

HD RANGER 2

Field strength meter for the High Definition Television



DVB-T2/C2/S2

DOLBY DIGITAL PLUS

lte

Optical fibre capable

COMMON INTERFACE

5 GHz RF INPUT

DAB+

CAM module and smart card not included

6th generation of TV & Satellite analysers

- ü Triple split screen: 3 functions in a single screen.
- ü Fast and accurate spectrum analyser.
- ü StealthID: Instant identification of tuning parameters.
- ü Advanced functions for satellite.
- ü Powerful datalogger and installations menu.
- ü Optical fibre + 5 GHz RF input as an option.
- ü Digital radio DAB/DAB+ receiver and analyser as an option.
- ü Expanded connectivity: ASI-TS, Common Interface, HDMI, IPTV.
- ü USB to PC connection.
- ü Constellation diagram. Dynamic echoes analysis.

The **HD RANGER 2** features a new 7" touch screen with excellent brightness and superior image sharpness that can also be used wearing gloves

HD RANGER 2 features all **HD RANGER+** functions (including all second-generation DVB standards) plus IPTV input, Common Interface (CAM)

for encrypted channels, HDMI interface and TS-ASI input/output.

Optical measurements and 3 GHz band extension can also be included as an option, thus converting the **HD RANGER 2** in an all-purpose field strength meter.

HD RANGER 2

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SPECIFICATIONS	HD RANGER 2
GENERAL SPECIFICATIONS Inputs and outputs RF input Video/Audio input/output DVB-ASI input/output IP interface USB interface Monitor display External units power supply Terrestrial band Satellite band 22 kHz signal DiSEqC generator Dimensions and Weight Battery operation time Included accessories	F male connector, 75 Ω 2 jack multipole connectors BNC female, 75 Ω (max bitrate 80 Mbps) RJ45 connector, ethernet 10/100/1000 Mbps. UDP/RTP protocol Mini-USB. Mass storage host, Serial port emulation, USB CDC "Communications Device Class" 7" touch screen TFT, 16:9 Through the RF input connector External, 5, 12 and 24 V External, 13 V, 15 V, 18 V Selectable in Satellite band According to DiSEqC 1.2 standard 295 (100) in continuous mode (D.) mm. Jack 4V/RCA cable, USB Cable On-the-go (A) Male – Mini USB (B) Male connection cable, USB Cable (A) Female – Mini USB (A) Male connection cable, Car lighter charger, External DC charger, F/H to BNC/H / DIN/H / F/H adapters, Mains cord, Transport belt, Carrying bag, Transport suitcase, Quick Ref.
MEASUREMENT MODE Frequency margin DVB-T COFDM DVB-T2 Base and Lite COFDM DVB-C QAM, J83 Annex C QAM DVB-C2 COFDM PAL, SECAM and NTSC analogue television FM radio DVB-S QPSK DVB-S2 QPSK, 8PSK, 16APSK, 32APSK DSS QPSK	Displayed data: Numeric and level bar From 5 to 1000 MHz (Terrestrial), from 950 to 2150 MHz (Satellite) Power (35 to 115 dB μV), CBER, VBER, MER, C/N, Link margin. Power (35 to 115 dB μV), CBER, C/N, LBER, MER, Link Margin, BCH ESR, LDP iterations, wrong packets Power (45 to 115 dB μV), BER, MER, C/N and Link margin Power (45 to 115 dB μV), CBER, MER, C/N, LBER, BCH ESR, LDP iterations and wrong packets M, N, B, G, I, D, K and L Level measurement Power (35 to 115 dB μV), CBER, MER, C/N and Link Margin Power (35 to 115 dB μV), CBER, LBER, MER, C/N, BCH ESR, wrong packets and Link Margin Power (35 to 115 dB μV), CBER, VBER, MER, C/N and Noise margin
SPECTRUM ANALYSER MODE Frequency margin Reference level Span Measurement range Measurement bandwidth	From 5 to 1000 MHz (Terrestrial), from 950 to 2150 MHz (Satellite) From 60 dB μV to 135 dB μV (Adjustable in steps of 5 dB) Full span / 500 MHz / 200 MHz / 100 MHz / 50 MHz / 20 MHz / 10 MHz From 100 kHz to 130 dBμV
VIDEO Codecs Max image size HDMI output resolution	MPEG-1, MPEG-2, MPEG-4 AVC H.264 1920x1080x60i; 1280x720x60p/50p 1920x1080
AUDIO CODECS	MPEG-1, MPEG-2, HE-AAC, Dolby Digital and Dolby Digital Plus
TOOLS	Constellation diagram, Dynamic echoes analysis, LTE Ingress test, Attenuation Test , Datalogger mode (2)
OPTIONS	Optical fibre (Selective OPM + Optical to RF converter + 5 GHz aux RF input) PLS code selection, ISI filtering, Transport Stream Analyser, Transport Stream Recording, Screenshots key, DAB / DAB+ digital radio MER by carrier, Merogram, Spectrogram, Signal monitoring, Field strength, Task planner, H.265 detection GPS (3)

DESIGN AND SPECIFICATIONS SUBJECT TO CHANGES WITHOUT PRIOR NOTICE 11-15

(1) DiSEqC™ is a trademark of EUTELSAT.

(2) Attenuation Test function designed to be used with RP-110 multiple pilot generator.

(3) Using NetUpdate 4 software application under Windows PC platform.