

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+

6th generation of TV & Satellite analysers

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

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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 ⁽¹⁾ 290 (W.) x 185 (H.) x 95 (D.) mm. 2.2 kg. > 5 hours in continuous mode 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. Guide
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 dBμV), CBER, VBER, MER, C/N, Link margin. Power (35 to 115 dBμV), CBER, C/N, LBER, MER, Link Margin, BCH ESR, LDP iterations, wrong packets Power (45 to 115 dBμV), BER, MER, C/N and Link margin Power (45 to 115 dBμV), 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 dBμV), CBER, MER, C/N and Link Margin Power (35 to 115 dBμV), CBER, LBER, MER, C/N, BCH ESR, wrong packets and Link Margin Power (35 to 115 dBμV), 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 dBμV to 135 dBμV (Adjustable in steps of 5 dB) Full span / 500 MHz / 200 MHz / 100 MHz / 50 MHz / 20 MHz / 10 MHz From 10 to 130 dBμV 100 kHz
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 ⁽²⁾ , Datalogger mode ⁽³⁾ , PLS code selection, ISI filtering, Transport Stream Analyser, Transport Stream Recording, Screenshots key, MER by carrier, Merogram, Spectrogram, Signal monitoring, Field strength, Task planner, H.265 detection
OPTIONS	Optical fibre (Selective OPM + Optical to RF converter + 5 GHz aux RF input) DAB / DAB+ digital radio GPS

DESIGN AND SPECIFICATIONS SUBJECT TO CHANGES WITHOUT PRIOR NOTICE 05-15

(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.