

Technotrend TT-micro S320

Video transmission via HDMI

In the past, the video signal from receiver to TV used to be transmitted as an analog video or colour signal. In 2003, the specifications for HDMI (High Definition Multimedia Interface) were defined, allowing a fully digital transmission of video and audio data to any compatible output device. This improved technology is

increasingly being used these days, especially since 'HD ready' television sets are able to process HDMI signals. So if a high-end DVB set-top box capable of receiving HDTV is available, the signals are sent to these TVs through HDMI using the HDTV protocol.

Common Interface module which needs to be inserted in the receiver's CI slot.

By default, the receiver is pre-programmed with the transponder data of 18 satellites. However, since the



Technotrend now makes use of this technology in the low-cost sector as well.

Admittedly, this satellite receiver can only receive MPEG-2 channels, which means the new high-resolution MPEG-4 signals being tested at the moment will not show up on your TV screen. However, even the quality of regular PAL channels is improved to an extent that comes close to true HDTV.

In order to achieve this, Technotrend uses a technical gadget called upscaler – a system which extrapolates the existing 625 PAL lines to simulate 1080 lines. This way, the irritating visible line structure – which most of all LCD screens suffer from – disappears and the image becomes clearer to

watch.

I particularly like this receiver because of its future-proof technology, even though it has some minor limitations which, however, will not compromise its everyday use. In addition, it is small and lightweight, does not consume much energy and can easily be used in cars or campervans as well, thanks to its 12 VDC power unit. Its very low signal threshold makes it an ideal travel companion.

Switching channels or between TV and radio takes place quickly and without any switching distortions, which is proof of a state-of-the-art operating system. Software updates are available via ASTRA1 and downloads start without long delays. On-screen information about current and

next events is displayed whenever a new channel is selected and content as well as presentation are up to expectations.

It goes without saying that a full EPG (Electronic Program Guide) in extended mode is available, meaning you can look up events up to one week in advance and set the timer directly in EPG mode.

Teletext is integrated as well and as an added feature it stores all received pages so that any selected page shows up immediately.

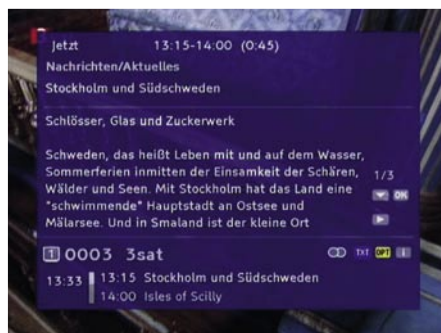
A full signal search is finished in next to no time and can be limited to free-to-air, encrypted or all signals. If you intend to receive encrypted channels as well you need a smartcard of the respective content provider and a

receiver only uses DiSEqC 1.0 and toneburst your options are limited to either a single LNB, a monoblock for two satellites or a multifeed system for four satellites. You cannot connect a rotating dish to this receiver.

Channels are stored in



Full channel list | Favourite list 1 |



3sat program guide |



Overview of events |

Arabic	العربية	www.TELE-satellite.com/TELE-satellite-0711/ara/technotrendHDMI.pdf
Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-0711/bid/technotrendHDMI.pdf
Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0711/bul/technotrendHDMI.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-0711/deu/technotrendHDMI.pdf
English	English	www.TELE-satellite.com/TELE-satellite-0711/eng/technotrendHDMI.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-0711/esp/technotrendHDMI.pdf
French	Français	www.TELE-satellite.com/TELE-satellite-0711/fra/technotrendHDMI.pdf
Greek	Ελληνικά	www.TELE-satellite.com/TELE-satellite-0711/hel/technotrendHDMI.pdf
Croatian	Hrvatski	www.TELE-satellite.com/TELE-satellite-0711/hrv/technotrendHDMI.pdf
Italian	Italiano	www.TELE-satellite.com/TELE-satellite-0711/ita/technotrendHDMI.pdf
Hungarian	Magyar	www.TELE-satellite.com/TELE-satellite-0711/mag/technotrendHDMI.pdf
Mandarin	中文	www.TELE-satellite.com/TELE-satellite-0711/man/technotrendHDMI.pdf
Dutch	Nederlands	www.TELE-satellite.com/TELE-satellite-0711/ned/technotrendHDMI.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-0711/pol/technotrendHDMI.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-0711/rus/technotrendHDMI.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0711/tur/technotrendHDMI.pdf

two lists, one including all TV channels and the other all radio channels. With an average German viewer in mind, the channels in each list are arranged the way most viewers receiving ASTRA1 channels in a German-speaking country will be happy with.

The fact that channels cannot be rearranged in the overall lists might irritate some users, but this is compensated for by the availability of four favourite lists each for TV and radio channels, where you



can arrange channels to your heart's content.

Another feature that is irritating at first, but logical at second thought is the complete lack of control buttons on the front panel, which is limited to the CI slot and a single LED to

indicate the operating status. It's a similar story on the back panel: apart from the sockets for the LNB and power cord there are only the analog and - more importantly - digital outputs for video and audio.

TECHNIC

DATA

Distributor	DVB-Shop, Deutschland
Tel.	+49-34954/31960
Fax	+49-34954/49233
Website	www.dvbshop.net
E-Mail	webmaster@dvbshop.net
Model	TT-micro S320 HDMI
Power Supply	12 V DC or 230 V AC
Power Consumption	10/11 Watt (Stand-By/Off)
Size	25x17x3,5 cm
Weight	650 g
DiSEqC	1.0 and Toneburst
Satellites	max. 4 of 18
RF-Modulator	No
Program Listings	TV, Radio, Favorites
Teletext	800 Page Memory
EPG	Day, next day, week with program details
Timer	EPG-programmable On/Off
Connectors	IF In, 2xSCART, 2xRCA, S/PDF, HDMI, Power Supply
Upgrades	Via Satellite

Expert Conclusion

This is a small low-cost receiver with good features for all standard requirements.

- + perfect video thanks to HDMI and upscaler
- easy to use
- fast channel switching
- fast teletext

- overall channel lists cannot be edited
- not suitable to rotating dishes



Heinz Koppitz
TELE-satellite
Test Center
Germany



Systeminformation	
Hauptmenü / Technische Informationen	
Hardware-Version	000F 0014 13C2 000B
Systemschlüssel	0000-0001 / FFFF-FFFF
MAC-Adresse	nicht verfügbar
Produkt	TechnoTrend TT-micro® S320
Software-Version	1.65.02 / Jun 27 2007 09:03
Software-Aktualisierung	OK

System information |

Programminformation	
TV * 0004 Bayerisches FS - MPEG2	
Satellit	Astra (19,2°E)
Transponder	11836 MHz - H - 27500
Netzwerk	0001 ASTRA
Anbieter	ARD
Service-ID	28107 Audio-PID 202
Teletext-PID	204 Video-PID 201
Signalstärke	13,0 dB 65%
Signalqualität	0.00e+00 100%

Program information |



Info bar after switching channels |