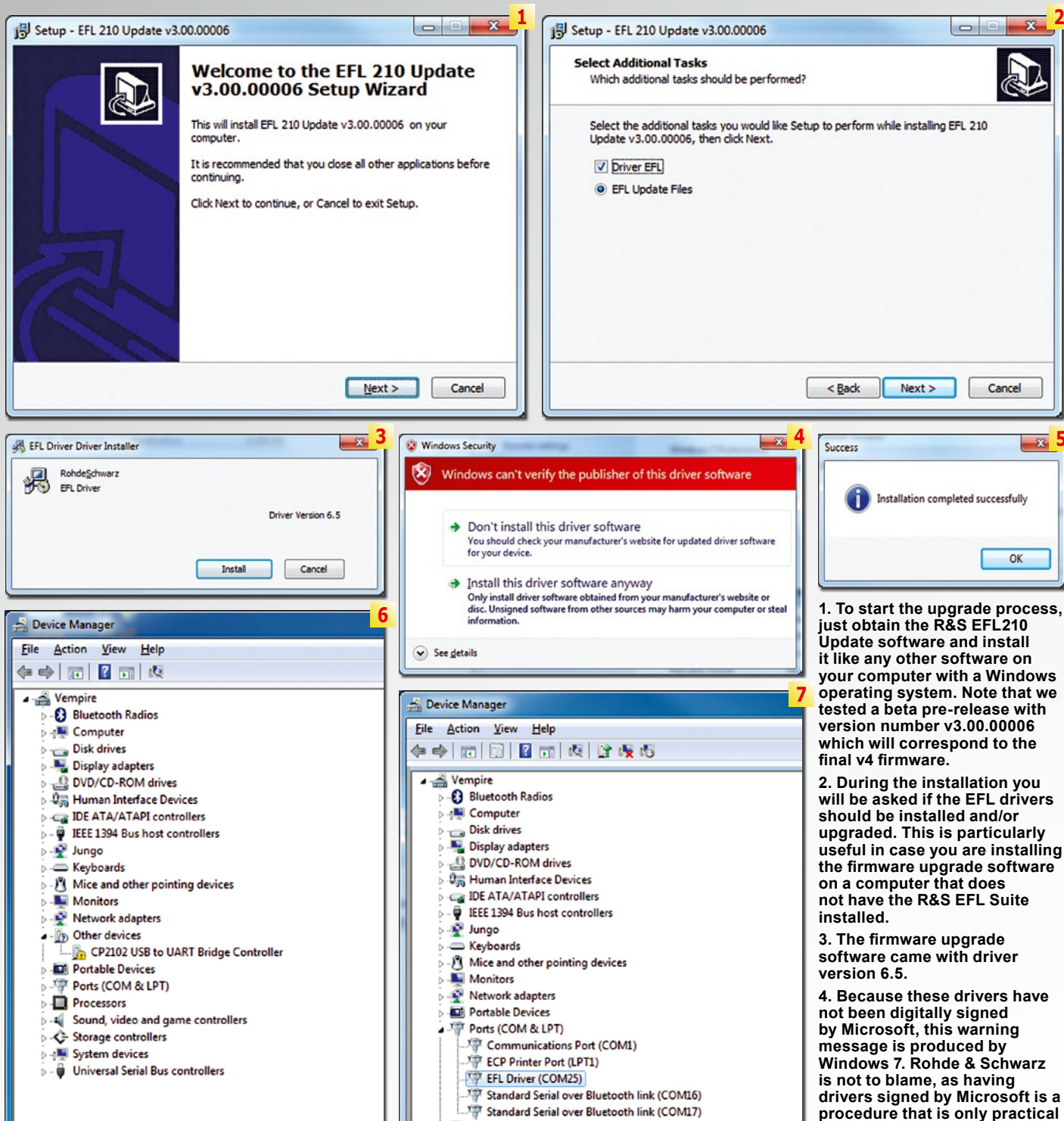
- Top of the Line Cable TV Analyzer
- Specially Designed to Detect Leakage Signals
- Displays the Entire Spectrum from FM to WiFi
- Special Directional Antenna for the Aircraft and LTE Bands
- Enables Compliance with the Strictest EMS Regulations

DVB-C R&S EFL

■ In TELE-audiovision 03-04/2014 stellten wir das R&S EFL210 vor. Den vollständigen Testbericht können Sie auch direkt lesen über diesen Link:
www.TELE-audiovision.com/14/03/rohde-schwarz

USB cable (it's just a standard A-B USB cable) and then start the R&S EFL210 Update program. There's only one single setting that needs to be taken care of: the interface port to the analyzer can be handled automatically or manually.

It has to do with which COM port the R&S EFL210 occupies since a virtual RS-232 interface is created by the driver for the connection to the computer. It utilizes a CP2012 to UART Bridge Controller. Since other RS-232 interfaces could be available (also known as COM ports), the corresponding COM num-



ber will change. Through Bluetooth drivers the COM ports between COM1 and COM24 are quite often already occupied resulting in the R&S EFL210 connecting, for example, via COM25. The Update software automatically tries to find the correct COM port although sometimes this method doesn't work or it would be faster to just simply set the COM port manually.

To upload the firmware the

analyzer needs to be connected to external power using the power supply. This should really be done with any device to make sure that the battery doesn't die during the procedure.

Naturally we tried uploading the firmware without the power supply attached but Rohde & Schwarz thought about this possibility and built a test into their update software that prevents the process from starting without

the power supply attached. But that's not the only safety net built into the software; there's also a check to help prevent the wrong firmware from being uploaded. Since we also had the upgrade software for the smaller R&S EFL110 model, we naturally had to try uploading this version to the EFL210.

To make a long story short, it didn't work because the upgrade software double checks to make sure you're not try-

1. To start the upgrade process, just obtain the R&S EFL210 Update software and install it like any other software on your computer with a Windows operating system. Note that we tested a beta pre-release with version number v3.00.00006 which will correspond to the final v4 firmware.

2. During the installation you will be asked if the EFL drivers should be installed and/or upgraded. This is particularly useful in case you are installing the firmware upgrade software on a computer that does not have the R&S EFL Suite installed.

3. The firmware upgrade software came with driver version 6.5.

4. Because these drivers have not been digitally signed by Microsoft, this warning message is produced by Windows 7. Rohde & Schwarz is not to blame, as having drivers signed by Microsoft is a procedure that is only practical for mass production devices.

5. Drivers have been installed successfully as expected!

6. Before connecting the R&S EFL210, you can open the Device Manager within the Control Panel. This way you see the driver being installed by Windows. The R&S EFL210 is first recognized by its CP2102 USB to UART Bridge Controller.

7. Once the driver has been fully installed, the R&S EFL210 is listed as a COM port with the name EFL Driver. Rohde & Schwarz developed their own custom driver instead of using a generic CP2102 driver, thus avoiding any possible driver conflict with other similar controllers.

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ing to upload the wrong firmware. The upload process is simply stopped in its tracks.

We finally did it all correctly; the update process proceeded without any problems and was completed in a reasonable 15 minutes, a little bit faster than the 20 minutes specified by Rohde & Schwarz.

You should without a doubt allow for some time for this process to complete and, if you're using a laptop for this update, it should also be connected to a power source to avoid any possible surprises with the laptop's battery.

After restarting the R&S EFL210, it was instantly ready to go. All of the new functions could now be checked out.

Higher Waterfall Diagram Speed

An immediately noticeable improvement was the speed of the waterfall diagram in leakage mode. Now it scrolls smoothly at a rate of 10 lines per second which is on average four to five times faster.

Higher Waterfall Diagram Sensitivity

It wasn't only the speed that was improved in Leakage mode, but the sensitivity of the analyzer as well. Now 3 $\mu\text{V}/\text{m}$ - 9.5 dB $\mu\text{V}/\text{m}$ can be differentiated where before it was only 11 $\mu\text{V}/\text{m}$ - 20.8 dB $\mu\text{V}/\text{m}$. Finer details can

now be recognized in the HF spectrum.

AUTO CONFIG Function for the Waterfall Diagram

Leakage mode now has a new AUTO CONFIG function that automatically adapts the reference level and the level range to the signal. This function can be programmed into either the F1 or F2 function buttons so that the user can adapt the waterfall diagram to the signal level at any time.

Noise Level Always Visible

Along with the AUTO CONFIG function there's also an additional improvement: the noise level is now always

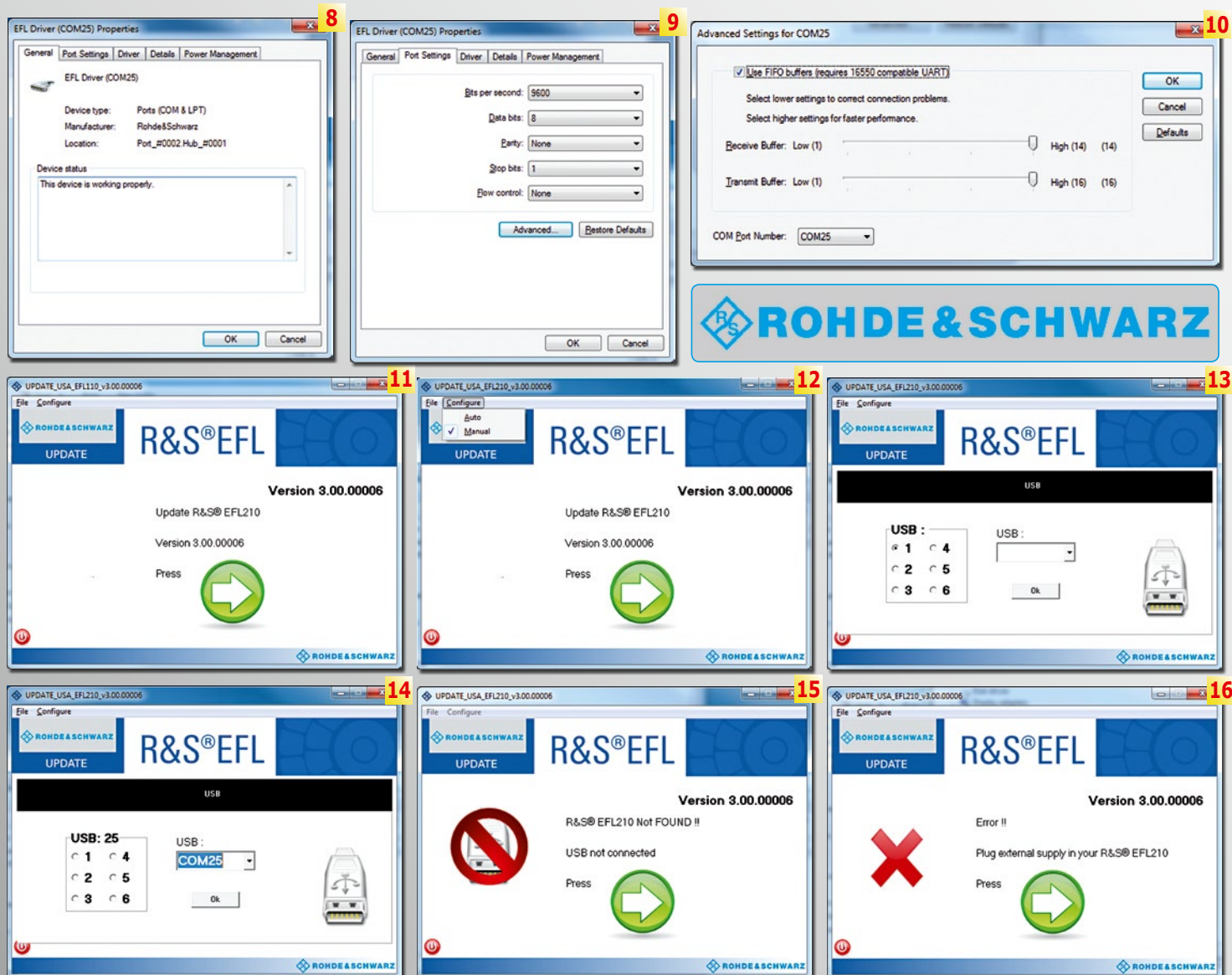
displayed in the spectrum so that even very weak signals can be recognized at any time.

Automatic Leakage Search Function

A really one-of-a-kind and especially useful function is the new Leakage Search function. This allows for the automatic search for leakage in the LTE band. The analyzer determines if there is any typical cable TV leakage in the LTE band and displays on the screen a corresponding message and at the same time produces a signal tone.

EXT.AMP. function

The EXT.AMP function can also be programmed into ei-



ther the F1 or F2 buttons so that external amplifiers can easily be turned on or off. It's a practical feature that, for example, would allow the user to quickly turn the built-in amplifier in the R&S EFL-Z100 antenna on or off.

This would be important if, for example, you want to switch between the aircraft band and the LTE band or if you just want to conserve battery power.

FRAME BEEP function

When the waterfall diagram has been completely regenerated, an audio tone sounds so that the user doesn't need to keep an eye on the display. The waterfall diagram that in leakage mode is displayed underneath the spectrum, consists of 190 lines that refresh in an upward direction. The audio tone sounds whenever all 190 lines have been refreshed.

Although this function is actually quite simple, it's unbelievably useful. You only need to glance at the display whenever the audio tone

sounds; you won't miss any details of the measurement.

Improved Audio Tone Acoustics

The audio tone was improved in the new firmware. It acoustically adapts to the signal level and is generated faster as well as in a pleasant tone.

In the End

Rohde & Schwarz put a lot of work into this firmware update that offers not only improvements to existing

functions but entirely new functions as well.

These improvements are based on user input; the programmers didn't just improve what they themselves thought made sense, they implemented functions that came back as the result of field tests. And that's exactly what you would expect from a market leader of professional HF signal analyzers: research and development so that additional innovative products can be offered.

8. Double clicking the EFL Driver opens the Properties page.

9. Open the Port Settings tab and click the Advanced button.

10. A window opens, where you can actually configure which COM port you want to use. Sometimes, especially if you have a Bluetooth controller installed, many possible COM ports may already be in use and conflicts can arise. Simply select an unused COM port for the R&S EFL210 and you are set.

11. We are ready to start the upgrade process. Just start the update software.

12. There are only few options available: you can select of the tool should detect the COM port automatically or manually.

13. If you select Manual, a window opens, where you can specify the correct COM port of the R&S EFL210. This can speed up things, as the tool does not have to search within all existing COM ports.

14. Because I know that the R&S EFL210 is on COM25, I selected it.

15. Just a little test: I tried to upgrade without turning the R&S EFL210 on.

Naturally the tool complains about this.

16. Next test: the tool does not allow the upgrade, if the instrument is not connected to the external power supply. This is to prevent power failure due to discharged batteries.

17. All set this time.

18. This time I set the detection mode to automatic. The upgrade tool starts searching the R&S EFL210 under COM1...

19. ...and reaching COM25...

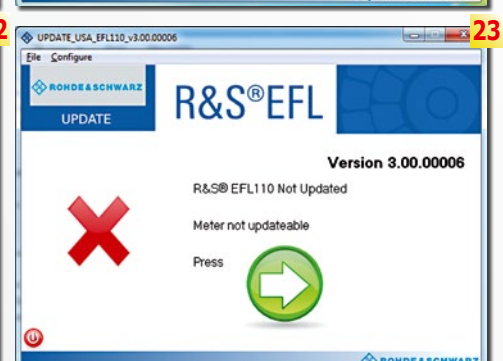
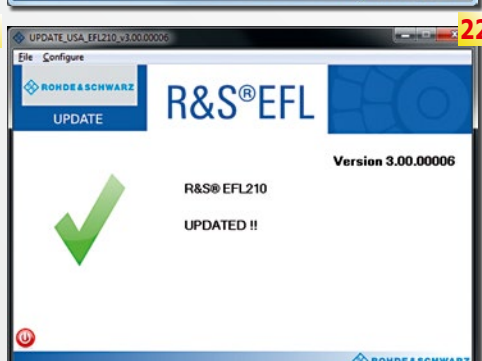
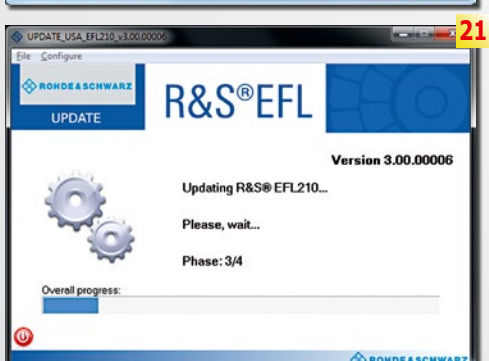
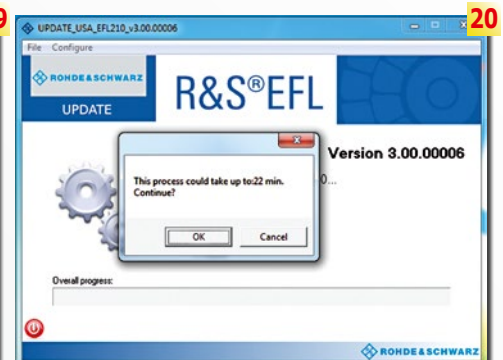
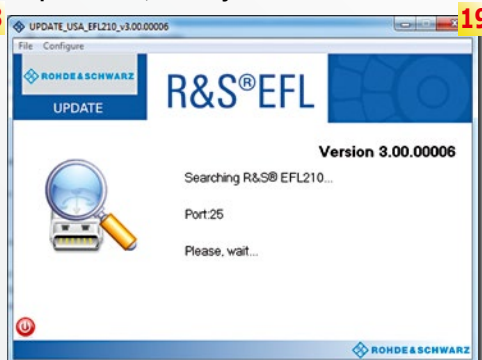
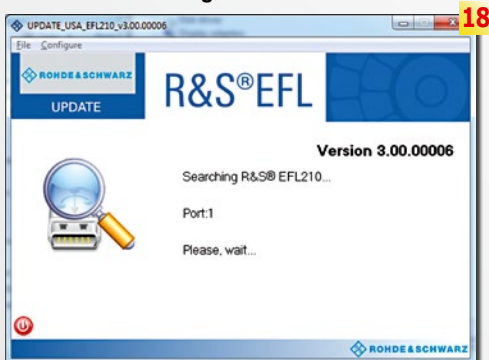
20. ...the instrument is found. To make sure you have the time for the upgrade, you are asked if you can spare about 22 minutes. This is a serious and welcoming information. Certainly many readers can relate, when I remember one time I had to leave the office in a hurry and shutting down the laptop, Windows started installing updated, which took almost an hour. Had I only known...

21. Another nice feature of the upgrade tool is the fact that you are continuously informed about the progress. Knowing that a firmware upgrade is a delicate procedure, nobody wants to sit 20 minutes

waiting without any feedback!

22. And after approximately 15-20 minutes, a green checkmark signaled that the firmware has been correctly installed.

23. Did Rohde & Schwarz pay attention to details? Yes they did! You cannot install the wrong firmware by mistake. Here I tried to upgrade my R&S EFL210 with the R&S EFL110 firmware. Upon connection of the instrument, the upgrade tool refused to do so.



1. If you open the "LEAKAGE" menu, you will find a new option "AUTO CONFIG". Select it to automatically set the scale for the signal level. Notice the colored bar in the upper right corner? This indicates what color the respective signal level will have in the waterfall diagram. In this picture you see the setup prior to activating this function. Take a look at picture 7 to see an ideal scale.

2. Another new option is "FRAME BEEP".

You will find it in "LEAKAGE – WATERFALL OPTIONS".

3. If you turn "Frame beep on", every time a full waterfall diagram is rendered, i.e. 190 lines are scrolled upwards, the R&S EFL210 will sound a beep.

4. In "LEAKAGE – WATERFALL OPTIONS" you will find the brand new function "SEARCHING LEAKS".

5. After activating this function, the R&S EFL210 will search for CATV leaks in the LTE band.

6. Notice the "Searching" in the lower right corner. The R&S EFL210 is actively searching the LTE band for typical CATV patterns which result from Leakage.

7. To try this function, I hooked up the R&S EFL-Z100 antenna provided with the R&S EFL210 and started to look for leaks. Naturally we do not have leaks in our test center...

8. ...so I produced a leak! Immediately the R&S EFL210 issued a warning sound and displayed "Cable leak detected!" on the screen. While Rohde & Schwarz do explain in the included "What's new" document that

this function is not guaranteed to detect all Leakages automatically, I must say that I am quite impressed with how efficiently it worked during my tests.

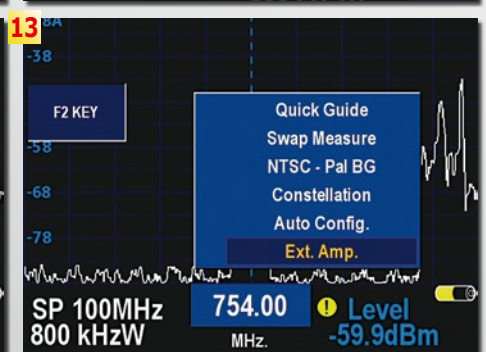
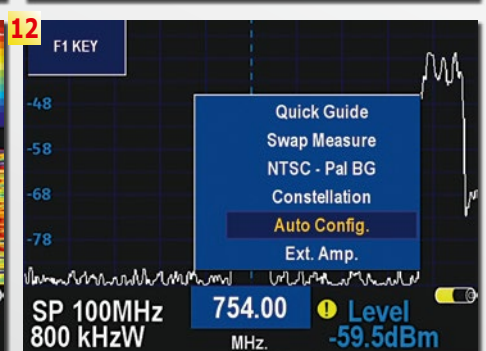
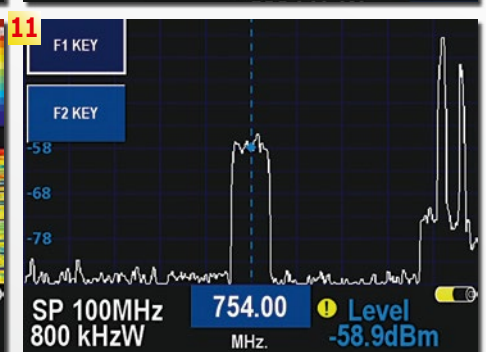
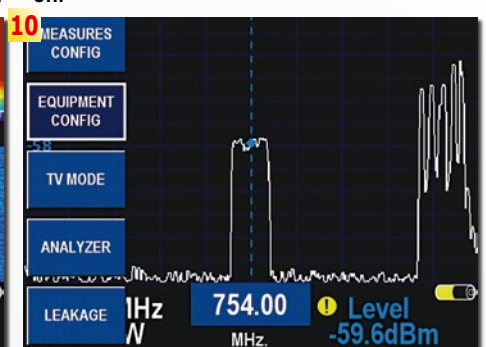
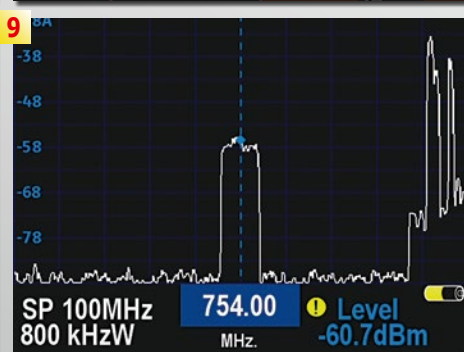
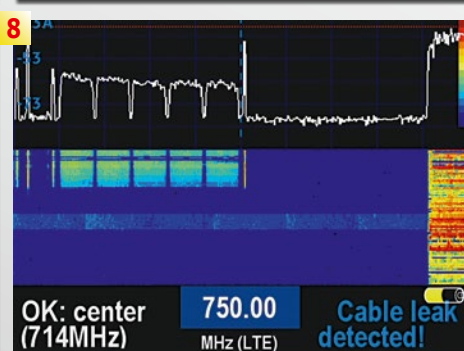
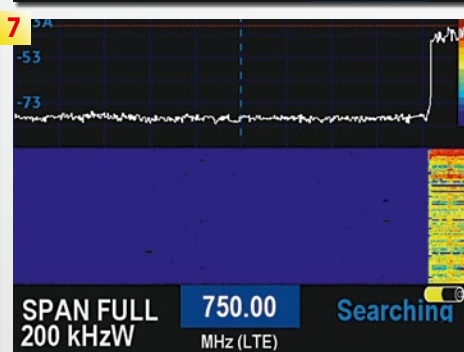
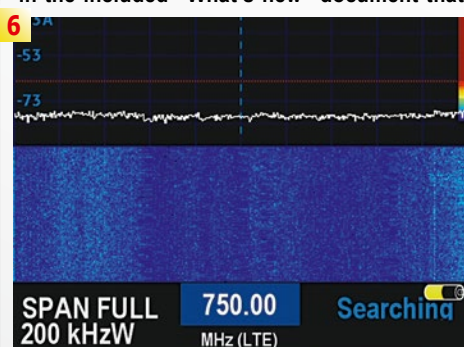
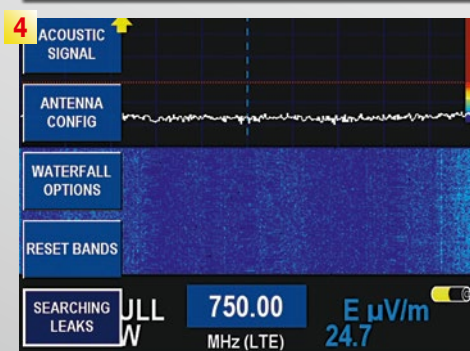
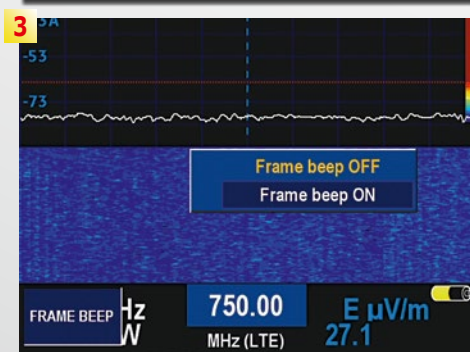
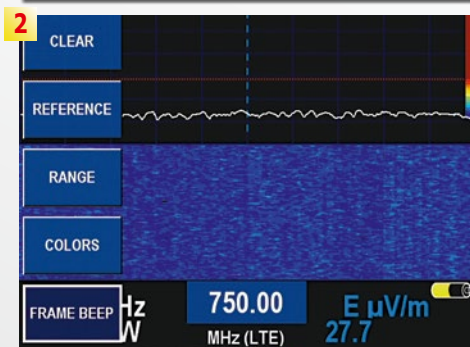
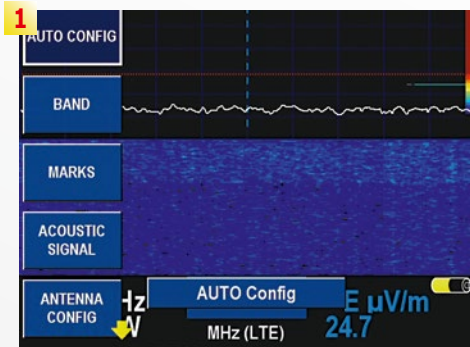
9. Another improvement in this new firmware: the noise level is always displayed in the spectrum analyzer mode, making it easier to detect very faint signals.

10. If you open the "EQUIPMENT CONFIG" menu, you can setup the two functions keys F1 and F2. This was already possible with the previous firmware.

11. Just select "DIRECT KEYS" and then either one F1 or F2.

12. The menu now shows two new entries. I have set the F1 key with "Auto Config.", because I will use this function a lot - never again will I have to fiddle with the color range of the waterfall diagram!

13. For the F2 key, I selected the new "Ext. Amp." entry. This allows me to turn the current for the external amplifier on and off. When using the R&S EFL-Z100 antenna, the AIR band requires the amplifier to be turned off, while the LTE band requires it to be turned on.



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Panodic OTT Android TV Box IV3118



- **fast integration into existing network**
- **menu structure identical to Android smartphone OS**
- **all Google apps can be installed**
- **supports all current video formats**
- **can be upgraded into a fully-fledged entertainment centre with the help of a wireless keyboard and mouse**



Web TV and Media Box – Two in One!

Panodic's new OTT Android TV Box IV3118 is a particularly winning combination of multimedia and web TV box. Panodic made a deliberate choice to base its latest offspring on Google's Android operating system – not only is it a perfect match for mobile use with smartphones and tablet PCs, it also serves as an excellent platform for web TV and media boxes.

The manufacturer has devised a sleek black design for its OTT Android TV Box IV3118, which isn't much larger than two cigarette packs put side by side. A no-nonsense minimalist look seems to have been the order of the day given to the design team. The front panel is equipped with two status LEDs, an On/Off switch and the IR field for picking up commands from the remote control – and that's that. If you're looking for the two USB ports and the micro SD card reader that are listed in the technical specifications

you'll find those on the right-hand side of the box. The back panel features an HDMI port, an RJ45 network interface and three RCA jacks for stereo audio and composite video. Power is supplied via a separate 12V power unit which keeps the actual box very small and offers the added benefit of mobile use with 12V power sources while camping or out in the garden.

Like the box itself, the remote control is on the small side and at first sight seems to be a little too small for convenient use. Once you familiarise yourself with the remote, however, you'll find that it sits nicely in your hand and comes with all keys required for straightforward operation. What's more, all keys are clearly labelled and therefore very easy to read. In general, the build quality of all components created a very positive mood full of anticipation. One more thing we noted were some recessed openings on the

rear side of the box. It did not take us long to figure out that Panodic provides those for screwing the box onto the wall behind the TV panel, if that's where you want to place the device. The screw heads will hold the OTT Android TV Box IV3118 firmly in place thanks to the provided openings.

When you turn on the box for the first time you'll be greeted by an installation wizard which guides novices through all basic set-

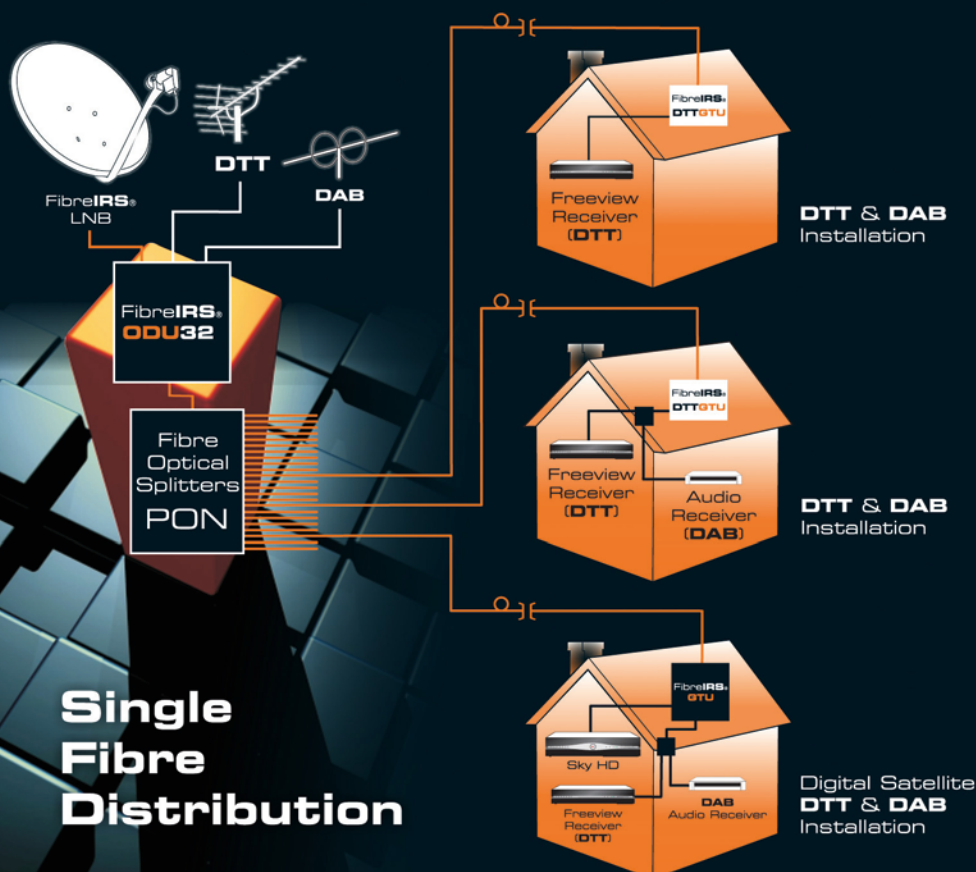
tings. It starts out with your preferred language, which in our case was either Chinese or English. The next step consists of adjusting the OSD to the TV panel in order to avoid black bars or cut off video sections. Well done, Panodic! Next, the box is connected to the Internet, which can take place via cable or wireless, depending on the local network infrastructure. Thanks to using the Android operating system, the sky seems to be the limit when it comes to supported protocols. No matter whether it's DHCP, manual SSID input or WPA encryption – Panodic has covered it all. Once the Panodic OTT Android TV Box is hooked up to the local network or the Internet





The New Generation Fibre Integrated Reception System

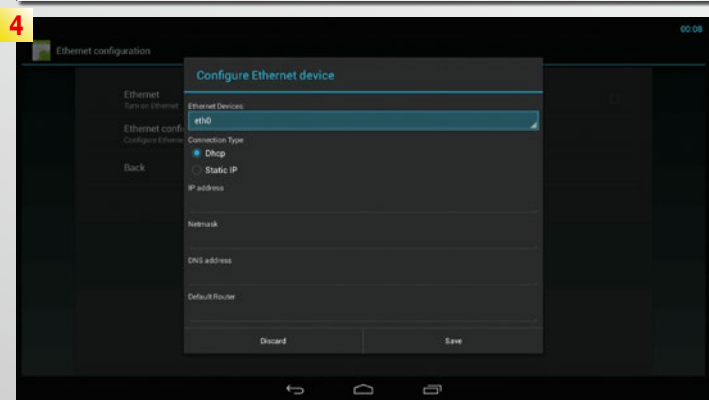
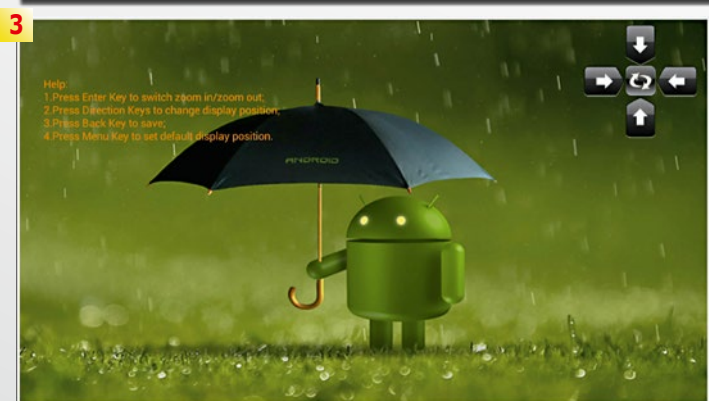
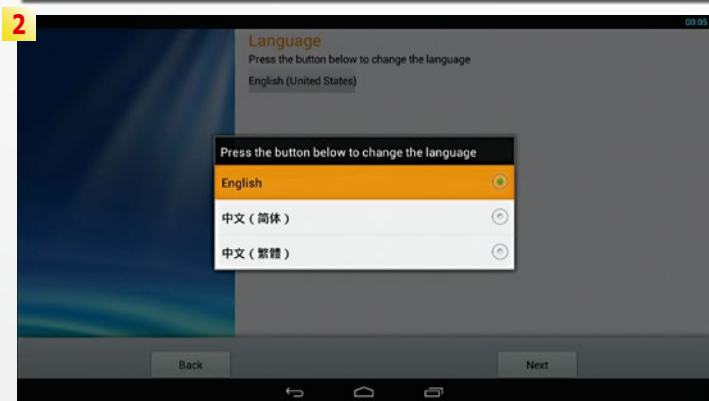
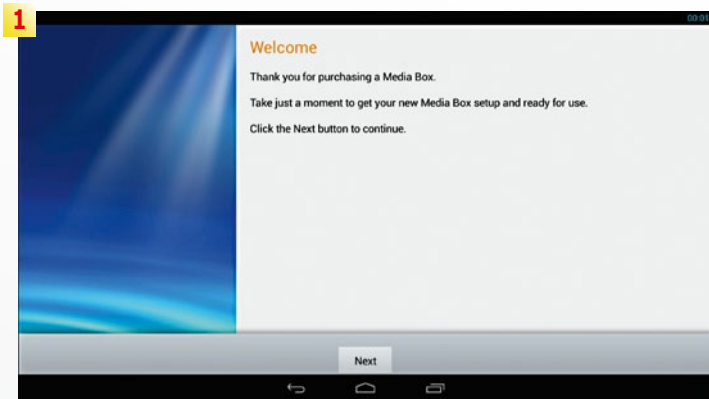
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the installation wizard automatically leaves the stage, and you're all set to rumble. For those caring to know, the box comes with Android 4.2.2 Jelly Bean, which is one of the most recent versions of Android and works wonderfully with the web TV and media box. There was nothing left to desire during our endurance test – and we fully mean that!

Those of you familiar with

Android-based smartphones or tablets will feel right at home with the Panodic OTT Android TV Box. It comes with a total of three launchers to choose from, each of which serves the purpose of creating a central point of departure for accessing apps, multimedia content and settings. One is Google's default Android Launcher, the second is the AmIMboxlauncher and the third launcher is

1. This handy wizard guides you through the installation process.

2. Language selection – apart from English the box we received for testing also came with Simplified and Traditional Chinese as alternative options.

3. The OSD layout and appearance can be adjusted to the attached TV panel.

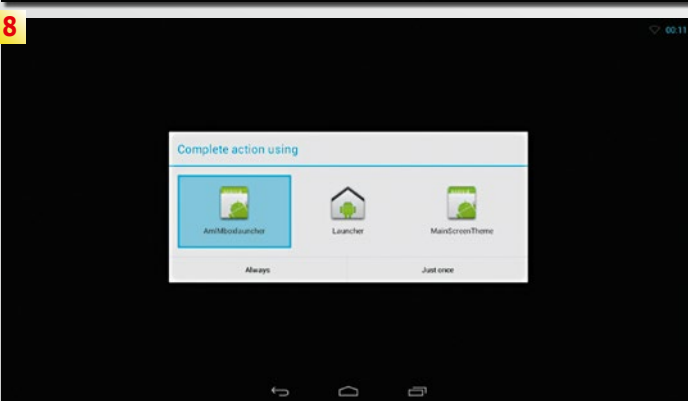
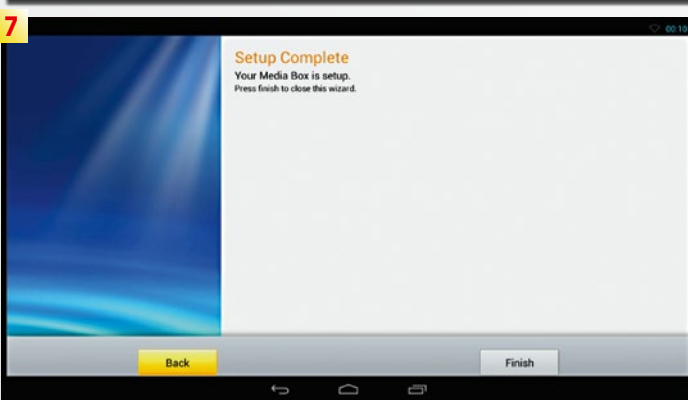
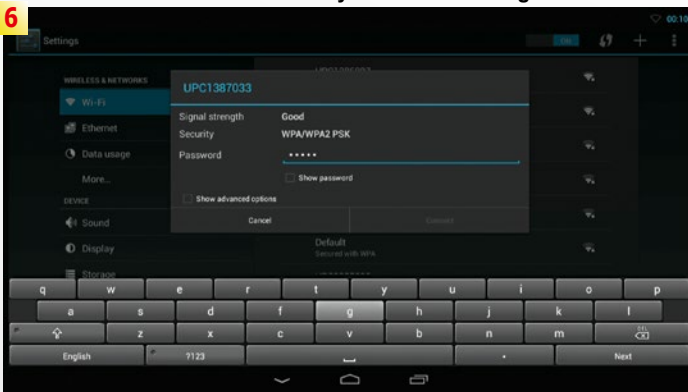
4: Network settings.

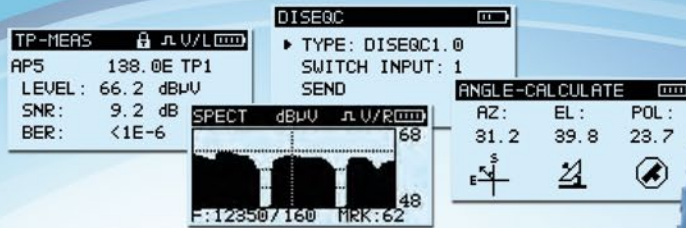
5: Scanning for available WiFi signals.

6: The WPA and WPA2 encryption protocols are supported.

7: Once basic installation is completed, the Panodic OTT Android TV Box is ready to use.

8: A total of three launchers are yours for choosing.





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AmIMbox Launcher

9:AmIMboxlauncher

10: Media files are accessed via the network or from locally connected storage media.

11: Picture, video or music: You choose what you want to hear or see and the box deals with all the rest – flawlessly!

12: Thanks to the Android operating system a variety of compatible apps can be chosen for media playback.

13: DivX playback.

14: Any Android-compatible app can be selected as picture viewer.

15: Picture viewer.

16: Web browser.

17: Having a pleasant read of the latest issue of TELE-audiovision right on your TV? Consider it done, with the help of the Panodic OTT Android TV Box.

18: Information on used and available storage capacity.

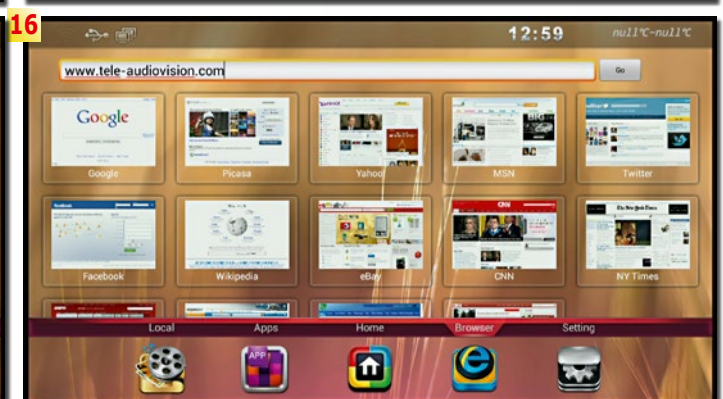
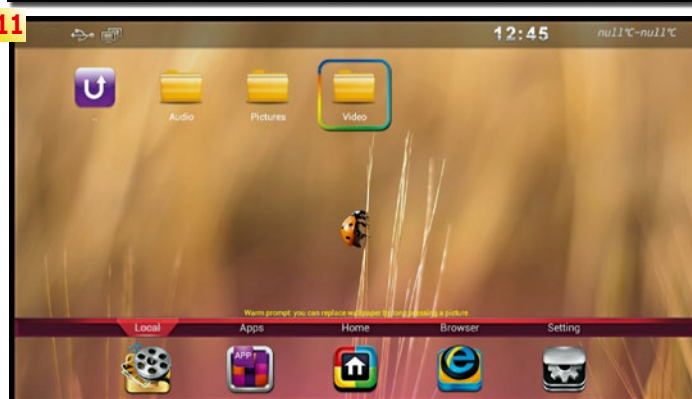
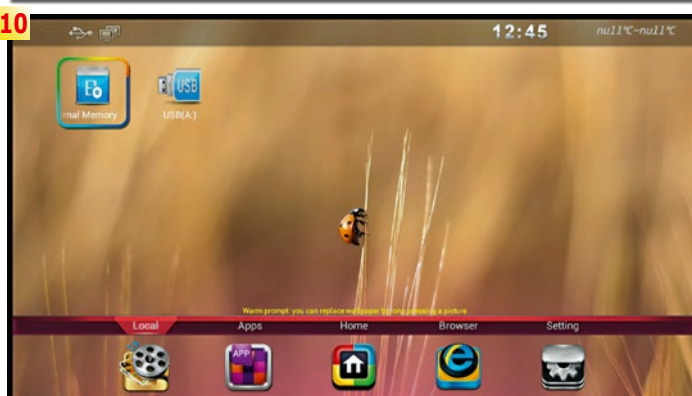
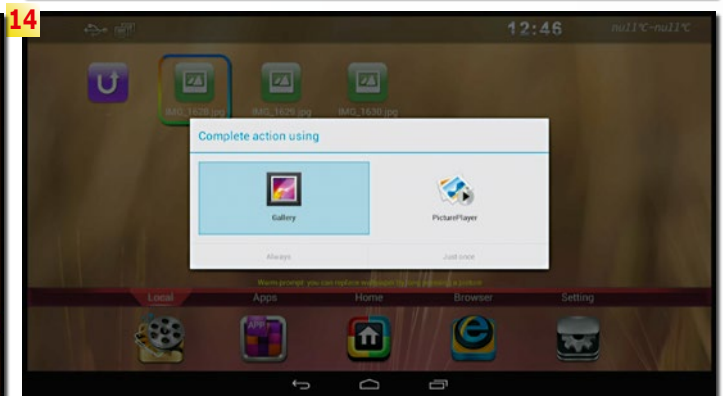
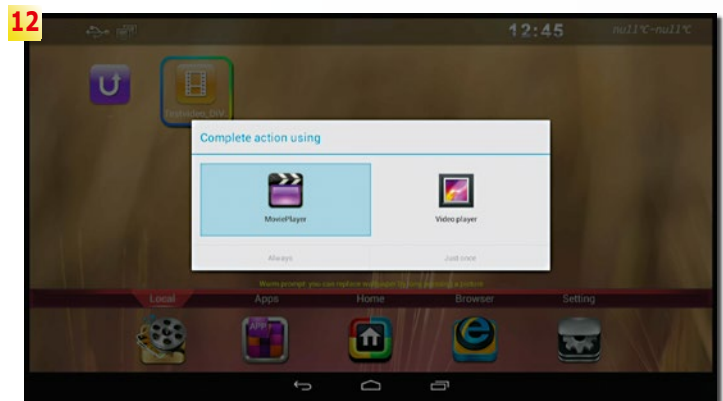
19: Apart from the OSD keyboard and the remote control, the Panodic OTT Android TV Box will also happily cooperate with an external keyboard and mouse.

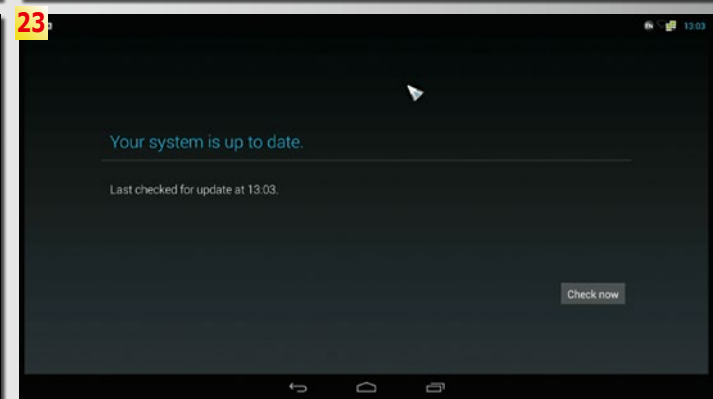
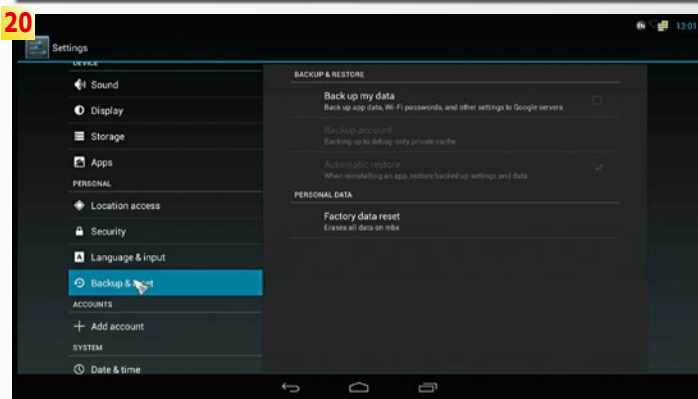
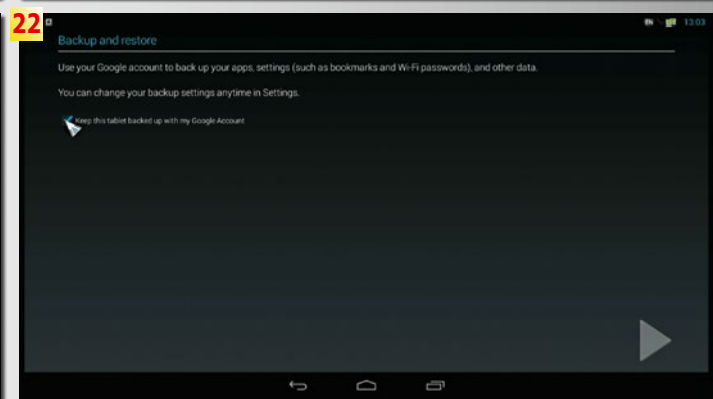
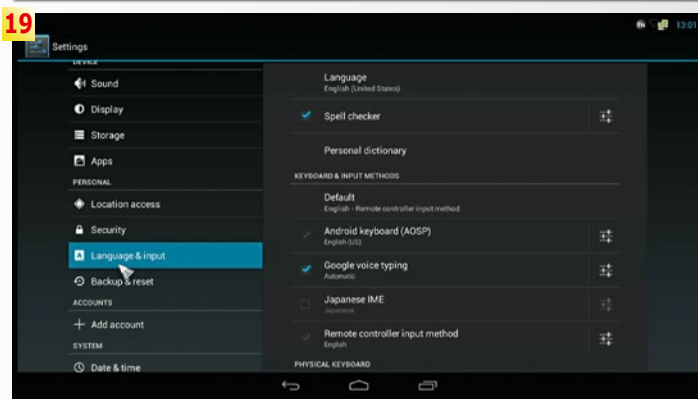
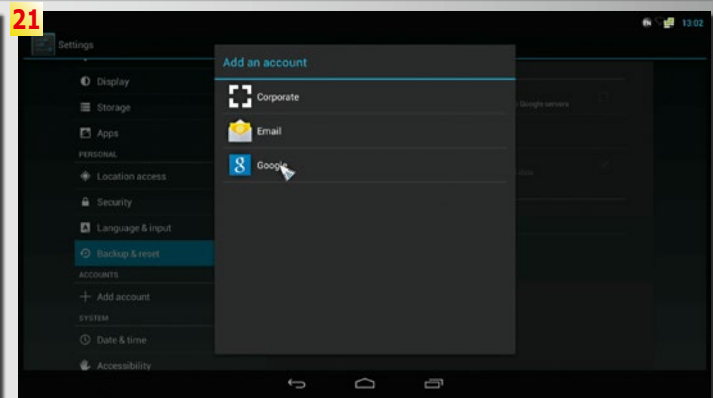
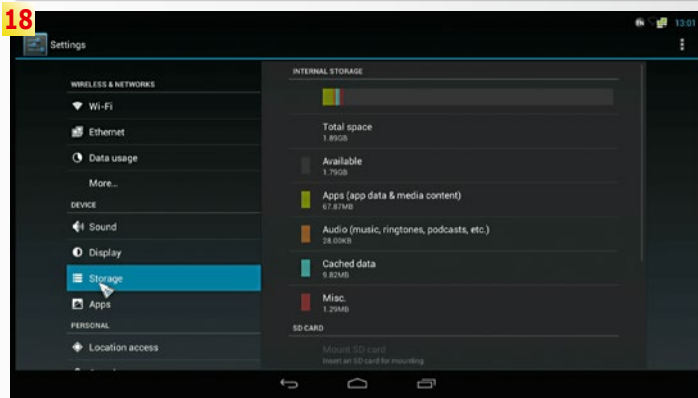
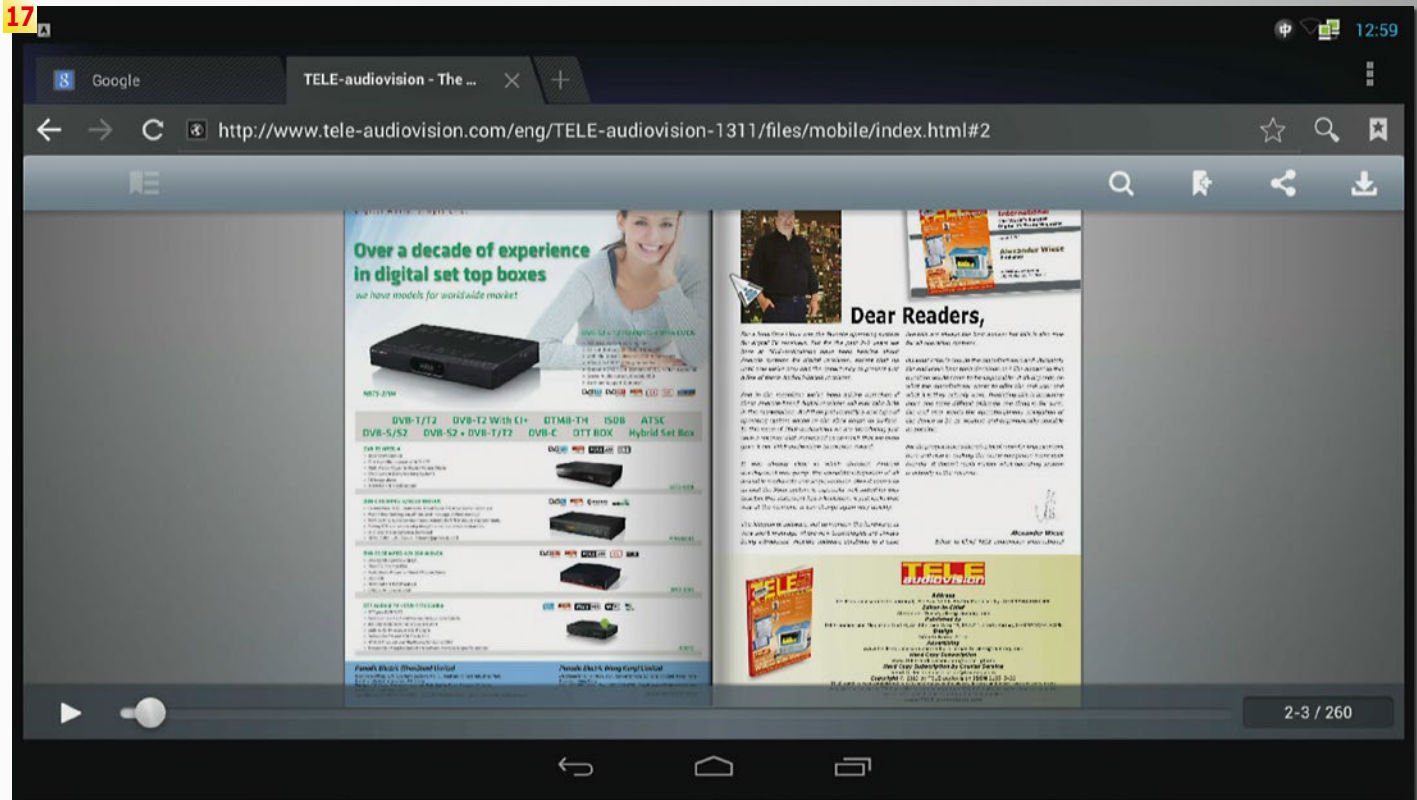
20: All device settings can be stored on Google servers via the Internet. This way you can re-set those precise parameters at any time, if required.

21: If you already have a Google account you can add it to this box.

22: This way all settings, bookmarks, calendars, e-mails etc. can be synced with the Panodic OTT Android TV Box.

23: Software updates are available via the Internet.





called MainScreenTheme. Let's briefly discuss all three of them:

The original Android Launcher is the default tool that also comes with all Google-branded devices, i.e. Nexus smartphones and tablets. While it allows positioning favourite apps and widgets on several different screens, it generally has a minimalist and somewhat basic look and feel.

By contrast, the AmlMbox-launcher divides the screen into three distinct sections. On the left side there is enough space for moving your favourite apps, while the right section consists of date, time and the weather forecast for the current location. During our test, however, we could not get it to work and no matter what we tried, there was no weather forecast presented to us. In

the lower screen section users are offered five links covering local media files, apps, web browser, system settings, and the home screen.

The MainScreenTheme launcher boasts the most sophisticated graphic design and looks like a virtual desktop with apps, photos, audio, video, web browser and system settings within easy reach.

It's great to know that all three launchers can either be used simultaneously, or the preferred variant can be set as default launcher. Next, it's time to start all required apps, which come either pre-installed, or are available for download from the Google Play store.

Whether it's e-mail client, calendar, contact tool, web browser, media player, picture viewer, maps, YouTube or Vimeo – with the

Panodic OTT Android TV Box the wide world of the Google Play store is at your fingertips, just like with an Android smartphone. Thanks to the Google Chrome browser we could explore the world wide web, access our e-mails, call up important events on the calendar or write a note using Evernote. If you are logged into your Google account and also use Google Chrome as default web browser on your PC all bookmarks, visited pages and other information is synced between all devices. Books, magazines and newspapers can also be downloaded right to the Panodic box using Google Books for reading on the TV panel. Apart from all those very handy tools and features,

however, the Panodic OTT Android TV Box has a clear focus on multimedia. We threw all sorts of media files at the box (such as MPEG, MP3, MP4, H.264, DivX, WMV, WMA, WebM, AVI, FLV, OGG, AAC and APE) and – lo and behold – all of them could be played back flawlessly. What's more, smooth 1080p video playback is possible thanks to the ARM Dual Core Cortex A9 1.5 GHz processor and its enormous processing power. As far as built-in memory is concerned, the Panodic box comes with 1GB DDRIII SDRAM and 4GB NAND flash memory, which should be more than enough for virtually all tasks.

The Panodic OTT Android TV Box also presents BMP

Android Launcher

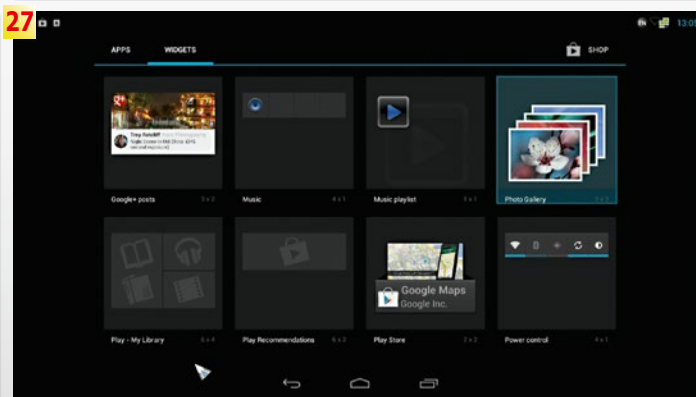
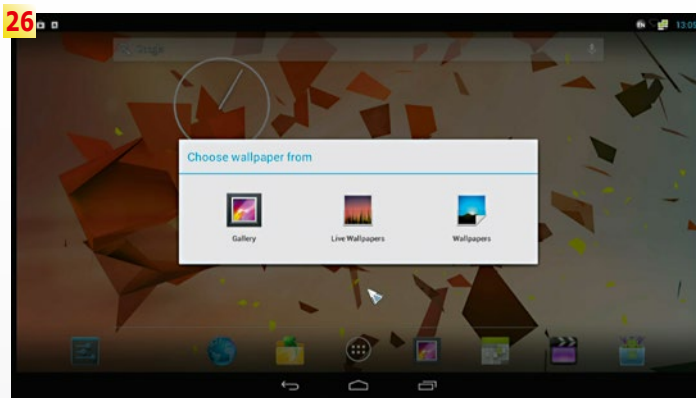
24. As an alternative, the original Android Launcher that comes with all Google devices (Nexus smartphones and tablets) is available as well.

25. Position your favourite apps right on the home screen.

26. Change the wallpaper according to your personal taste.

27. Similar to smartphones, it is possible to freely position widgets on the home screen.

28. Picture widget right on the home screen.



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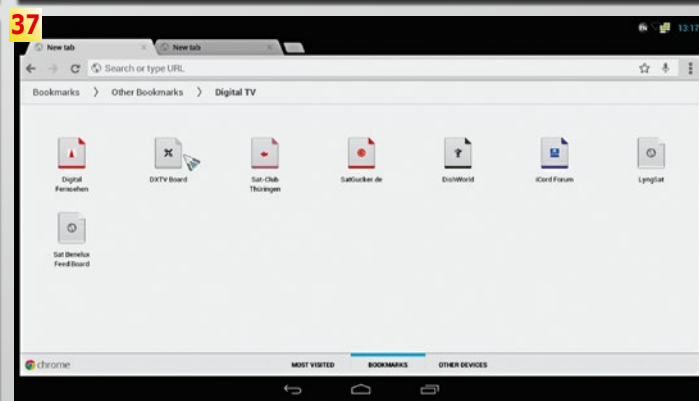
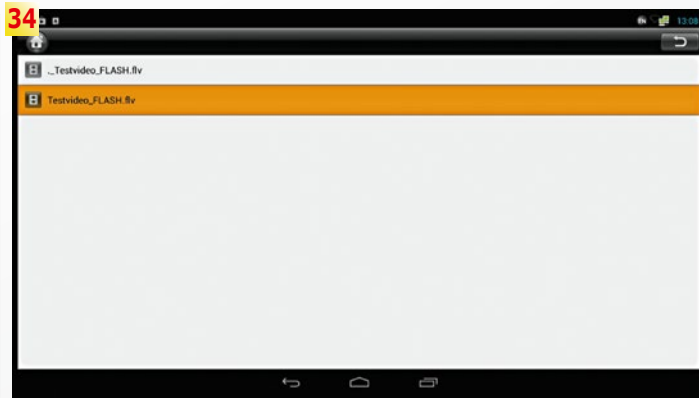
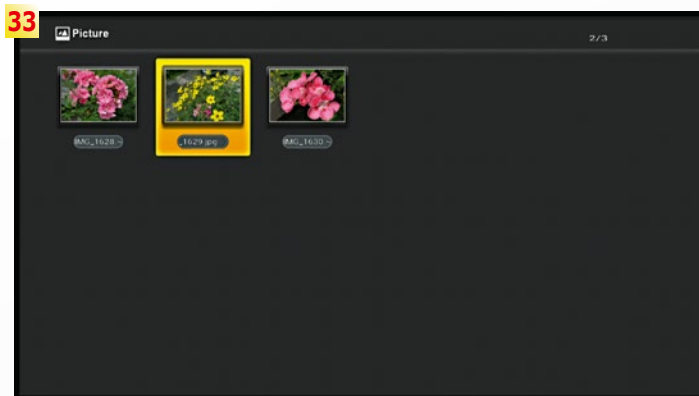
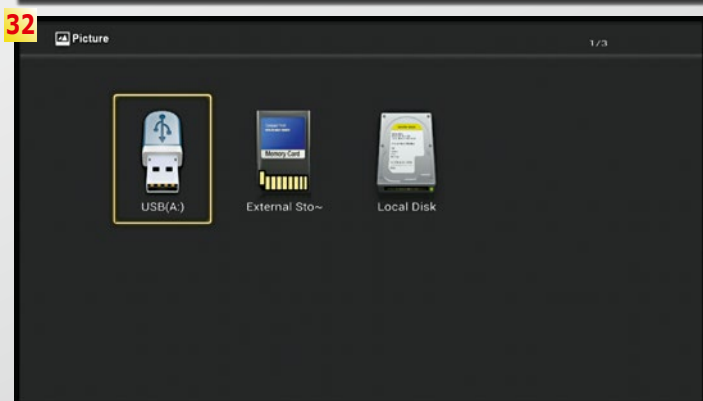
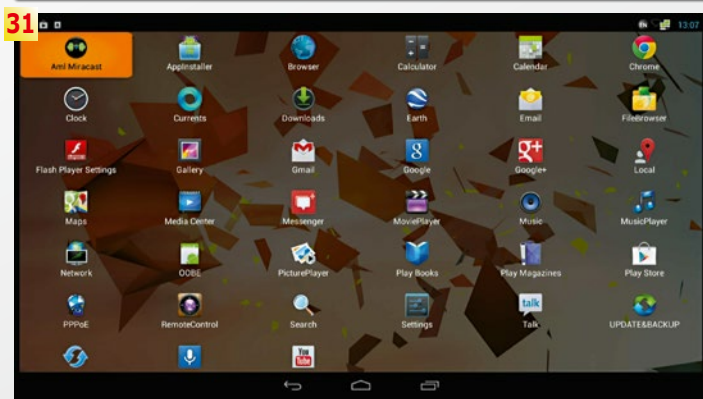
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Mainscreen Launcher

- 29. MainscreenTheme Launcher.
- 30. Quick access to all available videos.
- 31. Overview of all currently installed apps on the Panodic OTT Android TV Box.
- 32. The picture viewer presents

photos from all local storage media.

- 33. Picture viewer.
- 34. File browser.
- 35. Flash video playback.
- 36. Web browser
- 37. Bookmarks saved on the PC are synced automatically with the Panodic OTT Android TV Box.



Home Encoder Modulator Series



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NDS3558 HD/SD Encoder Modulator with USB and Web NMS management

New



Enhanced USB Function:

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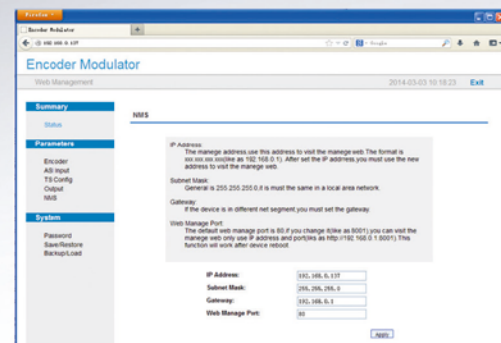
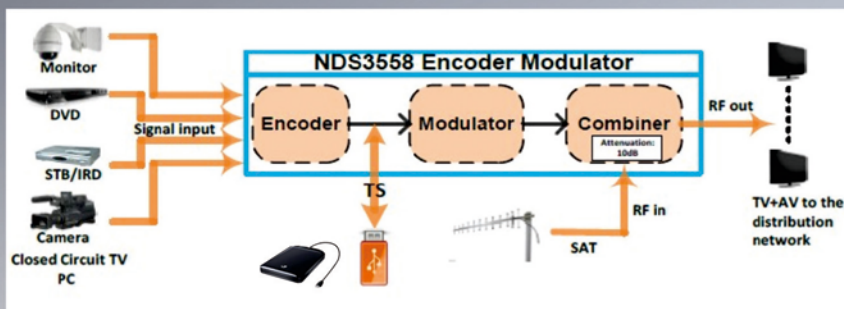
Stability: The USB key/Hard Disk can run timelessly to play your ts files and run more stably.

New

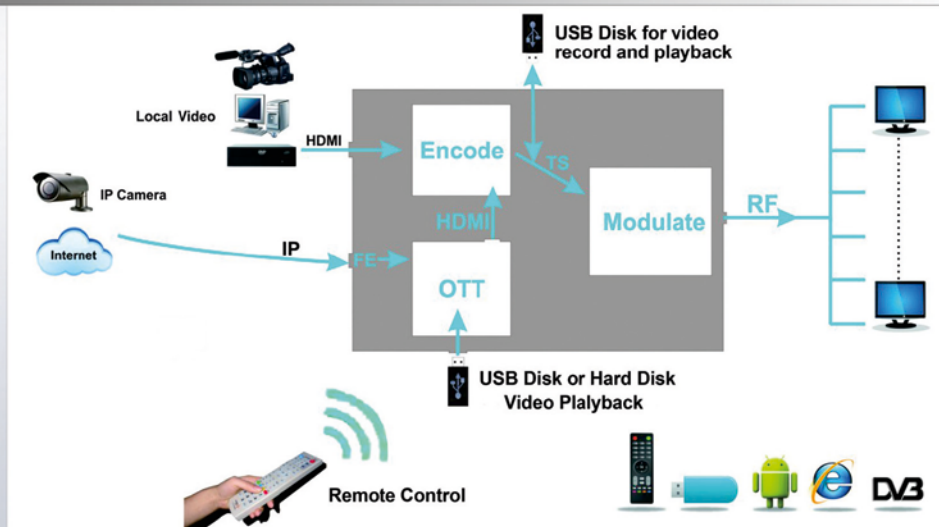


Web-server Management:

In addition to control the device with LCD and navigation buttons on the front panel, the device can be also easily managed through a friendly User Interface after connected to a PC.



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<http://www.dsdvb.com/english> ■ E-mail: sunyu@dsdvb.com

38. Google Earth

39. Google Maps

40. The entire content of the Google Play store is available with the Panodic OTT Android TV Box

41. YouTube

42. YouTube search

43. The Media Center can be used to share all local multimedia content via UPnP. Thanks to the integrated UPnP client it is also possible to access media files on other devices using the local

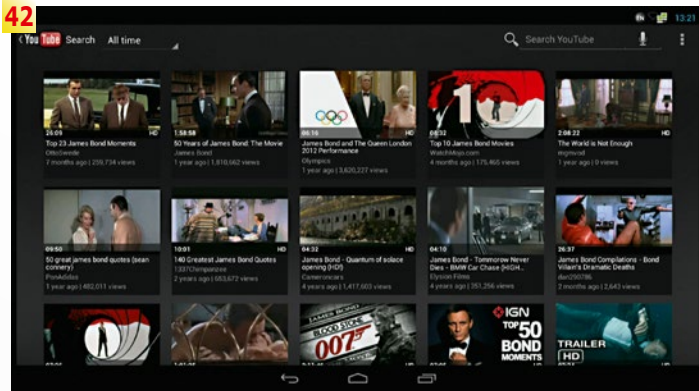
network.

44. All three UPnP-enabled devices in our editorial network were detected and correctly identified by the Panodic OTT Android TV Box.

45. Access to our local library of James Bond movies, which is made available throughout the network using UPnP.

46. Multimedia content from storage media that are physically attached to the Panodic OTT Android TV Box can be shared via the network with the UPnP server function.

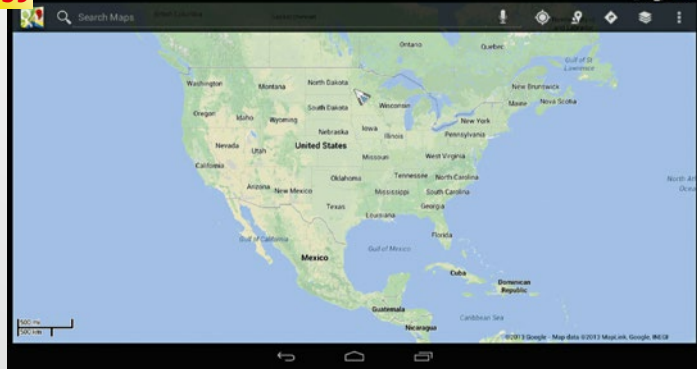
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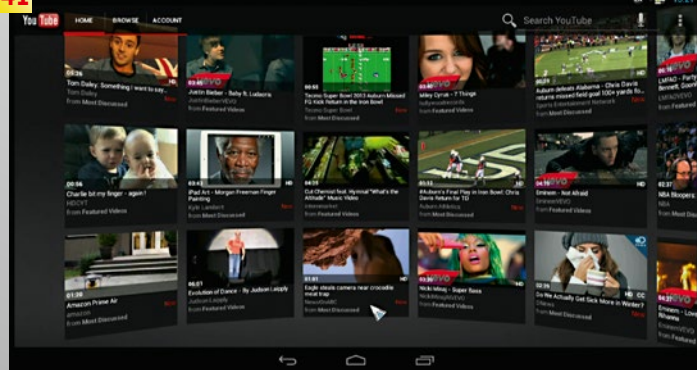
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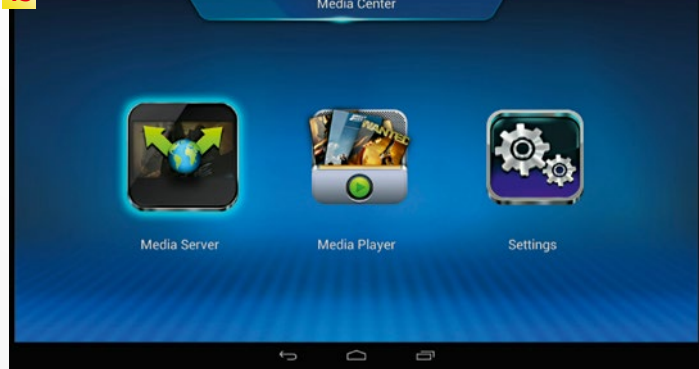
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41



43



44



45



46



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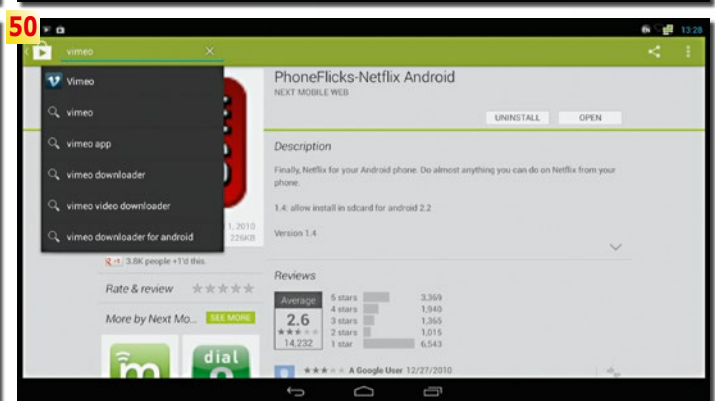
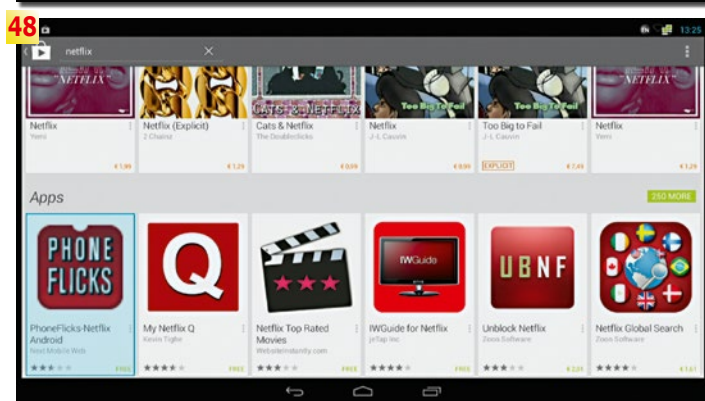
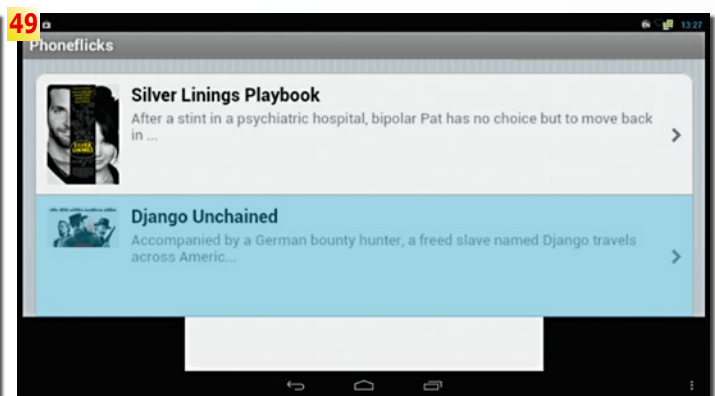
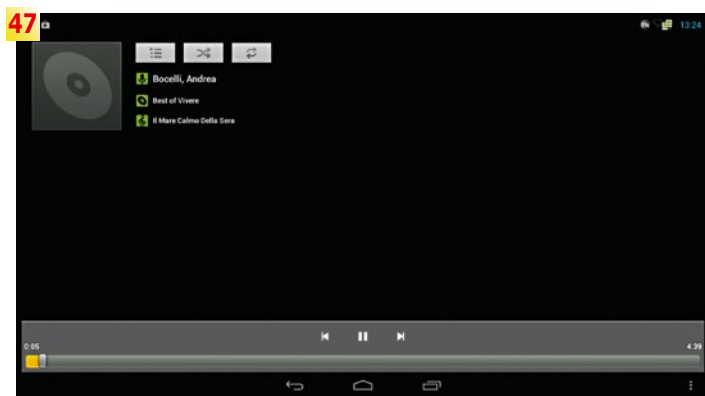




and JPEG images flawlessly, and thanks to its two USB ports and the micro SD slot you're spoiled for choice when it comes to attaching external hard disks, USB memory sticks or memory cards. Music, video and pictures saved in the network can be accessed due to UPnP compatibility. When we tried out how well this feature really works we found that the box quickly identified a network hard disk, a Mac with installed UPnP server as well as another digital receiver. It only takes a few clicks on the remote control for the OTT Android TV to access and play back all available content. We did appreciate the fact that

the box does not only come with a pre-installed UPnP client but also a UPnP server. This means that multimedia files available to the Panodic box from external storage media are made available to other devices in the network as well. In case you're a subscriber to streaming TV services such as Netflix or Hulu you might be happy to know that the box is perfectly equipped for handling those streams. While the required apps are not installed by default they can easily be downloaded from the Google Play store. The same is true for the Vimeo video platform.

Since the Panodic OTT Android TV Box is fully based



on the Android operating system it can be customised in many ways to reflect individual user preferences. As a matter of fact, the menu structure is absolutely identical to the user interface you may know from Android smartphones or tablet PCs. This way it is child's play to activate a peripheral USB keyboard or mouse, which doubles the fun you can have with this Panodic box, especially for surfing the web or writing e-mails. We were delighted to discover that the box would even detect and support our wireless mouse/keyboard system from Logitech. Simply plug the keyboard/mouse receiver into an available USB port and you're ready to rock.

Internet, television, multimedia – what used to be a contradiction in terms not too long ago has evolved into smooth triple play, as demonstrated by Panodic's OTT Android TV Box IV3118 in an impressive way. The state-

of-the-art Android operating system contributes greatly to a wonderful user experience, while the hardware components provide enough power even for 1080p video playback. When we put the box to the acid test over a period of several days the box did not freeze or require rebooting even once – it just worked as intended, no matter how hard we tried to throw it a curve. There can hardly be a better testament to this product's winning combination of high-quality hardware and top-notch software.

Even though our editorial team always adheres to the 'never touch a running system' mantra we should mention at this final stage that the Panodic box can be updated right via the Internet, so that you can keep the OTT Android TV Box IV3118 up to date whenever a new software version is released. A single touch of a button on the remote control is all that is required from you!

47. Audio playback via UPnP.

48. If a required app for a specific service (such as Netflix in this particular case) is not installed, it can be downloaded from the Google Play store without further ado.

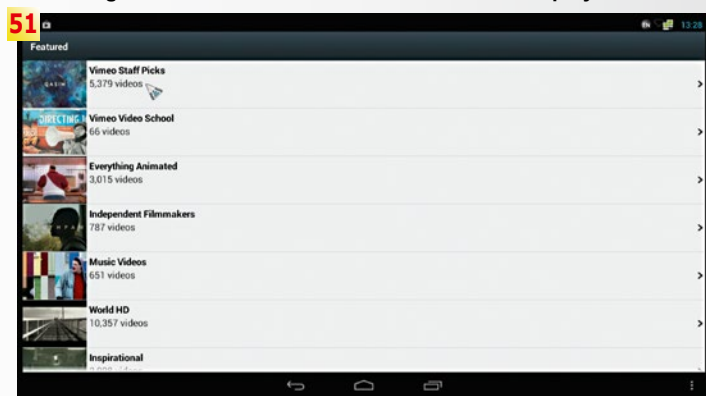
49. Using Netflix with the

Panodic OTT Android TV Box.

50. And in case you prefer Vimeo, you'll find the right app for that in the Google Play store as well.

51. Vimeo

52. Vimeo video playback



EXPERT OPINION

OTT Android TV Box IV3118 RECOMMENDED
Web TV Multimedia-Box PRODUCT BY ▼



TELE-audiovision
THE WORLD'S LARGEST DIGITAL TV TRADE MAGAZINE



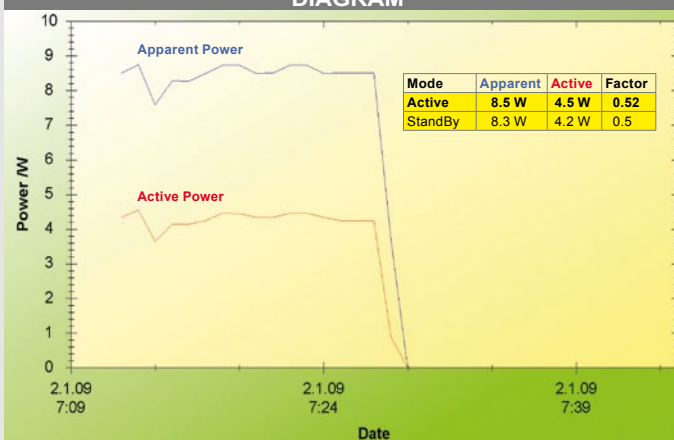
Thomas Haring
Test Center
Austria

VIP
CARD

TELE
audiovision
www.TELE-audiovision.com

- +**
 - compact size
 - good build quality
 - low energy consumption
 - hardware perfectly matched to Android 4.2.2 and with sufficient processing power and memory
 - playback of all current multimedia files and UPnP compatibility for accessing storage media in the local network
 - external keyboard and mouse (cable or wireless) can be attached to the box
- - None

ENERGY DIAGRAM

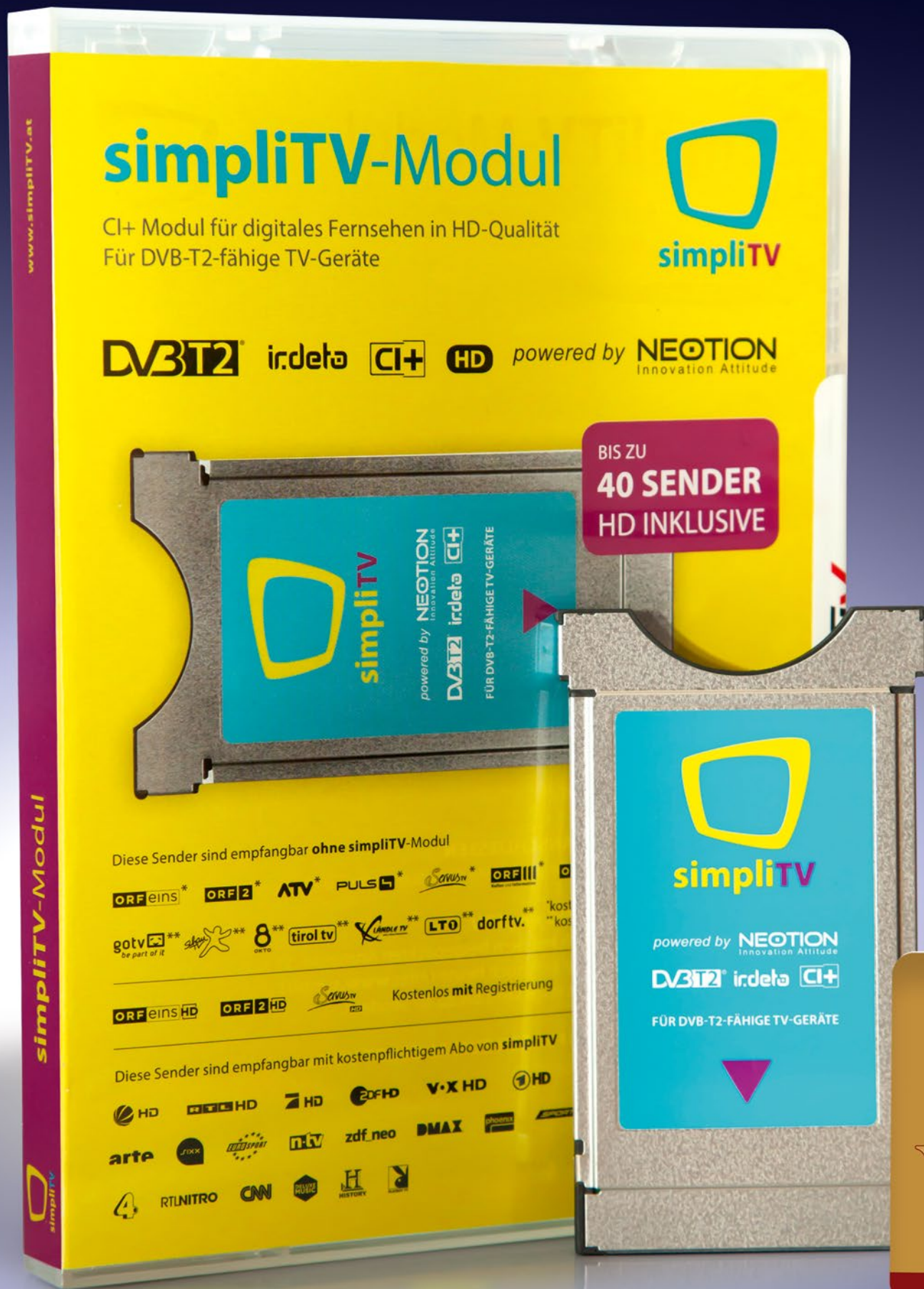


Fifteen minutes of active use, followed by 15 minutes in standby mode.

MORE ABOUT THIS COMPANY

www.TELE-audiovision.com/12/03/panodic





Neotion Module

- *very fast response times*
- *automatic firmware updates*
- *capable of processing very weak signals, such as those from indoor antennas*
- *fully compatible with all CI+ functions*



Neotion for reception of simpliTV

Thomas Haring



simpliTV is the name of an Austrian provider of terrestrial HDTV channels. Ever since the analog switch-off date in Austria, ORF1, ORF2, ATV, Puls4, Servus TV, ORF3, ORF Sport+ and 3sat have been available nationally via DVB-T. In some regions, ATV2, gotv, SchauTV, Okto, Tirol TV, Ländle TV, LT, dorftv and other regional stations can be received in addition to that national offering. With DVB-T being the established digital terrestrial transmission standard in Austria, all those channels can only be viewed in standard definition.

In order to introduce terrestrial HDTV in Austria, the simpliTV platform was launched. It is a fully-owned subsidiary of ORS, the technical service provider for the country's public broadcasting corporation ORF. Using DVB-T2, simpliTV broadcasts terrestrial HDTV all across Austria. Organised as a pay TV operation, however, this means that even generally free-to-air channels such as ORF1 HD, ORF2 HD and Servus TV HD are only available with permanent encryption in place.

If you're interested in simpliTV, you may opt for either of the two following solutions: One is the so-called simpliTV box, which is basically a DVB-T2 receiver with built-in CI+ decryption software. Alternatively, you can go for a simpliTV CI+ module that you can use with your existing DVB-T2 receiver or a CI+ enabled TV panel. Simply insert the module into your device's CI+ slot and you're all set to enjoy terrestrial HDTV right away.

Let's take a closer look at CI+ at this stage. It is the successor to the well-known

CI standard and adds additional control and content management features to its basic decryption function.

For instance, content providers can have a say as to whether users are allowed to use the fast forward or rewind features during playback of recorded content.

In addition, the CI+ standard calls for encrypted content storage on external storage media, which means you cannot simply record a film and then burn it into a DVD or Blu-Ray disc. What's more, content providers are free to tag their broadcasts with an expiration date, so that – for example – recorded content is only available for playback for a period of 90 minutes after the initial broadcast. Once that time has expired the recording becomes nothing more than wasted hard disk capacity.

As far as simpliTV is concerned, many of those technically possible restrictions

are not implemented. The only thing you should know is that recordings are saved with full encryption in place. Other than that, no CI+ content management features are enforced. Whether or not the situation will remain unchanged in future largely depends on the actual TV stations and content providers, rather than simpliTV as a mere distribution platform.

We use the Neotion CI+ module for receiving simpliTV. This module is addressed directly and without a smartcard – every time it is slotted into a receiver the Neotion modules verifies that the receiver is in actual fact CI+ compatible, and as soon as the terrestrial signal comes in the module looks for firmware updates. In our case the Neotion identified a firmware update that was available over the air and installed it right away on our test module in a matter of a few minutes.

During our test all available signals were decrypted flawlessly and without interference of any sort. Channel switching was not slower with encrypted DVB-T2 channels than with other existing FTA DVB-T channels.

We performed a number of reception trials at our test location in Vienna. Our large rooftop UHF antenna obviously yielded splendid results for the simpliTV UHF channels 36, 53 and 60. But then again, even a small indoor antenna with active signal amplification delivered a reasonable signal for reliable reception. This involved some hunting for the optimum indoor position of the antenna, however. The final spot more or less reflected the building's or room's reception properties rather than purely aesthetic considerations, so as always it's a case of 'win some, lose some'.

We did not find any fault with the video and audio



NEOTION
Innovation Attitude



S1-50HD

Dual Core Android 4.0 OS OTT Box with DVB-S2 & 3D GPU

- Operation System: Android version 4.0.4
- XBMC Supported
- ARM Cortex-A9 Application processor with NEON SIMD
Multimedia extension: 5000DMIPS Dual core 1GHz
- Advanced NEON includes the ARM NEON SIMD extensions
- 3D GPU supports 3D user interfaces & games
Broad Format HD Content Decoding: online video on demand (VOD) and over-the-top (OTT) services, including native support for VP8 codec
- Supports Mouse and Keyboard
- 3G USB DONGLE supported
- Support Android Browser Apps/boot animation/Screen Shot/File browser/ Live Wallpaper
- Support Google Search, Web browser, Email, ect

DVB-S2 Twin Tuner Box with Enigma2 & XBMC OS

- E2 BMC-XBMC and Enigma2 dual-boot
- DVB-S/DVB-S2 Satellite Compliant based on Enigma2
- Twin Sensitive Tuner Supported
- Enhanced media features and functionality from XBMC
- Abundant media plug-ins for users: XBMC-movies, pictures, radio channels, plenty of library portals available
- Support Webserver, Airplay, NAS, Samba and Cifs connection
- Remote control app available for working on Smartphones and tablets
- Media content share by BubbleUpnp with Smartphone and tablet
- Real Picture in Picture Supported



Digital T2/S2/C Combo Meter

- DVB-S2, DVB-T2/T and DVB-C signal meter in one
- High performance spectrum analyzer to display the signal strength of all transponders
- Pre-/ Post-BER and MER indicator, C/N in the dB and signal level in dB/μV
- Constellation analyzer
- Screenshot Function (Capturing): screens with data can be in BMP format on a USB-stick
- Super ECO system management for power saving, auto-standby function supported
- Multi-lingual OSD menu supported
- Weight: 480 grams
- Dimensions: (W*H*D) 105*170*45 mm

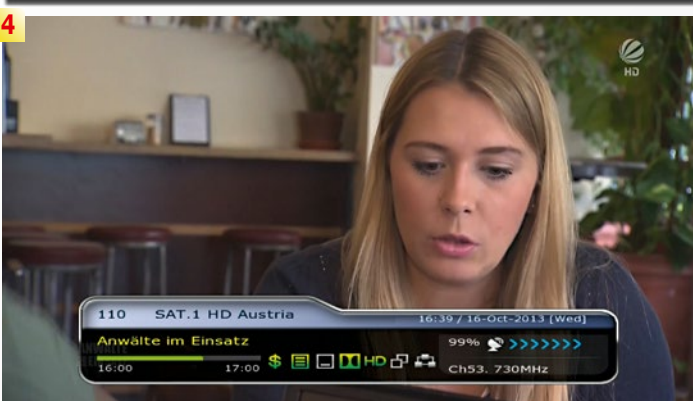
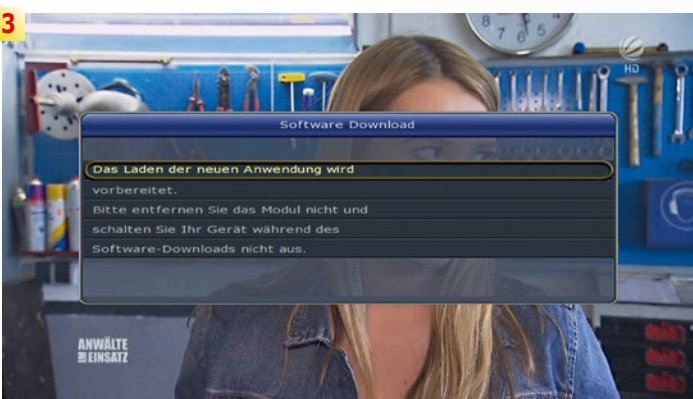
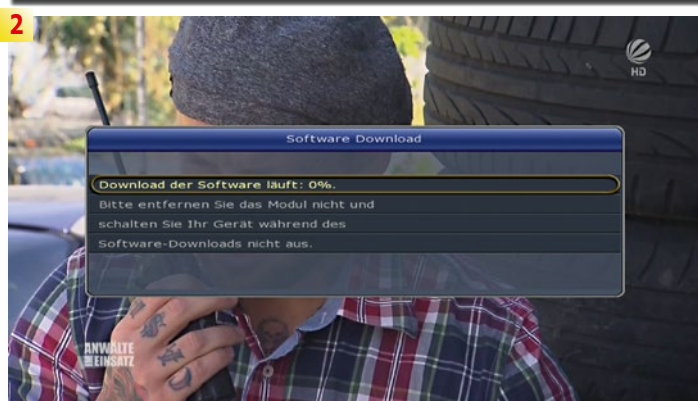


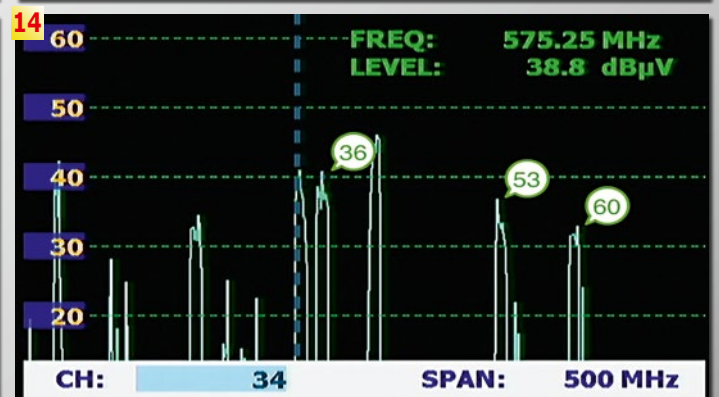
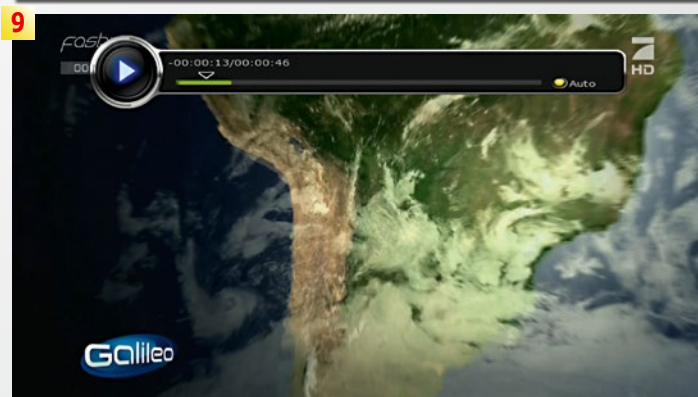
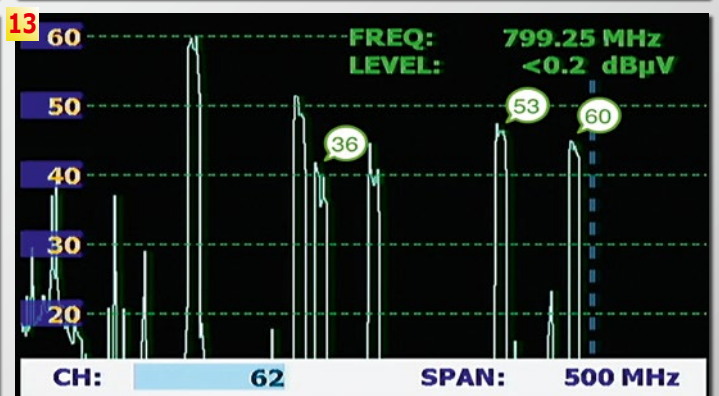
quality delivered by simpliTV, even though we should mention that simpliTV distributes the signal from individual TV stations "as is", which means there may be considerable variations from one channel to the next, or even between different broadcasts on the same channel. Commercial channels, in particular, apparently prefer the use of upscalers to native HD production technology.

During our test, the Neo-

tion module did an excellent job in combination with simpliTV. We did not experience any signal dropouts and the receiver's response times were impressively fast – just as with standard FTA channels. The automatic firmware update feature is a smart solution as it takes a frequently cumbersome burden off your shoulder. The Neotion module is kept up to date and all you have to do is enjoy terrestrial HDTV.

1. The Neotion module has detected a new firmware version for download.
2. The internal firmware of the Neotion module can be updated automatically over the air.
3. It does not take more than a couple of minutes for the update to be completed.
4. Sat.1 HD Austria, received with the Neotion module using the CI+ standard.
5. simpliTV channel list.
6. ProSieben HD Austria
7. ZDF HD
8. Even though simpliTV uses CI+ encryption, it is possible to fast forward or rewind when playing back existing recordings.
9. simpliTV even allows time-shift viewing with CI+.
10. Only CI+ enabled receivers will be able to properly identify the module and activate the decryption process.
11. Technical specifications of the inserted module.
12. The simpliTV module works without a smartcard and is addressed directly through the DVB-T2 broadcasting frequencies.
13. The terrestrial reception range offered by our rooftop UHF antenna. The highlighted channels 36, 53 and 60 carry the DVB-T2 HD channels of the simpliTV package.
14. The terrestrial reception range offered by our small indoor antenna. Even though the signal levels are rather poor, the Neotion module is still capable of decrypting simpliTV channels.

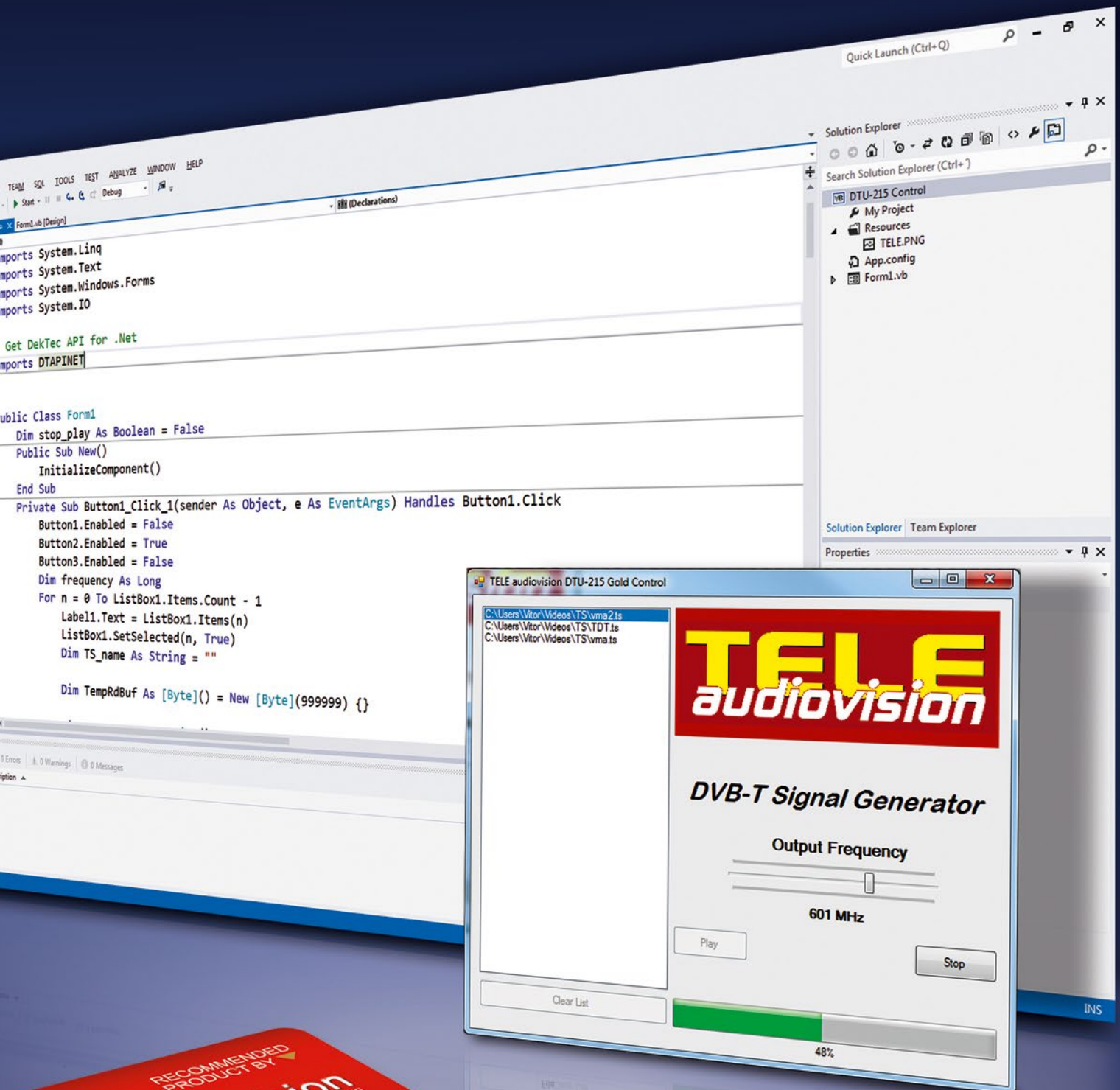




Using DekTec APIs for Programming

- *easy programming with Visual C#*
- *conversion into VB.net possible*
- *simple pre-programming of user-specific test routines such as playback of specific transport streams*
- *perfectly suited to HF developers*
- *top-notch solution for a number of task – e.g. preparing UHDTV signals for testing new receivers*





How to set up tailor-made test environments – all by yourself

Vitor Martins Augusto

TELE-audiovision readers have come to know and appreciate DekTec as a specialist for digital signal measurement. The range of products on offer includes PCI, PCI Express and USB-based receivers for existing digital TV signals worldwide, as well as corresponding modulators to create all those signal types from scratch. Added to that are software applications for Windows which can be used to analyse, modulate, demodulate and even multiplex signals – without requiring an IT degree from their users. What's more: Any combination of DekTec hardware and software can be chosen, since they are all designed to work with each other no matter how you match them.

While this alone is a unique proposition, DekTec goes the extra mile and offers a dedicated application programming interface (API) for almost all of its hardware components. Using those APIs, software developers can easily compile specific applications in a very short time. Need an example? Perhaps you're looking for multiplexing a DVB-S2 satellite signal with a ter-



TEST REPORT | Digital TV Modulator

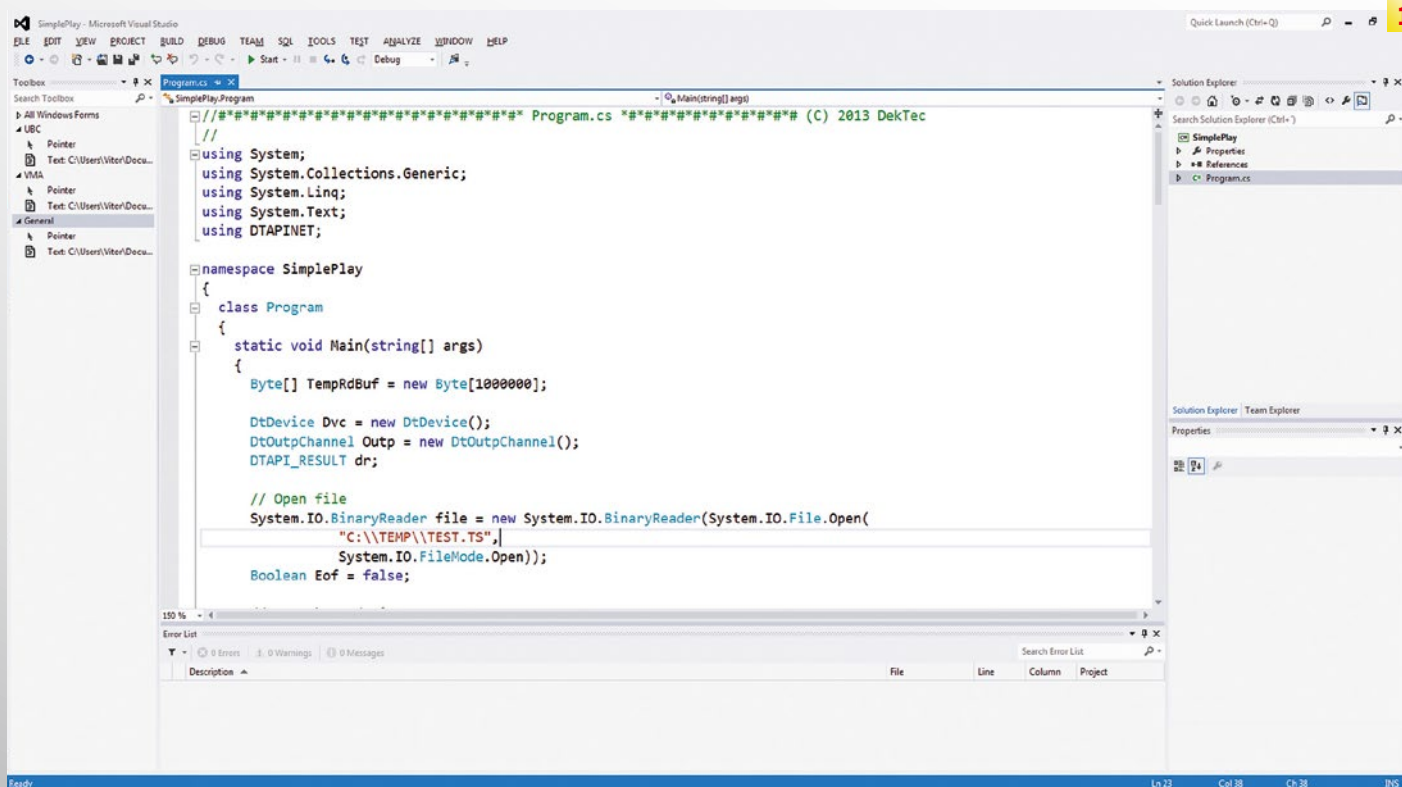
DekTec

DTU-215 Gold Edition

- Professional modulator for nearly every digital modulation standard
- Ideal for use as a test signal modulator, for example, for receiver manufacturers
- Capable of modulating transponder streams as well as test signals
- Fully compatible with all HD standards
- Plug&Play for Windows PC

We introduced the DekTec Modulator DTU-215 in TELE-audiovision 12-01/2012:
www.TELE-audiovision.com/TELE-satellite-1201/eng/dektec.pdf

1. The original sample source code by DekTec written in C#. All the magic happens with the line "using DTAPINET;". This gives access to the functionality of all DekTec products.



SATLINK

Digital Satellite Meter

WS-6936

DVB-T&S COMBO METER WITH SPECTRUM



DVB-S Spectrum:

In satellite signal C band and KU band range ,
show the energy distribution of the received signal,
show Cursor location and signal strength downlink frequency,
Signal was locked.

Show spectrum bandwidth: 1200MHz; 540 MHz; 108 MHz

DVB-T Spectrum:

In the 104MHz-862MHz frequency range or stored state table,
Shows the energy distribution of the received signal (Frequency,
bandwidth, signal strength) Signal was locked, can be displayed
Ber, S / N and other indicators.

So don't wait, Call us for a sample!

For the first time in an Economical digital meter, you are now able to view the actual channel on the screen of the meter. Now you can quickly and accurately align the satellite and you can instantly check the stable of the channel right on the screen of the meter. Transponders, Frequency, Symbol Rate, Polarity, and other settings can be modified by the user.



WS-6909
DVB-T&S COMBO METER



WS-6918P
DVB-S2 Satellite Finder Meter



WS-6932
HD Satellite Finder Meter

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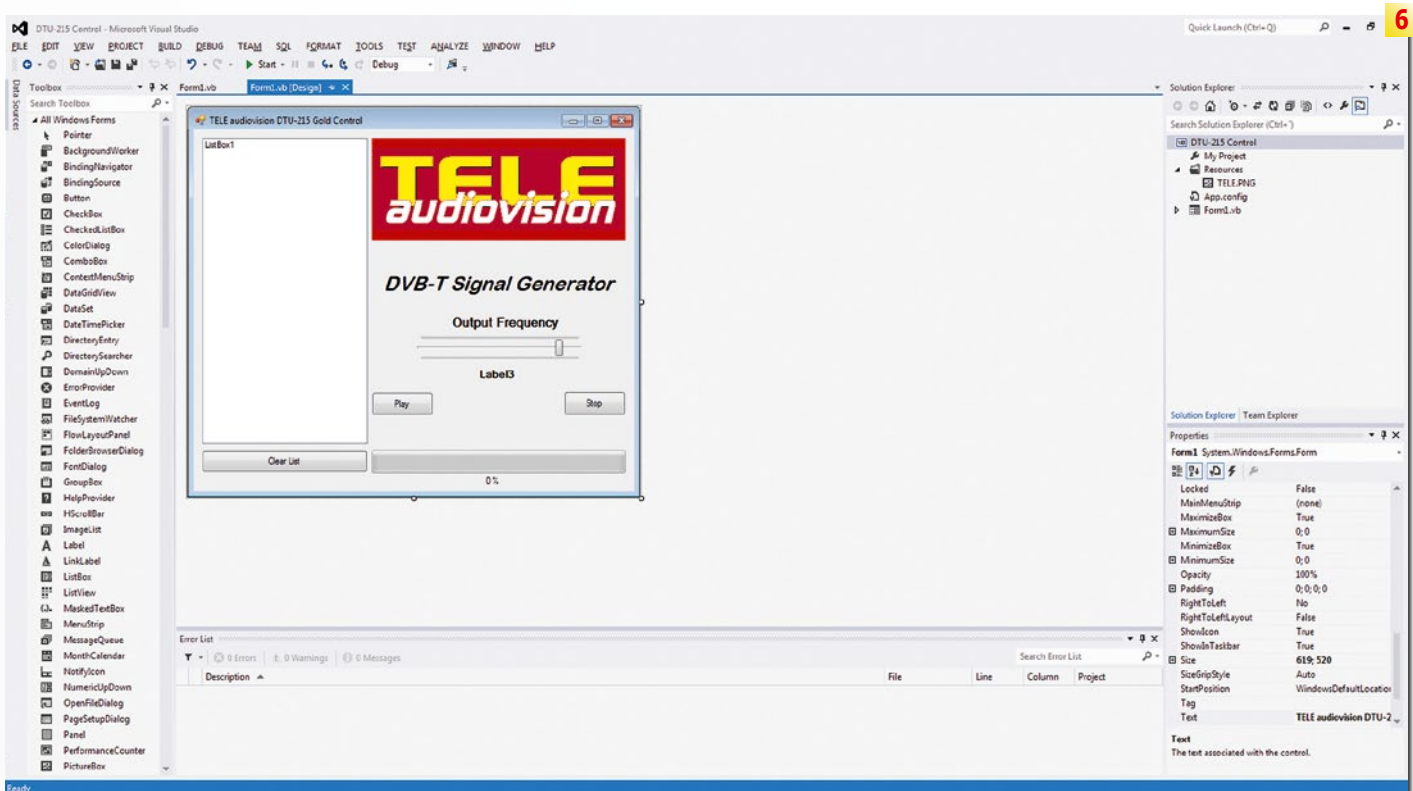
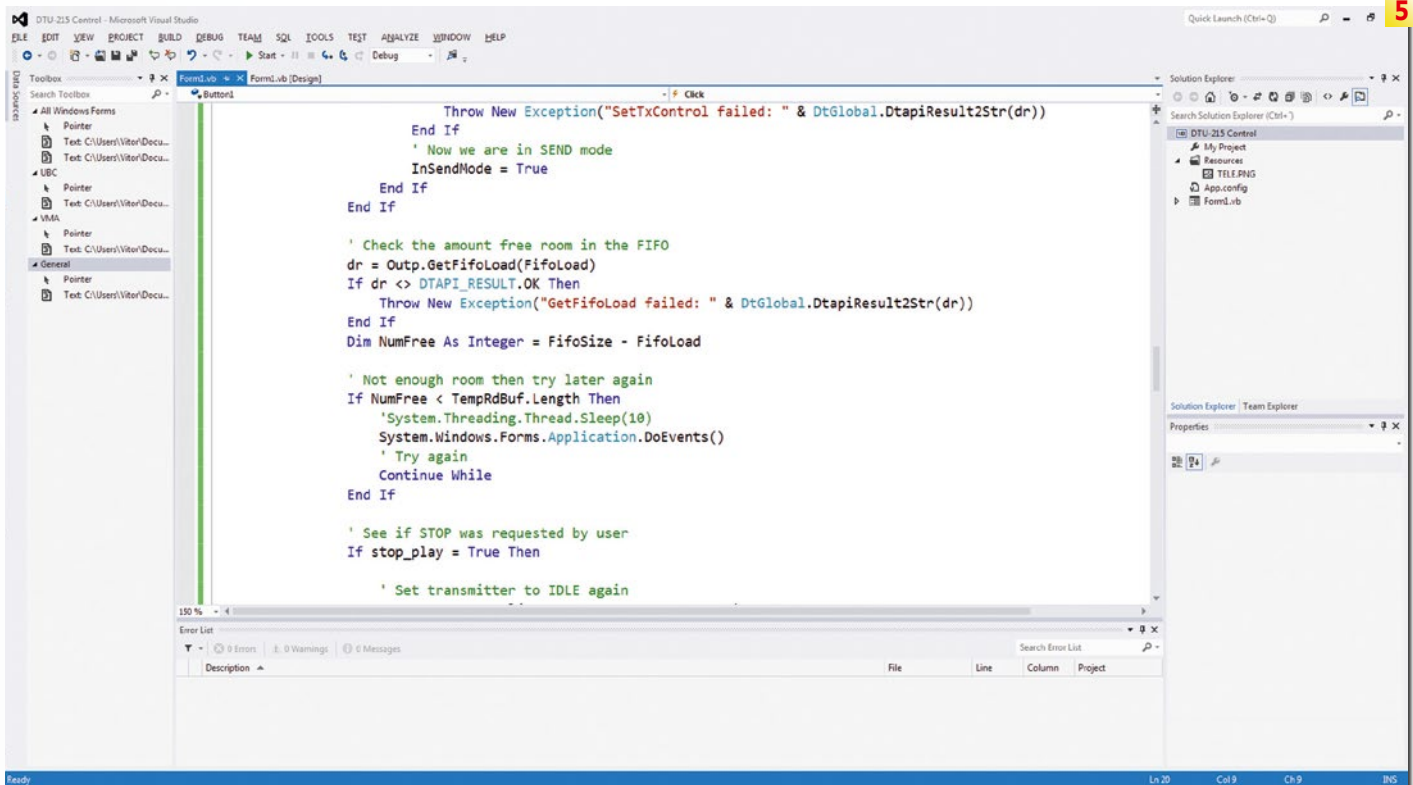
E-mail: dp02@baotong.cc

Website: <http://www.sat-link.com.cn> www.hktdc.com/em/fjbaotong



6. Using the Form Design Editor, I designed the form for my "TELE audiovision DTU-215 Gold Control" application. It is much simpler to use than the original DekTec StreamXpress application. It will only modulate DVB-T signals, but perhaps I will continue development to provide further modulations.





restrial DVB-T2 signal into a specific frequency to be carried on the coax cable from a CATV head-end. Not such a big deal anymore, and you can even throw in hourly log reports detailing all relevant parameters sent to the technician in charge by e-mail. Sounds almost too good to be true, we here you asking? Well, we tried to find out if it's really possible to pro-

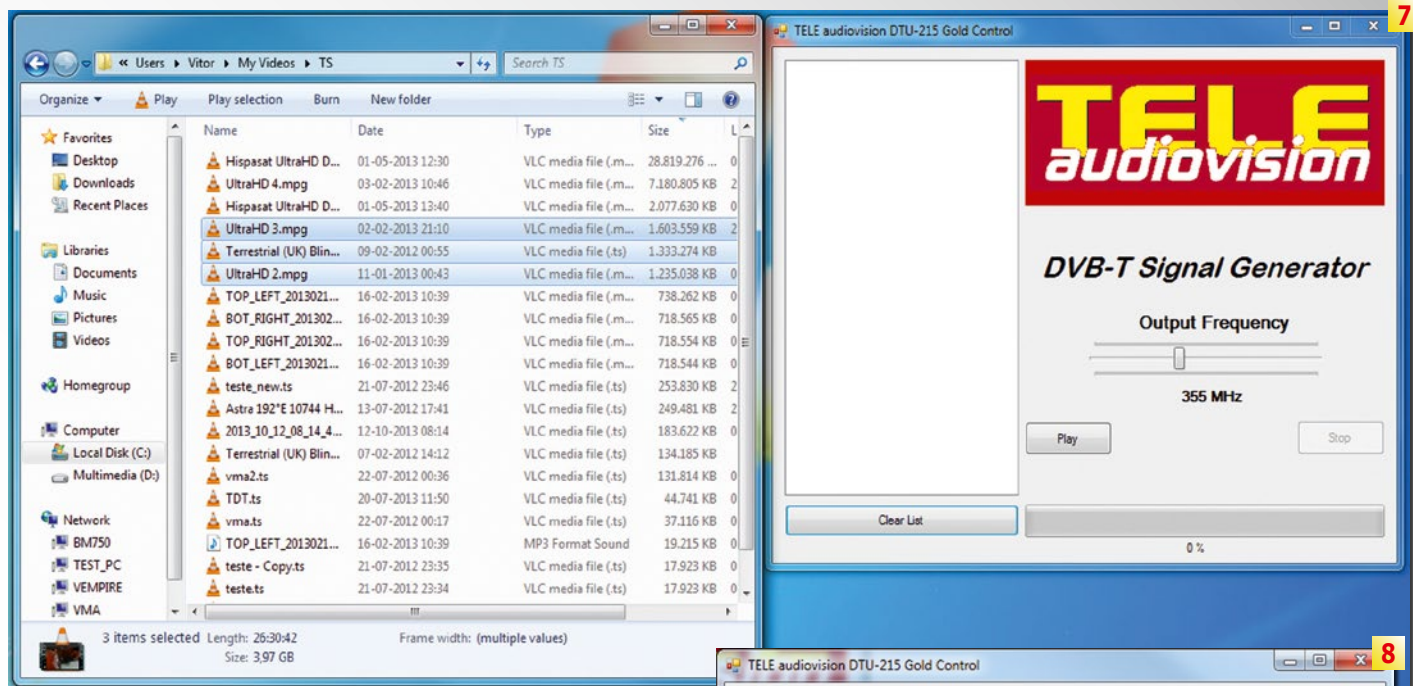
gram your own piece of software without a lot of hassle and years of in-depth developer expertise. As a matter of fact, we've been on the lookout for quite some time for a custom-made application that nobody really requires apart from us or other receiver testers working with a variety of digital signal types. So off we went, attempting to create our own piece

of software with the help of a DekTec API.

DekTec offers the API for Windows in 32 bit and 64 bit versions (including a DTA-PINET version for the .net environment), as well as, Linux. For this test, I downloaded the SDK and the source code of a sample application in VC#, which sends a Transport Stream to the DTU-2111 modulator. Naturally I already

had Microsoft Visual Studio 2010/2012 installed, but you could get this development tool for free from Microsoft, as long as you settle with the Visual Studio Express version, which should be more than enough.

The source code from DekTec is very well documented, but it is basically just a console application, which means that you run the fi-



nal compiled program from within a DOS shell. Not really exciting.

However, the source code is not complex at all. Actually it is quite amazing, how simple it is, thanks to the well done DTAPI. I quickly took the source code and built a Windows Form application around it, so that the user can actually select the desired file to be streamed by the DekTec modulator. Here you can download my sample code:

www.TELE-audiovision.com/dtu215-control.zip

It did not take much thinking to change the device from the initial DTA-2111 (for PCI Express) to the DTU-215 Gold (USB) modulator, which I have in the TELE-audiovision test center.

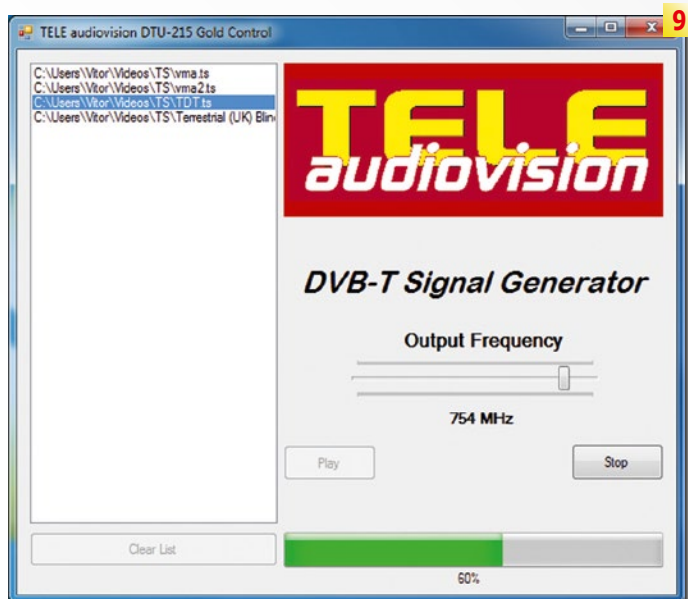
In less than one hour, I had my own Windows application that uses the DTU-215 Gold modulator. And I have to confess that I am not very literate in Visual C#, as I am much more familiar with VB.net. So hey, why not convert the source code from C# to VB.net? It only took a few minutes, thanks to online converters that do exactly that. The only struggle was that VB.net expects the prefix DTAPINET before certain parameter calls, as op-

posed to C#: I had to manually change it:

```
Outp.SetTxControl(DTAPI.TXCTRL_IDLE)
to
Outp.SetTxControl(DTAPINET.DTAPI.TXCTRL_IDLE).
```

Amazingly, I could now just use my familiar VB.net environment to finish my application and guess what, it turned out great. Instead of having to use the StreamXpress application to control the DTU-215 Gold modulator, I can now use my own application, which is preconfigured to output the DVB-T stream (for those who don't know the DTU-215, this modulator can generate practically all digital TV modulations). Much less buttons to tweak and instead I can drag and drop *.TS files in the playlist. I think that I could soon be programming really great applications with the DTAPI SDK and if I can do it, anyone who has programmed a few lines of code can do, as well.

Why settle with a standard product for broadcasting/distribution or HF product development, when you can build your custom product matching exactly your specific needs?



7-8. Does it work? Sure it does. Just drag the *.TS files to my application and press the play button.

9. Use the slider to change the output frequency.

S3700CHD

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- * INTERNET CONNECTION REQUIRED/3RD PARTY APPS SUBJECT TO CHANGE



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Manufacturer	Giga Blue
Website	www.gigablue.de
Function	DVB-S2, DVB-C2/DVB-T 4-Tuner HDTV Receiver
DVB-S2/LAN	• / •
PVR	•
S-Video/HDMI	— / •
Scart/Digital Audio	— / •



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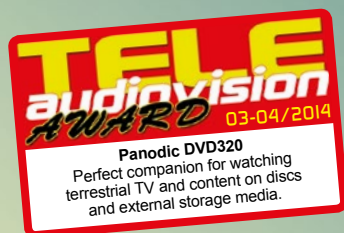
www.TELE-audiovision.com/14/05/gigablue
Read TELE-audiovision Test Report



GIGA BLUE



Manufacturer	Panodic
Website	www.panodic.com
Function	DVB-T & DVD Player Receiver
DVB-T2/LAN	— / —
PVR	—
S-Video/HDMI	— / •
Scart/Digital Audio	— / —



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www.TELE-audiovision.com/14/03/panodic
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PANODIC

Manufacturer	Skyworth
Website	www.skyworthdigital.com
Function	Twin Tuner Satellite Receiver with PVR function
DVB-S2/LAN	• / •
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
PVR	•
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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www.TELE-audiovision.com/14/01/skyworth
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Manufacturer	Amiko
Website	www.amikostb.com
Function	Miniature DVB-S / DVB-S2 PVR Receiver with external IR remote control
DVB-S2/LAN	• / •
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	— / •



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www.TELE-audiovision.com/13/11/amiko
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AMIKO

Manufacturer	Icecrypt
Website	www.icecrypt.com
Function	2 x DVB-S2 & DVB-T / DVB-C PVR HDTV Receiver
DVB-S2/LAN	• / •
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
PVR	•
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

TELE audiovision AWARD 11-12/2013

Icecrypt S3700CHD
Excellent hardware in tandem with sophisticated but easy-to-use software.

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Energy Efficiency Rating
eco friendly
0.59
power factor
Tested by TELE-audiovision

ICECRYPT

Manufacturer	Gotech
Website	www.gotechcn.com
Function	DVB-S2 & ISDB-T Combo Receiver
DVB-S2/LAN	• / •
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
PVR	•
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

TELE audiovision AWARD 09-10/2013

MKTech IS1-19HD
Well equipped for Satellite and local TV in South America

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Energy Efficiency Rating
eco friendly
0.59
power factor
Tested by TELE-audiovision

MKTECH

Manufacturer	TBS Tenow
Website	www.tbsdtv.com
Function	DVB-S2 compatible Twin Tuner Streamingbox
DiSEqC	1.0 / 1.1
DVB-S2/LAN	• / •
PVR	•
S-Video/HDMI	— / —
Scart/Digital Audio	— / —



TENOW



TELE-audiovision
International
Magazine

Expert Opinion

www.TELE-audiovision.com/13/07/tenow
Read TELE-audiovision Test Report

Manufacturer	Gotech
Website	www.gotechcn.com
Function	DVB-S2 Satellite Receiver
DVB-S2/LAN	• / •
Channel Memory	unlimited
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



MKTECH



TELE-audiovision
International
Magazine

Expert Opinion

www.TELE-audiovision.com/13/07/mktech
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Manufacturer	Changhong
Website	www.changhong.com
Function	DVB Receiver, Mediaplayer, Android Apps
DVB-S2/LAN	— / •
PVR	•
S-Video/HDMI	— / •
Scart/Digital Audio	— / •



CHANGHONG



TELE-audiovision
International
Magazine

**Expert
Opinion**

www.TELE-audiovision.com/13/05/changhong
Read TELE-audiovision Test Report



Manufacturer	Panodic
Website	www.panodic.com
Function	DVB-T / DVB-T2 Receiver
DVB-T2/LAN	• / —
PVR	•
S-Video/HDMI	— / •
Scart/Digital Audio	• / —



PANODIC



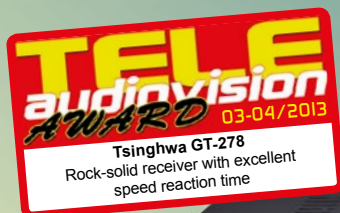
TELE-audiovision
International
Magazine

**Expert
Opinion**

www.TELE-audiovision.com/13/03/panodic
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Manufacturer	Tsinghua
Function	DTMB Receiver
LAN	—
PVR	•
S-Video/HDMI	— / •
Scart/Digital Audio	— / •



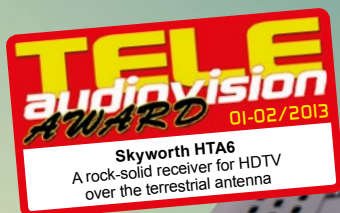
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International
Magazine

Expert Opinion

www.TELE-audiovision.com/13/03/tsinghua
Read TELE-audiovision Test Report



Manufacturer	Skyworth
Website	www.skyworthdigital.com
Function	DVB-T / DVB-T2 HDTV Receiver
DVB-T2/LAN	• / —
PVR	•
S-Video/HDMI	— / •
Scart/Digital Audio	— / —



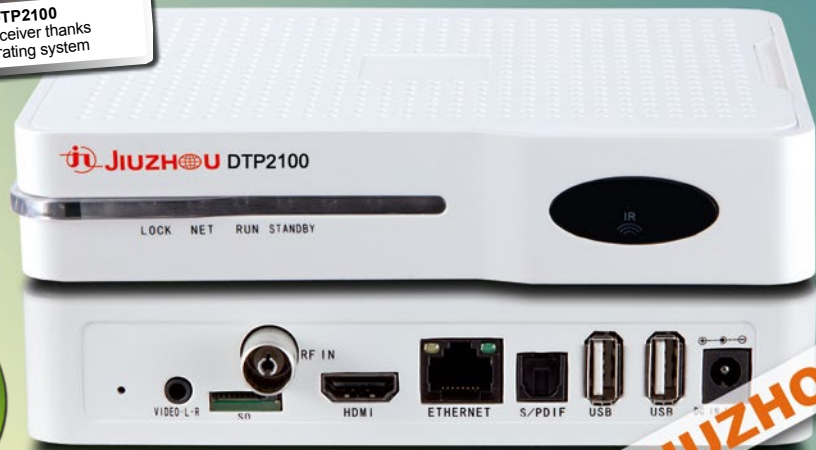
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Magazine

Expert Opinion

www.TELE-audiovision.com/13/01/skyworth
Read TELE-audiovision Test Report



Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	DVB-T & Android STB
DVB-S2/LAN	— / •
PVR	•
S-Video/HDMI	— / •
Scart/Digital Audio	— / •



JIUZHOU



TELE-audiovision
International
Magazine

Expert Opinion

www.TELE-audiovision.com/12/11/jiuzhou
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Manufacturer	Panodic
Website	www.panodic.com
Function	DVB-S / DVB-S2 Receiver
DVB-S2/LAN	• / —
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / —



PANODIC



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International
Magazine

Expert Opinion

www.TELE-audiovision.com/12/11/panodic
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Manufacturer	AZBox
Website	www.azbox.com
Function	HDTV DVB-S/DVB-S2 Miniature HDTV Linux Receiver with Multimedia Features
DVB-S2/LAN	• / •
Channel Memory	unlimited
DiSEqC	1.0 / 1.1 / 1.2 / 1.3 / USALS
S-Video/HDMI	— / •
Scart/Digital Audio	— / •



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Expert Opinion

www.TELE-audiovision.com/12/09/azbox-mini-me
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HORIZON

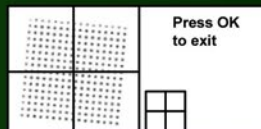
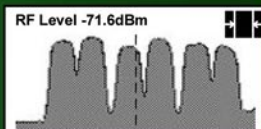
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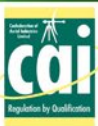
Fast and accurate, with a long battery life, the HD-CM+ has been designed with the installer in mind, providing maximum flexibility and ease of use. The HD-CM+ is your complete solution for downstream analysis.

The HD-CM+ comes with everything you need to get started. A carry case (with tool pocket), USB cable for channel plan downloads, AC cord for mains charging (internal charger), DC cord for in vehicle charging, protective splash cover and field replaceable F connector input.

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ANALYZERS OF
21ST CENTURY**

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International
Magazine

Expert Opinion

www.TELE-audiovision.com/14/03/rohde-schwarz
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Manufacturer	Rohde & Schwarz
Website	www.rohde-schwarz.com
Function	Professional DVB-C Signal Analyzer
Frequency Range	5 ~ 2500 MHz
Video Output	HDMI
Built-in Monitor	640 × 480 TFT display



TELE
audiovision
AWARD 03-04/2014

Rohde & Schwarz EFL210 + EFL-Z100
The best and most complete professional
instrument for CATV operators and their
installers.



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International
Magazine

Expert Opinion

www.TELE-audiovision.com/14/01/deviser
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Manufacturer	Tianjin Deviser Electronics Instrument
Website	www.devisertek.com
Function	Professional Meter for DVB-T, DVB-T2, DVB-C
Frequency Range	5 ~ 1052 MHz
Video Output	—
Built-in Monitor	320 × 240 TFT display



TELE
audiovision
AWARD 01-02/2014

DEVISER DS2400T
Well equipped for the measurements
in all terrestrial DVB standards



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International
Magazine

Expert Opinion

www.TELE-audiovision.com/13/09/horizon

Read TELE-audiovision Test Report

Manufacturer	Horizon Global Electronics
Website	www.horizonhge.com
Function	Digital Meter DVB-T Signals
Frequency Range	51 ~ 858 MHz
Video Output	—
Built-in Monitor	LCD display



TELE
audiovision
AWARD 09-10/2013

HORIZON HD-CM+ for DVB-C
Extremely easy to operate,
for professional installers

HORIZON



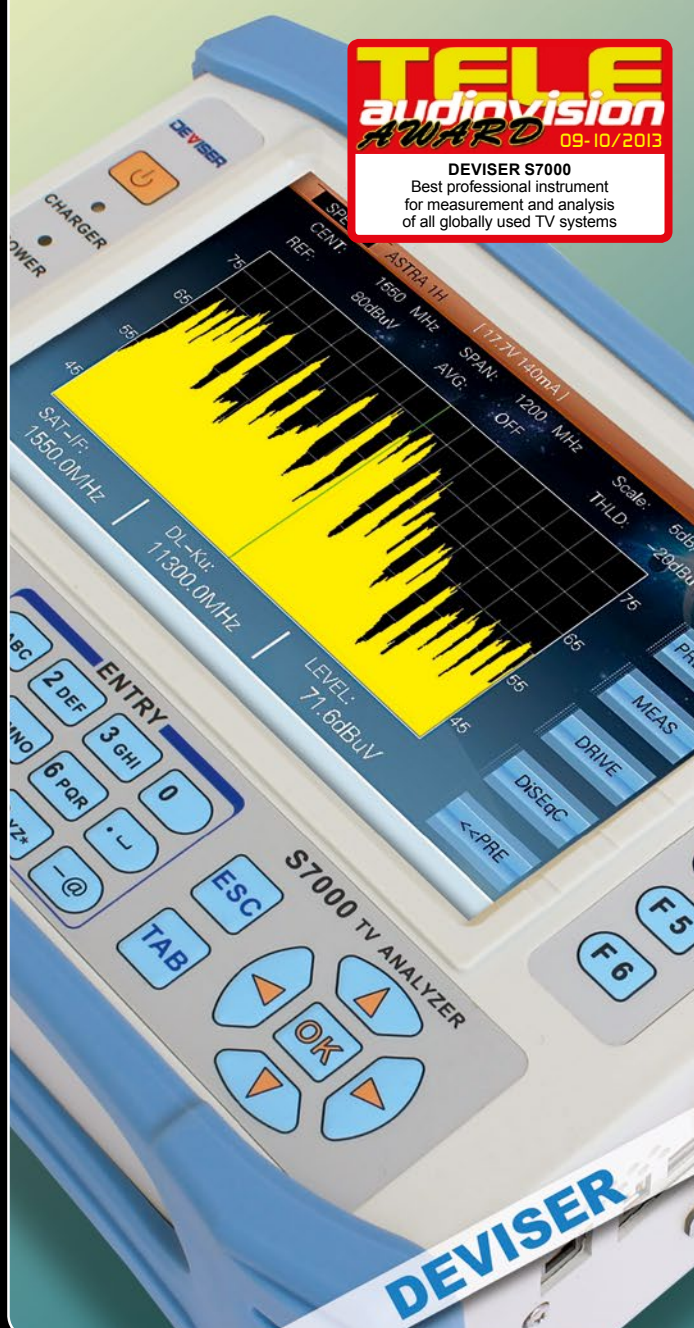
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International
Magazine

Expert Opinion

www.TELE-audiovision.com/13/09/deviser

Read TELE-audiovision Test Report

Manufacturer	Tianjin Deviser Electronics Instrument
Website	www.devisertek.com
Function	Professional TV Signal Analyzer
Frequency Range	5 - 1050 MHz (TV); 950-2150 MHz (Satellite)
Video Output	HDMI
Built-in Monitor	7" TFT LCD, 800x480 pixels



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audiovision
AWARD 09-10/2013

DEVISER S7000
Best professional instrument
for measurement and analysis
of all globally used TV systems



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International
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Expert Opinion

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Manufacturer	Tianjin Deviser Electronics Instrument
Website	www.devisertek.com
Function	Satellite Antenna Meter
Frequency Range	950~2150 MHz
Video Output	—
Built-in Monitor	LCD display



DEVISER S30

Highly accurate handheld meter optimized
for the satellite dish installer



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Expert Opinion

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Read TELE-audiovision Test Report

Manufacturer	Horizon Global Electronics
Website	www.horizonhge.com
Function	Digital Satellite Meter for DVB-S and DVB-S2 Signals
Frequency Range	950 ~ 2150 MHz
Video Output	—
Built-in Monitor	LCD display



HORIZON Nano-S2

Very easy to use instrument
for quick installation of satellite
for HDTV reception



TELE-audiovision
International
Magazine

Expert Opinion

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Manufacturer	Fujian Baotong
Website	www.sat-link.com.cn
Function	Digital Meter & Receiver for DVB-S and DVB-T Signals
Frequency Range	47 ~ 862 MHz & 950 ~ 2150 MHz
Video Output	yes
Built-in Monitor	4.3 inch display



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AWARD
11-12/2012

Satlink WS-6936
Very easy to use signal meter
which also serves as receiver.

SATLINK



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Expert Opinion

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Manufacturer	Horizon Global Electronics
Website	www.horizonhge.com
Function	Digital Meter for Analogue, DVB-T and DVB-T2 Signals
Frequency Range	48 ~ 862 MHz
Video Output	—
Built-in Monitor	LCD display



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AWARD
11-12/2012

HORIZON HD-T2
One of the world's first DVB-T2 signal
analyzers with exceptional data

HORIZON



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Expert Opinion

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Manufacturer	Tianjin Deviser Electronics Instrument
Website	www.devisertek.com
Function	Optical Power Meter
Frequency Range	-43 dBm ~ +25 dBm
Video Output	—
Built-in Monitor	LCD display



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AWARD 11-12/2012
DEVISER AE 120
Optical Power Meter
Extremely simple to use but
at same time very accurate

DEVISER



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International
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Expert Opinion

www.TELE-audiovision.com/12/05/spaun
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Manufacturer	SPAUN Electronic
Website	www.spaun.com
Function	DVB-S / DVB-S2 and DSS Signal Analyzer
Frequency Range	950-2150 MHz
Video Output	—
Built-in Monitor	4.3" TFT LCD display (16:9)

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AWARD 04-05/2012
SPAROS SAT HD
Very useful meter for setting up critical
satellite systems



SPAUN

The Best Way to Partner with TELE-audiovision Magazine

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Continuity 持续
Accountability 担当

Trust
信任



Magazine
started in 1981
and is by now the world's
largest in digital tv trade
杂志开始于1981年，现在是世界上最大的数字电视行业

The only way to survive in the oversupply world that exists today is to offer more to your customers than what other manufacturers offer. And this philosophy should not be limited to just the products that you produce, but in everything else that is involved in the making of those products. And the end result? The customers will recognize the long-term advantage of ONLY purchasing YOUR products. They will know that your company will still exist next week, next month, next year. These days products require frequent updates. In the continuously developing digital world, firmware and software need to be regularly upgraded to add new features and to improve on existing features.

在这个供过于求的世界上，供应商唯一的生存之道就是提供其他竞争对手所没有的东西。这不仅是产品本身，还有一个简单产品背后实力的展现。这意味着您的客户将知道：在这个瞬息万变的电子世界里，他的供应商将日复一日，年复一年的为他提供专业的人性化服务；精准的硬软件调试；实时的新功能升级。

You can ensure your continued success by continuously impressing upon existing and potential customers your never-ending dedication to your products.

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21
IPTV/WebTV
RECEIVERS OF
1ST CENTURY

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Manufacturer	Panodic
Website	www.panodic.com
Function	Web TV Multimedia Box with Android
WIFI/LAN	• / •
Internal Storage	no
HDTV	yes (up to 1080p)
CVBS/HDMI	• / •
USB/SD Card	• / •



PANODIC



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Expert Opinion

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Manufacturer	TBS Tenow
Website	www.tbsdtv.com
Function	DVB-S2 compatible Twin Tuner Streamingbox
DiSEqC	1.0 / 1.1
DVB-S2/LAN	• / •
PVR	•
S-Video/HDMI	— / —
Scart/Digital Audio	— / —



TENOW



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Expert Opinion

www.TELE-audiovision.com/13/07/tenow
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Manufacturer	D-Link
Website	www.dlink.com
Function	Internet Streaming Box
WIFI/LAN	• / •
Internal Storage	no
HDTV	yes (up to 1080p)
CVBS/HDMI	— / •
USB/SD Card	• / •

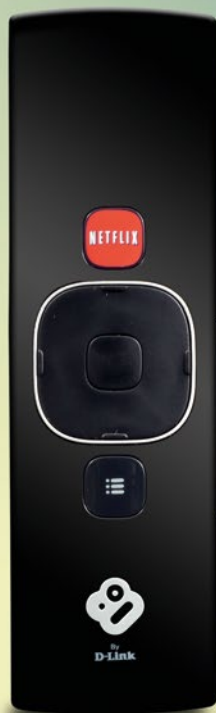


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Expert Opinion

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BOXEE

Manufacturer	Netgear
Website	www.netgear.com
Function	Streaming Player
WIFI/LAN	• / •
Internal Storage	no
HDTV	yes (up to 1080p)
CVBS/HDMI	— / •
USB/SD Card	— / —



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Expert Opinion

www.TELE-audiovision.com/13/05/netgear

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NETGEAR



Manufacturer	Roku
Website	www.roku.com
Function	Streaming Player
WIFI/LAN	• / —
Internal Storage	no
HDTV	yes (up to 1080p)
CVBS/HDMI	• / •
USB/SD Card	— / •



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www.TELE-audiovision.com/13/03/roku
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ROKU



Manufacturer	Lookeetv
Website	www.lookeetv.com
Function	Multimedia Player for local media and Internet
WIFI/LAN	• / •
Internal Storage	yes, 1.14 GB
HDTV	yes (up to 720p)
CVBS/HDMI	• / •
USB/SD Card	• / •



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Expert Opinion

www.TELE-audiovision.com/12/11/lookee
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LOOKEETV





Manufacturer	AZBox
Website	www.azbox.com
Function	HDTV DVBS2 Miniature HDTV Linux Receiver with Multimedia Features
DVBS2/LAN	• / •
Channel Memory	unlimited
DiSEqC	1.0 / 1.1 / 1.2 / 1.3 / USALS
S-Video/HDMI	— / •
Scart/Digital Audio	— / •

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audiovision
AWARD 09-10/2012

AZBox mini ME
Excellent mini-receiver with Network
features - ideal for a home network



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International
Magazine

**Expert
Opinion**

www.TELE-audiovision.com/12/09/azbox-mini-me

Read TELE-audiovision Test Report



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

TELE
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AWARD 12-01/2011

JIUZHOU DTP8300
IPTV Receiver Equipped
with Top-Notch Technology



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**Expert
Opinion**

www.TELE-audiovision.com/11/01/jiuzhou

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The Most Versatile UHF Antennas

室内/室外天线



YAGI
U-LD3

From the Inventors of the YAGI Antenna:
We Know How to Make YAGI Antennas!

从八木天线的发明 -
我们知道八木天线是怎样炼成的！



YAGI

U-PA
UHF DIGITAL

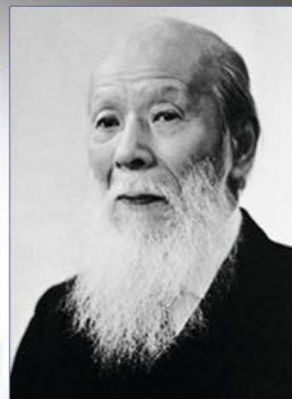


**DESIGNED IN
JAPAN**

Dr. Hidetsugu Yagi invented the Yagi antenna in 1926

八木天线由八木秀次博士于1926年发明

YAGI



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AWARD WINNING

**THE BEST
CABLE TV
EQUIPMENT OF
21ST CENTURY**

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Manufacturer	DekTec
Website	www.dektec.com
Model	DTA-2138
Function	Professional DVB-C2/DVB-T2 card for PCI Express
Frequency range	42 - 880 MHz
Input sensitivity	-90 ... -20dBm
Transmission Standards	DVB-C2, DVB-T2, DVB-C, DVB-T
Bandwidth	5/6/7/8/10MHz



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International
Magazine

Expert Opinion

www.TELE-audiovision.com/14/03/dektec
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Manufacturer	macab
Website	www.macab.tv
Model	Macab Catline TVB-02
Function	TV to RJ-45 filter with a built in adjustable, high performance amplifier with equalizer
Frequency range	47-862 MHz
Flatness	±0,75 dB
Impedance	Input: 75 Ohm; Output: 100 Ohm
Gain (47-860MHz)	35 dB (max)
Noise	<8 dB
Output level	122 dBuV (DIN45004B); 107 dBuV (42Ch CENELEC)
Connectors	Input: F-female; Outputs: RJ-45 female



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Magazine

Expert Opinion

www.TELE-audiovision.com/14/01/macab
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International
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www.TELE-audiovision.com/14/01/spaun
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Manufacturer	Spaun
Website	www.spaun.com
Model	SPAUN SMA 8 F
Function	Filter for SCR Distribution System
Inputs/Outputs	1/1
Through loss	1 dB
Ambient temperature	-20 ... +50 °C
Dimension (mm)	61 x 49 x 19

TELE
audiovision
AWARD 01-02/2014

SPAUN SMA 8 F
Enables the creation
of an error-tolerant SCR
distribution system

SPAUN

Manufacturer	Perfect Vision
Website	www.perfect-vision.com
Model	PV6-PV, PV6UE-UM, PV6UE-05, PV6U-EUR
Function	F Connectors for Coax Cable
Model	PV100
Function	Durable Hand Compressor for Standard 21.0mm Connectors
Model	VT200
Function	Professional Compression tool: can be used with series 59, 6, 7 and 11 coaxial cable as well as 320QR mini hard line cable



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Expert Opinion

www.TELE-audiovision.com/14/01/perfectvision
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AWARD 01-02/2014

F Connectors for Coax Cable
Ideal solution for perfect
coax cable connections

PERFECTVISION

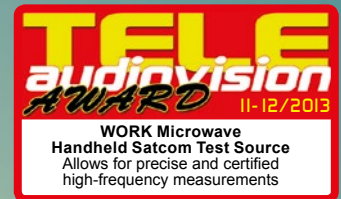
Manufacturer	WORK Microwave
Website	www.work-microwave.de
Model	RF Signal Generator
Function	Test Signal Generator
Frequency range	50 MHz to 180 MHz and 950 MHz to 2150 MHz
Frequency resolution	0.5 MHz
Output level	-45 dBm to -5 dBm
Output level resolution	0.5 dB
Output impedance	50 Ohm
Output mute	< -60 dBc
Reference Output	10 MHz, -10 dBm to +10 dBm, 0.5 dB steps



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www.TELE-audiovision.com/13/11/work-microwave
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WORK Microwave
Handheld Satcom Test Source
Allows for precise and certified
high-frequency measurements

WORK MICROWAVE

Manufacturer	Dexin Digital Technology
Website	www.dsdvb.com/english
Model	NDS3975 DVB-S2 HD IRD
Function	Professional Integrated Receiver Decoder
Tuner Input	QPSK, QPSK, DVB-S2 (DVB-T, DVB-C, DVB-S optional)
ASI Input	Maximum transmitting rate 90Mbps
ASI Input	Maximum transmitting rate 90Mbps
DVB-S2/LAN	• / •
SDI/YPbPr/CVBS/HDMI	• / • / • / •
Scart/Digital Audio	— / •



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Magazine

Expert Opinion

www.TELE-audiovision.com/13/01/dexin
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Dexin NDS3975
Most powerful and versatile IRD ever
- its built-in monitor is a unique plus.



DEXIN



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International
Magazine

Expert Opinion

www.TELE-audiovision.com/12/11/dektec
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Manufacturer	DekTec
Website	www.dektec.com
Model	DTE-3137
Function	Networked DVB-S/DVB-S2 Receiver
Frequency range	950 - 2150 MHz)
Transmission Standards	DVB, DVB-RSC, ATSC
Modulations	QPSK, 8-PSK, 16-APSK and 32-APSK
DVB-S2/LAN	• / •



DekTec DTE-3137
Perfectly equipped professional satellite receiver for use in networks and for processing in cable networks.

DEKTEC



SPAUN VAM 420 NG PAL
Easy way to create
analogue tv channels



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Expert Opinion

www.TELE-audiovision.com/12/09/spaun-vam
Read TELE-audiovision Test Report

Manufacturer	Spaun
Website	www.spaun.com
Model	VAM 420 NG PAL
Function	VSB Twin Modulator
Frequency range	110 ... 862 MHz
TV standard	B/G/D/K/I/L
Output level max	90 dBµV
Output level adjustment	0...-10 dB
Spurious level	<-60 dB
C/N ratio	≥ 50 dB
Input level	1 ± 0.1 V p-p

SPAUN

Manufacturer	Global Invacom
Website	www.gloablinvacom.com
Model	FibreRS DTT Processor
Function	Filtering and amplifying DVB-T signal
Frequency range	470-862 MHz
Number of channels	6 (expandable to 9)
Broadcast standard	DVB-T 8 MHz
Gain	20 dB
Channel flatness	< 2.5 dB
DAB Frequency range	217-230 MHz
Insertion loss	< 2 dB



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Manufacturer	Spaun
Website	www.spaun.com
Model	BluBox 16
Function	DVB-S2/DVB-S2 to DVB-C Head End
DVB-S2/LAN	• / •
Number of inputs	4 (cascadable)
Input frequency range	950 ... 2150 MHz
Allowable input signal power	64 ... 94 dBμV
Number of outputs	2 (cascadable)
Output frequency range	47 ... 862 MHz
QAM standard	DVB-C / ITU-T J.83 Annex A (fixed)

SPAUN

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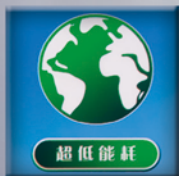
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USB HDMI DTV



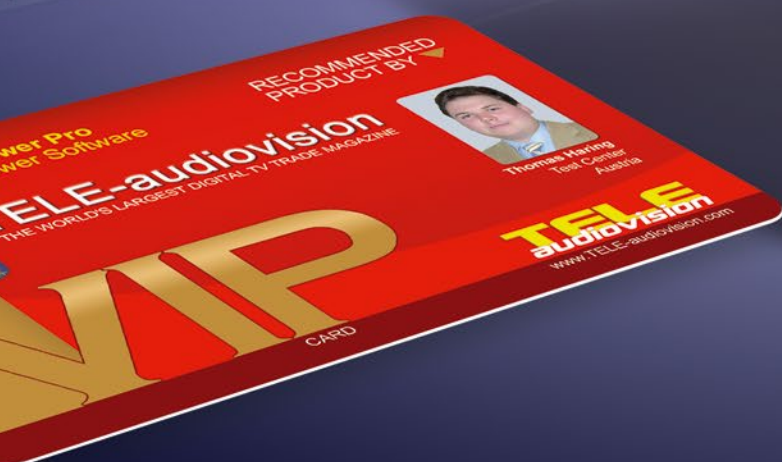
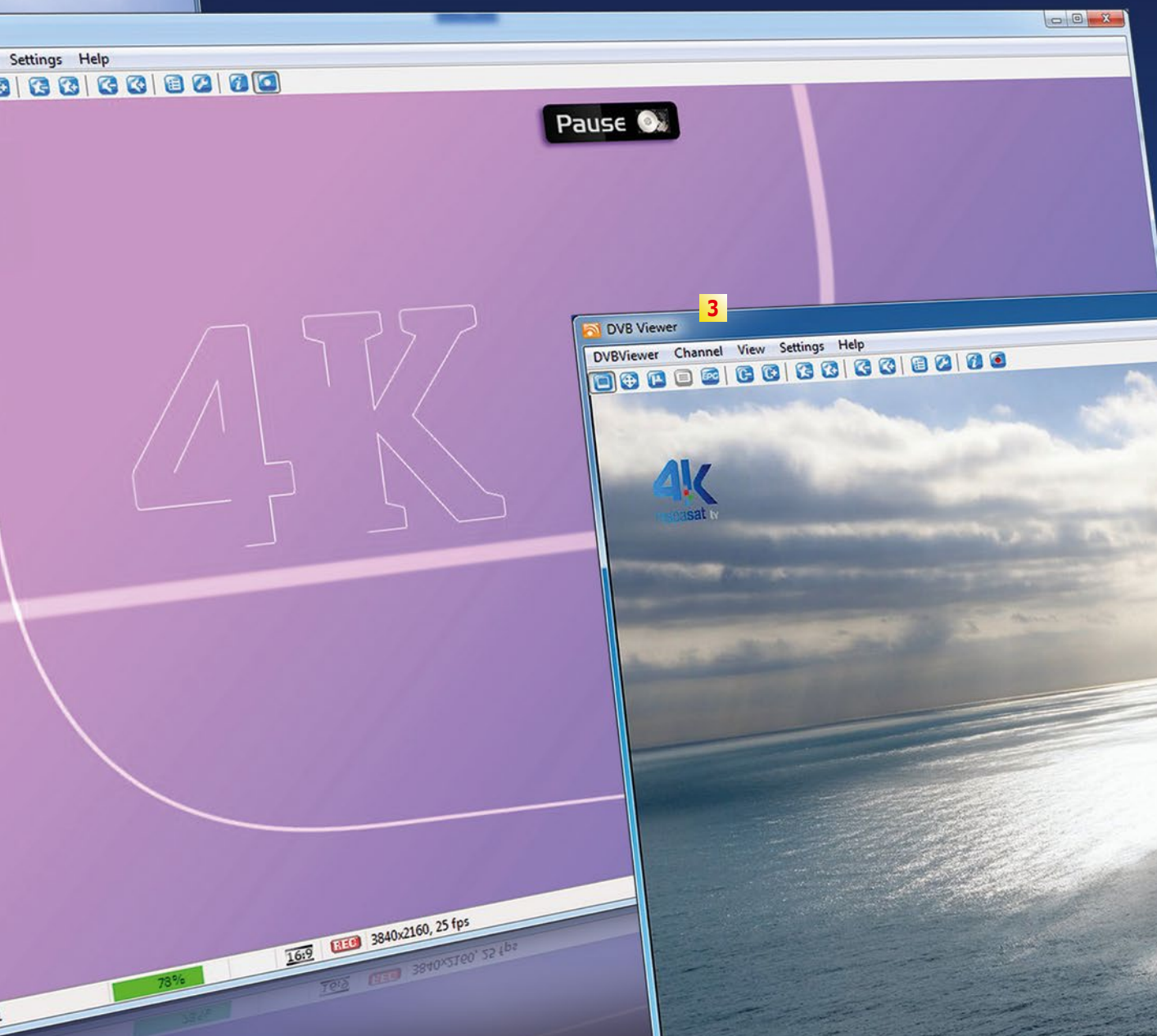
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DVB Viewer Pro

- ***Works on any PC with a DirectX9 compatible graphics card***
- ***Additional Codecs can easily be added***
- ***Recorder function for the simultaneous recording of channels or transponder streams***
- ***All DiSEqC options are supported***
- ***Can also be used as a media center since all usable formats are supported***
- ***Capable of receiving UHDTV in H.265***

UHDTV Reception with DVBViewer Pro

1. DVBViewer Pro is already capable of receiving Ultra HDTV in H.264 or H.265
2. Timeshift is also available with Ultra HDTV in H.264
3. Ultra HDTV reception in H.265



The Ultimate Software Solution for Reception of TV and Radio on a PC

In the 01-02/2014 issue of TELE-audiovision we introduced to you the maker of the TV viewer software DVBViewer. In this issue we are presenting to you the ultimate version of this software: the DVBViewer Pro. If you want to test this version yourself, you can download the demo version for free from www.dvbviewer.com.

For this test report we loaded the latest version of DVBViewer Pro (version 5.2.8 at the time of our test) onto our PC equipped with an Intel Core i7 2.6 GHz CPU, a total of 8 GB of memory and an HD compatible graphics card from AMD. This setup exceeded the minimum requirements for DVBViewer Pro: the graphics card merely needs to be compatible with DirectX 9. This very small hardware requirement is made possible by the fact that the entire workload involved in displaying a TV signal (regardless if it's SD or HD) takes place on the graphics card on the built-in chipset such that the CPU load from DVBViewer Pro can hardly even be measured while it's in operation.

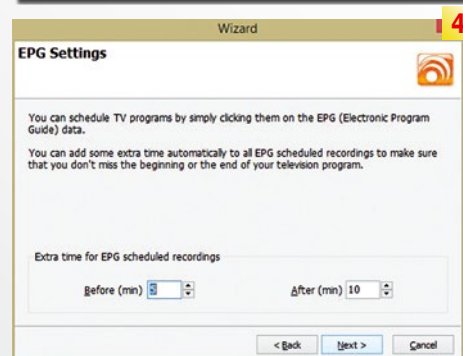
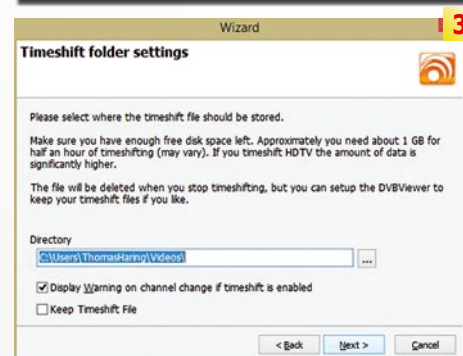
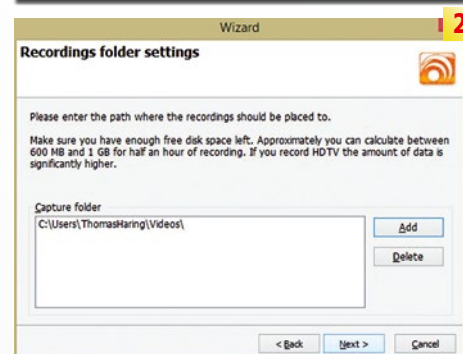
Right at the start during the initial installation the user has to select which components need to be installed alongside the basic program. But, have no fear, if you should happen to forget to install one or the other feature, it can always be added at a later time. We appreciated the ability to load a pre-configured channel list from the very popular ASTRA satellites at 19.2° east position. At the same time during the initial installation you can also install support for various CI slots and plus the remote control solutions from different manufacturers. And then there's all the different plug-ins and tools such as the

TransEdit software for professionals for the analysis and complete recording of entire transponder streams.

Right after the initial installation, a Configuration Wizard starts up and begins with the language selection. Thanks to a very active fan community there's a very well representative selection of different languages to choose from such that there should be a suitable OSD language choice for everyone. In the next step the user selects what folders all of the recordings and time-shift cache should be stored in as well as how much before and after time should be added to timer recordings. For more experienced users DVBViewer Pro also lets you individually set the audio and video Codecs to be used. If you don't have any of the necessary Codecs on your PC, they can be automatically downloaded to your PC during the initial installation with a simple click of the mouse. In the next step, DVBViewer Pro wants to know what hardware is to be used. As long as it's supported, DVBViewer Pro will instantly recognize and setup the hardware. In the final step the folders for music, videos and pictures can be setup. Multiple folders can be named here and then linked to a virtual archive since DVBViewer Pro is also a fully functional media center with video and music players.

When DVBViewer Pro is started, a

1. DVBViewer Pro Installation menu with language selection
2. The folder location where recorded broadcasts should end up can be selected.
3. Setting up the folder where Timeshift recordings should go
4. Setting up the extra recording time before and after a recording





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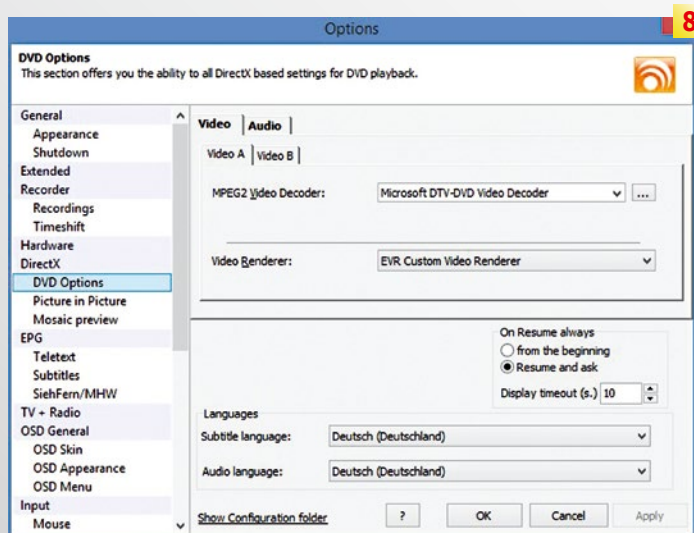
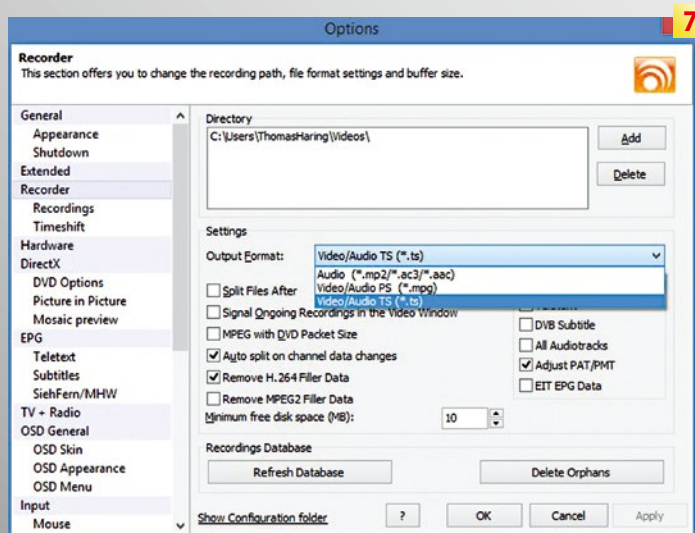
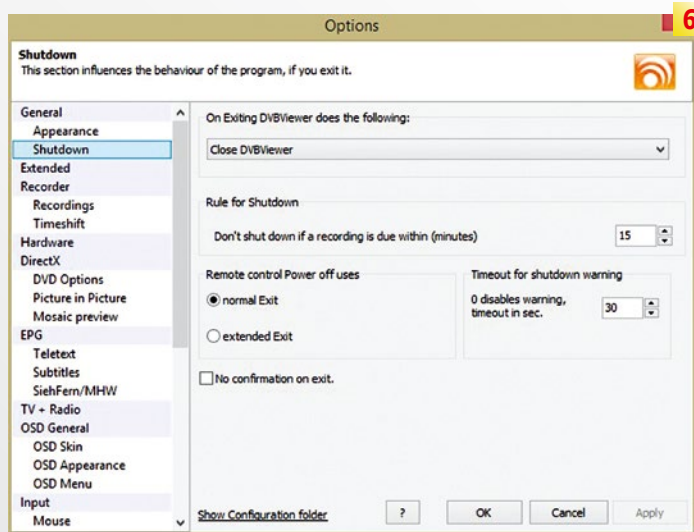
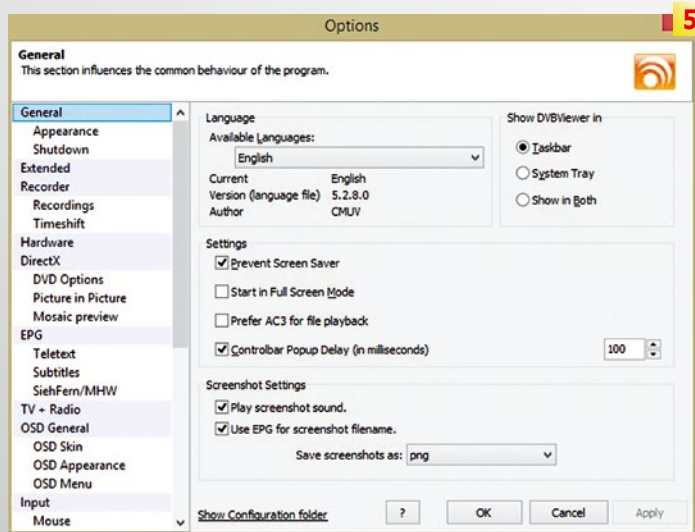
nicely organized main window is provided for the user. Compared to many other PC solutions for TV and radio reception, this interface is especially sleek in design and gives the user access (through a symbol bar at the top) to all of the most important features all in one place. If you decide to take a trip into the program options, you better hold on tight; the immense flood of adjustment and customization options is huge. In order to understand all the different options and then use them correctly, some experience and background knowledge would definitely help. Thankfully though, Christian Hackbart (see TELE-audiovision issue 01-02/2014) set up the basic settings in such a way that you don't typically have to be concerned with all of these options and/or setting each one up one at a time and then individualizing them over the course of time.

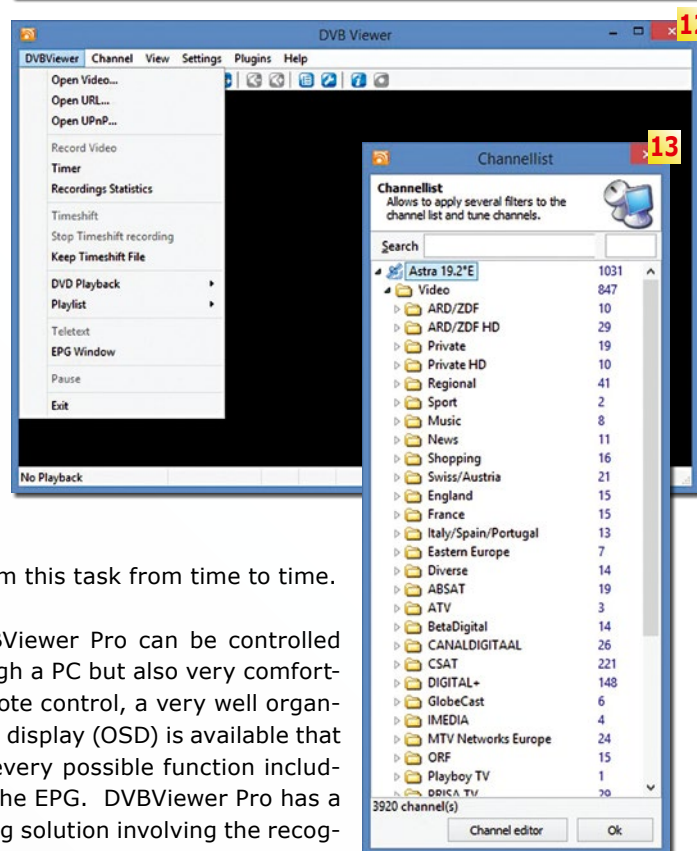
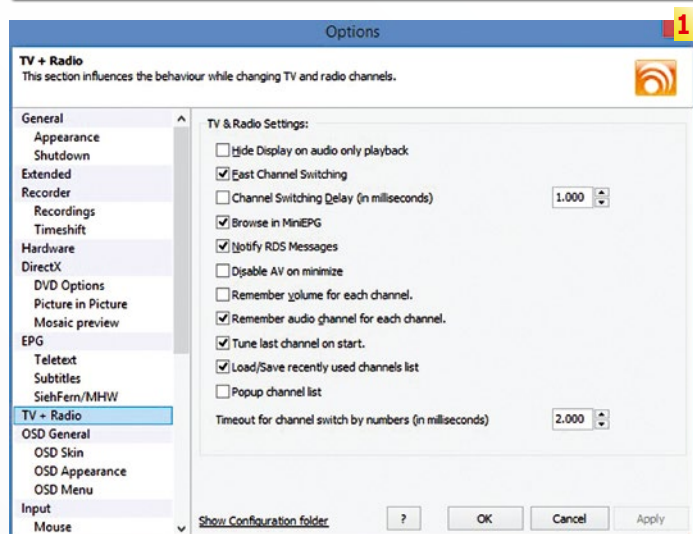
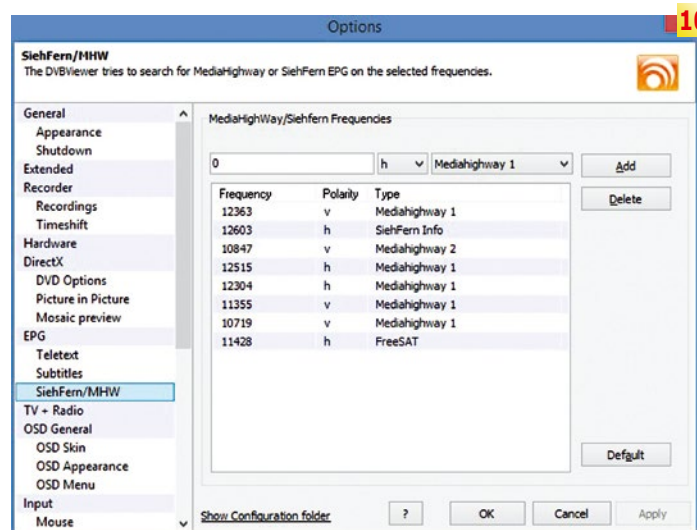
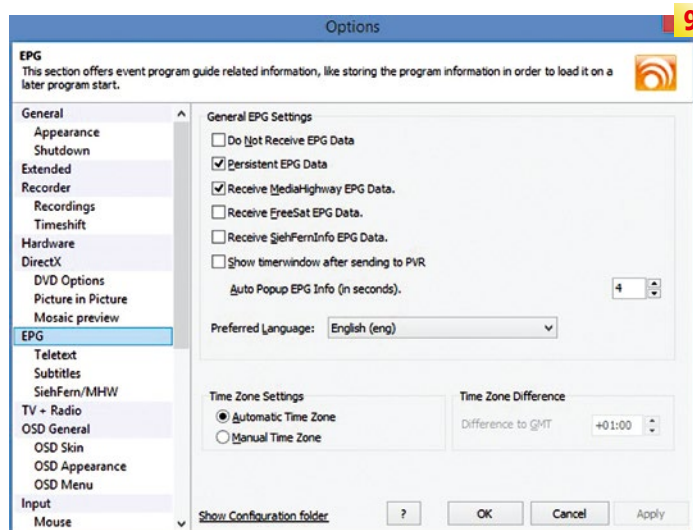
Really practical is the ability for the user to select if and how the PC should

turn itself off after a preprogrammed recording, in what format recordings should be made (transponder stream or MPEG), how the receiver should deal with EPG data, teletext and subtitles, etc. Especially noteworthy is the Hardware section that with its help will let you configure in detail the available hardware or set up new hardware.

In the basic settings there are five Favorites categories that are directly accessible through the Main menu that can easily be expanded on and/or filled with channels. Alternatively, a single mouseclick can be used to access the entire channel list that is sorted by satellite or provider in the initial settings. If necessary though, it can also be divided by other criteria. Thanks to the built-in search function, channels can quickly be found even if they are stored in a poorly sorted or unorganized fashion. Along with this we found that the „Channel Editor“ was a very practical function that could be used to manage and edit

each individual entry in the channel list regardless if you're working with the PID values of a single channel or the DiSEqC options and/or LOF parameters of an entire satellite. On the software side of things, nearly everything is supported that is technical feasible. It doesn't matter if it's DiSEqC 1.0, 1.1, 1.2 or 1.3, even individual DiSEqC command sequences can be entered and stored. It should be mentioned however that not all of the hardware that might be used can work with all of these functions. In particular, DiSEqC 1.2 and 1.3 can be a problem for many PC receiver cards because of the high power consumption of the antenna motor. Naturally, the LOF parameters can be individually adapted; even the 22 kHz switching signal (33 kHz and 44 kHz are also available) can be activated. In our test DVBViewer Pro in conjunction with our PC receiver card had no trouble handling the signal distribution here in our test center. Specifically, it was DiSEqC 1.0 and 1.1 as well as a DiSEqC 1.3 motor.





For the channel scan, a preprogrammed list of 150 European, American and Asian satellites is included although the corresponding transponder data was not quite up to date. Thankfully the search function can be limited to FTA-only channels; this helps to reduce the time involved with reception systems with no CI slot. The channel scan itself was actually quite fast; the software needed just a little over four minutes to find 1959 TV and radio channels on HOTBIRD at 13° east. This process took a little longer, namely just about seven minutes, with the „In Depth Search“ function activated. In this mode not only is the stored transponder data scanned, DVBViewer Pro also attempts to identify newly activated or altered transponders. This worked very well in our tests; after an „In Depth Search“ a few more channels found their way into the channel list. We also liked the „Update Transponder“ scan where the available channel list is simply brought up to date, that is, new channels on the existing transponders are added to the list while any channels that no longer exist are automatically removed. Considering how often channels come and go, it certainly

pays to perform this task from time to time.

So that DVBViewer Pro can be controlled not only through a PC but also very comfortably via a remote control, a very well organized on-screen display (OSD) is available that offers nearly every possible function including access to the EPG. DVBViewer Pro has a very interesting solution involving the recognition of EPG data: it's available in a number of different standards. In Europe you'll come across the normal EPG data provided by each channel but there's also the Mediahighway EPG from Canal Plus, the British Freesat EPG as well as the SiehFernInfo EPG data. The necessary transponder data for reception is preprogrammed but can be modified by the user if needed. The EPG data itself is presented in its own window and of course in a number of different modes: it doesn't matter if you choose the Timeline, TV Guide or the display of the current channel, in each case you can easily get a detailed description of the current program or future broadcasts for the selected channel. And how could it be any different: naturally the entire EPG database can be searched through based

5. Initial settings
6. Recorder settings
7. Recordings can take place in TS (transport stream) or MPEG format.
8. Codec selection for DVD playback
9. EPG settings
10. The transponder data for the reception of different EPG services can be individually adjusted
11. TV and radio settings
12. In addition to TV and radio reception, audio and video files can also be opened with DVBViewer Pro locally, through a URL or via UPnP
13. DVBViewer Pro channel list

14 Scan Channels

Allows to search for new television and radio channels.

Target Boot: Astra 19.2°E Reception Type: Satellite

Transponder List: Astra 19.2°E Group: A

LOF 1: 9750 LOF 2: 10600 LOF SW: 11700 DISEqC: Pos A/Opt A

Frequency (MHz): 10730 1 End Frequency (MHz): 12729 103

Free To Air only
☒ Only active Channels
☒ In-depth Search (takes long)
☐ Update only
☐ Update channel names

Stop

Satellite Transponder 12246 MHz, 29700, VER

2220 new channel(s) found. 90 channel(s) updated. 1 new frequencies found

Current Device: EyeTV Sat Digital Tuner

Signal

15 Channel list Editor

Allows to change and organize the channel list and the favourites.

Search: DIGITAL+ 35

Boot: Scan 18.11.2013 Network ID: 1

Tuner Type: Satellite Tone (Hz): None

DescrC: Pos A/Opt A LOF (MHz): 9750

Transponder: Frequency (MHz): 10980 Polarity: V

SymbRate: 22000 FEC: 5/6

Stream ID: 1034 Modulation: QPSK

Channel Name: TELECOM

Category: DIGITAL+

Video PID: 165 Service ID: 30659

Audio PID: 100 Video Type: MPEG2

Teletext PID: 0 Audio Type: MPEG

PMT PID: 1029 Language: spa

PCR PID: 165 Group: A

RDS: ☒ Encrypted ☐ EPG

Add Delete Apply

16 Channel list Editor

Allows to change and organize the channel list and the favourites.

Search: DIGITAL+ 35

Boot: Scan 18.11.2013 Network ID: 1

Tuner Type: Satellite Tone (Hz): None

DescrC: Pos A/Opt A LOF (MHz): 9750

Transponder: Frequency (MHz): 10980 Polarity: V

SymbRate: 22000 FEC: 5/6

Stream ID: 1034 Modulation: QPSK

Channel Name: TELECOM

Category: DIGITAL+

Video PID: 165 Service ID: 30659

Audio PID: 100 Video Type: MPEG2

Teletext PID: 0 Audio Type: MPEG

PMT PID: 1029 Language: spa

PCR PID: 165 Group: A

RDS: ☒ Encrypted ☐ EPG

Add Delete Apply

17 DiSeqC Editor - 19.2° E

Allows to enter a DiSeqC command sequence.

Nr	Address	Command	Data
1	Switch	Uncommitted	1
2	Switch	Committed [unchanged]	2 (B/A)
3			

Address: Switch Command: Committed [unchanged] Input 1...4: 2

Change Insert Cut Copy Paste

OK Cancel

18 Scan Channels

Allows to search for new television and radio channels.

Target Boot: ASTRA2 Reception Type: Satellite

Transponder List: Astra/Eurobird 28.2°E Group: A

LOF 1: 9750 LOF 2: 10600 LOF SW: 11700 DISEqC: Angular Pos.

Frequency (MHz): 10714 1 End Frequency (MHz): 12643 85

Free To Air only
☒ Only active Channels
☒ In-depth Search (takes long)
☐ Update only
☐ Update channel names

Stop

Satellite Transponder 10876 MHz, 22000, VER

87 new channel(s) found. 10 channel(s) updated. 4 new frequencies found

Current Device: TBS 6925 DVB-S2 Tuner (1)

Signal

19 Scan Channels

Allows to search for new television and radio channels.

Target Boot: Scan 18.11.2013 Reception Type: Satellite

Transponder List: Astra 19.2°E Group: A

LOF 1: 9750 LOF 2: 10600 LOF SW: 11700 DISEqC: Angular Pos.

Frequency (MHz): 10714 1 End Frequency (MHz): 12643 85

Free To Air only
☒ Only active Channels
☒ In-depth Search (takes long)
☐ Update only
☐ Update channel names

Stop

Satellite Transponder 10876 MHz, 22000, VER

87 new channel(s) found. 10 channel(s) updated. 4 new frequencies found

Current Device: TBS 6925 DVB-S2 Tuner (1)

Signal

20 EPG - the electronic program guide:

This window displays the broadcasting events. After selecting an event, more information is shown.

EPG	What's new	Timeline	TV Guide
Search	Start	Duration	Event
EPG	13:25	01:05	Heston's 80s Feast
EPG	14:30	02:30	Channel 4 Racing
EPG	17:00	02:30	Come Dine with Me
EPG	17:25	02:30	Come Dine with Me
EPG	18:00	02:30	Come Dine with Me
EPG	18:35	02:30	Come Dine with Me
EPG	19:05	02:30	Come Dine with Me
EPG	19:35	02:30	Channel 4 News
EPG	20:05	02:30	Marvel's Agents of S.H.I.E.L.D.
EPG	21:00	01:00	Stonehenge Walking Thru It
EPG	22:00	01:50	Killing Kennedy
EPG	23:50	01:40	Devil
EPG	01:30	00:45	Stand Up for the Week
EPG	02:45	00:35	Paddy's TV Guide
EPG	03:00	02:10	Hollyoaks Omnibus
EPG	05:40	00:40	90210
EPG	05:50	00:55	Deal or No Deal
EPG	06:45	00:25	Baking Mad with Eric La...
EPG	07:30	00:25	The Hoobs
EPG	07:35	00:30	The Hoobs
EPG	08:05	01:00	The American Football S...
EPG	09:05	00:55	Everybody Loves Raymon...
EPG	09:30	00:30	Crane's Go Caribbean Fr...
EPG	10:00	00:30	Fraser
EPG	10:30	00:30	Sunday Brunch
EPG	13:30	00:30	The Big Bang Theory
EPG	14:00	00:25	The Big Bang Theory
EPG	14:25	00:30	The Simpsons
EPG	14:55	00:30	The Simpsons
EPG	15:25	00:30	The Simpsons
EPG	15:55	00:30	Gadget Man
EPG	16:25	02:10	Star Trek: V: The Undis...
EPG	18:35	01:50	Ice Age 3: Dawn of the D...
EPG	20:25	00:30	Channel 4 News
EPG	20:55	00:35	The Political Sat...
EPG	21:00	01:00	Finding Babylon's Hangi...
EPG	22:00	01:00	Homeland
EPG	23:00	00:30	Was I Something I Said?
EPG	23:30	00:25	Toast of London Bonus...
EPG	23:55	00:35	Fresh Meat
EPG	00:50	01:00	Alan Carr: Chatty Man
EPG	01:50	00:35	American Football Le...
EPG	05:45	00:25	KOTV Boxing Weekly
EPG	06:30	00:45	Countdown
EPG	06:55	00:15	River Cottage Bikes
EPG	07:30	00:25	The Hoobs

Details: Samstag, 23.11.2013, 13:25 - 14:30 (01:05) Channel 4

Heston's 80s Feast

Heston revisits the 1980s, cooking up sake champagne with edible sushi money, the ultimate toasted sandwich, and a pudding combining Viennetta and tiramisu. [5]

[4:3] [stereo] [eng]

Send to DVR Prelook

21 EPG - the electronic program guide:

This window displays the broadcasting events. After selecting an event, more information is shown.

EPG	What's new	Timeline	TV Guide
Station	Start	Duration	Event
CANAL+ GOLF (spa)	13:30	03:00	EUROPEAN TOUR
CANAL+ OCEAN (spa)	13:55	00:30	MUNDOS DE AGUA
PLAYBOY TV	14:00	00:30	BOARDING PASS
NAT GEOGRAPH (spa)	13:44	00:49	DENTRO DE ...
C+ FUTBOL (spa)	13:40	02:00	PREMIER LEAGUE
C+ DEPORTES (spa)	12:00	02:30	NBA DETROIT PISTONS ...
CALLE 13 (spa)	13:31	00:50	SUTTS (T1)
CANAL+ USA (spa)	14:00	00:30	ESPACIO RESERVADO P...
CANAL+ USA (spa)	14:00	00:30	ESPACIO RESERVADO P...
CANAL+ DECAJA (spa)	14:00	01:00	LOS ASALTA CASAS
SIFY (spa)	13:36	00:50	GRIMM (T2)
SOL MUSICA	13:16	01:44	VIDEOCLIPS SOL MUSICA
C+ DEPORTES (spa)	12:00	02:30	NBA DETROIT PISTONS ...
3555 (NAR)	13:35	01:00	Dinner Date
Channel 4 (eng)	13:25	01:05	Heston's 80s Feast
Channel 4	13:25	01:05	Heston's 80s Feast
Channel 4	13:25	01:05	Heston's 80s Feast
Channel 4	13:25	01:05	Heston's 80s Feast
Film4 (eng)	14:00	01:50	Son of the Mask
Film4 +1 (eng)	13:00	02:00	The Fighting Kentuckian
More4 +1 (eng)	14:00	01:05	Time Team
64+1 (eng)	14:05	00:30	Rules of Engagement
64+1 (eng)	14:05	00:30	The Mindy Project
Channel 4 +1 (eng)	13:55	00:30	The Simpsons
Channel 4 +1	13:55	00:30	The Simpsons
Channel 4 +1	13:55	00:30	The Simpsons
Channel 4 +1	13:55	00:30	The Simpsons
Channel 4 +1	13:55	00:30	The Simpsons
More4 (eng)	13:10	01:05	Time Team
RTE One	14:05	00:40	RTE News
RTE TWO	14:00	00:25	Home and Away
TG4	14:00	01:00	Bonanza
TV3	12:30	03:35	Coronation Street Omni...
RTEjr	14:05	00:40	64 Zoo Lane
RTE TWO HD	14:00	00:25	Home and Away
RTE Radio 1	14:00	01:00	Saturday with Brian Don...
RTE 2FM	13:00	02:00	Mark McCabe
RTE na G	14:00	00:20	Nuacht a hAon
RTE Lyric FM	14:00	00:30	Music and Musicals
ITV (eng)	13:35	01:00	Dinner Date
ITV2 (eng)	12:55	01:50	The X Factor USA
CTV (eng)	14:00	00:45	Horrid Henry
ITV4 (eng)	13:45	00:40	Snooper Champion Of C...

Details: Samstag, 23.11.2013, 13:25 - 14:30 (01:05) Channel 4

Heston's 80s Feast

Heston revisits the 1980s, cooking up sake champagne with edible sushi money, the ultimate toasted sandwich, and a pudding combining Viennetta and tiramisu. [5]

[4:3] [stereo] [eng]

Send to DVR Prelook

EPG - the electronic program guides
This window displays the broadcasting events. After selecting an event, more information is shown.

EPG What's now Timeline TV Guide Filter All Data

Sa 23.11.	14:00	14:15	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15	16:30	16:45	17:00	17:15	17:30	17:45	18:00	18:15	18:30	18:45
SoakLife (eng)	Jimmy Swaggart				Living Waters				Donnie Swaggart								Frances and Friends			
TCM-1	My Darling Clementine				Ed Sullivan's Rock n' Roll...															
Vintage TV	Breakaway								Broadway Bonanza				Magic Moments							
Ideal World	Tefal Actify Pick of the Day				Easy Cooking with Ceramic Pans				Little Yello BlockBuster				Tefal Actify Pick of the Day				Heating Solutions Special			
Ideal Extra	Winter Cooking				Tefal Actify Pick of the Day				Heating Solutions Special				Little Yello BlockBuster				Amazing Cruise Holiday Show			
Create & Craft	Tonic Pick of the Week				Simplicity Star Bay				Stamps by Chloe				Tonic Pick of the Week				My Paper Stash Special			
Craft Extra	Create & Craft Choice																			
Inspiration	Financial Breakthrough				Victory to Victory				Steelroots Classics				7th Street Theatre				Passion Pour Dieu			
Flava	Dappy And Friends				30 Sexiest R&B Videos Ever!								Voice of Victory				Times of Refreshing			
Bismas	20 Love at Christmas Classics				Yes It's Bismas!				Boyzone Vs Take That Vs...				30 Cheesy Xmas So Bad But So...							
Chartshow Dance	@CSDanceTV Top 10: Most Tweeted				Big Tunes In The Mix				In The Mix				In The Mix				Back To The Old Skool			
True Christmas	Must Be Santa								The Christmas Pageant								Ms Scrooge			
True Movies 2	A Grandpa For Christmas								The Night They Saved Christmas								A Hobo's Christmas			
Tiny Pop	Timothy Goes to School				Justin Time				Franklin And Friends				Strawberry Shortcake: Berry...				Milly Molly			
BuzzMusic	Goodbye A.S.				But Big ...				But Big Ones				Hottest Guys Right Now!				But Big Ones			
POP	The Smurfs				Oggy A...				Oggy A...				Oggy A...				Scaredy Squir...			
Kix	Power Rangers Dino Thunder				Power Rangers Operation Over...				Power Rangers Operation Over...				Power Rangers Ninja Storm				Power Rangers Ninja Storm			
The Vault	20 Sing-Along Karaoke Favourites!				Gimme More...Pop!				98 Degrees...Who Remembers ...				Yummy Mummy: Jessica Sim...				Twerk Miley It's Ya 21st!			
PopGirl	Zoe L				Zoe L				Sabrina The Teenage Witch				What's Up Warthogs				Life With Derek			
Chart Show TV	2013's Hottest 100!																			
True Ent	The Waltons								The Waltons								I'll Be Home For Christmas			
CBS Drama	Touched by an Angel								Touched by an Angel								A Season In Purgatory			
Babestation	Masti Chat																			
Psychic Today	Psychic Today												Psychic Today							
Information TV	Teleshopping				Teleshopping				Teleshopping				Teleshopping				Teleshopping			
Food Network	Barefoot in London				A...				Barefoot Contessa - Special				A...				Guy's Big Bite - Special			

Details
Samstag, 23.11.2013, 12:30 - 15:30 (03:00)
CANAL+ GOLF (spa)

EUROPEAN TOUR

'South African Open Championship, Jornada 3' T2014 C+ Golf 523 22:00 C+GolfHD 523 22:00
PRID: 1124056
SHID: 30491538

Send to EPG Prefbook export EPG OK

EPG - the electronic program guides
This window displays the broadcasting events. After selecting an event, more information is shown.

EPG What's now Timeline TV Guide Search

Samstag, 23. November 2013 Current Time 30 150 Hide empty Channels

Search	cel 4	Film4 (eng)	Film4 +1 (eng)	More4 +1 (eng)	cel 1	E4+1 (eng)	E4 (eng)	Channel 4 +1 (eng)	Channel 4 +1	Channel 4 +1	Channel 4 +1	Channel 4 +1	Channel 4 +1
ASTRA2 810													
Video 735													
Tele... 9													
TVP1													
TVP2													
TVP INFO													
TVP HD (pol)													
TVP Polonia													
TVP Sport													
TVP Kultura...													
TVP Seriale...													
TVP Rozryw...													
Tele... 1													
TVP Historia													
unl... 25													
DIGL... 3													
Dig... 1													
Play... 1													
NA... 1													
CPD1 1													
CPD2 2													
CL13 1													
PRL 2													
DIGL... 1													
BabyB 5													
RS... 150													
Watch HD (...)													
3855 (NAR)													
ITV HD (NAR)													
ITV HD (NAR)													
Channel 4 (...)													
Channel 4													
Channel 4													
Channel 4													
Channel 4													
Film4 (eng)													
Film4 -1 (e...													
More4 +1 (...)													
cel 1													
E4-1 (eng)													
E4 (eng)													
Channel 4 ...													
Channel 4 +1													
Channel 4 +1													
Channel 4 +1													

Details

14. Channel scan

15. The channel list editor can be used to edit each entry individually

16. The DiSEqC protocols 1.0, 1.1, 1.2 and 1.3 are all supported

17. Even individual DiSEqC command strings can be entered

18. Thanks to DiSEqC 1.3 support, a DiSEqC motor can easily be controlled

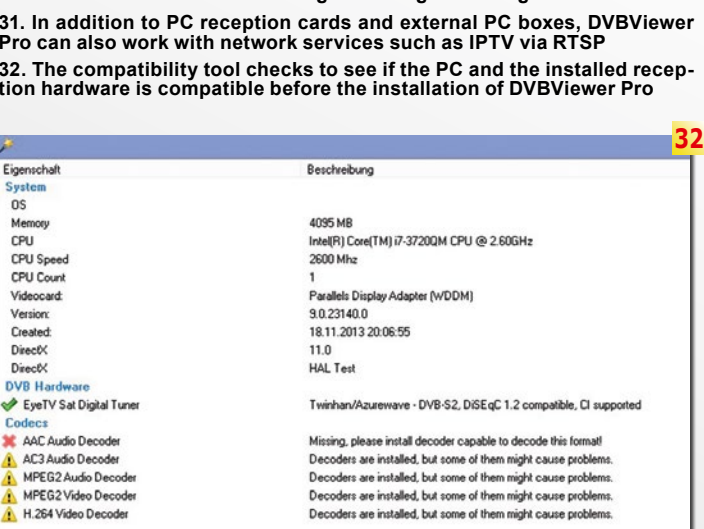
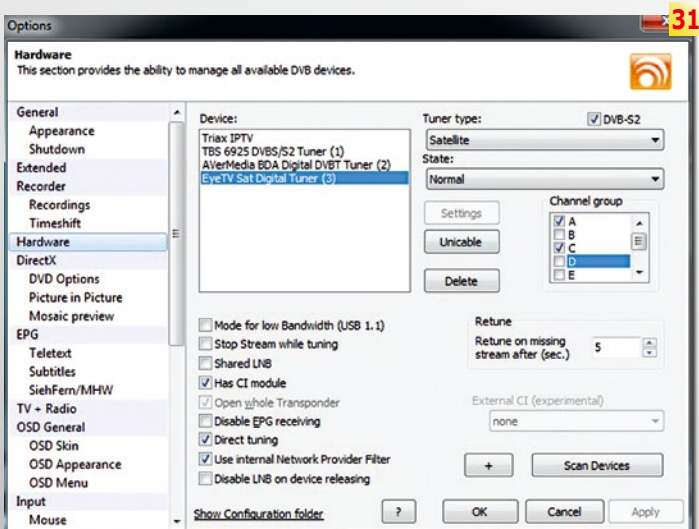
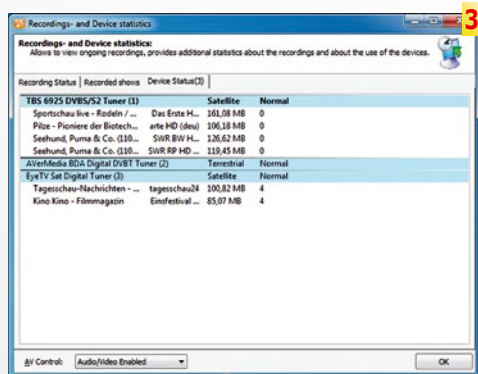
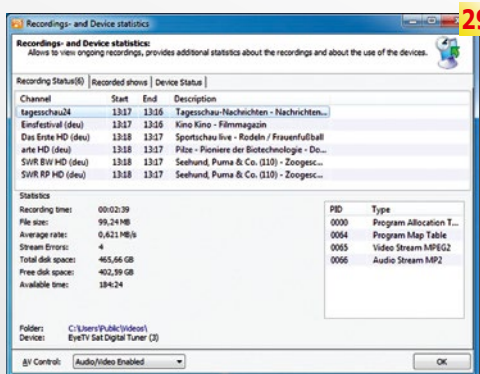
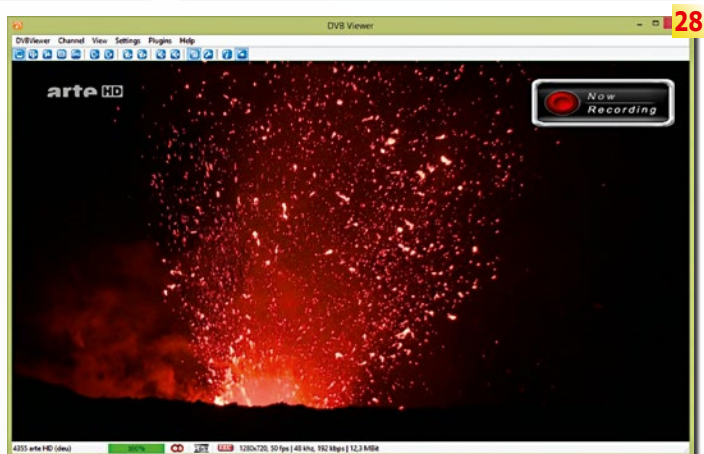
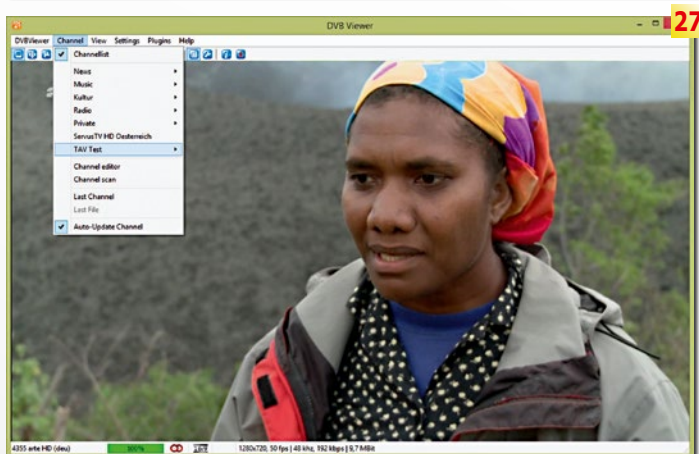
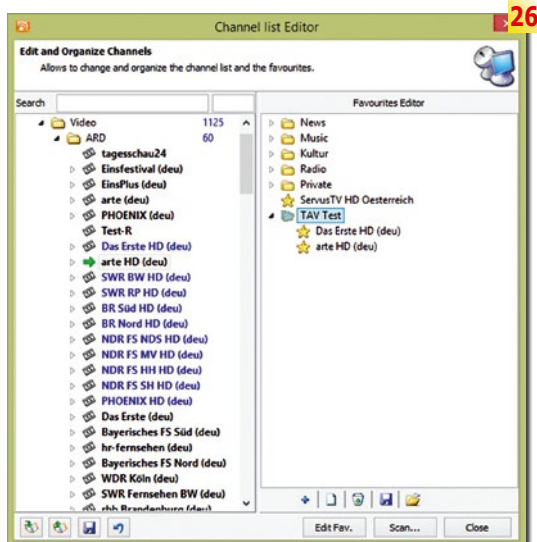
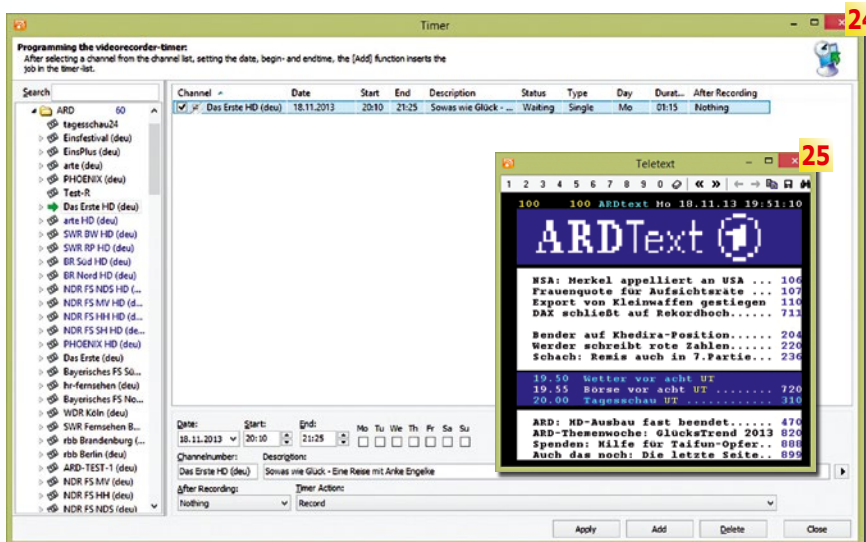
19. List of preprogrammed satellites and transponders

20. EPG overview of a single channel

21. EPG overview of all currently running programs

22. EPG overview in Timeline mode

23. EPG overview in TV Guide mode



24. Timer recordings can easily be programmed and also, if desired, with numerous playback functions
25. The integrated teletext decoder
26. New Favorites folders can be created and filled with channels
27. The Favorites folders appear directly in DVBViewer Pro's main menu
28. Recordings in progress are shown in the status bar and also blended in via OSD after it starts
29. The recording status window shows that currently six simultaneous recordings are in progress
30. If more than one receiver is available, you can set where the individual recordings should get their signals from

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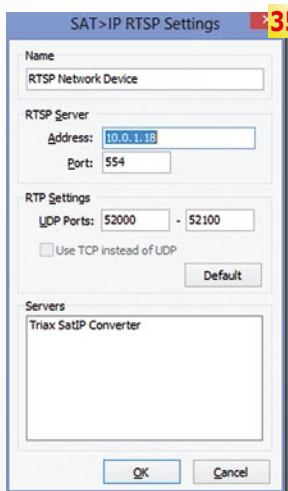
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on keywords; even timer entries can be programmed directly from the EPG with just a single click of the mouse.

One of the most important features of DVBViewer Pro is the entire PVR function with which one or more broadcasts can be recorded on the PC's hard drive. Depending on the hardware in use, multiple recordings could possibly take place at the same time. In our tests we used our single tuner DVB-S2 card to record four HD channels at the same time. If PC cards with multiple tuners were used, the maximum number of simultaneous recordings could theoretically have no limits. Mathematically, DVBViewer Pro is capable of driving 2^{32} devices at the same time but in reality factors such as CI modules for decryption as well as the maximum data transfer rate via USB or PCIB Bus limit this capability. For this test we connected a second external TV card as well as another test PC and were able to simultaneously record four HD channels from the built-in DVB-S2

single tuner card on the PCI Bus plus an additional two SD channels from the external box on the USB port. We also had no problems with the Time Shift function that lets you pause a program at any time and come back to it at a later time without missing a thing.

An exclusive feature of DVBViewer Pro is its DVB Recording Service integration. This has to do with a tool that can be downloaded for free by registered users from www.dvbviewer.com and enhances the recording functions of DVBViewer Pro. The program is installed under Windows and can therefore run independently from each logged in user. It can wake up the PC from Standby and then run preprogrammed recordings. It features an extensive web interface with access to EPG data, EPG search and recorder programming so that every function,



33. BBC1 HD reception using DVBViewer Pro via local IPTV

34. The Info bar provides not only EPG data but also status information on the current broadcaster

35. Configuration of an RTSP network service for the reception of IPTV with DVBViewer Pro

36. Reception of US TV in DVBViewer Pro through USTVNOW

37. Here a channel scan of TURKSAT at 42° east is in progress

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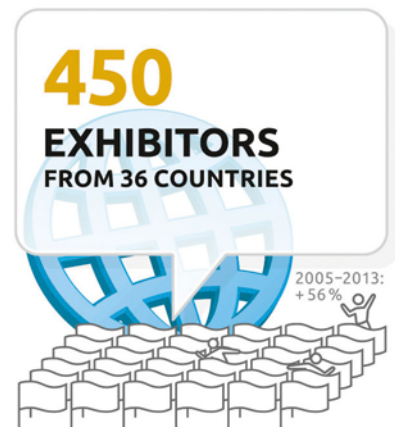
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DVB VIEWER Digital Environment

Timeline TV Guide Channel EPG Search EPG Timer Recordings UPnP Media Status Configuration Tasks

BSkyB Mittwoch, 20.11.2013 14:30

Time	Channel	Program
14:30	ITV	ITV News & Weather
15:00	ITV	Peter Andre's 60 Minute Makeover
15:30	ITV	Dickinson's Real Deal
16:00	ITV	Peter Andre's 60 Minute Makeover
16:30	ITV	Dickinson's Real Deal
17:00	ITV	ITV News & Weather
17:30	ITV	The Paul O'Grady Show
18:00	ITV	ITV News Meridian
18:30	ITV	The Paul O'Grady Show
19:00	ITV	ITV News Channel TV
19:30	ITV	ITV News at Six

39

DVBViewer Media Server v127.0.0.18089

DVB VIEWER Digital Environment

Timeline TV Guide Channel EPG Search EPG Timer Recordings UPnP Media Status Configuration Tasks

ASTRA2 BSkyB Mittwoch, 20.11.2013 Afternoon

Time	Channel	Program
15:00	ITV	ITV News & Weather
15:30	ITV	Peter Andre's 60 Minute Makeover
16:00	ITV	Dickinson's Real Deal
16:30	ITV	Peter Andre's 60 Minute Makeover
17:00	ITV	Dickinson's Real Deal
17:30	ITV	ITV News & Weather
18:00	ITV	The Paul O'Grady Show
18:30	ITV	ITV News Meridian
19:00	ITV	The Paul O'Grady Show
19:30	ITV	ITV News Channel TV
20:00	ITV	ITV News at Six

40

DVBViewer Media Server v127.0.0.18089

DVB VIEWER Digital Environment

Timeline TV Guide Channel EPG Search EPG Timer Recordings UPnP Media Status Configuration Tasks

ASTRA2 BSkyB Mittwoch, 20.11.2013

Time	Channel	Program
15:00	ITV	ITV News & Weather
15:30	ITV	Peter Andre's 60 Minute Makeover
16:00	ITV	Dickinson's Real Deal
16:30	ITV	Peter Andre's 60 Minute Makeover
17:00	ITV	Dickinson's Real Deal
17:30	ITV	ITV News & Weather
18:00	ITV	The Paul O'Grady Show
18:30	ITV	ITV News Meridian
19:00	ITV	The Paul O'Grady Show
19:30	ITV	ITV News Channel TV
20:00	ITV	ITV News at Six

41

DVBViewer Media Server v127.0.0.18089

DVB VIEWER Digital Environment

Timeline TV Guide Channel EPG Search EPG Timer Recordings UPnP Media Status Configuration Tasks

ASTRA2 BSkyB Mittwoch, 20.11.2013

Time	Channel	Program
15:00	ITV	ITV News & Weather
15:30	ITV	Peter Andre's 60 Minute Makeover
16:00	ITV	Dickinson's Real Deal
16:30	ITV	Peter Andre's 60 Minute Makeover
17:00	ITV	Dickinson's Real Deal
17:30	ITV	ITV News & Weather
18:00	ITV	The Paul O'Grady Show
18:30	ITV	ITV News Meridian
19:00	ITV	The Paul O'Grady Show
19:30	ITV	ITV News Channel TV
20:00	ITV	ITV News at Six

38. EPG display of the DVB recording service in a web browser (grid format)

39. EPG display of the DVB recording service in a web browser (list format)

40. EPG view of a broadcaster in a web browser

41. The entire EPG can be searched by keywords directly in the web browser



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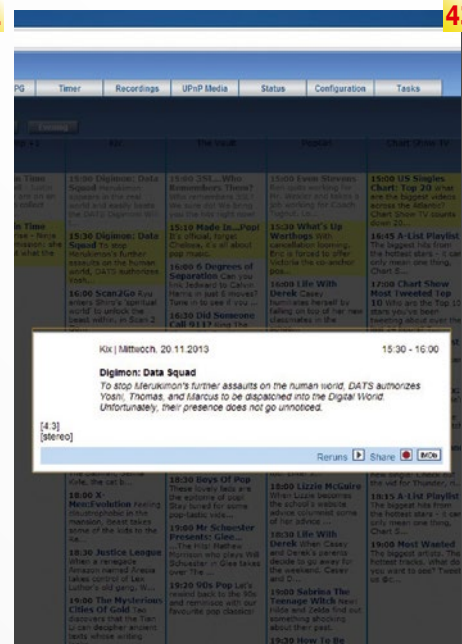
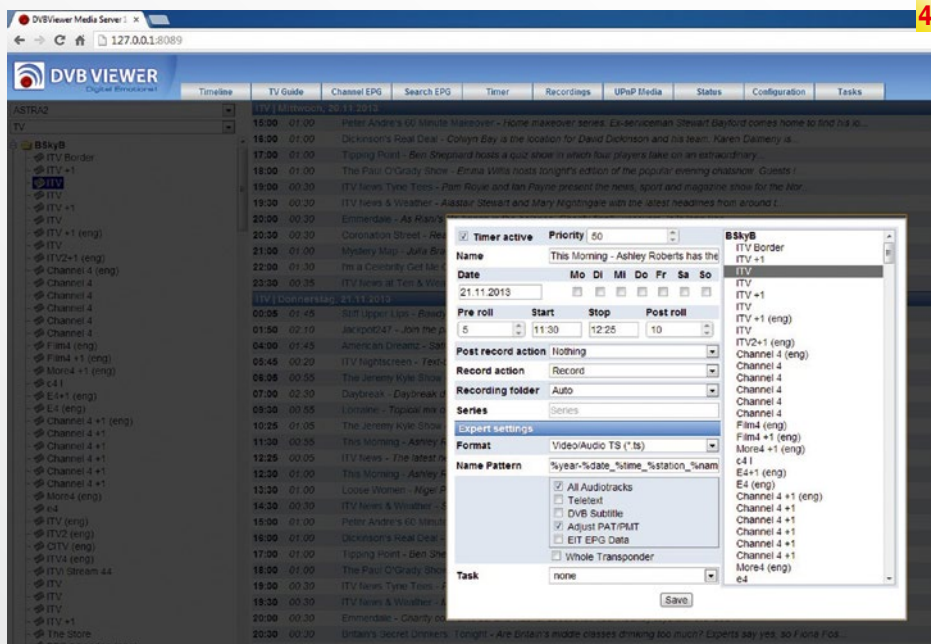
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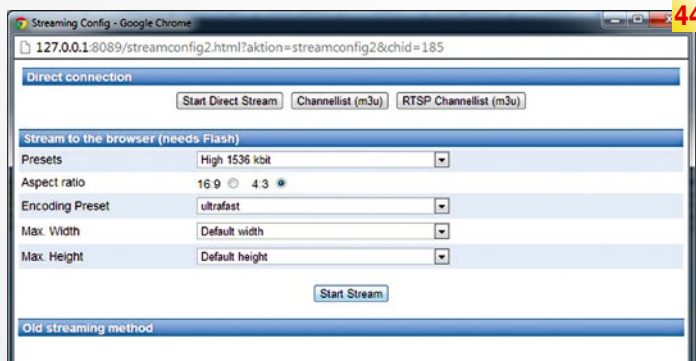
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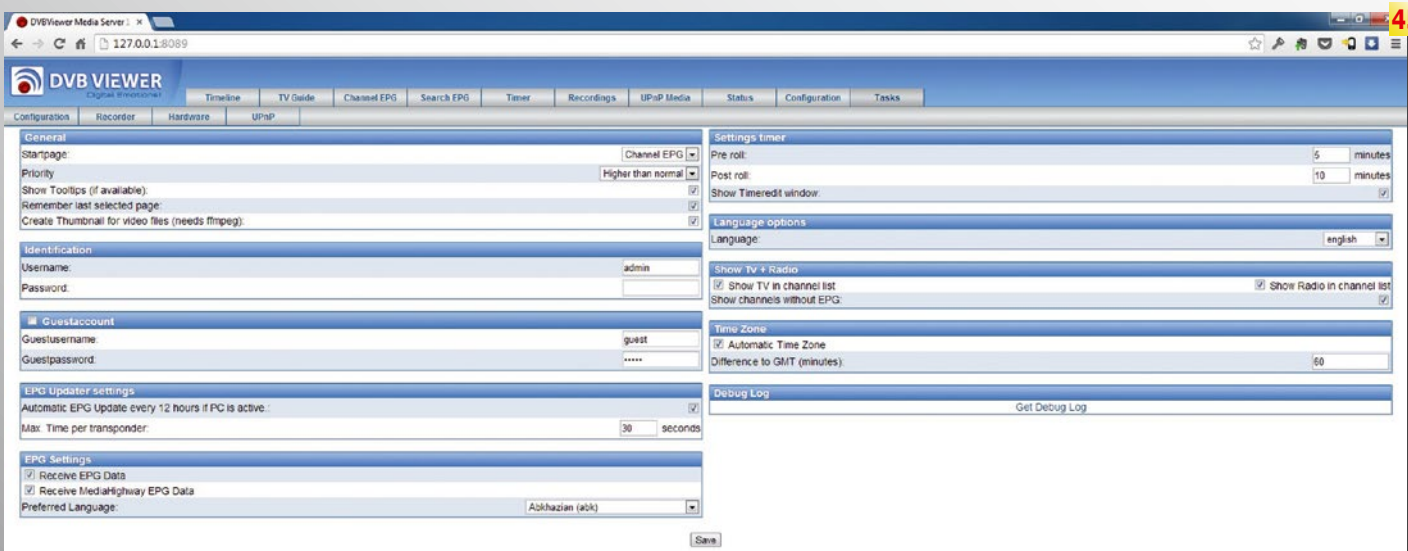
whether it's a local LAN or public Internet, can be used. It can also stream the current program via LAN to other PCs. In addition to its original function of handling preprogrammed timer recordings, it can also best be used in areas of network streaming and control via LAN and/or Internet.

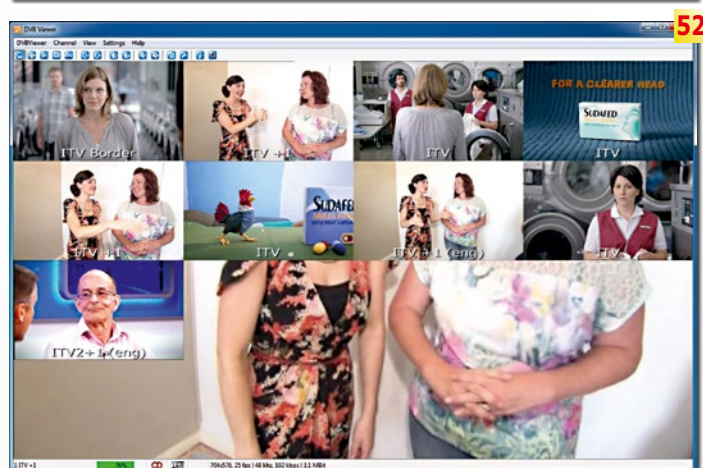
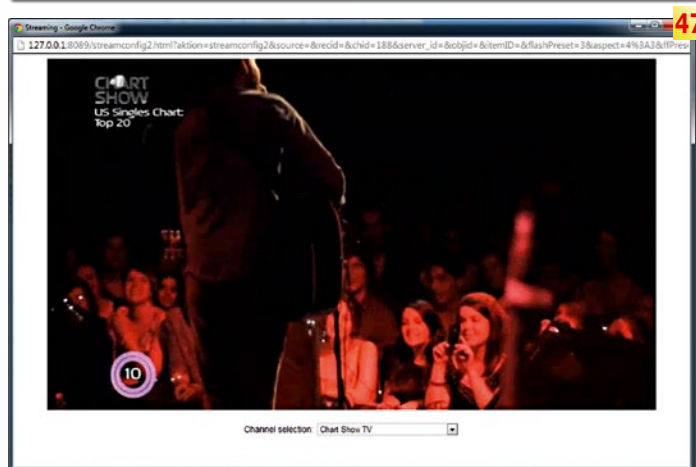
The basic concept of DVB-Viewer Pro is the separation of reception hardware and software such that the DVBViewer Pro doesn't care where the signal to be processed comes from or how it was received. The only thing is that it involves the typical standards you'd see,

for example, with cable, terrestrial antenna or satellite DVB or RTSP with IPTV reception. Especially ideal with this concept is that it's possible to have multiple reception paths simultaneously side by side. In this way, for example, one portion of a broadcast could be received through a satellite reception system while another portion lands on a PC via IPTV. For our tests we used a Triax TSS400; it routes the entire frequency spectrum of a satellite via IPTV in our local network and makes it available to us here in our test center. It worked together with DVBViewer Pro without any problems while at the



- 42. Timer programming in a web browser
- 43. Expanded EPG information in a web browser
- 44. Each channel can be streamed to another network PC
- 45. DVB Recording Service configuration
- 46. Controlling the DVB Recording Service's individual features
- 47. Streaming a channel via DVB Recording Service
- 48. DVBViewer Pro's OSD main menu
- 49. Timer programming via OSD
- 50. OSD channel list
- 51. OSD EPG
- 52. Mosaic view





same time a TV PC card and an external TV box were in operation.

DVBViewer Pro also supports the HbbTV (Hybrid Broadcast Broadband TV) standard. During our tests the HbbTV Plug-in worked perfectly with German broadcasters like ARD as well as with the British BBC or Dutch NED1. We especially liked that the HbbTV display in DVBViewer Pro functioned quickly and not with a slow

reaction time like you might see from other receivers.

The DVBViewer Pro also includes a fully-functional Media Center that can be used to play back audio and video files in nearly every possible format. Then there's DVD playback making the DVBViewer Pro a DVD player as well. There's also access to media files via UPnP. And it's this feature that held our rapt attention during our tests: it lets you access, for

example, an external network hard drive that contains thousands of songs.

In addition to all of the standard functions available in DVBViewer Pro, additional functions can be added simply through the use of its own

plug-in interface. The selection includes nearly everything from CAS emulators to practical plug-ins such as creating compatibility with the remote control systems of different manufacturers or even integrating Internet telephony via Skype.

53. OSD EPG overview of multiple channels

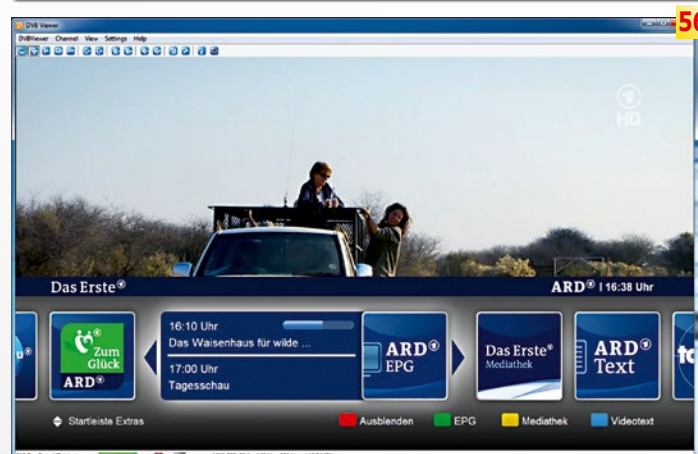
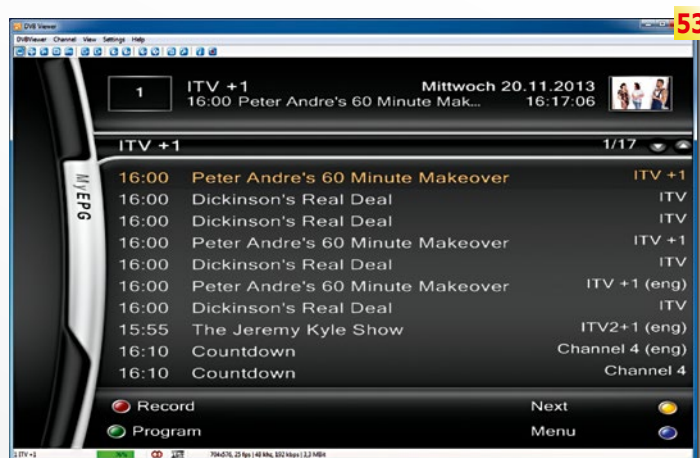
54. If HbbTV content is recognized, DVBViewer Pro blends in a corresponding symbol in the OSD

55. HbbTV content can even be accessed via the main menu

56. HbbTV from German broadcaster ARD

57. Accessing ARD's Mediathek

58. Playback of TV programming via ARD Mediathek

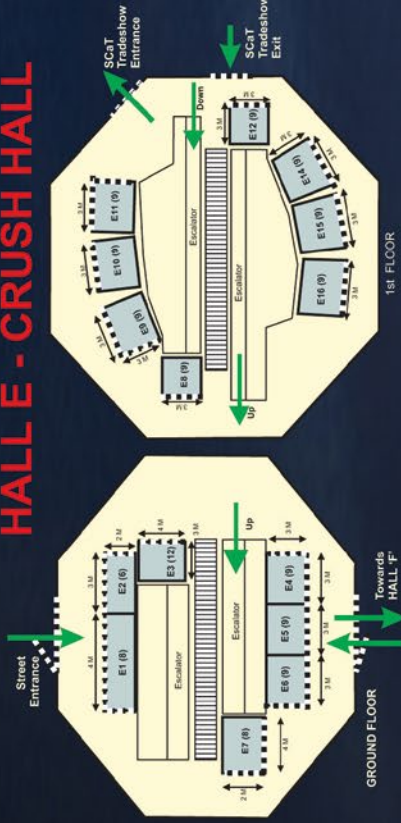


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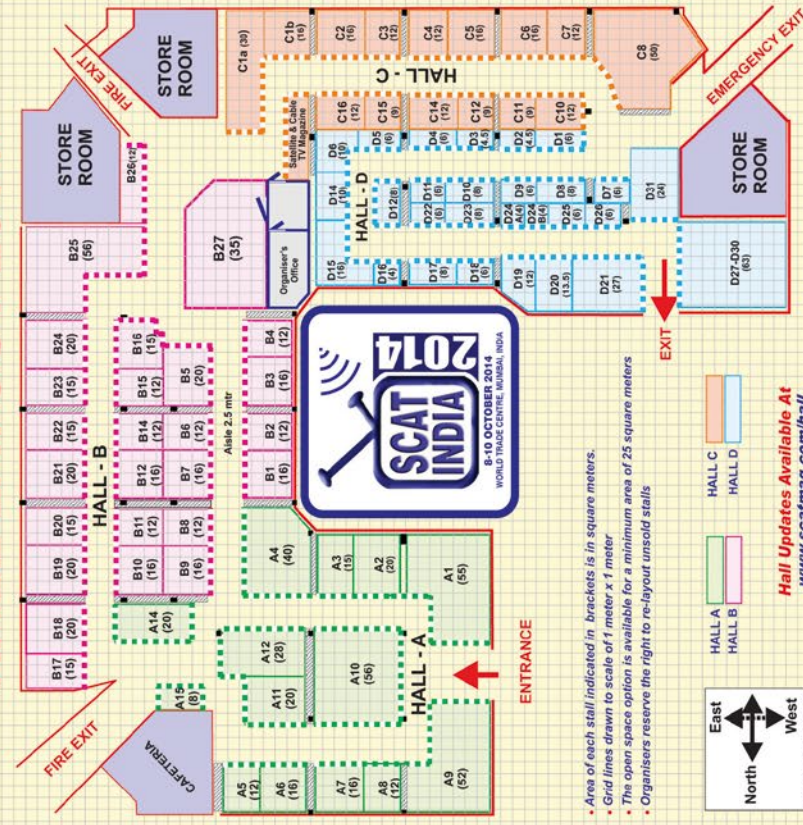
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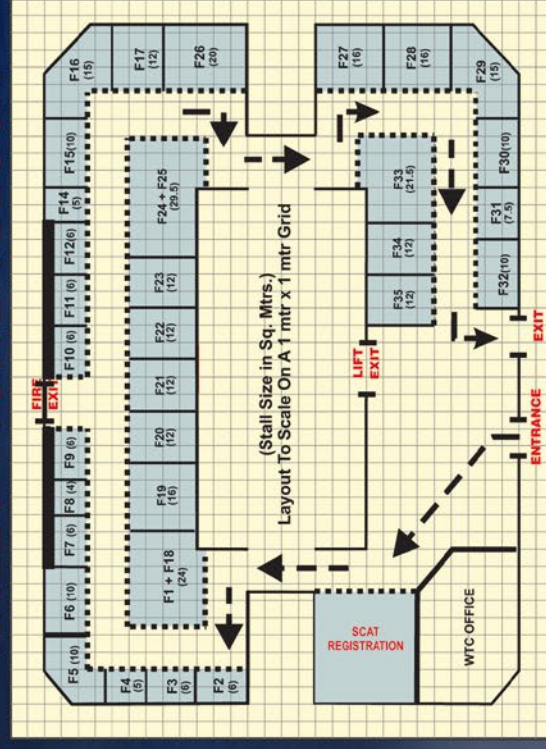
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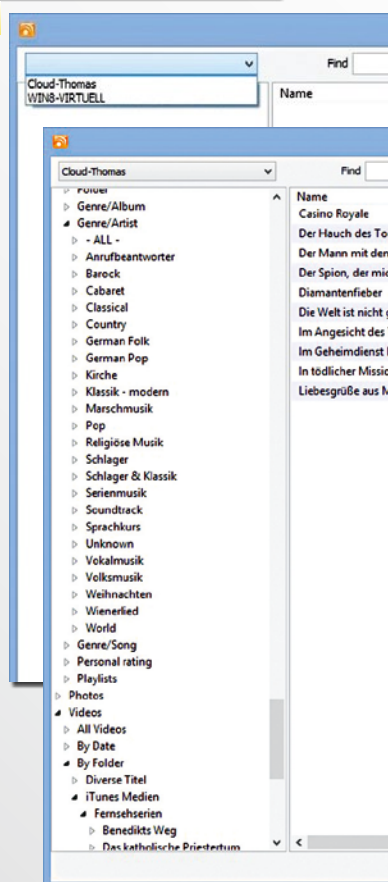
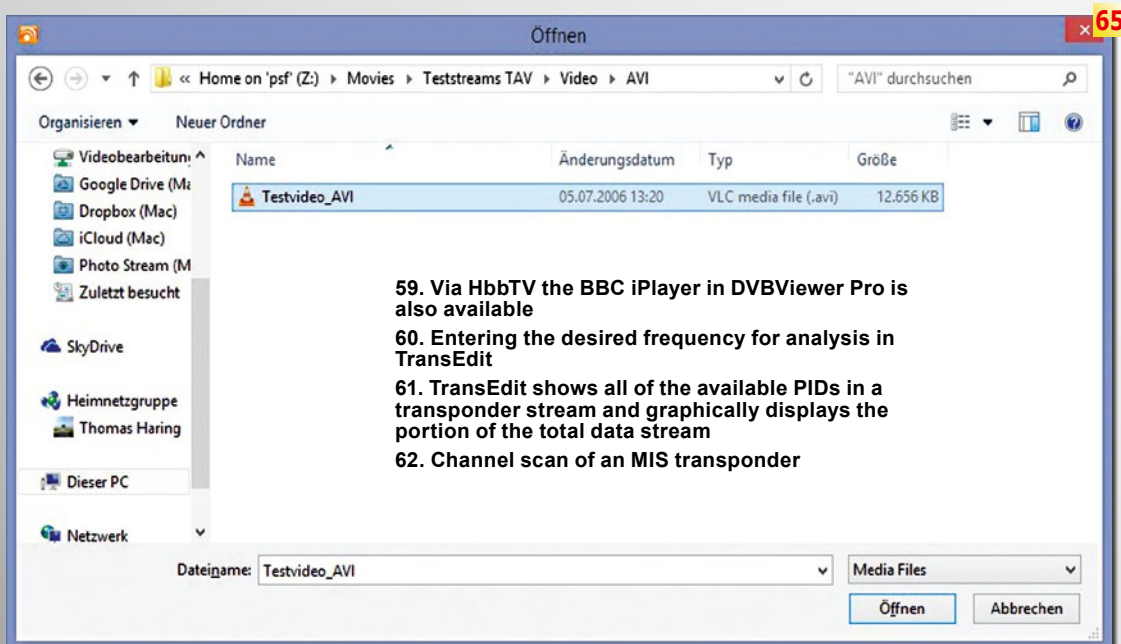
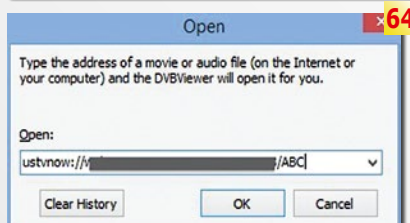
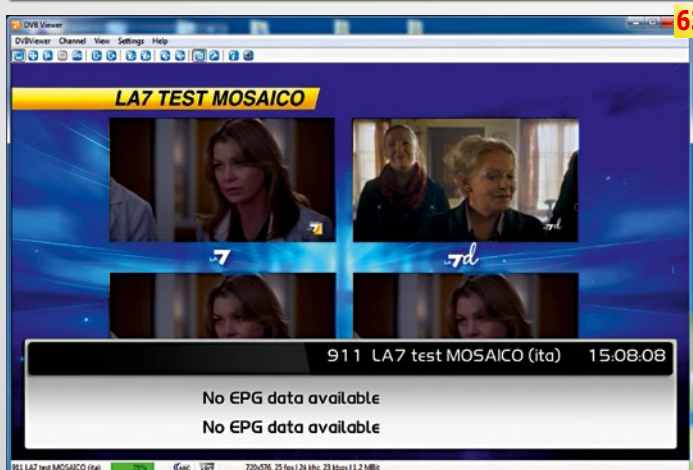
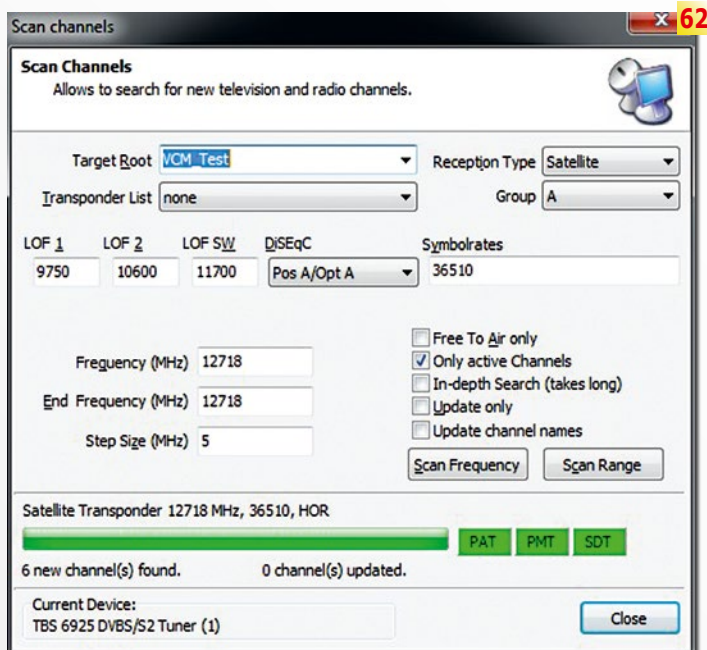
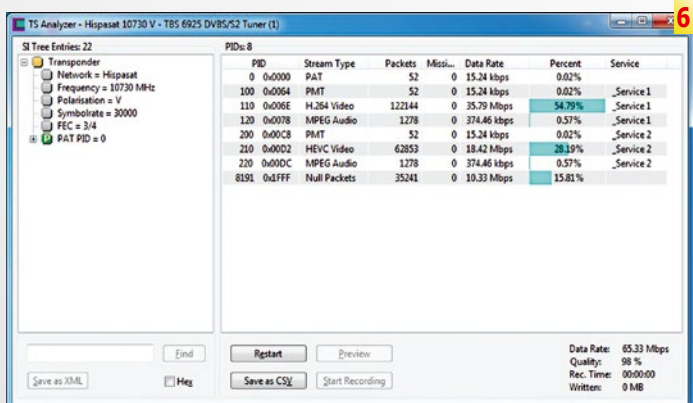
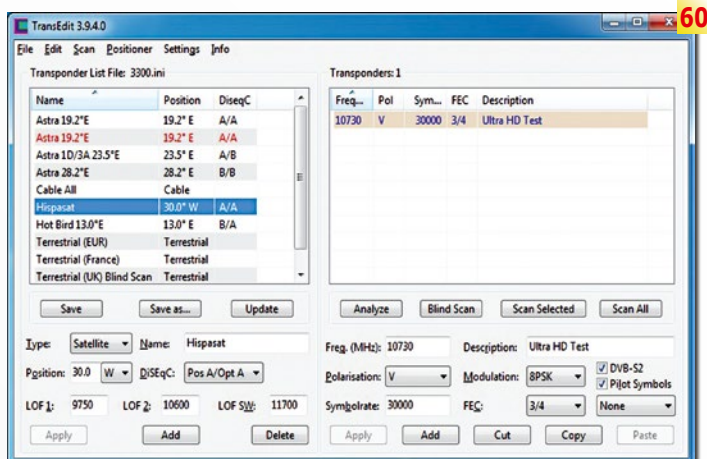
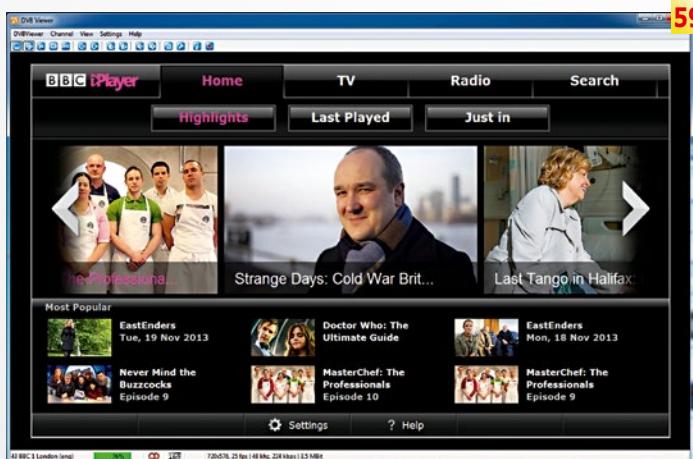
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59. Via HbbTV the BBC iPlayer in DVBViewer Pro is also available

60. Entering the desired frequency for analysis in TransEdit

61. TransEdit shows all of the available PIDs in a transponder stream and graphically displays the portion of the total data stream

62. Channel scan of an MIS transponder

Included in the DVBViewer Pro package is the TransEdit software for professionals. It can be used to analyze and locally store the entire transponder stream of a satellite. If the user enters a valid frequency or selects one from the satellite/transponder database, TransEdit will read in the reception data and display it graphically. In this way the user can not only get an overview of what TV, radio and data streams are available on the selected transponder, but he can also see how much of the total data stream it takes up. With just a few clicks of the mouse you can now store individual PIDs, channels or the entire data stream.

An especially exciting application for DVBViewer Pro is the reception of Ultra HDTV via satellite. While there are currently no compatible mass-produced receivers yet available for this, it is now possible with DVB-

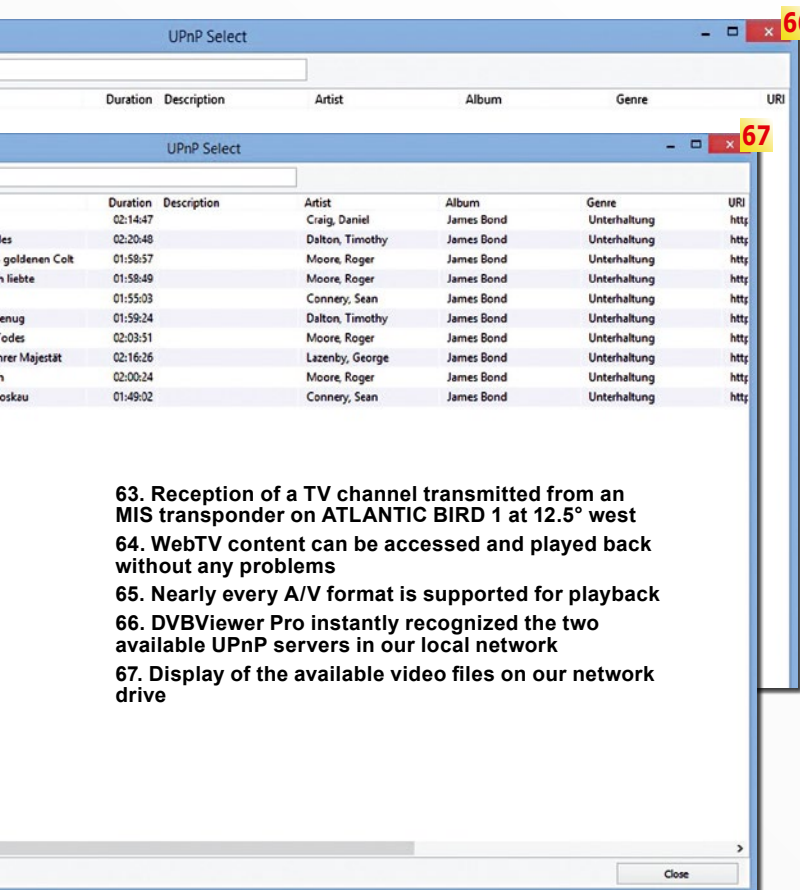
Viewer Pro to receive the first test transmissions. And it becomes even more fun if this is done using a powerful PC. With our test PC we were able to receive an HEVC (High Efficiency Video Coding - H.265) coded signal with a resolution of 3840 x 2160 pixels; it was even possible to record this super sharp picture on our hard drive. At the moment Christian Hackbart is working on DVBViewer Pro so that it will be able to simultaneously record and playback Ultra HDTV in H.265. Currently there's a test transponder on HISPASAT at 30° west on 10.730 GHz (V) that is transmitting in Ultra HDTV. But note that there are two test signals being transmitted; one Ultra HDTV signal in H.264 (this one can already be recorded and played back at the same time since it doesn't overload the CPU) and the other Ultra HDTV signal in H.265 (here DVBViewer Pro can currently

only record; it cannot play-back at the same time).

The reception of MIS (Multi Input Stream) transponders also works without any problems, for example, from ATLANTIC BIRD 1 at 12.5° west. DVBViewer Pro is not capable of selecting the desired transponder stream on its own (for that you would need a small tool from the reception card manufacturer) but afterwards it could

process and display the activated transponder stream without any difficulties.

Although we've been using DVBViewer Pro for quite some time here at the TELE-audiovision test center, even we bumped into some functions that we had never used before while preparing this test report. DVBViewer Pro is one of the most powerful software solutions for TV and radio reception on a PC.



- 63. Reception of a TV channel transmitted from an MIS transponder on ATLANTIC BIRD 1 at 12.5° west
- 64. WebTV content can be accessed and played back without any problems
- 65. Nearly every A/V format is supported for playback
- 66. DVBViewer Pro instantly recognized the two available UPnP servers in our local network
- 67. Display of the available video files on our network drive



- + • Numerous settings capabilities
- Repeatedly expandable through plug-in interface
- Six or more simultaneous recordings possible with the proper hardware
- Through the support of various remote control systems and thanks to a corresponding graphical on-screen display, DVBViewer Pro can also be controlled comfortable from your living room couch
- Ultra HDTV reception in H.265 is already integrated
- • Preprogrammed channel lists are somewhat out-of-date



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■ The front of The Lancasters apartment complex directly across from Hyde Park in London. It's here where GlobalInvacom's FibreIRS was installed to provide the TV service for each apartment.

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■ In The Lancasters court. The door with the two lamps marks the entrance. Two Concierges receive visitors and provide almost anything an owner could possibly want.

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

DeKtec
www.dektec.com

1



London is one of Europe's most loved cities. Here you can find a wide variety of entertainment, shops and business opportunities. If you're only visiting London briefly, you'd stay at one of the numerous hotels that can be found all over the city. But if you come to London more often, you'd look for an apartment, preferably near the city centre and even more preferably right alongside Hyde Park, the most popular park in London. And it's exactly here where a highly elegant building was renovated,

The Lancasters, where you'll find 77 high-end apartments that buyers could only afford if their bank account had a bunch of zeroes in it, namely to the left of the decimal point.

Originally The Lancasters was a row of 15 stucco houses that were built in the mid 19th century. The investment firm Minerva and real estate developer Northacre acquired all of the houses together, but kept the original façade and behind it built modern and unusual shaped apartments, most of which with

1. The Lancasters building sign – So finely polished you can see the reflection of the photographer.

2. In the bedroom of one of The Lancasters apartments: the TV is remote controlled from the dresser. The window in the background looks over Hyde Park and can be electronically darkened.

3. From the roof you have a spectacular view of Hyde Park – the dome in the background is the Royal Albert Hall. In the foreground you can see the feed from one of GlobalInvacom's fibre optic LNBs.

4. An uncountable number of antenna ports have been installed in every apartment of The Lancasters. In the foreground you can see a port with a jack for TV and FM/DAB as well as two satellite IF connections. Additional ports contain the connections for the Surround Sound system and the Internet.

2





a view of Hyde Park. The complex was named The Lancasters (www.thelancastershydepark.com). It is located roughly in the middle between the Lancaster Gate and Queensway underground stations.

Since this is a hyper-modern apartment complex, it stands to reason that the TV system would also be hyper-modern. Each apartment was fitted with a large number of antenna ports. "One apartment here in The Lancasters actually has 64 TV jacks", we learn from Richard Tunstall. He works for the company SMC (www.smc-uk.com) that specializes in installing nothing but the best video and audio systems. "We installed four satellite antennas for The Lancasters and distribute the signals over

seven main lines to the individual apartments", explains Richard Tunstall, who managed the installation. "With five assistants we needed three months to lay all the cable."

To guarantee the quality of the satellite signal throughout the system, SMC opted to use the fibre optic LNBs from GlobalInvacom. "The four largest apartments are fed directly with the fibre optic signals; the remaining apartments are fed with a Hybrid system. These apartments are connected via coax cable to the FibreIRS system." Naturally, the number of antenna ports in each apartment depends on the requirements of each individual owner. "Sure enough, in one of the apartments we used a multiswitch with 64 outputs and

routed cable for all 64 of those outputs such that there's an antenna port on the wall every couple of feet. In this way the apartment owner can truly place his TVs anywhere he wants in the apartment; there's always an antenna port nearby."

SMC not only installed the TV system, they also installed the speaker wires for the Surround system in each apartment. Here too the work was performed in accordance with the apartment owner's requirements. If the situation wasn't quite clear, it was better to install more antenna ports and lay more cable. "SMC has been using GlobalInvacom's FibreIRS solution since 2010. Thus far we've performed roughly 50 installations with this wonderful system", explains Richard Tunstall who adds, "Whenever we determine that the cable length of a TV system would exceed 90 meters, we almost always use GlobalInvacom's FibreRS. Only with shorter cable lengths are conventional LNBs with coax cable more cost effective most of the time." But since GlobalInvacom is currently working on more cost effective solutions, there may come a time when conventional LNBs will no longer play a role at SMC. Their first instal-



lation with the fibre optic LNB also involved the longest cable lengths: "That was 2011", explains Richard Tunstall, "A customer in Basingstoke with a large estate absolutely did not want to be able to see his satellite antennas. We had to install them 2km from his home. Obviously, the fibre optic LNB was perfect for this situation."

The FibreIRS's fibre optic technology is much more flexible and it's far easier

to take care of any cabling changes that might come about in the future.

Flexibility is a necessity especially with those customers that regularly change their minds. Cable lengths with the FibreIRS system for the most part are not a factor and attenuation calculations that are the rule when using coax cable are mostly unnecessary. GlobalInvacom has developed an ideal solution for extremely flexible satellite installations.

5. Here the fibre optic cables from the four satellite dishes on the roof are redistributed for further transmission over the total of seven main lines

6. Richard Tunstall managed the installation of the TV system in The Lancasters. Here he is showing us the central distribution centre in the basement of the building complex. He is pointing to the GlobalInvacom FibreIRS converters used to reconvert the fibre optic signals from the LNB back to a regular frequency range so that they can be further distributed by coax cable.

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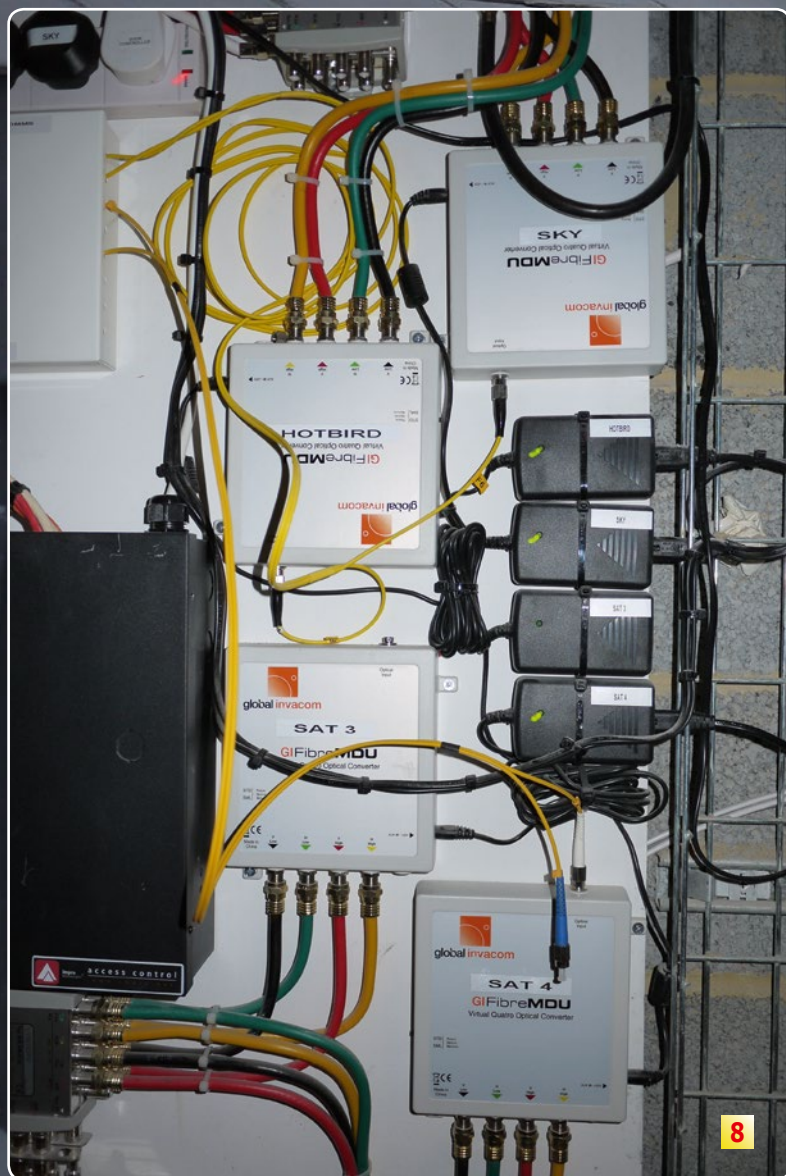
High Quality C-Band Dishes

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<http://www.cosmosat-digital.com.ar>

7

7. On the roof of The Lancasters. Here is where Richard Tunstall erected the four satellite antennas as well as the UHF antenna (pointing to the broadcaster Crystal Palace) and FM antenna for terrestrial reception. The dishes cannot be seen from the street. Small offset dishes are used to receive the satellites at 28.2E and 9.0E while 1.4-meter antennas are used to receive the satellites at 26E and 13E.

8. A look at the distribution set up for each floor. From here the fibre optic cables are further distributed.



8



■ HDTV from Dubai in Munich. Here in Luxury Suite 704 on the top floor of the Mandarin Oriental Hotel, IT Manager Mirko Menzel presents the TV channels from the PayTV provider OSN. These are the same channels that can be seen throughout the Middle East and North Africa. And it's the Arabic guests that can get these OSN channels in the best possible HDTV quality on 55" B&O TVs in the middle of Munich when they stay at the Mandarin Oriental Hotel.

■ A look at the Mandarin Oriental Hotel in Munich. The Luxury Suite 704 is the best room in the hotel and is located right under the top of the dome.



- *The best TV quality for the most discerning guests*
- *Utilizes SPAUN's line of quality products*
- *SPAUN switches permit the distribution of more than four satellite positions*
- *Focus on HDTV channels*
- *Distribution to TVs via IPTV*

HDTV in a Luxury Suite



SPAUN's Quality Products for Quality TV Installations



■ A view of the rooftops of Munich. You get a fantastic 360 degree view of Munich from the rooftop terrace. In the background are the twin spires of the Frauenkirche, one the most well-known landmarks in Munich. In the foreground you can see a section of an offset dish.



Every TV system customer wants good quality products for their setup but there's a group of customers that are doubly interested in the best possible product quality: and that would be hotels since they are themselves dependant on their customers. Luxury hotels would only be satisfied with high quality products since the guests that stay in these kinds of hotels would naturally only want the best. One of the best hotel chains in the world are the luxury hotels operated by the Mandarin Oriental Hotel Group. Some of these hotels are operated entirely by this group while some of the other hotels are operated in conjunction with partners. Either way, this hotel group places the highest value on providing the most perfect service and this includes the TV service for their guests. But how do the TV channels find their way to the high-end devices in the guest rooms?

Currently the Mandarin Oriental Hotel Group consists of 45 hotels: 19 in Asia, 14 in the Americas and 12 in Europe. The group started out with two special hotels: the Mandarin Hotel in Hong Kong that opened in 1963 and the acquisition of the Oriental Hotel in Bangkok in 1974. With this, two of the best hotels in the world now belonged to the

group upon which the owners built on: additional luxury hotels were continuously opened in the most important cities in the world. In 1990 came the Mandarin Oriental hotel in Munich that can be found in a building that was erected in 1880. This building was originally built as an opera house. Today the hotel has 73 luxury guest rooms and suites.

Mirko Menzel is the hotel's IT Manager and he tells us where the guests of this luxury hotel in Munich come from: „20% of our guests each come from the USA, the CIS countries as well as the Middle East. Roughly 5% come from China.“ For the guests that come from the USA, the hotel offers English-language TV channels; for those guests from the CIS countries, the hotel has Russian-language channels available. Especially challenging up until now has been making Arabic channels available, but not any more. „Recently we completely updated our entire TV system and setup satellite dishes for six satellite positions“, we learn from Mirko Menzel. „Now we can receive the BADR and NILESAT satellites with their numerous Arabic-language TV channels.“

Before the conversion to the new TV system, the hotel was only able to offer 180 TV channels to their guests, now

it's 264. „Naturally, we could incorporate more than 1000 TV channels but this wouldn't make any sense for our guests. We chose only the best channels in terms of content and technology. Shopping channels, for example, are not really interesting to our guests and have been omitted.“ This results in the hotel being able to offer more than 45 HDTV channels. „Each guest room is equipped with a B&O HDTV device; suites have two TV units installed.“ So the hotel has 85 TVs in operation in its 73 rooms. „The suites have big screen 55" TVs while the rooms have 33" models.“

A highlight is the inclusion of PayTV channels. Mirko Menzel: „Our guests are especially interested in sports programming. We have contracted with several PayTV providers and offer their content to our guest rooms.“ Mirko Menzel has yet another highlight to tell us about: „Since our guests come from all over the world, we pay particular close attention to their native language when they place a reservation. When they arrive at the hotel, the menu on the TV in their room is already pre-programmed for their language.“ This pleases the Arabic guests to have the TV menu in Arabic. „We can set up the

■ A look at the hotel's rooftop terrace. The satellite dishes can be seen in the background; they receive a total of six satellite positions and provide the international guests of the hotel with a huge selection of international HDTV programming for their enjoyment.



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Cable Television, Multi-Channel Satellite Broadcasting,
IPTV, Mobile TV etc.



- Latest industry trends
- Channel operator business reports
- Technology & equipment
- Media industry news

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デジタル時代のメディアビジネスマガジン
Monthly Broadband * Broadcasting * Business Magazine

B-maga

9

2013 SEPTEMBER

Interview
小牧次郎氏 スカパーJSAT(株) 執行役員常務 有料多チャンネル事業部門 放送事業本部長
Jiro Komaki, Managing Executive Officer Group President Broadcasting Business Group Multichannel Pay TV Business Group, SkyPerfect JSAT

CS Channel Focus
時代劇専門チャンネル&スカパー! Jidaigeki Senmon Channel & SkyPerfect TV!
衛星劇場 Eisei Gekijo

CS/BS/CABLE/BBの最新加入者数
Subscriber Trends for BS & CS Broadcasting, Cable, Broadband
CSチャンネル加入世帯数TOP50ランキング
Top 50 Subscriber Count CS Channel Rankings

Future Technology

ケーブルテレビの 今と未来を考える

Contemplating Cable TV Today and Tomorrow

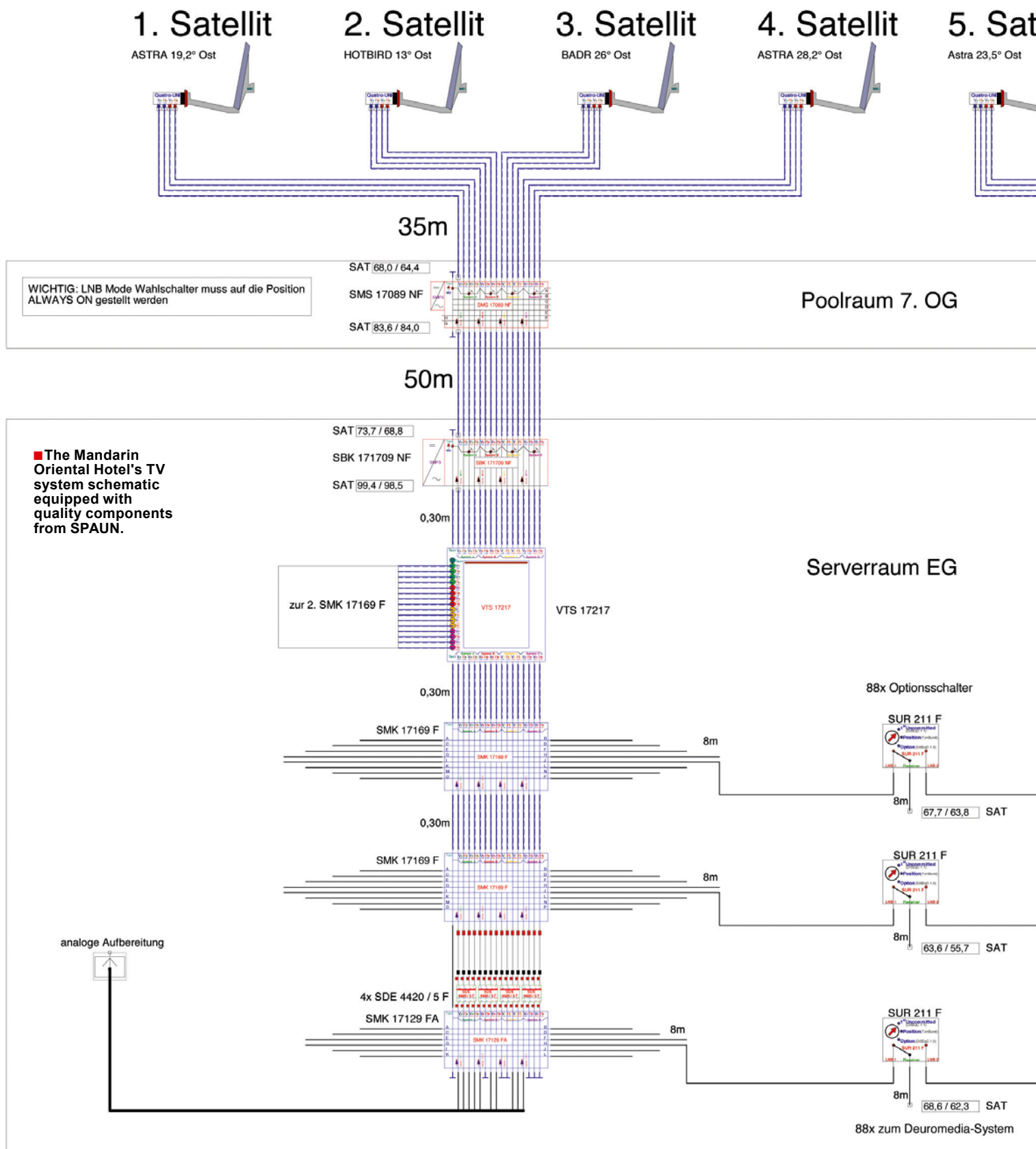
Interview 福岡 徹氏 総務省 情報流通行政局
Toru Fukuoka, Director General, Information and Communications Bureau, MIC

**ケーブルテレビ事業者 215社に聞いた
ケーブルテレビの今と未来を大調査!!**
Extended survey of cable TV today and tomorrow: 215 cable operators respond

IP-VODプラットフォームを検証 Validation of IP-VOD platforms
アクティバ/ジュビターテレコム&ジュビターエンタテインメント/ブロードメディア
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ARRIS Group / Japan Cablecast / Mediacast

Mandarin Oriental Munich, Satellitenanlage

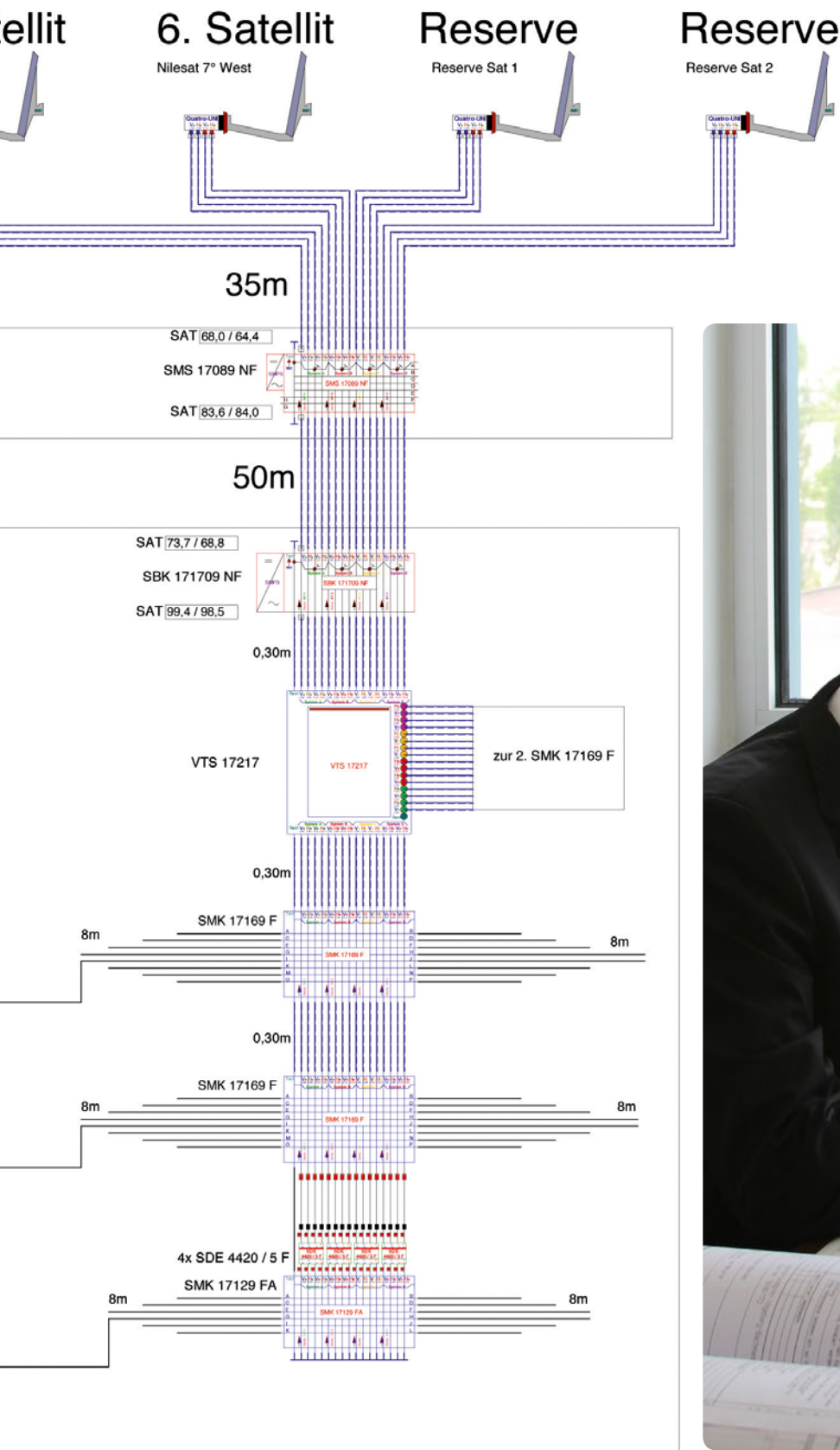


TV menus in English, Russian, Spanish and Italian."

You might be asking yourself how the hotel solved the problem of providing the TV channels from six differ-

ent satellites to each and every guest room in the hotel. The hotel found the right partner for this endeavor with the company VersaKom Service. The company's President, Ingo Wölfel, is espe-

cially familiar with this technology. He worked in VersaKom Services predecessor company since 1997. We install TV and data systems all over Germany." Some of the company's excep-



large projects is the precise preplanning that is necessary. All levels need to be calculated ahead of time so that there won't be any surprises during the installation. „Experience has shown us that only the very best quality products should be used since only then can we really stick to all of the preplanning requirements.“ It's no surprise that Ingo Wölfel has in the meantime become



■ Ingo Wölfel is the President of VersaKom Service. His company planned and implemented the hotel's TV system

tional projects included cable systems, for example, in the town of Herzberg in Brandenburg. „There we installed a fiber optic based distribution system for 1700 households.“ Another highlight

was an Internet distribution system for a college dormitory in Freiburg. „Here we connected 6000 dormitory rooms with high-speed Internet access.“

The challenge with these kinds of



very confident in SPAUN's product line: „Their reliability is unsurpassed.“ The expertise they have with large distribution systems also led to contracts with extremely discerning customers: „For example, we are the technical service provider for the Olympic Park in Munich and for the Marriot Hotel and Sports Bar in Munich.“ And now the luxury Mandarin Oriental hotel in Munich has become part of that elite group.

„The best part about the installation at the Mandarin Oriental is the reception of six satellite positions; a stand-alone multiswitch can work with four positions, but not more than that.“ The solution came with the SUR 211 F switch from SPAUN (new label: SUR 211 WSG). It involves the use of an A/B switch which is gated by the multi-switches. In this way two parallel lines can be connected together increasing the maximum number of satellite positions from four to eight. „Distribution to the guest rooms is handled by

IPTV“, explains Ingo Wölfel, „Some of the transponders are fixed on PayTV channels; the Smartcards are permanently installed there.“ The FTA channels are activated in the IPTV transponder depending on demand. „There are currently 88 transponders available but we are in the process of expanding the system to 100 transponders.“ And even though the system has been set up so that all of the 85 connected TVs can all be used at the same time, it can't hurt to have some reserve capacity available.

Mirko Menzel explains, „That is part

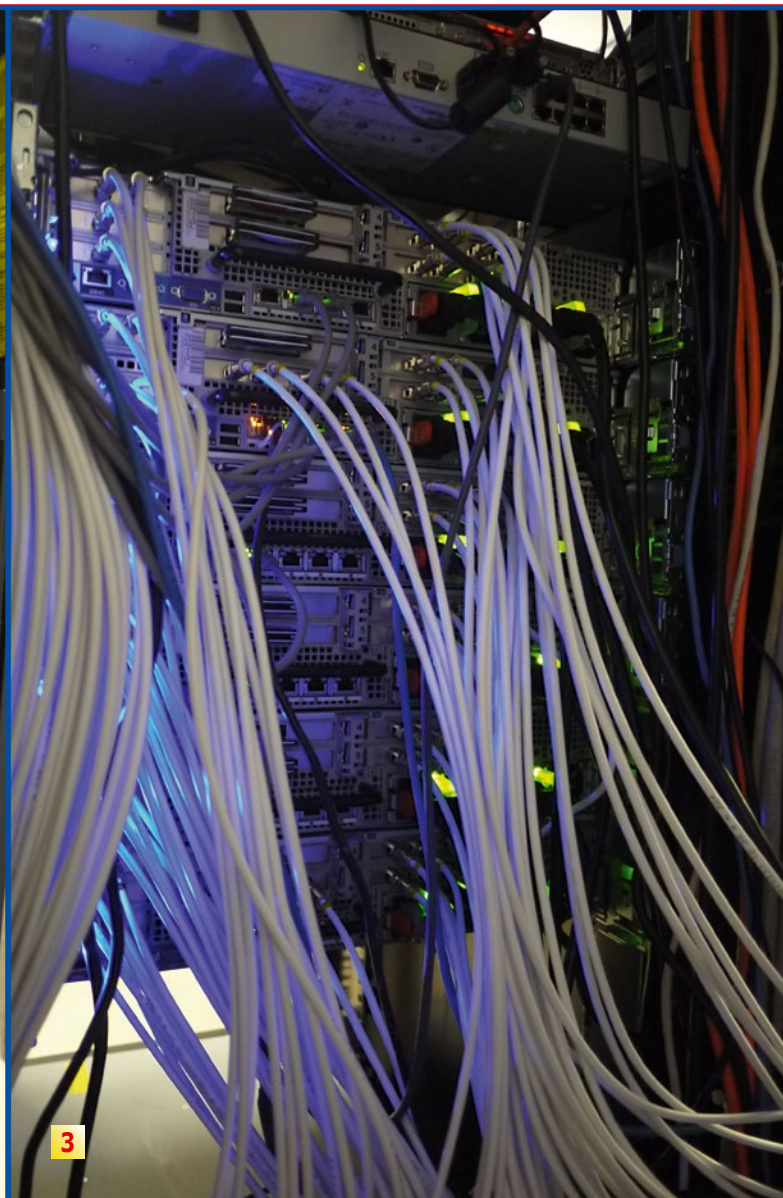
of our quality philosophy; we want to be prepared for extreme cases even if we never have to use it.“ This highlights an argument that only on second thought belongs in the Quality category: it's not enough for everything to function properly under normal circumstances. The best possible quality only makes itself known when unusual situations surface and everything still continues to function the way it's supposed to without any limitations. The SPAUN products used in the Luxury Mandarin Oriental Hotel precisely fulfill this high quality guarantee.

1. The SPAUN switches are all mounted very close together. And as you would expect with a quality system, the cable connections are also professionally installed. Even when nobody will ever see this installation except for the hotel's technicians and TELE-audiovision's editors, it's easy to see that everything was handled very professionally, not just those portions that can be seen out in the open.

2. The rack with the IPTV combiners

3. The back of the IPTV combiner. Several of the slots are fitted for PayTV and stuffed with the corresponding Smartcards.

4. The Mandarin Oriental Hotel in central Munich not far from the Hofbräuhaus and the high-end shopping area on Maximilians street (Maximiliansstraße).



The Decision Makers

in Worldwide Digital TV Industry

according to TELE-audiovision's Company Reports

Hwadar, China - Fiberglass Dishes

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CEO

Wang
Dang



Sales

Monica
Wang



Chief Engineer
Zhong
Zhiming

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- one step at a time can lead to lasting success
- extraordinary quality thanks to the use of SMC fiberglass offset, PDA and segment dishes in all sizes can be produced

- supplier of choice even for small purchasers
- guarantees very long service life of its dishes

TELE System, Brazil - Logistics and Products

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GM

Marco
Szili



Engineering

Jonathan
Gregory



R&D

Marcos
Santos

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- largest supplier of complete reception systems for Brazilian pay TV providers
- technical know-how allows swift reaction to changing market requirements

- perfectly equipped for packaging and shipping products in large quantities
- focus on Brazil as the largest market in South America

DVBViewer, Germany - PC Card Software

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Marketing

Bernd
Hackbart



Software

Christian
Hackbart

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- Light version available at no cost since 2002
- Regular software updates

- Can receive all digital TV standards
- Preconfigured for UHDTV

BSD, Brazil - Digital TV Internet Forum

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GM

Marcos
Benni

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- Largest Digital TV Internet forum in Brazil
- Reaches 400,000 readers every month

- Starting a new form of digital TV online shopping with a video shop
- Also active in IPTV and IP Radio

Elnet, Iceland - Distributor

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GM

Asmundur
Einarsson



Sales

Magnus
Eyjolfsson

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- can supply everything from DVB transmitters to DVB receivers
- always adapts its large range of products to meet current market demands

- believes in terrestrial and satellite DVB reception
- expects fibre-optic products to gain popularity in near future

GlobalInvacom, UK - Fibre Optic Products

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Business Development

Gary
Stafford



Sales Director

Ivan
Horrocks



Technical Support

Matt
Presdee

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- Invented the new satellite IF transmission technology via fibre optics
- Five million FibreIRS connections are expected by 2015
- Through continuous technological improvements FibreIRS can now serve more than 4000 connections from a single LNB; for professional applications it's several 10,000's

- 14 Multiple R&D Engineers are consistently working to improve the system
- Northern Europe, North Africa and Southeast Asia are the largest FibreIRS markets

Oreind, Iceland - Distributor

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Founder

Baldur
Sveinsson



Founder

Sigurour
Gunnarsson

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- successful in the home electronics segment
- all antenna installation material always in stock

- focus on IPTV for sustained business development
- sizable repair shop for home electronics equipment

Deviser, China - Signal Analyzer



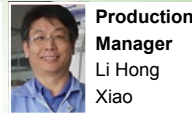
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President
Zhong
Changan



MD
Liu Lian
Jun



**Production
Manager**
Li Hong
Xiao



Sales
Jason
Wu



www.TELE-audiovision.com/TELE-audiovision-1307/eng/deviser.pdf

- new company headquarters streamlines production and administration at a single site
- expansion of a dedicated repair and logistics centre in and for Europe

- strong growth in export markets
- state-of-the-art test benches for EMS and overvoltage protection

Dexin, China - Digital TV Head-ends



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GM
Sun
Yu



www.TELE-audiovision.com/TELE-audiovision-1307/eng/dexin.pdf

- Established in 1994 in Chengdu
- Specializes in professional tv head-end equipment

- 50% of their production is exported
- Intense quality controls

Forcetek, China - IPTV Solution Provider



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 Whol
 Shop
☒ Serv



Sales
Ren
Nan



Marketing
Lan
Haidong



www.TELE-audiovision.com/TELE-audiovision-1307/eng/forcetek.pdf

- offering technically mature and fully-fledged IPTV solutions
- large Chinese movie provider as showcase customer and shareholder

- small-scale IPTV systems can be realised on a tight budget
- excellent video quality thanks to P2P technology

Tianditong, China - Antennas



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GM
Bang Xian
Peng



**Production
Manager**
Bang Xing
Peng

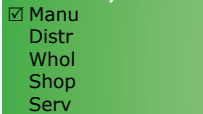


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- uses state-of-the-art production machinery
- fully automatic quality control during the production process
- volume production of dish sizes from 45 to 180 cm

- ready for production of large quantities at short notice
- environmentally-friendly production according to international standards

ELDTEC, Brasil - Dish, Antennas and Cables



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**Sales
Manager**
Jefferson
Cruz



www.TELE-audiovision.com/TELE-audiovision-1305/eng/eldtec.pdf

- Large market coverage within Brazil
- OEM production for other brand names

- Concentration on just a few product series
- Also offers antennas for 2.4 and 5.8 GHz (WiFi)

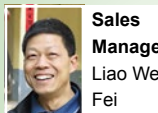
LIANXING, China - Satellite Dishes



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**Product
Manager**
Wen Liang
Yuan



**Sales
Manager**
Liao Wen
Fei



www.TELE-audiovision.com/TELE-audiovision-1305/eng/lianxing.pdf

- using only top-quality materials
- individually checking each single component

- offering antennas for the C and Ku bands
- very successful on the Japanese market

Jiuzhou, China - Android Receivers



☒ Manu
☒ Distr
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**Product
Manager**
Yongjun
Zhang



www.TELE-audiovision.com/TELE-audiovision-1303/eng/jiuzhou.pdf

- Develops receivers with complex features
- Installation of Apps on a limited basis
- Android system requires higher quality components that results in

- higher costs
- Android is well-suited for private users but only limited for cable network operators

Sat-Link, China - Signal Analyzers



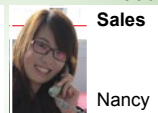
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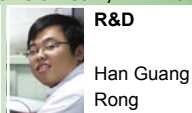
GM
Qing
Zhang Lin



Project
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Huang



Sales
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R&D
Han Guang
Rong

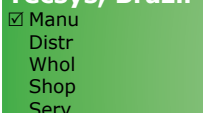


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- Only five years on the market
- Focusing on the signal analyzer product group
- Offers signal analyzers in four function classes and four price classes

- Optimizes signal analyzers for every region
- Brand new: combo analyzers for DVB-S2 and T2 with fast spectrum display

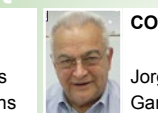
Tecsys, Brazil - Professional Equipment



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CEO
Jose Marcos
Freire Martins



COO
Jorge Alberto
Ganuza



Production
Adilson da
Silva



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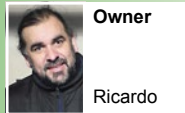
- Very good operational organization
- Concentration on professional satellite reception products

- In-house development department
- IRD is their success product

Cosmosat, Argentina - Satellite Dishes



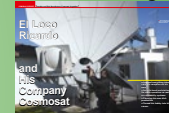
- ✓ Manu
- ✓ Distr
- ✓ Whol
- ✓ Shop
- ✓ Serv



Owner
Ricardo

- Learned everything about satellite reception on his own
- Installs head end stations for cable operators as well as community systems

www.TELE-audiovision.com/TELE-audiovision-1301/eng/cosmosat.pdf

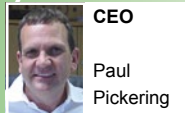


- Planning his own dish production
- Turned his hobby into his career

Horizon, UK - Signal Analyzers



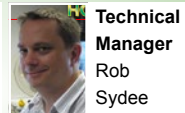
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- ✓ Serv



CEO
Paul Pickering



Technical Director
Paul Hardcastle



Technical Manager
Rob Sydee

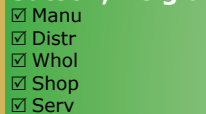
- Numerous new products for new DVB sectors
- Exports to every country as an OEM and under their own name
- Focusing expansion to emerging countries such as South Africa and in

www.TELE-audiovision.com/TELE-audiovision-1301/eng/horizon.pdf

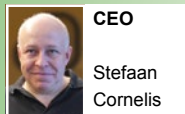


- Specializes in easy to use analyzers for installers

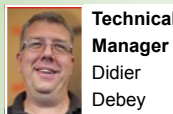
Satson, Belgium - HDMI



- ✓ Manu
- ✓ Distr
- ✓ Whol
- ✓ Shop
- ✓ Serv



CEO
Stefaan Cornelis



Technical Manager
Didier Debey

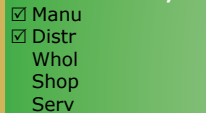
- Conquers the new HDMI distribution niche with their specialized products
- Conceives their own HDMI products

www.TELE-audiovision.com/TELE-audiovision-1301/eng/satson.pdf

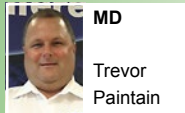


- Distribution of HDTV signals in private homes with HDMI Extenders
- Compatible with coaxial cable as well as with Ethernet cables

Antiference, UK - Antenna and HDMI



- ✓ Manu
- ✓ Distr
- ✓ Whol
- ✓ Shop
- ✓ Serv



MD
Trevor Paintain



Sales
Arnold Boeijen

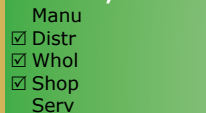
- Manufacturing TV antennas since 1937
- Provides all the components needed for TV reception
- Expanding into HDMI distribution, as well as wireless solutions

www.TELE-audiovision.com/TELE-satellite-1211/eng/antiference.pdf



- Expanding distribution network to the European market
- Offers their own products as OEM and private label

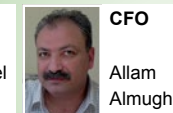
USATel, Brazil - Distributor



- ✓ Manu
- ✓ Distr
- ✓ Whol
- ✓ Shop
- ✓ Serv



MD
Jose Manuel Pereira



CFO
Allam Almughrablin

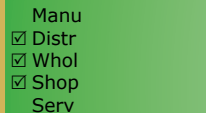
- Imports all of its products from China
- Optimized assortment for digital TV needs in Brazil

www.TELE-audiovision.com/TELE-satellite-1211/eng/usatel.pdf

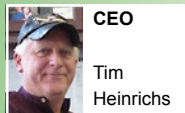


- Sells and ships almost exclusively to end users
- Expanding into new business segments such as WLAN and IPTV

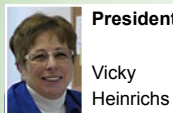
DMS International, USA - Distributor



- ✓ Manu
- ✓ Distr
- ✓ Whol
- ✓ Shop
- ✓ Serv



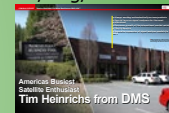
CEO
Tim Heinrichs



President
Vicky Heinrichs

- Always working enthusiastically on new products
- Special focus on signal analyzers for the semi-professional
- Enormous growth of the international market outside of North America

www.TELE-audiovision.com/TELE-satellite-1209/eng/dms-international.pdf



- Innovative expansion of signal analyzer models for 2012

Topsignal, China - Satellite Dishes



- ✓ Manu
- ✓ Distr
- ✓ Whol
- ✓ Shop
- ✓ Serv



Chairman
Zongbao King



GM
Chaofeng Ge



Sales
James You

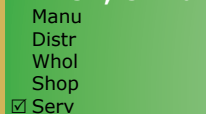
- OEM delivering exclusively to Wholesalers
- Specializes in large production quantities
- Produces millions of satellite dishes and LNBs

www.TELE-audiovision.com/TELE-satellite-1209/eng/topsignal.pdf

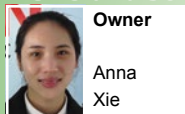


- Majority of shipments go to South America
- Expanding product palette to include high-quality LNBs and VSAT

DVBCN, China - Internet News and Job Forum



- ✓ Manu
- ✓ Distr
- ✓ Whol
- ✓ Shop
- ✓ Serv



Owner
Anna Xie



Chief Editor
Victor Ho

- Known by every digital TV company in China
- Provides all information regarding digital TV
- Expanding in the areas of recruitment and software development

www.TELE-audiovision.com/TELE-satellite-1207/eng/dvbcn.com.pdf



- Focusing in future technologies such as OTT and IPTV
- Working on international expansion



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without compromise



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Each tube has been specially selected to provide the best possible sound experience

The result? Sound quality that will take your breath away!



SVEC, China - Satellite Dishes

www.TELE-audiovision.com/TELE-satellite-1207/eng/svec.pdf

- ☒ Manu
- ☐ Distr
- ☐ Whol
- ☐ Shop
- ☐ Serv



CEO

Wang
Duo



Sales

Becky



- Large investment in Quality Assurance
- Expanding VSAT and Ka-Band production

- Opening a new fully automatic satellite dish production line
- Focusing on top-of-the-line Quality dishes

TSReader, USA - Analyzer Software

www.TELE-audiovision.com/TELE-satellite-1207/eng/tsreader-rod-hewitt.pdf

- ☒ Manu
- ☐ Distr
- ☐ Whol
- ☐ Shop
- ☐ Serv



Owner

Rod
Hewitt



- Wrote one of the most successful stream reader programs
- Developed a technical solution to archive TV channels for 'Internet Archive'

- Working on IPTV application programs
- Planning on a program for OCR recognition of BBC's EPG data

Hypex, UK - Distributor

www.TELE-audiovision.com/TELE-satellite-1205/eng/hypex-icencrypt-uk.pdf

- ☐ Manu
- ☒ Distr
- ☐ Whol
- ☐ Shop
- ☐ Serv



MD

Neal



- Ships large dishes to Great Britain and Europe
- Offers successful product lines from ICECRYPT and GLOBALINVACOM

- Low prices thanks to minimal overhead costs
- Consistent sales despite pricing pressure

Ricks Satellite, USA - Distributor

www.TELE-audiovision.com/TELE-satellite-1205/eng/ricks-satellite-azbox.pdf

- ☐ Manu
- ☒ Distr
- ☒ Whol
- ☒ Shop
- ☐ Serv



Owner

Rick
Caylor



Owner

Rick
Caylor



- celebrates its 10th anniversary in 2012
- distributes AZBox's receivers in North America

- is an enthusiastic satellite feedhunter
- sees a good future for the FTA market in North America

StelliteGuys, USA - Internet Forum

www.TELE-audiovision.com/TELE-satellite-1205/eng/satelliteguys.us.pdf

- ☐ Manu
- ☐ Distr
- ☐ Whol
- ☐ Shop
- ☒ Serv



Owner

Scott
Greczkowski



- Provides assistance with technical satellite reception questions
- Founded by Scott as a non-profit forum
- All advertising income is reinvested in better technology

- New is the use of the forums through Customer Service employees of digital TV companies

Sowell, China - IPTV Receivers

www.TELE-audiovision.com/TELE-satellite-1205/eng/sowell-iptv.pdf

- ☒ Manu
- ☐ Distr
- ☐ Whol
- ☐ Shop
- ☐ Serv



GM

Eagle
Chain



- Already operating the first IPTV project
- 3D planned for the future

- Integration of TV reception with IPTV
- 60% of all Sowell receivers are already HD

Wadt, Brazil - Headends

www.TELE-audiovision.com/TELE-satellite-1205/wadt-brazil.pdf

- ☒ Manu
- ☒ Distr
- ☒ Whol
- ☐ Shop
- ☐ Serv



Owner

Neide
Wadt



Technical Director

Joao
Wadt



- Involved in HF for more than 60 years
- New allocation of cable licenses in Brazil opens up huge opportunities for the company

- Specialized products for cable headends
- Only ships domestically

Jiuzhou, China - Receivers

www.TELE-audiovision.com/TELE-satellite-1203/jiuzhou-ott.pdf

- ☒ Manu
- ☐ Distr
- ☐ Whol
- ☐ Shop
- ☐ Serv



Vice Marketing

Jimmy
Zhang



Vice GM

Richard



- Develops Digital TV receivers optimized for OTT
- Dedicated OTT development team

- Market for OTT in Europe and North America
- Upgrade of older digital receivers possible with a software upgrade

Panodic, China - Receivers

www.TELE-audiovision.com/TELE-satellite-1203/panodic.pdf

- ☒ Manu
- ☐ Distr
- ☐ Whol
- ☐ Shop
- ☐ Serv



Founder

You Zhen
Yu



Founder

Huang
Wei



CEO

Xu Hai Bin



Marketing Manager

Alan Yu



- Multiple quality control points before, during and after production
- Concentrating on digital TV products

- Cooperating with many license providers
- Continuous product palette expansion



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Issue 11-12/2013 6 September 2013
Issue 01-02/2014 6 November 2013
Issue 03-04/2014 3 January 2014

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advertisement contact

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Mobile/Cell +49-160-5529824

www.TELE-audiovision.com

Reference: TELE-audiovision uses UGODISK Model UC-01

Ugodisk.com

UGODISK • Contact: Sales Manager Michael • Email: michael@ugodisk.com

Sortec, Slovakia - Distributors

- Manu
- ☒ Distr
- ☒ Whol
- Shop
- Serv



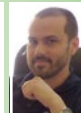
Founder
Ladislav
Šmárik



GM
Pavol
Macko



Sales
Alexander
Záhončík



Sales
Pavol
Lukáč

www.TELE-audiovision.com/TELE-satellite-1203/sortec.pdf



- One of the largest wholesalers in Slovakia
- Success through distribution of well-known, high-quality brand names

- Move to their own building in 2012
- Active in new technologies such as fiber optics and IPTV

Turbosat, UK - Receivers

- ☒ Manu
- ☒ Distr
- ☒ Whol
- Shop
- ☒ Serv



Sales
Chris
Ward



Technical Director
Ray
Gargiulo

www.TELE-audiovision.com/TELE-satellite-1203/turbosat-icecrypt.pdf



- own receiver line ICECRYPT
- 50% of sales outside Great Britain
- Focus on receivers, CAM, SmartCards and LNBs

- 80,000 receivers a year
- produces Dolly Buster TV programming via HOTBIRD

BSD, Brazil - Internet Forum

- Manu
- Distr
- ☒ Whol
- Shop
- ☒ Serv



Owner
Marcus
Bernardini

www.TELE-audiovision.com/TELE-satellite-1201/bsd.pdf



- Operates Brazil's largest digital TV website
- Engaged in the further education of digital TV antenna installers

- Planning his own IPTV channel all about digital technology
- Living his dream with his own worldwide radio station

P-Sat, Hungary - Distributor

- Manu
- ☒ Distr
- ☒ Whol
- Shop
- Serv



Owner
Tibor
Posta

www.TELE-audiovision.com/TELE-satellite-1201/p-sat.pdf



- Has its own customer magazine
- Created supermarket style store

- Planning start of own branded TV services
- Operates one of the most well-known web communities in Hungary

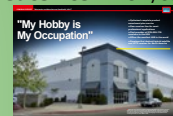
SatelliteAV, USA - Wholesaler

- Manu
- ☒ Distr
- ☒ Whol
- Shop
- Serv



President
Brian
Gohl

www.TELE-audiovision.com/TELE-satellite-1201/satelliteav.pdf



- Optimized complete product assortment plus service
- Own receiver line for semi-professional applications
- First provider of OTA-SSU FTA receivers in the USA

- Offers the smallest LNB in the world
- Develops first Android hybrid satellite and IPTV receiver for North America

AB-COM, Slovakia - Receivers

- ☒ Manu
- ☒ Distr
- ☒ Whol
- ☒ Shop
- ☒ Serv



Founder
Juraj
Masaryk



Marketing Manager
Michal
Grezo



Sales
Pavol
Blaho

www.TELE-audiovision.com/TELE-satellite-1111/abcom.pdf



- Particularly successful in Central Europe
- Products for different applications such as 3D and pay TV

- Focus on cost-efficient product range
- Products optimised for individual applications

Applied Instruments, USA - Signal Analyzers

- ☒ Manu
- ☒ Distr
- Whol
- Shop
- ☒ Serv



GM
Tom
Haywood



Engineering
Jeff Haas



Sales
Scott
Haywood

www.TELE-audiovision.com/TELE-satellite-1111/appliedinstruments.pdf

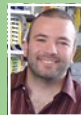


- The power of this company is its robust signal analyzers
- Company plans worldwide expansion with its internationally compatible analyzers

- Special test signal generators for receiver manufacturers
- Special attention to ergonomic operation
- Technical customer service an important highlight of the company

Huber+Suhner, Switzerland - Fibre Optics

- ☒ Manu
- Distr
- Whol
- Shop
- ☒ Serv



Product Manager
Patrick
Zaina



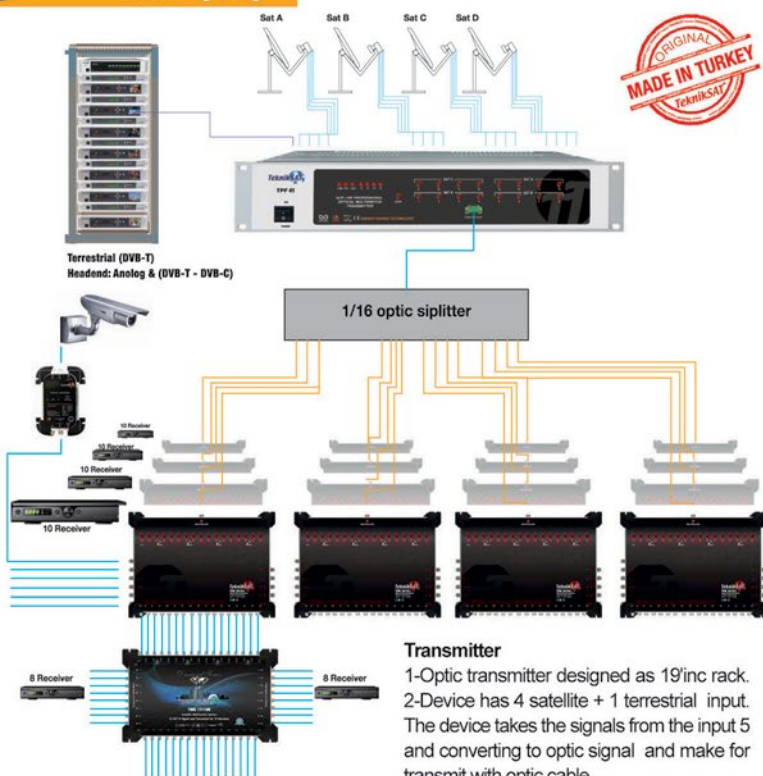
Marketing Manager
Othmar
Fuchs

www.TELE-audiovision.com/TELE-satellite-1111/huber+suhner.pdf



- One of the leading fiber optic companies in the world
- New CLI! System for easy installation
- New market segment that will make coaxial cable distribution systems

- obsolete
- Now available: economical alternative with distribution systems starting with eight users



tekniksatsat
GROUP

"First in the world"

**FIBER OPTIC ONE CORE 4 SAT +
1 TERESTRIAL MULTSWITCH**



TFM 41/10 C 1 Optic input (4 SAT +1 TERR.)
10 Subscriber output

Available cascade models of this series.



TPF 41 4 SAT (16 IF + 1 RF)
One core

www.tekniksatsat.com

Transmitter

1-Optic transmitter designed as 19"inc rack.
2-Device has 4 satellite + 1 terrestrial input.
The device takes the signals from the input 5 and converting to optic signal and make for transmit with optic cable.

3-The Device fan cooling.

4-Optic signal out power is 2 mW. Optic out signal can be transmitter max .32.

Multiswitch

1-Optic Multiswitch has 1 optic input ,10 subscribers output and 17 cascade signal output.

2-Max. Optic input is 2mW.

TBS Matrix ARM mini PC

Matrix is a mini PC that:

- *based on powerful Freescale i.MX6,
- *with open source and switchable operating systems,
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Matrix

is not just any other mini PC,
it has **TBS tuner support!**



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iPONT, Hungary - 3DTV

- Manu
- Distr
- Whol
- Shop
- ☒ Serv



CEO

Zoltan
Korcsok



CTO

Andor
Pasztor

www.TELE-audiovision.com/TELE-satellite-1109/ipont.pdf



- iPONT's software solution converts 3D for use with auto-stereoscopic monitors
- 3D enjoyment without annoying glasses
- Potential for receiver manufacturers to expand their STB's to include

3D

- Compatible with the variety of manufacturer auto-stereoscopic monitor solutions

Megasat, Germany - Receiver and Wholesaler

- ☒ Manu
- ☒ Distr
- ☒ Whol
- Shop
- ☒ Serv



GM

Sven
Melzer

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



- 80% of distributed products come from in-house MEGASAT brand
- full range of satellite components

- special focus on self-aligning camping antennas
- distribution to the whole of Europe

Sapro, Czech - Receiver and Wholesaler

- ☒ Manu
- ☒ Distr
- ☒ Whol
- Shop
- Serv



Owner

Lubomir
Proboszcz



Sales

Petr
Zwrtek



Sales

Jana
Proboszczová

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



- Covers every price segment with its four brand names
- Starting expansion to surrounding countries

- In-house design and production (assembly line)
- Produces 100,000 receivers per year

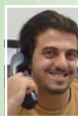
WSInternational, USA - Receiver and Wholesaler

- ☒ Manu
- ☒ Distr
- ☒ Whol
- Shop
- Serv



Owner

Robby
Dosetareh



Sales

Joseph
Bassala

www.TELE-audiovision.com/TELE-satellite-1109/wsinternational.pdf



- Successful Young Company with Ambition
- Manufacturer of Satellite Components

- Plan for Worldwide Expansion with Satellite Signal Analyzers
- Inexpensive Products Thanks to Efficient Production and Distribution

BYA, Algeria - Dishes and Receiver

- ☒ Manu
- ☒ Distr
- Whol
- Shop
- Serv



GM

Slimane
Ait Yala

www.TELE-audiovision.com/TELE-satellite-1107/bya.pdf



Boiingsat, China - LNB

- ☒ Manu
- Distr
- Whol
- Shop
- Serv



GM

Haowen
Chiang



Co-Owner

Yunnjye
Qin



Sales

Jason
Chiang

www.TELE-audiovision.com/TELE-satellite-1105/boiingsat.pdf



- Three Production Locations in Zhuhai/ China
- Large Sales Expansion in South America

- In the Works: LNB with Two Feed Rings

Bomare, Algeria - Receiver

- ☒ Manu
- Distr
- Whol
- Shop
- Serv



**Technical
Manager**

Tewfik
Lamrani

www.TELE-audiovision.com/TELE-satellite-1105/bomare.pdf



Prevail, China - Fibre Optics and CATV

- ☒ Manu
- Distr
- Whol
- Shop
- Serv



Sales

Necy-xu



Sales

Helen



**Production
Manager**

Ren
Guorui

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



- 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

Jiuzhou, China - IPTV Boxes

- ☒ Manu
- Distr
- Whol
- Shop
- Serv



Sales

Huang
Wei



**Vice
Marketing**

Jimmy
Zhang

www.TELE-audiovision.com/TELE-satellite-1103/jiuzhou.pdf



- IPTV box production may reach 1 million units in 2011
- Jiuzhou starts HbbTV boxes for Europe

- Big retailers about to launch into IPTV box sales
- Jiuzhou to attend all major exhibitions in 2011, 10 in all

SATELLITE TV METER

SPAROS SAT HD*

- High quality and bright display (4.3 inch)
- MPEG4-display and measuring
- SCR single cable switching commands
- DiSEqC 1.x and SCR EN 50494 control
- Spectrum analysis
- Robust, impact-resistant housing
- Splash-resistant keypad

* also available as Combo Analyzer
SPAROS SAT HD DVB-C
SPAROS SAT HD DVB-T



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Tel.: +49 (0) 7731-8673-0 · Fax: +49 (0) 7731-8673-17
Email: contact@spaun.com · www.spaun.com

Why ROKS, why MITRIS?



MITRIS YOUR WIRELESS TV BROADCASTING NETWORK



Main advantages:

1. Broadcasting in DVB-S/S2/C or T
2. Flexible and scalable Head End and Network
3. Cost-effective solution
4. Typical for DVB systems = cheap subscriber equipment
5. Wireless - better than cable :)
6. Easy management of subscriber base
7. Selected content for subscribers
8. MITRIS is tested by years
9. We will satisfy any request - we are the developer!



More details : www.roks-tv.com/aboutmitris

Sowell, China - Receivers

- ☑ Manu
- ☑ Distr
- ☑ Whol
- ☑ Shop
- ☑ Serv



GM

Eagle
Chain



Software

Sun
Guanghua



Software

Peng
Yi

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



- Founded by 5 Partners
- ISDB-T and DVB-T2 Receiver in 2011

- Overseas Offices in the Plan
- User Friendliness is Company Philosophy

Tenow, China - PC Cards

- ☑ Manu
- ☑ Distr
- ☑ Whol
- ☑ Shop
- ☑ Serv



Founder

Richard
Zhang



Founder

Bob
Liu



Founder

Eric
Deng



Founder

James
Liu

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



NetUP, Russia - IPTV

- ☑ Manu
- ☑ Distr
- ☑ Whol
- ☑ Shop
- ☑ Serv



Co-Founder

Abylay
Ospan



Co-Founder

Evgeniy
Makeev



Sales

Konstantin
Emelyanov

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



Tevii, Taiwan - PC Cards and Receiver

- ☑ Manu
- ☑ Distr
- ☑ Whol
- ☑ Shop
- ☑ Serv



Founder

Matthias
Liu

www.TELE-audiovision.com/TELE-satellite-1101/tevii.pdf



Satbeams, Belgium - Software

- ☑ Manu
- ☑ Distr
- ☑ Whol
- ☑ Shop
- ☑ Serv



Founder

Alexander
Derjugin

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



SmartWi, Denmark - Wireless Card Reader

- ☑ Manu
- ☑ Distr
- ☑ Whol
- ☑ Shop
- ☑ Serv



Founder

Kurt
Olesen



**Technical
Manager**

Jens
Glad

www.TELE-audiovision.com/TELE-satellite-1011/smartwi.pdf



Spaun, Germany - Power Supplies

- ☑ Manu
- ☑ Distr
- ☑ Whol
- ☑ Shop
- ☑ Serv



**IBC
Certificate
Holder**



MD

Kevin
Spaun

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



Boxsam, China - Receivers

- ☑ Manu
- ☑ Distr
- ☑ Whol
- ☑ Shop
- ☑ Serv



GM

Xiaofeng
Huang



VP

Jeffrey
Zhao

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Atlanta, Dubai - Wholesaler

- ☑ Manu
- ☑ Distr
- ☑ Whol
- ☑ Shop
- ☑ Serv



Founder

Rajmal
Jain



Director

Sanjeev
Jain

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



Yinhe, China - Receiver

- ☑ Manu
- ☑ Distr
- ☑ Whol
- ☑ Shop
- ☑ Serv



**Marketing
Manager**

Jianbiao
Zhu

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



GlobalInvacom, UK - Fibre Optics

- ☑ Manu
- ☑ Distr
- ☑ Whol
- ☑ Shop
- ☑ Serv



Sales

Ivan
Horrocks



Sales

David
Fugeman

www.TELE-audiovision.com/TELE-satellite-1005/globalinvacom.pdf



Changhong, China - Receiver

- ☑ Manu
- ☑ Distr
- ☑ Whol
- ☑ Shop
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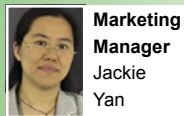


www.macab.com

catline TV

Kaifa, China - Receivers

- ☒ Manu
- ☐ Distr
- ☐ Whol
- ☐ Shop
- ☐ Serv



Marketing Manager
Jackie Yan

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

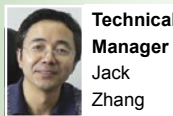


Skyworth, China - Receivers

- ☒ Manu
- ☐ Distr
- ☐ Whol
- ☐ Shop
- ☐ Serv



Vice GM
David Ken



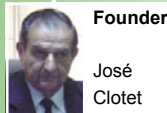
Technical Manager
Jack Zhang

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Promax, Spain - Signal Analyzers

- ☒ Manu
- ☐ Distr
- ☐ Whol
- ☐ Shop
- ☐ Serv



Founder
José Clotet



GM
José-Maria Clotet

www.TELE-audiovision.com/TELE-satellite-0909/promax.pdf



Infosat, Thailand - Dishes

- ☒ Manu
- ☐ Distr
- ☐ Whol
- ☐ Shop
- ☐ Serv



Founder
Niran Tangpiroontham

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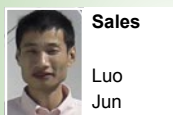


Aluosat, China - Wholesaler

- ☐ Manu
- ☒ Distr
- ☒ Whol
- ☒ Shop
- ☐ Serv



Founder
Luo Shigang



Sales
Luo Jun

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MFC, USA - Filters

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- ☒ Distr
- ☐ Whol
- ☐ Shop
- ☐ Serv



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Sales
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Marketing Manager
Sandy Nelepovitz

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



Nanoxx, Germany - Wholesaler and Receivers

- ☒ Manu
- ☒ Distr
- ☒ Whol
- ☐ Shop
- ☐ Serv



Founder
Marcel Hofbauer



Sales
Daniel Sam

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



Smart, Germany - Receivers

- ☒ Manu
- ☒ Distr
- ☒ Whol
- ☐ Shop
- ☐ Serv



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MD
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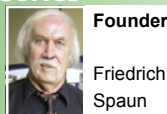


Spaun, Germany - Accessories

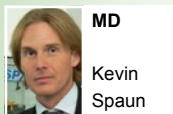
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- ☐ Distr
- ☐ Whol
- ☐ Shop
- ☐ Serv



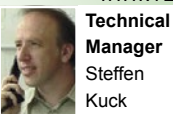
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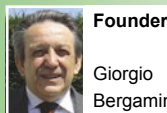
Technical Manager
Steffen Kuck

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Stab, Italy - Motors

- ☒ Manu
- ☐ Distr
- ☐ Whol
- ☐ Shop
- ☐ Serv



Founder
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Subur Semesta, Indonesia - Dishes

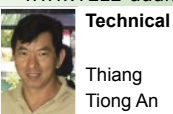
- ☒ Manu
- ☐ Distr
- ☐ Whol
- ☐ Shop
- ☐ Serv



MD
Tjia Tek Ijoe



Finance
Liong Ten Fook



Technical
Thiang Tiong An

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



Dishpointer, UK - Software

- ☒ Manu
- ☒ Distr
- ☐ Whol
- ☐ Shop
- ☒ Serv



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Mike's Antenna Tower

■ Mike Kohl's antenna tower in Plain, Wisconsin, USA. He has installed 16 larger and smaller satellite dishes on his property.



- *Erected his own antenna tower*
- *One of the few remaining active satellite pioneers*
- *Runs his own satellite shop*
- *Works together with the American receiver manufacturer Manhattan Digital*
- *Knows all the satellite channels*

Homemade 8m (26-foot) Antenna Tower

Mike Kohl's dream has come true; many antenna lovers dream about having their very own tower on which they could mount their antennas. His property is large enough to make this dream a reality: it's a wooded hill in the fertile landscape of Wisconsin. All of the local license plates identify Wisconsin as America's Dairyland. West of Wisconsin's capitol of Madison in the small town of Plain and directly on the main road is the hill that goes steeply up. The tower is at the top of the hill and greets visitors with his many satellite dishes.

Mike Kohl explains to us how his tower came about: „When I bought this property in 1993 the trees were not as tall as they are now.“ He had two choices: chop down trees or erect a tower that would reach above the trees. Mike opted for the

latter choice: „In 2002 my neighbor helped me build my tower out of two old telephone poles.“ Mike set up three platforms. On the second platform he installed a bench. „I sit here quite often in the summer and look over all the green that's around me, listen to the bird singing and sit with my dishes.“ A real dream!

Mike is one of the few who managed to gain experience in satellite reception before satellite TV even existed. „I joined the Air Force in 1973. It was there that I learned how to install satellite systems.“ He was stationed in Alaska. After 13 years in the military he left the service and stayed in Alaska. This was coincidentally around the same time that the first satellite TV channels started ap-

pearing. „You needed a 6-7 meter (20-23 foot) diameter dish in order to receive these channels in Alaska.“ Back then nobody really knew how to install satellite antennas. That was Mike's chance: he acquired the dishes and the installation material and began installing the first antennas for satellite TV in Alaska.

After the initial golden years as a satellite installer came to an end, he moved to other parts of the country.

In 1977 he worked for a company in California as a communications technician for satellite and cable and in 1991



Plain, Madison, Wisconsin



■ Mike can often be found sitting on the bench on the antenna tower's second platform taking in the view of nature all around him - and of course his many satellite dishes.

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Hotbird 8 (13° E)	11100	27500	QPSK	DVB-S	Arabic	Arabic	Arabic	0	X
Hotbird 8 (13° E)	11100	27500	QPSK	DVB-S	Arabic	Arabic	Arabic	0	X
Hotbird 8 (13° E)	11100	27500	QPSK	DVB-S	Arabic	Arabic	Arabic	0	X
Hotbird 8 (13° E)	11100	27500	QPSK	DVB-S	Arabic	Arabic	Arabic	0	X
Hotbird 8 (13° E)	11100	27500	QPSK	DVB-S	Arabic	Arabic	Arabic	0	X
Hotbird 8 (13° E)	11100	27500	QPSK	DVB-S	Arabic	Arabic	Arabic	0	X
Hotbird 8 (13° E)	11100	27500	QPSK	DVB-S	Arabic	Arabic	Arabic	0	X
Hotbird 8 (13° E)	11100	27500	QPSK	DVB-S	Arabic	Arabic	Arabic	0	X
Hotbird 8 (13° E)	11100	27500	QPSK	DVB-S	Arabic	Arabic	Arabic	0	X

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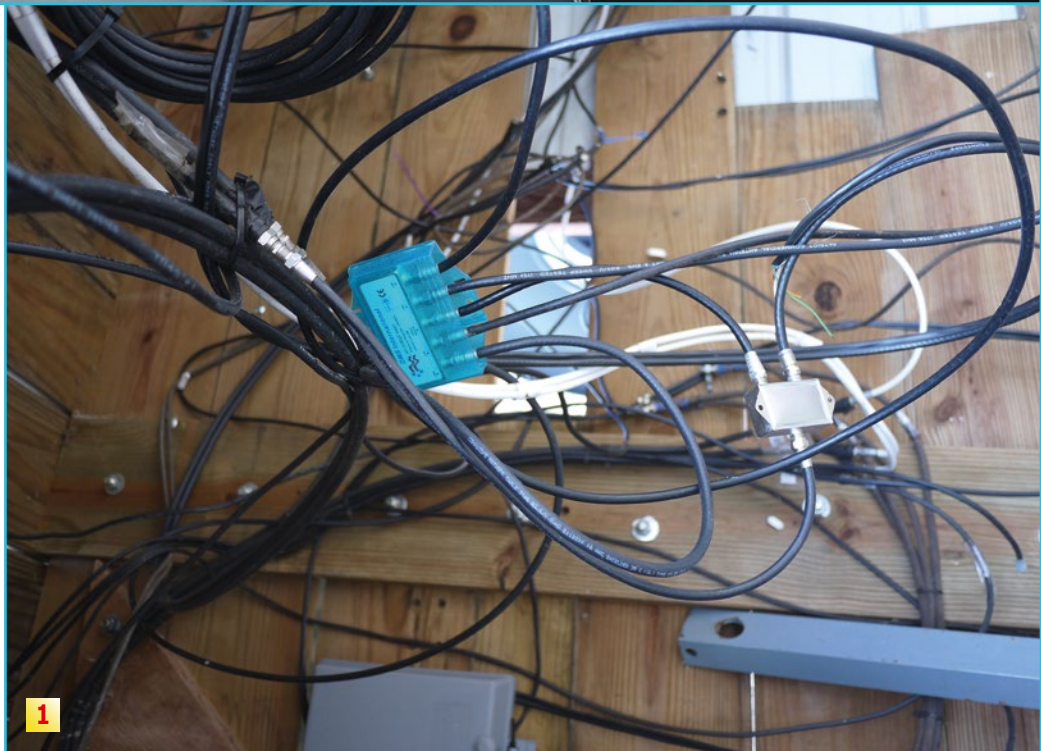


■ Mike installed the larger dishes on the upper platform. Further down there are older DirecTV dishes that are pointed to the satellites at 111W and 97W (left) and 125W and 87W (right).

he went to the antenna manufacturer Orbitron. Towards the end of 1999 Orbitron was acquired by KTI and then after a few years it went out of business. It was 1994 when Mike started his own company, Global Communications, along with his wife Laurel. At first his company was more or less a side job but in 1999 his company became his primary job.

„We sell everything that you would need for satellite reception“, explains Mike. The advantage he has is that he can solve any problem because of his extensive experience. „I have a very close relationship with Manhattan Digital“, explains Mike, „and distribute their receivers.“ Because of this, all of his satellite dishes provide a great benefit to him in that he checks out Manhattan Digital's receivers: „I test them to see if they really can receive every satellite channel.“ Mike has a true monitoring station that can receive every visible satellite. In this way he can also utilize his hobby professionally and give his friend, Jeff Schumann, Manhattan Digital's President (www.manhattan-digital.net), the correct receiver configuration advice.

Mike Kohl is one of the real satellite re-



1. A look under the tower: here all the cables come together and are routed into the house through multiswitches.

2. This is how a portion of the cable lines go into the house.

3. And then the other portion. Mike receives each satellite with its own cable. In this way he can quickly switch between satellites.

4. Once in the house, the cables are split to all the different receivers.

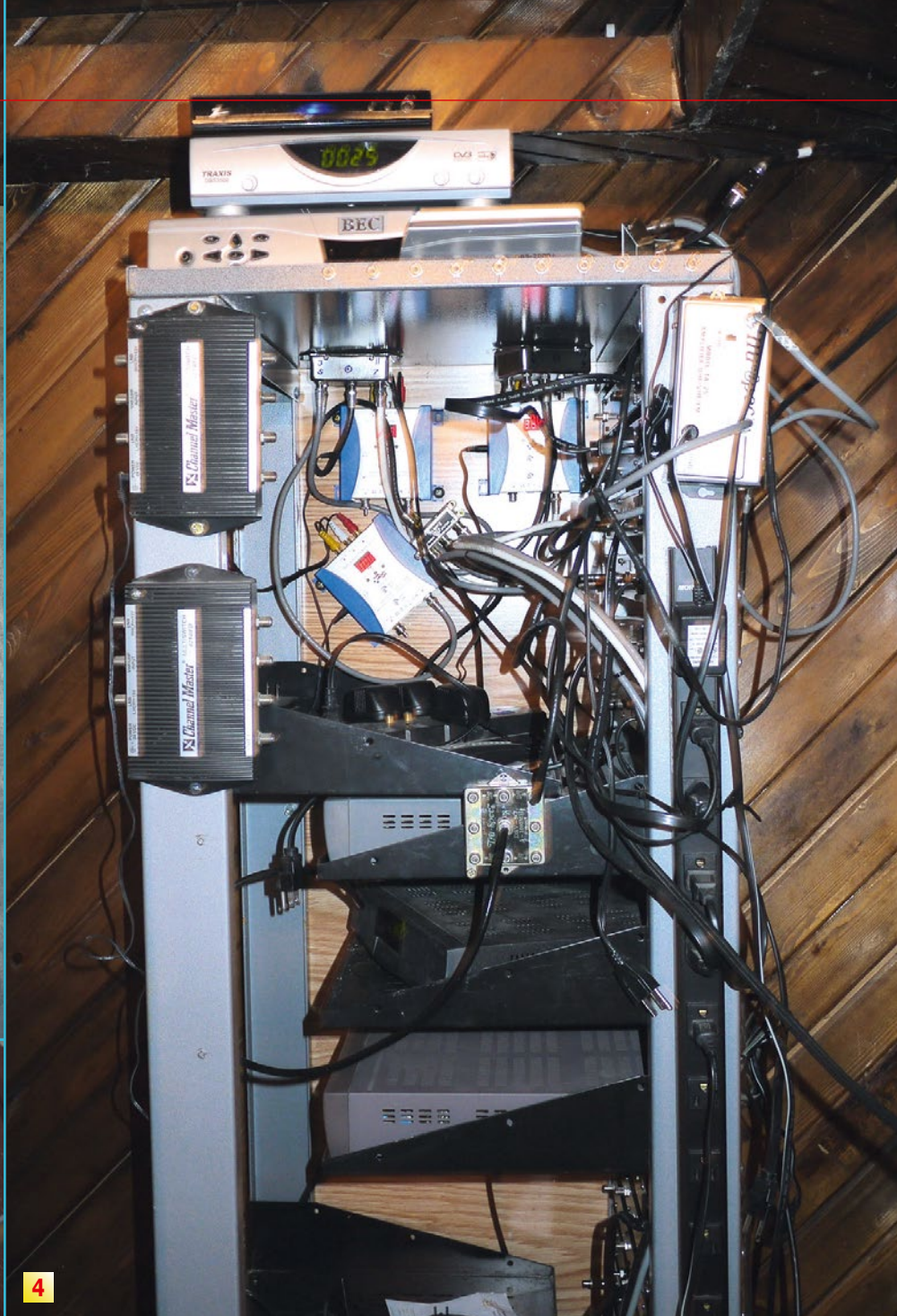
5. Mike is currently receiving Televen Cable from Venezuela on NSS806.



2



3



4



5





■ Mike Kohl in front of his 3.0-meter (10-foot) motorized antenna for the satellites from 43W to 127W



6



7

6. Homemade multi-satellite reception: an old downlink dish was modified with conduit - like that used in the USA for electrical installations - in such a way that 12 LNBs could be mounted 2° apart. Reception range covers 89W to 119W.

7. Close-up of the LNBs. The reflector of a damaged Toroidal antenna serves as protection from rain.

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References



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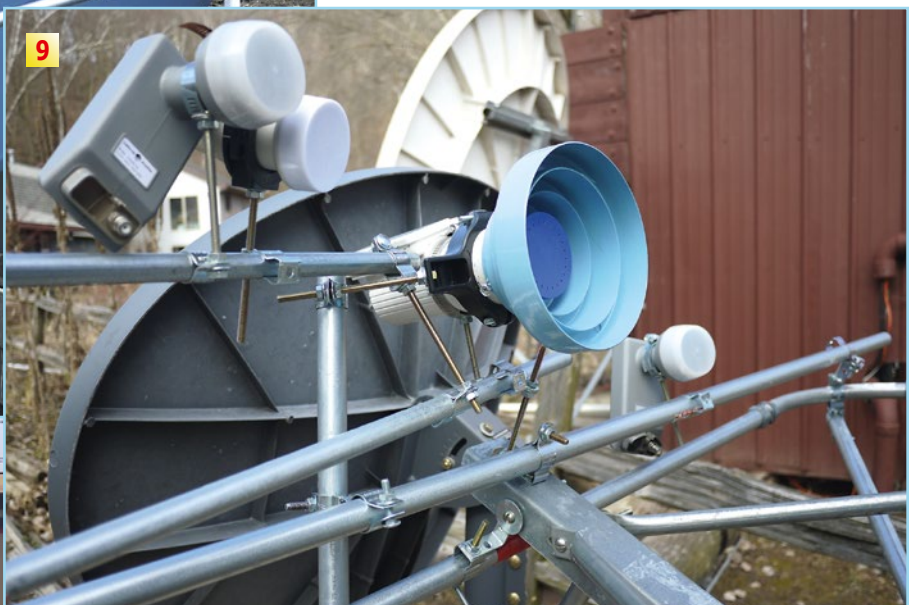
ception pioneers in the world and is still active. And another thing: most satellite DXers are more interested in the technology and not so much in the channels. Mike, though, is interested in both. He regularly watches many TV channels and for each of these channels he's able to point out what its contents are and for what audiences they are suitable for.

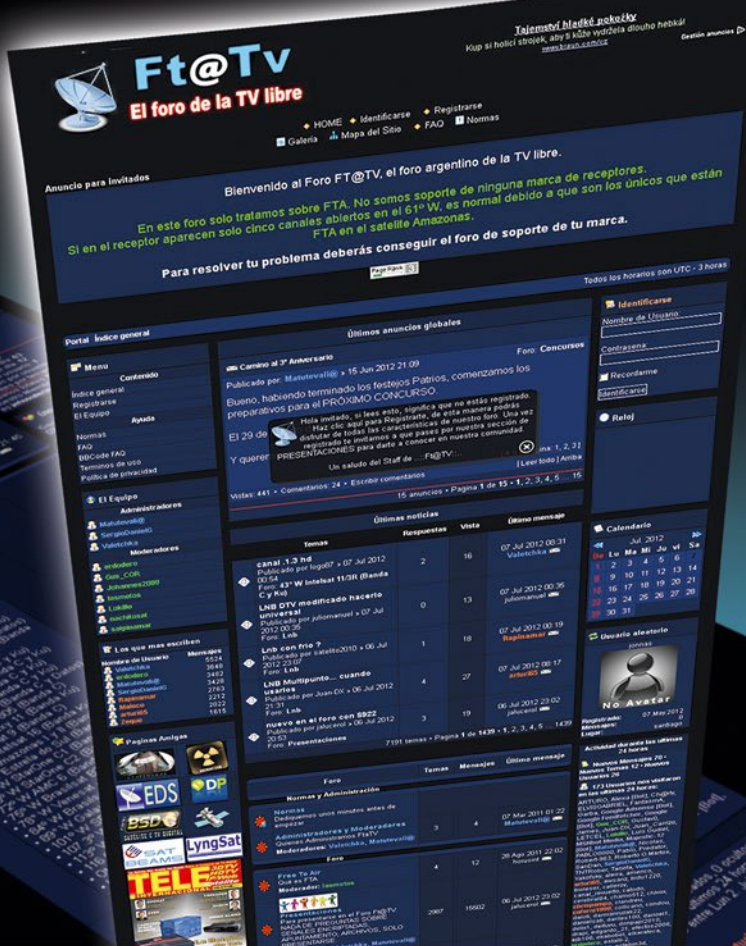
Although Mike had suffered some setbacks in his life, he was always faithful in satellite reception and enjoys his dishes every day.

8. Mike has become a specialist in tubular construction. His 1.8-meter (6-foot) offset antenna was also modified to carry multiple LNBs. A C-band LNB is in the focal point and three Ku LNBs are offset.

9. The main thing is that it works. Mike mounts the LNBs as inexpensively as possible.

10. Mike Kohl in his office. He and his wife Laurel run the company Global Communications (www.global-cm.net) from here.





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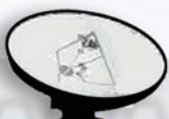


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3 in 1 Triple LNB	BAND DBS / ECS / DBS	12,75 GHz / TELCOM	typ/max LNB	Noise fig. (dB) typ/max 12/20
3 in 1	ECS + TELCOM	DBS + TELCOM	DBS + ECS	
DUAL LNB	RSCD 86400 RSCD 86400 RSCD 86700 RSCD 86800	RSCD 87000 RSCD 87400 RSCD 87700 RSCD 87800	RSCD 85900 RSCD 85900 RSCD 85700 RSCD 85700	2,9 - 2,0 4,6 - 1,8 1,7 - 1,7 1,5 - 1,6 1,6 - 1,6
1 in 1	ECS	DBS	TELCOM	Noise fig. (dB)
SINGLE LNB	RSCA 86400 RSCA 86400 RSCA 86700	RSCA 85400 RSCA 85800 RSCA 85700	RSCA 87400 RSCA 87400 RSCA 87700	1,3 max 1,3 max 1,7 max
DBS Tuner	Small Size Single Input Dual Input	The Scalor 1/2B 1/2B6, without Bandwidth 20 MHz, 27 MHz, 27/16 MHz, FM Threshold type 4 dB noise Input frequency 950 - 1750 MHz		
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info@dream-multimedia-tv.com
www.dream-multimedia-tv.com

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- Digital High Definition Receiver

ATSC

- Digital High Definition Receiver

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- CAS Embedded
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- MHP(Multimedia Home Platform)



www.kaonmedia.com
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TELE - audiovision

Zeitschrift für UKW und Fernsehen

Nr.22

Juni 1984

DM 5,-



- Kabel in Ludwigshafen
- Privat-TV in Spanien
- Fernsehen auf Island

30 Years Ago

TV in Shenzhen

A TV station opened in the special economic zone of Shenzhen. Transmission times are only 150 minutes four times a week. The equipment came from SONY and JVC. The station can also be received in Hongkong.

Right across in Macao the tv station "Teledifusao de Macau" should have started by the end of 1983 but failed due to mismanagement. It is now scheduled to open early 1985

CHINA, VOLKSREPUBLIK

In der Sonderwirtschaftszone "Shenzhen" eröffneten die Chinesen einen eigenen TV-Dienst. Gesendet wird nur 150 Minuten viermal in der Woche. Die Einrichtungen stammen von SONY und JVC. Das Programm kann auch in Hongkong empfangen werden.

Gleich gegenüber in der portugiesischen Enklave Macao hätte Ende 83 die "Teledifusao de Macau" in Betrieb gehen sollen; das "Mißmanagement", so die dortige Regierung, der Fernsehverantwortlichen verschob den Einschalttermin auf Anfang 1985.

WBN-4

Skandinavien

Fernsehen auf Island

Teil 1: RUV Sjóvarpið - Fernsehponier im hohen Norden

□ Als am 30. September 1966 das isländische Fernsehen feierlich eröffnet wurde, gab es schon seit fast 10 Jahren Fernsehen auf Island: vom NATO Luftwaffenstützpunkt Keflavik, nicht weit von Reykjavik entfernt und daher dort in guter Qualität zu empfangen. Das US-Armee-Fernsehen hatte eine leidenschaftliche Debatte über das Für und Wider des amerikanischen Medieneinflusses auf Island ausgelöst, in deren Folge man sich schließlich zur Gründung einer isländischen Fernsehstation entschloß. (Mehr über APTES Keflavik im nächsten Heft).

Als kleinster der skandinavischen Fernsehsender hatte es RUV nicht gerade leicht, im Gegenteil. Chronischer Geldmangel sorgte dafür, daß viele technische und strukturelle Neuerungen länger auf sich warten ließen als anderswo.

Farbsendungen gibt es beim Sjó-



□ Das Funkhaus am Laugavegi.

varpið (isl. "Fernsehen") seit 1975, aber zunächst betraf das nur Videomaterial, die Studios und Filmabaster wurden erst 1977 farbtüchtig.

Auch auf Live-Übertragungen und Überspielungen aus dem Ausland mußte man noch bis vor kurzem verzichten. Die erste Live-Übertragung aus dem Ausland kam am Heiligabend 1981 aus Bethlehem, nachdem die isländische Post erst ein Jahr zuvor eine eigene



□ Eine der vielen isolierten Richtfunkstellen

Satelliten-Podenstation ("Skygnir") in Betrieb genommen hatte. Bis dahin kam sämtliches Nachrichtenmaterial mit dem Flugzeug.

Ein großes Jahr für das isländische Fernsehen war 1973, als der Vulkan Heimaey auf den Vestmannaeyar - Inseln ausbrach und den größten Ort der Inseln unter Lava und Asche zu begraben drohte. Man installierte damals auf dem örtlichen Sendemast eine Fernsehkamera, die das Geschehen ständig live in alle isländischen Wohnstuben brachte. Sie wurde selbst nachts nicht abgeschaltet und fungierte eine ganze Weile als Testbildersatz.

Das Sendernetz

Das Sendernetz des isländischen Fernsehens besteht derzeit aus 9 Haupt- und 121 Füllsendern, von letzteren sind 5 auf UHF, alle im Kanal E-23. Bis 1974 wurden die Hauptsender noch ausschließlich über Ballempfang

versorgt, erst 1980 wurde der letzte Hauptsender an das Richtfunknetz angeschlossen.

Vor über 10 Jahren gab es einmal einen Plan, auch Islands Fischereiflotte in den Fischgründen rund um die Insel mit den RUV - Programmen zu versorgen. Die Post hatte dazu einen Plan ausgearbeitet, der das Herz eines jeden TV-Dixers hätte höher schlagen lassen: Er sah 4-5 Standorte entlang der Küste vor, mit leistungsstarken Sendern in Richtung auf die See, und alle Sender sollten auf Band I arbeiten. Aber daraus wurde dann doch nichts, es stellte sich bald heraus, daß ein solches Netz einfach zu teuer werden würde.

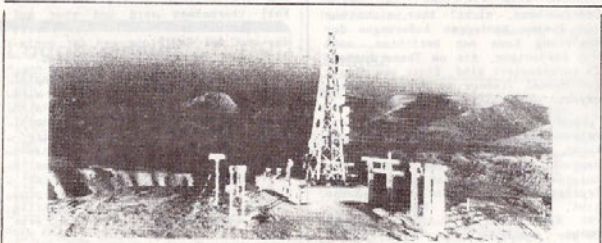
Trotz des schwierigen Reliefs ist die Fernsehversorgung auf dem Lande inzwischen fast lückenlos, nur noch ca. 140 abgelegene Höfe werden als fernsehlos eingestuft. Alle Hauptsender mit Ausnahme von Vatnsendi sind im Übrigen unbemannt und werden durch Uhren ein- und ausgeschaltet.

Das Programm

Das allabendliche Programm beginnt normalerweise um 1945 Uhr mit Nachrichten in Taubstummensprache ("Fréttasagrip í tákn-

MANUDAGUR

30. april
19.35 Tónni og Jónni
Handarískið (tekningynd)
19.45 Fréttasagrip á tákni
20.00 Fréttir og veður
20.30 Auglýsingar og dagkrá
20.40 Íþróttir, Línusjónmáður Bjarni Elíasson
21.15 Ástir á skrifstofunni
Office Romance) Brekkt sjónvarpsleikrit eftir William Trevor. Leikstjórn: Mary McCrory. Ástirleikar: Jody Parfitt, Ray Brooks og Suzanne Burden. Þar sem karlar og konur starfa saman fer ekki hjá því að Ástin rugli einhverja í ríminu á vinnustöð. Þrándir Ragna Ragnars.
22.10 Nött kölfirfluggjanna. Heimildarmynd frá brekka sjónvarpsins um ásturlífið sem gerist á Þryskalandi 30. júní 1954 og nefndir hafa verið "mött langa hrifvænna". Þá gerir Hildur upp sakir við Þryi félaga sína í stormvesturum, breið veldi þeirra á bak aftur og lét taka foringja leitra af lífi. Þýðandi Gyöfi Pásson.
23.10 Fréttir í dagkrárlík



□ Der TV-Hauptsender Skálafell, von dem jetzt auch das zweite UKW-Programm abgestrahlt wird.

ZUM FERNEMPFANG GERÜSTET



**Mehrnormen
Farb-
Fernsehergeräte**

Eine TAV Marktübersicht

Empfangstechnik

Die DX-Saison hat wieder begonnen - und das Kurbeln am TV-Kanalwähler bringt die schönsten Sender herein. Aber nicht alle Sender bekommt man so herein, daß der TV-Apparat etwas damit anfangen kann - zu viele verschiedene Sendernormen sind in Gebrauch. Für alle TV-Diener und ebenso für alle, die ständig einen Sender mit anderer Norm empfangen können, hat TAV sich bei den bundesdeutschen Herstellern nach Mehrnormengeräten erkundigt.

Manche der angeschriebenen Hersteller bzw. Vertriebsorganisationen antworteten sehr präzise, andere gaben nur grob die Normkürzel für verfügbare Nachrüstätze an, ohne darauf einzugehen, wie viele davon gleichzeitig eingesetzt werden können. Es kommt häufig vor, daß unter der Normen-Bezeichnung "SECAM-Dst" die DOR-Norm B/G-SECAM verstanden wird, da ein Umrüstsatz für das Tonfeld (wie bei den meisten anderen osteuropäischen Ländern erforderlich - Norm D/K-SECAM) nicht vorhanden ist.

Auch unter der Angabe NTSC wird oft verstanden, daß das Gerät NTSC-codier- te Videosignale von Videorecordern wiedergeben kann - mit dem Farbträger bei 4,43 MHz und Ton-Direktsteinspielung. In Zweifelsfällen sollte man also immer genau nachfragen.

Natürlich ist die folgende Aufstellung nicht hundertprozentig vollständig. Auch sind wir auf die Angaben angewiesen, die uns die Hersteller zur Verfügung gestellt haben. Wir können diese Angaben weder durch eigene Recherchen ergänzen, noch korrigieren. Wir danken allen Herstellern für die Bereitstellung der Unterlagen zu dieser Marktübersicht!

Bang & Olufsen

Bang & Olufsen (Deutschland) GmbH
Wandlungweg 20
D-2000 Hamburg 1

Dänischer Hersteller: Geräte mit digitaler Abstimmung, Suchlauf, Fein- abstimmung, 100-Kanaltuner, Stereo/ Zweiton-Wiedergabe, Videotext nach- rüstbar.

NACHRÜSTBAR:
SECAM-Dst
SECAM-West
NTSC-4.43 (Video-Wiedergabe)

Fotos Grafikdesign eines Bang & Olufsen Stereo- Fernsehers. Foto: B&O

TELE-audiovision 22 1984

TV-Normen in Europa

Land Sendeanstalt Norm

ALBANEN	TV Shqiptar	PAL-B
BELGIEN	RTBF, BRT	PAL-B/H
BULGARIEN	BT	SECAM-D/K
Bundesrepublik	ARD, ZDF, Dritte	PAL-B/G
	AFN-TV, CFN/RFC	NTSC-M
	BFBS	PAL-I
	FFB	SECAM-G
	BGSK	PAL-H
DÄNEMARK	DR	PAL-B/G
DOR	Fernsehen DOR	SECAM-BG
FINLAND	YLE	PAL-B/G
FRANKREICH	TOFT, A2, FR3	SECAM-L'/L
GIBRALTAR	GBC	PAL-B
GRIECHENLAND	EPT	SECAM-B/H
GROSSBRITANNIEN	BBC, IBA, C4	PAL-I
ISLAND	RUV	PAL-B
ITALIEN	RAI + div	PAL-B/G
JUGOSLAWIEN	JRT	PAL-B/H
LUXEMBURG	RTL	PAL-B/G+SECAM-L
MALTA	Xandir Malta	PAL-B/H
MONACO	TMC	PAL-G+SECAM-L
NIEDERLANDE	NOS	PAL-B/G
NORWEGEN	NRK	PAL-B/G
ÖSTERREICH	ORF	PAL-B/G
POLEN	TVP	SECAM-D/K
PORTUGAL	RTP	PAL-B/G
RUMANIEN	TVR	PAL-D/K
SCHWEDEN	SVR, SSR, TSI	PAL-B/G
SCHWEIZ	TVE	PAL-B/G
SPANIEN	TVE	SECAM-D/K
TSCHECHOSLOWAKEI	ČST	PAL-B
TÜRKEI	TRT	PAL-B
UDSSR	TSS	SECAM-D/K
UNGARN	MTV	SECAM-D/K

BLAUPUNKT

Blaupunkt-Werke GmbH
Robert-Bosch-Straße 200
D-2300 Hildesheim

Reichhaltiges Programm, teils Geräte

5

Empfangstechnik

mit PLL-Allbandtuner, Suchlauf und Feinabstimmung, Stereo/Zweitton-Wiedergabe, Videotext, BTX.
NACHRÜSTBAR:
SECAM-Dst
Zweite Tonnorm: 4,5 oder 6,0 MHz

FISHER

Fisher HiFi Europa Vertriebs-GmbH
Truderinger Straße 13
D-8000 München 80

In Europa hergestellte Farbfernsehergeräte japanischer Entwicklung, teils Geräte mit 99-Kanal Synthesizer-Tuner, Suchlauf.

Mehrnormengeräte:
Modelle FTR-351, -358 und -366 als Version "DF" für SECAM-B/G und SECAM-L lieferbar. Auch andere Standardgeräte als "DF"-Version lieferbar.

GRAETZ

Graetz-Vertriebsgesellschaft mbH
Postfach 1720
D-7530 Pforzheim

In Deutschland werden keine Mehrnormengeräte angeboten. Bei den meisten Typen bestehen aber Nachrüstmöglichkeiten.

NACHRÜSTBAR:
PAL/SECAM-Decoder
Multistandard HF/2F
Tonnachrüstatz für 6,0 MHz oder 6,5

GRUNDIG

Grundig AG
Kurgartenstraße 37
D-8510 Fürth

Sehr reichhaltiges Programm, teils Geräte mit Synthesizer-Allbandtuner, Suchlauf und Feinabstimmung, Stereo/ Zweitton-Wiedergabe, Videotext und BTX nachrüstbar.

Extrem vielfältige Nachrüstmöglichkeiten für andere Fernsehnormen, auch für ältere Geräte.

NACHRÜSTBAR:
SECAM-B/G
SECAM-D/K
PAL-I
NTSC-M
Ein 4-Normen-Nachrüstatz (PAL-B/G,

SECAM-B/G, NTSC mit 3,58 und 4,43 Farbträger) ist in Vorbereitung. Das "Grundig Technische Jahrbuch" gibt den Händlern Auskunft, was bei welchem Gerät nachrüstbar ist.

ITT

ITT Schaub-Lorenz Vertriebs-GmbH
Postfach 1720
D-7530 Pforzheim

Im Deutschland-Vertrieb drei Mehrnormengeräte für SECAM-L (Frankreich): "ITT Ideal Color 3214 (3434; 3734) multistandard". Bei den meisten anderen Typen bestehen Nachrüstmöglichkeiten.

NACHRÜSTBAR:
PAL/SECAM-Decoder
Multistandard HF/2F
Tonnachrüstatz 6,0 und 6,5 MHz

JVC

JVC Electronics (Deutschland) GmbH
Breitbacher Straße 98
D-6000 Frankfurt/Main 90

Es werden (noch) keine Mehrnormengeräte auf dem deutschen Markt angeboten.

LOEWE

Loewe Opta GmbH
Postfach 220
D-8840 Kronach

Reichhaltiges Programm, Geräte mit Synthesizer-Tuner, Suchlauf, AFC und Feinabstimmung, teils mit Stereo/ Zweitton-Wiedergabe, Videotext, BTX.

Mehrnormengeräte:
"TRC 26 Multimedia", werkseitig ausgerüstet für: PAL/SECAM/NTSC 4,5; Stereo/Zweittondecoder, Videotextdecoder, BTX-Decoder. "SC 26 Multimedia", werkseitig ausgerüstet für: PAL/SECAM/NTSC und Stereo/Zweittondecoder.

Bei den meisten anderen Geräten sind nachrüstbar:
SECAM
Tonnachrüstatz 4,5 MHz
Videotextdecoder

TELE-audiovision 22 1984

Empfangstechnik



Metz Apparatewerke
Postfach 84
D-8510 Fürth

Mehrnormengeräte:

Für PAL-B/G, PAL-I und NTSC-M sowie Stereo/Zweitton: Typen: Elba, Borneo, Madras, Sumatra, Capri, Java, Nordkap, Mallorca, Classic und Panama.
Für PAL-B/G, PAL-I und SECAM-L: Florida, Haiti und Bali.



Mitsubishi Electric Europe GmbH
Brandenburger Straße 40
D-4030 Ratingen 3

Geräte mit 56cm und kleinerer Bildröhre, teils Stereo/Zweitton.

NACHRÜSTBAR:
SECAM-DOR



MSM Sanyo Vertriebsgesellschaft mbH
Dornhofstraße 40
D-6078 Neu-Isenburg

Kein Vertrieb von Mehrnormengeräten in Deutschland.

NORDMENDE

Nordmende Vertrieb-GmbH & Co oHG
Funkschneise 5/13
D-2800 Bremen 44

Alle Geräte des Baujahres 1983 sind so konzipiert, daß durch den Fachhandel und Zentralkundendienst eine Aufrüstung auf folgende Normen möglich ist:

NACHRÜSTBAR:
Norm M, D/K, L und I

TELE-audiovision 22 1984

Die Normen in Europa

Norm Zeilen Ton Modulation Bild/Ton

B, G, H	625	5,5 negativ	/ FM
D, K	625	6,5 negativ	/ FM
I	625	6,0 negativ	/ FM
L, L'	625	6,5 positiv	/ AM
M	525	4,5 negativ	/ FM

Die Farbkodierungen PAL, SECAM oder NTSC können mit jeder Sendernorm kombiniert werden.

Die Normvarianten B,D und L' beziehen sich auf den VHF-Bereich, die Varianten G,H,K,I und L auf den UHF-Bereich.

Panasonic

National Panasonic GmbH
Winsberggring 15
D-2000 Hamburg 54

Farbfernsehergeräte mit 56cm Bildröhren und kleiner, teils Stereo/Zweitton, Kabeltuner.

NACHRÜSTBAR:
SECAM-DOR

Außerdem im Programm: 102cm Projektionsfernseher mit Wiedergabeschalter PAL, SECAM, NTSC 3,58, NTSC 4,43

PHILIPS

Philips GmbH
Bereich Unterhaltungselektronik
Postfach 101420
D-2000 Hamburg 1

Reichhaltiges Programm, teils Stereo/ Zweitton, Videotext.

Mehrnormengeräte:
Goya 4390 Stereo, Goya 3275, v.Gogh 3245, Philletta Royal 8129.
NACHRÜSTBAR:
SECAM-DOR für fast alle Geräte

SABA

7

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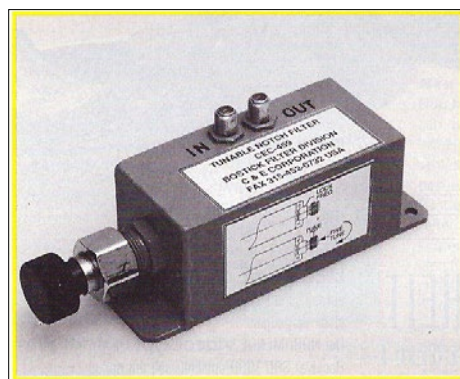
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20 Years Ago

C band filter

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VideoCrypt I

VideoCrypt, das von Thomson entwickelte europäische Pay-TV-System, erlaubt grenzenloses Verbringen. Der NORMENDE VideoCrypt I-SAT-Receiver SRD 1000 entschlüsselt mit der entsprechenden Code Card die Empfangssignale und sorgt so für den problemlosen Empfang Ihres Wunschprogramms. 120 Programmpakete bieten Ihnen die Möglichkeit, auch uncodierte Sendungen zu empfangen. Genießen auch Sie die neue Freiheit mit dem NORMENDE VideoCrypt-SAT-Receiver.

THOMSON CONSUMER ELECTRONICS GmbH & Co. OHG
SERVICE
Göttinger Chaussee 76 D-30453 Hannover, Fax (051) 418-17 39

NORMENDE
THOMSON TECHNOLOGY



*Einsendung nur in Großbetrieben zulässig.



10 Years Ago



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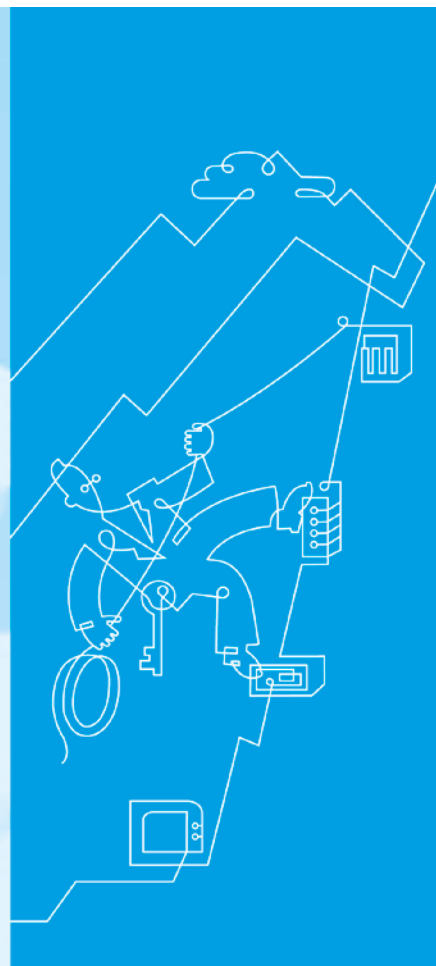
- www.angacable.de and info@angacable.de

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German Association of
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Technische Daten: Universal Single LNB

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L.O. Frequenz	9.75 GHz	10.6 GHz
Ausgangsfrequenz	950 ~ 1950 MHz	1100 ~ 2150 MHz
Verstärkung	55 dB (typ.)	
Feedhorn	40 mm	
Gewicht	110 gr (typ.)	

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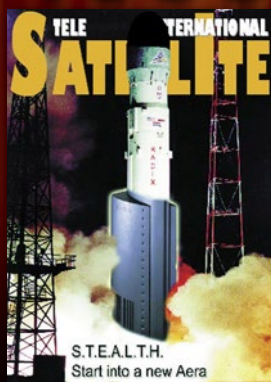
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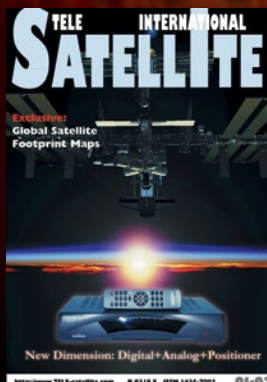
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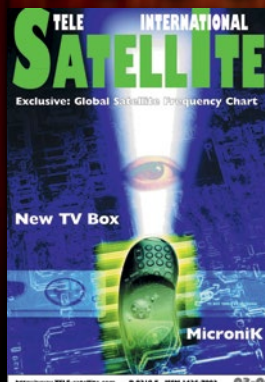
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