

HD RANGER Eco

HD TV ANALYZER FOR PROFESSIONAL

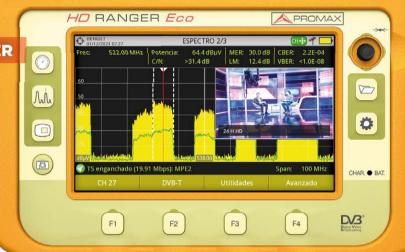
INSTALLERS

INCLUDES 4K SIGNAL IDENTIFIER

The **HD RANGER** *Eco* is a universal TV analyzer that covers a comprehensive mix of broadcast standards around the globe: DVB-T/T2, DVB-C/C2, DVB-S/S2 with MPEG-2 as well as MPEG-4 video. All the standards are managed effortlessly by the analyzer.

One of the most noticeable and stunning features on the new **HD RANGER** *Eco* is the spectrum analyzer. The sweep is super-fast, with an unbeatable refresh rate.

Its processing power allows to display multiple screens either overlapped together or in a split screen format to quickly review all the measurements.









THE BEST VALUE FOR MONEY IN TV & SPECTRUM ANALYZERS

- ✓ Full HD: TV decoder up to 1080p/1080i
- ✓ UHD ready: Includes 4K signal identifier
- ✓ Triple split display: 3 functions in a single screen
- ✓ Perfect for Satellite: Includes DiSEqC, LNB supply...
- ✓ Ultra fast spectrum: Lightning-fast scan, just 70 ms
- ✓ USB connection: Download measurements and screen shots
- ✓ Multistandard: DVB-T/C/S and DVB-T2/C2/S2
- ✓ Echoes analyzer: The best tool to aim antennas with reflections
- ✓ Constellation diagram: Identify problems at a glance
- ✓ 5G and 4G interference analysis: Helps solve mobile phone problems in TV distribution wiring
- ✓ Datalogger: Automatic measurements storage
- ✓ Reports: Generate printable PDF measurement reports
- ✓ Lightweight: More comfortable to use



HD RANGER ECO

SPECIFICATIONS	HD RANGER Eco
GENERAL Inputs and outputs RF input USB Interface Video/Audio input Monitor Display External units power supply Terrestrial Supply Satellite Supply 22 kHz signal DiSEqC Generator Other Dimensiones y Peso Battery Operation Time	F-type male, 75 Ω Mini-USB. Mass storage host, Serial port emulation, USB CDC "Communications Device Class" Jack multipole connector 7" TFT, 16:9 Through the RF input connector External, 5 V, 12 V and 24 V External, 5 V, 13 V, 15 V and 18 V Selectable in Satellite band DiSEqC 2.2 (DiSEqC 1.2 commands implemented) (1) SATCR/SCD (EN50494) and dCSS/SCD2 (EN50607) 290 (An.) x 185 (Al.) x 65 (Pr.) mm. 1,5 kg.
MEASUREMENT MODE Tuning range DVB-T COFDM Measurements DVB-T2 Base and Lite COFDM Measurements DVB-C QAM, J83 Annex C QAM Measurements DVB-C2 QAM Measurements TPAL, SECAM and NTSC analogue TV Supported standards Radio FM Measurements DVB-S QPSK Measurements DVB-S2 QPSK, 8PSK, 16APSK, 32APSK Measurements DSS QPSK Measurements DSS QPSK Measurements	Displayed data: Numeric and Level bar From 5 to 1000 MHz (Terrestrial), 950 to 2150 MHz (Satellite) From 35 dBµV to 115 dBµV Power, CBER, VBER, MER, C/N and Link margin From 35 dBµV to 115 dBµV Power, CBER, C/N, LBER, MER, Link Margin, BCH ESR, LDP Iterations and Wrong packets From 45 dBµV to 115 dBµV Power, BER, MER, C/N and Link margin From 45 dBµV to 115 dBµV Power, CBER, MER, C/N, LBER, BCH ESR, LDP Iterations and Wrong packets M, N, B, G, I, D, K and L From 45 to 1000 MHz Level From 35 dBµV to 115 dBµV Power, CBER, MER, C/N and Link Margin From 35 dBµV to 115 dBµV Power, CBER, MER, C/N, BCH ESR, Wrong packets and Link Margin From 35 dBµV to 115 dBµV Power, CBER, MER, C/N, BCH ESR, Wrong packets and Link Margin From 35 dBµV to 115 dBµV Power, CBER, WBER, C/N, and Noise margin
SPECTRUM ANALYZER MODE Tuning range Reference level Span Measurement range Measurement bandwidth VIDEO	From 45 to 1000 MHz (Terrestrial), from 950 to 2150 MHz (Satellite) From 60 dBμV to 135 dBμV (adjustable in 5 dB steps) Full span / 500 MHz / 200 MHz / 100 MHz / 50 MHz / 20 MHz / 10 MHz From 10 to 130 dBμV 100 kHz
Codecs Maximum image size AUDIO CODECS	MPEG-1, MPEG-2, MPEG-4 AVC H.264. Includes UHD detection. 1920x1080x60i; 1280x720x60p/50p MPEG-1, MPEG-2, HE-AAC, Dolby Digital Plus
TOOLS	Constellation diagram, Dynamic echoes, Attenuation test (2), Datalogger (3), PLS code indicator, ISI filtering
INCLUDED ACCESSORIES	Screen capture key, Field strength, Task planner, H.265 detection Jack 4V/RCA cable, USB on-the-go cable A (female) - mini USB B (male), USB cable USB A (male) - mini USB B (male), Car lighter charger, External DC charger, "F"/f-"DIN"/f adapter, "F"/f-"F"/f adapter, Mains cord, Transport belt, Carrying bag, Quick Reference Guide, Monopod
OPTIONAL ACCESSORIES	AM-030 master aerial, CV-150 Securiy cameras video adapter

- (1) $DiSEqC^{TM}$ is a trademark of EUTELSAT.
- (2) Attenuation Test function designed to be used with **RP-110** multiple pilot generator.
- (3) Using NetUpdate software application under Windows PC platform.

