

## 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

- ✓ 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.

## HD RANGER 2

Field strength meter for the High Definition Television

SPECIFICATIONS	HD RANGER 2
<b>GENERAL SPECIFICATIONS</b> 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 <sup>(1)</sup> 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
<b>MEASUREMENT MODE</b> 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
<b>SPECTRUM ANALYSER MODE</b> 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
<b>VIDEO</b> Codecs Max image size HDMI output resolution	MPEG-1, MPEG-2, MPEG-4 AVC H.264 1920x1080x60i; 1280x720x60p/50p 1920x1080
<b>AUDIO CODECS</b>	MPEG-1, MPEG-2, HE-AAC, Dolby Digital and Dolby Digital Plus
<b>TOOLS</b>	Constellation diagram, Dynamic echoes analysis, LTE Ingress test, Attenuation Test <sup>(2)</sup> , Datalogger mode <sup>(3)</sup> , 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
<b>OPTIONS</b>	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 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.