



Televes reserves the right to modify the product

H45 COMPACT spectrum analyzer

Unrivalled speed and mathematical precision in all your measurements

The H45 sets a before and after in the certification of HDTV services in commercial and residential installations, for the first time the technicians had at their disposal the mathematical precision of sophisticated laboratory equipment in a portable format.

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|-------------------|------------------------------|
| Ref.599024 | Full HD + CI + DVB-T2 + F.O. |
| Art.Nr | H45E-T2-OR |
| EAN13 | 8424450175439 |
| Ref.599021 | Full HD + CI + DVB-T2 |
| Art.Nr | H45E-T2 |
| EAN13 | 8424450173879 |
| Ref.599022 | Full HD + CI + F.O. |
| Art.Nr | H45E-OR |
| EAN13 | 8424450175453 |
| Ref.599020 | Full HD + CI |
| Art.Nr | H45E |
| EAN13 | 8424450173862 |

Highlights

- Long life battery: over 4 hours duration
- Comfortable and fast: improving productivity during the installation
- Interfaces: integral management of all the signals
- High visibility: you will see it clearer even outdoors

Main features

- Optical interface: Measure FO power and TV quality parameters of the signals transmitted over the FO
- Combo mode: Simultaneous visualization of the TV image (SD or HD), real-time spectrum and all the channel parameters
- Scan & Log: This function can make a frequency sweep test automatically, identifying and measuring any TV channel. When it has finished, the measures from all the TV channels are saved
- Satellite identification: When watching the spectrum, the meter can identify the satellite from the tuned frequency
- Memories: You will be able to save and load easily any TV channel settings
- Macromasures: Automatic and sequential recording of the measures and settings of the channels from a list of memories. It is a powerful tool to automatically analyse all the channels
- Battery Li-Ion 7.4: To ensure the proper and safe operation of the equipment, only batteries manufactured and supplied by Televes should be used.
- HSuite SW allows:
 - Measure management
 - Reports and export of data
 - Channel plan management
 - Quality profile management

Specifications

| Reference | 599020 | 599022 | 599023 | 599021 | 599024 | 599025 |
|--|--------|--------|--------|--------|--------|--------|
| Languages | | | | | | |
| Spanish, English, French, German, Italian, Portuguese, Polish, Russian | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Working bands | | | | | | |
| FM (80 - 110 MHz) | | | | | | |
| Measure and demodulation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Terrestrial (47 - 880 MHz) | | | | | | |
| Measure and demodulation DVB-T | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Measure and demodulation DVB-T2 | - | - | - | ✓ | ✓ | ✓ |
| Measure and demodulation DVB-C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Measure in analogs | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| GSM (860 - 950 MHz) | | | | | | |
| Measure in spectrum | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| SAT (860 MHz - 2220 MHz) | | | | | | |
| Measure in analog. | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Measure and demodulation DVB-S | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Measure and demodulation DVB-S2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Dinamic range | | | | | | |
| Terrestrial: 50 dB | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Satellite: 45 dB | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Measurements and applications | | | | | | |
| Viewing: Analyzer, TV, Combo (Analyzer, TV and simultaneous measures) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Multinorm: PAL (B,G,D,K,I), SECAM (B,G,D,K,L) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Units: dBµV, dBmV, dBm, dBµV/m | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Standars precision: ±1dB (Terrestrial), ±2dB (Satellite) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Quality Check Marks | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Power voltage and previous: 5, 13, 18, 24v | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ExtraBurst: 14 and 19.5V | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Tone 22 KHz | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Diseqc | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| SCR | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Analog | | | | | | |
| Level (-15 - 130 dBµV) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| V/A | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| C/N Automatic (up to 45 dB) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| C/N Line (15 - 52 dB) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Field strength | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Level Bar | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Synchronism | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Teletext | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Digital | | | | | | |
| Power (-15 - 130 dBµV) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| C/N Automatic | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

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|---|---|---|---|---|---|---|
| DVB-T CBER (9.9E-2 – 1.0E-6) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-T VBER (1.0E-3 – 1.0E-8) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-T MER | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-T Power (40 - 125 dBμV) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-T Echos | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-T Constellation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-T MPEG2/MPEG4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-T CAM | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-T2 Link Margin (-1-10 dB) | - | - | - | ✓ | ✓ | ✓ |
| DVB-T2 LDPCBER (1.0E-2 - 1.0E-6) | - | - | - | ✓ | ✓ | ✓ |
| DVB-T2 BCHBER | - | - | - | ✓ | ✓ | ✓ |
| DVB-T2 MER | - | - | - | ✓ | ✓ | ✓ |
| DVB-T2 Power | - | - | - | ✓ | ✓ | ✓ |
| DVB-T2 Constellation | - | - | - | ✓ | ✓ | ✓ |
| DVB-T2 MPEG2/MPEG4 | - | - | - | ✓ | ✓ | ✓ |
| DVB-C BER (1.0E-2 - 1.0E-8) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-C MER | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-C Power (40 - 125 dBμV) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-C Constellation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-C MPEG2/MPEG4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-C CAM | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-S CBER (1.0E-2 - 1.0E-6) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-S BER (1,0E-4 - 1,0E-8) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-S MER | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-S Power (40 - 120 dBμV) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-S MPEG2/MPEG4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-S CAM | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-S2 Link Margin (-1-10dB) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-S2 CBER (1,0E-2 - 1,0E-8) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-S2 BCH BER (5,0E-2 - 1,0E-8) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-S2 MER | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-S2 Power (40 - 120 dB) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-S2 Constellation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-S2 MPEG2/MPEG4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DVB-S2 CAM | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Optics | | | | | | |
| Lambda: 1310 nm, 1490 nm, 1550 nm | - | ✓ | ✓ | - | ✓ | ✓ |
| Units: dBm, mW (μW), dB | - | ✓ | ✓ | - | ✓ | ✓ |
| Selective Optical Measure | - | - | ✓ | - | - | ✓ |
| Programmed Measures | | | | | | |
| Memories | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Macromasures | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Scan&Log | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Ilog | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| DataLogs | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Analyzer | | | | | | |
| SPAN Terrestrial: 5, 10, 20, 50, 100, 200, 500 and FULL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

| | | | | | | |
|---|---|---|---|---|---|---|
| SPAN Satellite: 5, 10, 20, 50, 100, 200, 500 and FULL | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| RBW Auto based on SPAN | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Vertical reference level: 5, 10 dB | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Real time sweep speed <250 ms | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Screen refresing speed <250 ms | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Maximum/Minimum | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 1 Mark | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Input/Output | | | | | | |
| Screen: TFT 5" | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Mini-DIN | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| HDMI | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Optical connector FC/APC | - | ✓ | ✓ | - | ✓ | ✓ |
| RF connector F/F interchangeable | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| CAM | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Speaker | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| External Power | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| USB | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Mechanical/environmental specifications | | | | | | |
| Weight 2.1 Kg (without battery) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Dimensions: 306 x 150 x 125 mm | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Altitude: Up to 2000 m | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Temperature range: 0 - 40 °C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Maximum relative humidity: 80% (bis 31°C), Decreasing linearly up to 50% at 40°C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Maximum consumption: 42 W | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |