

## HD RANGER *Eco*

Field strength meter for the High Definition Television



**DVB-T2/C2/S2**

### 6th generation of TV & Satellite analysers

- ✓ Triple split display: 3 functions in a single screen.
- ✓ Fast and accurate spectrum analyser.
- ✓ StealthID: Identifying the tuning parameters.
- ✓ Advanced satellite functions.
- ✓ Powerful datalogger and installation menu.
- ✓ USB PC Connection.
- ✓ Constellation diagram.
- ✓ Dynamic echoes analysis.

The **HD RANGER Eco** is a universal field strength meter that covers a comprehensive mix of broadcast standards around the globe. The latest developments in broadcast technology such as DVB-T/C/S/S2 with MPEG-2 as well as MPEG-4 video are managed effortlessly within the product.

One of the most noticeable and stunning features on the new **HD RANGER Eco** product is the ultra fast spectrum analyser. As soon as you use the analyser you will experience this outstanding feature as one of the major changes we have adopted in the new product allowing you to sweep faster and more accurately.

The introduction of the latest technology within the product allows you to display multiple screens either overlapped together or in a split screen format.

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## Field strength meter for the High Definition Television

SPECIFICATIONS	HD RANGER <i>Eco</i>
<b>GENERAL</b> Inputs and outputs RF input USB Interface Video/Audio input Monitor Display Ext. Unit Power (through RF input connector) Terrestrial Supply Satellite Supply 22 kHz signal DiSEqC Generator Dimensions & Weight Battery Operation Time Included Accessories	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  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 65 (D.) mm. 1.6 kg. > 2 hours in continuous mode Connection USB Cable On-the-go (A) Male – Mini USB (B) Male, USB Cable (A) Female – Mini USB (A) Male, Car lighter charger, External DC charger, F/H adapters to BNC/H / DIN/H / F/H, Mains cord, Transport belt, Carrying bag, Quick Reference Guide
<b>MEASUREMENT MODE</b> Tuning range DVB-T COFDM Measures DVB-T2 Base and Lite COFDM Measures DVB-C QAM, J83 Annex C QAM Measures DVB-C2 COFDM Measures Analogue TV PAL, SECAM and NTSC Standard supported FM radio Measures DVB-S QPSK Measures DVB-S2 QPSK, 8PSK, 16APSK, 32APSK Measures DSS QPSK Measures	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, BCH ESR, LDP Iterations, Link Margin 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, Link Margin and Wrong packets  M, N, B, G, I, D, K and L  Level From 35 dBμV to 115 dBμV Power, CBER, MER, C/N and Link Margin From 35 dBμV to 115 dBμV Power, CBER, LBER, MER, C/N, BCH ESR, Wrong Packets and Link Margin From 35 dBμV to 115 dBμV Power, CBER, VBER, MER, C/N, Link Margin and Noise Margin
<b>SPECTRUM ANALYSER MODE</b> Tuning range Reference Level Span Measurement range Measurement bandwidth	From 5 to 1000 MHz (Terrestrial), 950 to 2150 MHz (Satellite) From 70 dBμV to 120 dBμV (Adjustable in steps of 5 dB) Full span / 500 MHz / 200 MHz / 100 MHz / 50 MHz / 20 MHz / 10 MHz From 20 to 120 dBμV 100 kHz
<b>VIDEO</b> Codecs Maximum Image Size	MPEG-1, MPEG-2, MPEG-4 AVC H.264 1920x1080x60i; 1280x720x60p/50p
<b>AUDIO CODECS</b>	MPEG-1, MPEG-2, HE-AAC, Dolby Digital Plus
<b>TOOLS</b>	Constellation diagram, Dynamic echoes, Attenuation Test <sup>(2)</sup> , Datalogger <sup>(3)</sup> , PLS indicator, ISI filtering, Screen capture Key, Signal monitoring, Field strength, Task planner, H.265 detection

(1) DiSEqC™ 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.



# HD FIELD STRENGTH METER



**5 GOLDEN RULES**  
to choose your next  
**FIELD STRENGTH METER**



**Professional**



**Power**



**Battery life**



**Ergonomics**



**Functions**



**SCAN** for more info



**HD RANGER Eco**



**HD RANGER UltraLite**



**RANGER Neo Lite**

Digital inputs	DVB-T/C/S DVB-T2/C2/S2 DOLBY DIGITAL PLUS	DVB-T/C/S DVB-T2/C2/S2 DOLBY DIGITAL PLUS	DVB-T/C/S DVB-T2/C2/S2 DOLBY DIGITAL PLUS
H.265 HEVC			✓
H.264 MPEG-4 MPEG-2	✓	✓	✓
Touch screen			✓
LCD size	7"	7"	7"
Wideband LNB			✓
2.4 GHz WiFi analyser			✓
Datalogger	✓	✓	✓
Ultra fast spectrum	✓	✓	✓
Triple split display	✓	✓	✓
Constellation diagram	✓	✓	✓
Dynamic echoes analysis	✓	✓	✓
HDMI output			✓
Video input	✓	✓	✓



**OPTIONAL**



**INCLUDED**

## Applications



Aerials, residential, MDUs, FSM, LTE interference



DTH, VSAT, TI, TVRO, earth station



Outside broadcasting (OB Vans), SNG, Flyaway



Headend and network installation. Subscriber outlet test.



Home network, commercial, point to point

