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H30Evolution spectrum analyzer

All the functions you need now in your smartdevice

H30Evolution is a field strength meter that combines the best features of a portable and compact equipment - distinctive of the H30 series - with revolutionary functionalities. Thanks to the innovative multiscreen system based on Wi-Fi/Bluetooth, the meter may be remotely displayed and controlled using any Android or iOS device or a PC, thus providing the flexibility and convenience of a wireless system.

In addition, to make the use of the smartphone even more natural, a universal bracelet is provided for devices up to 6".

H30Evolution is a lightweight, compact and robust equipment that includes a full range of tools and functionalities to successfully perform installation, maintenance and troubleshooting tasks in both analogue networks and digital networks with DVB-S/S2, DVB-T/T2, and DVB-C channels. Since it is a multi-standard equipment, the options may be updated by means of a license-based downloadable software, without the need for the equipment to be replaced.

Just as the rest of the meters fully designed and manufactured in Televes Corporation, H30Evolution takes advantage of the digital processing technology, and provides the user with a speed and mathematical accuracy equivalent to that of laboratory equipment.

Ref.593501	DVB-S/S2 + DVB-T	
	Art.Nr	H30E-S2T
	EAN13	8424450207611
Ref.593502	DVB-S/S2 + DVB-T/T2	
	Art.Nr	H30E-S2T2
	EAN13	8424450207628
Ref.593503	DVB-S/S2 + DVB-C	
	Art.Nr	H30E-S2C
	EAN13	8424450207635

Ref.593504	DVB-S/S2 + DVB-T/T2 + DVB-C
Art.Nr	H30E-S2CT2
EAN13	8424450207642

Highlights

- Multiscreen system with touch control: display the meter screen on a mobil device, and control the meter by touch gestures and buttons
- WiFi and Bluetooth connectivity
- Wideband LNB supported
- Guided satellite pointing
- Real-time digital processing
- Light-weight handheld meter
- User friendly interface
- Multi-standard, fully configurable; with WiFi / IPTV analyzers and HEVC display as options
- All measurements are carried out by pressing a single button equipped with Pass/Fail indicators to reduce installation errors

Technical specifications

H30EVOLUTION	
Mechanical Specifications	
Screen	2.8" TFT 400 x 240 full color
Weight	510 g.
Dimensions	175x100x52 mm / 6,9x3,9x2 (HxWxD)
AC Adaptor	Input: 100-240V~ 50-60Hz Output: 12VDC, 2A
Battery	Li-ion (7,2VDC, 2300mAh)
Battery range	>4hours without LNB powering
Interfaces	Bluetooth, Wi-Fi 2.4GHz (5GHz upgrade 593250), Ethernet 1Gb USB 2.0 for Data log download and software upgrades
Storage capacity	400 MB (internal) for measurements
Resilience	It withstands drops from 1 m (3.2 ft) onto concrete on all sides
Impedance	F-type connector - 75 Ohm

Technical Specifications					
593503		593501		593502	
593504					
Frequency					
Range		Terrestrial: 50 - 880 MHz / Satellite: 950 - 2200 MHz / Wideband: 250 - 2300 MHz			
Resolution		125 kHz			
Tunning		Frecuency or channel			
Spectrum analyser					
Span		5, 10, 20, 50, 100, 200, 500 MHz y Full			
Scale		5 and 10 dB/div			
Reference level (automatic and manual)		✓			
Hold feature		Peaks			
DVB-S digital measurements [Modulation: QPSK]					
Image		✓	✓	✓	✓
Power	From 45 to 110 dBμV	✓	✓	✓	✓
CBER	9.9E-2 – 1.0E-6	✓	✓	✓	✓
VBER	1.0E-4 – 1.0E-8	✓	✓	✓	✓
MER	Up to 20dB	✓	✓	✓	✓
C/N	Automatic	✓	✓	✓	✓
Constellation		✓	✓	✓	✓
SCR	EN 50494	✓			

dCSS	EN 50607	Upgrade 593234*			
DVB-S2 digital measurements [Modulations: QPSK, 8PSK]					
Image		✓	✓	✓	✓
Power	From 45to 110 dBμV	✓	✓	✓	✓
Link Margin	Up to 10 dB	✓	✓	✓	✓
MER	Up to 20 dB	✓	✓	✓	✓
LDPCBER	9.9E-2 – 1.0E-6	✓	✓	✓	✓
BCHBER	9.9E-2 – 1.0E-8	✓	✓	✓	✓
Constellation		✓	✓	✓	✓
SCR	EN 50494	✓			
dCSS	EN 50607	Upgrade 593234*			
DVB-T digital measurements [Modulations: COFDM (QPSK, 16QAM, 64QAM)]					
Image		Upgrade 593231	✓	✓	✓
Power	From 45 to 110 dBμV	Upgrade 593231	✓	✓	✓
	From 45 to 120 dBμV	Upgrade 593231 + 593235*	✓ Upgrade 593235*	✓ Upgrade593235*	✓ Upgrade593235*
CBER	9.9E-2 – 1.0E-6	Upgrade 593231	✓	✓	✓
VBER	1.0E-3 – 1.0E-8		✓	✓	✓
MER	Up to 35 dB		✓	✓	✓
C/N	Automatic		✓	✓	✓
Echoes			✓	✓	✓
Constellation			✓	✓	✓
DVB-T2 digital measurements [Modulations: COFDM (QPSK, 16QAM, 64QAM and 256 QAM)]					
Image		Upgrade 593231 + 593232	Upgrade 593232	✓	✓
Power	From 45 to 110 dBμV	Upgrade 593231 + 593232	Upgrade 593232	✓	✓
	From 45 to 120 dBμV	Upgrade 593231 + 593232 + 593235*	Upgrade 593232 + Upgrade 593235*	Upgrade 593235*	Upgrade 593235*
LDPCBER	9.9E-2 – 1.0E-6	Upgrade 593231 + 593232	Upgrade 593232	✓	✓
BCHBER	1.0E-3 – 1.0E-8			✓	✓
Link Margin	Up to 30 dB			✓	✓
MER	Up to 35 dB			✓	✓
C/N	Automatic			✓	✓
Echoes				✓	✓
Constellation				✓	✓
DVB-C digital measurements [Modulations: 16QAM, 32QAM, 64QAM, 128QAM and 256 QAM]					
Image		✓	Upgrade 593233	Upgrade 593233	✓

Power	From 45 to 110 dBμV	✓	Upgrade 593233	Upgrade 593233	✓
	From 45 to 120 dBμV	Upgrade 593235*	Upgrade 593233 + 593235*	Upgrade 593233 + 593235	Upgrade 593235*
CBER	1.E-2 – 1.0E-8	✓	Upgrade 593233	Upgrade 593233	✓
MER	Up to 38	✓			✓
C/N	Automatic	✓			✓
Analogue measurements					
Level	25 y 125 dBμV	✓	✓	✓	✓
V/A		✓	✓	✓	✓
C/N		✓	✓	✓	✓
Measurements and functions					
Analyser WiFi		Upgrade 593250	Upgrade 593250	Upgrade 593250	Upgrade 593250
Analyser IPTV		Upgrade 593251	Upgrade 593251	Upgrade 593251	Upgrade 593251
Terrestrial plans		CCIR, CCIR + LTE, OIRT, KBW, FCC, DAB, SIM			
Satellite plans		68E INTEL C, 68E INTEL, 42E TURK, 39E HELLAS, 33E EUTEL, 28E EUTEL, 28E ASTRA, 26E BADR, 25E EUTEL, 23E ASTRA, 21EEUTEL, 19E ASTRA, 16E EUTEL, 13E HOTB, 10E EUTEL C, 10 EUTEL, 9E EUTEL, 7E EUTEL, 4E ASTRA, 1W THOR5, 1W THOR6,5W EUTELC, 5W EUTEL, 7W NILE, 30W HISPA, 48W AMZC, 48W AMAZ, SIM			
Units		dBμV, dBmV, dBm			
LNB powering		13, 18 Vdc			
LNB tone		22 kHz			

* Ref. 593234 & 593235: Free upgrade when registering the equipment.