

HD RANGER *UltraLite*



DVB-T2/C2/S2

DOLBY DIGITAL PLUS

Ultra fast spectrum analyser

lte



The **HD RANGER *UltraLite*** 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/T2, DVB-C/C2, DVB-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 *UltraLite*** product is the ultra fast spectrum analyser. As soon as you use the analyser you will experience this outstanding feature of the **HD RANGER** product family.

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

the tablet-sized field strength meter



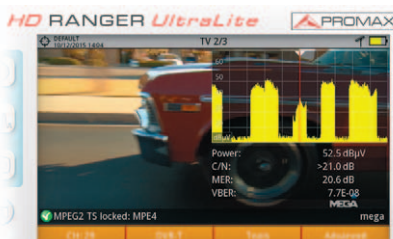
Less weight and volume:
1.4 kg



Firmware updating via Internet



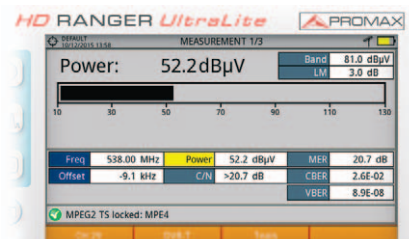
HD RANGER performance and speed



Triple split display:
3 functions in a single screen



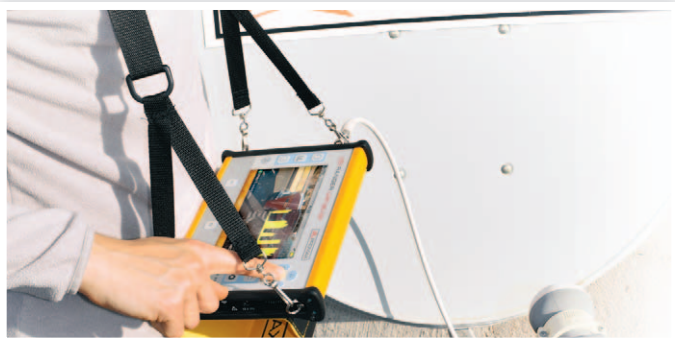
Fast and accurate spectrum analyser



All measurements in a single screen

HD RANGER *UltraLite*

Field strength meter for the High Definition Television



A true hands-free instrument

The analyser is easier to use thanks to its exclusive design shoulder strap.

Reports and updates

Download measurement reports to your PC and install new functions in your analyser at no cost.

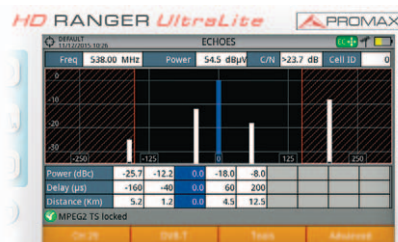


Fast, powerful and accurate

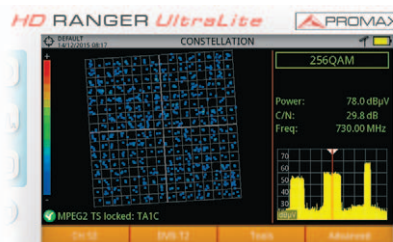
A new form factor with the recognised quality of all PROMAX field strength meters.

Even easier to carry away

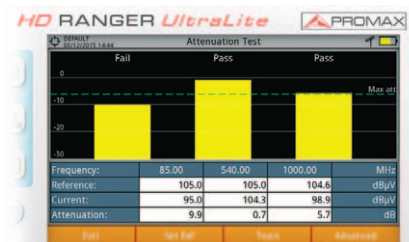
It is handy and lightweight. Small and portable. A more transportable field strength meter.



Dynamic echoes analyser



Constellation diagram



Attenuation test

HD RANGER *UltraLite*

Field strength meter for the High Definition Television



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✓ Included

○ Optional



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UltraLite



HD RANGER+



HD RANGER
2

Digital standards

	DVBT/C/S DVBT2/C2/S2 DOLBY DIGITAL PLUS	DVBT/C/S DVBT2/C2/S2 DOLBY DIGITAL PLUS	DVBT/C/S DVBT2/C2/S2 DOLBY DIGITAL PLUS	DVBT/C/S DVBT2/C2/S2 DOLBY DIGITAL PLUS
Weight	1.6 kg	1.4 kg	1.9 kg	2.2 kg
Dynamic echoes analysis	✓	✓	✓	✓
Firmware updates	✓	✓	✓	✓
Upgradable with new functions		✓	✓	✓
Audio/Video input		✓	✓	✓
Audio/Video output			✓	✓
Merogram and Spectrogram			✓	✓
Signal monitoring			✓	✓
MER by carrier measurement			✓	✓
Internal LTE filters			✓	✓
Touch screen				✓
HDMI output				✓
IPTV input				✓
ASI-TS input and output				✓
Encrypted channels (CAM module)				✓
Transport Stream analyser				✓
Optical fibre measurements			○	○
GPS			○	○

HD RANGER *UltraLite*

Field strength meter for the High Definition Television

SPECIFICATIONS	HD RANGER <i>UltraLite</i>
GENERAL Inputs and outputs RF input USB interface Video/Audio input Monitor Display External Unit Power supply 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" Multipole jack connector 7" TFT, 16:9 Through 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⁾ 245 (W.) x 177 (H.) x 39 (D.) mm. 1.4 kg. > 2 hours in continuous mode RCA to multipole jack adaptor cable for Video and Left/Right audio, 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
MEASUREMENT MODE 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, NTSC Standard supported Radio FM 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), from 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 De 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
SPECTRUM ANALYSER MODE Tuning range Reference Level Span Measurement range Measurement bandwidth	From 5 to 1000 MHz (Terrestrial), from 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
VIDEO Codecs Maximum image size	MPEG-1, MPEG-2, MPEG-4 AVC H.264 1920x1080x60i; 1280x720x60p/50p
AUDIO CODECS	MPEG-1, MPEG-2, HE-AAC, Dolby Digital Plus
TOOLS	Constellation diagram, Dynamic echoes, Attenuation Test ⁽²⁾ , Datalogger ⁽³⁾ , PLS indicator, ISI filtering, Screen capture key, Field strength, Task planner, H.265 detection

DESIGN AND SPECIFICATIONS ARE SUBJECT TO CHANGES WITHOUT PRIOR NOTICE 12-15

(1) DiSEqC™ is a trademark of EUTELSAT.

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

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