

## 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*



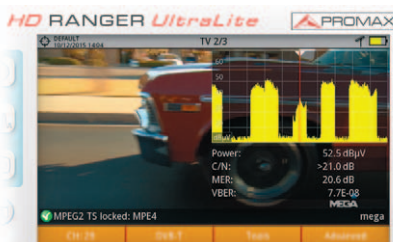
Less weight and volume:  
1.4 kg



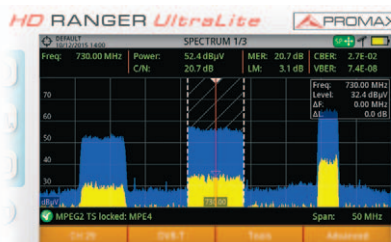
Firmware updating via Internet



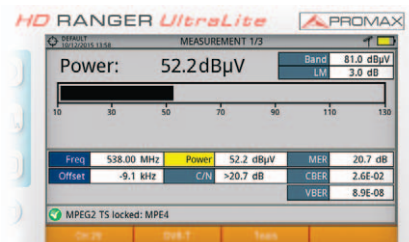
**HD RANGER** performance and speed



Triple split display:  
3 functions in a single screen



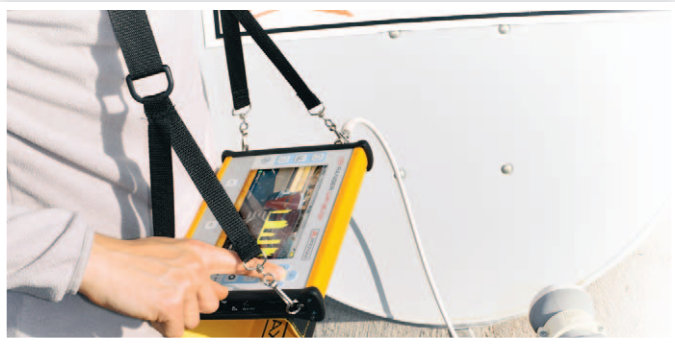
Fast and accurate spectrum analyser



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.

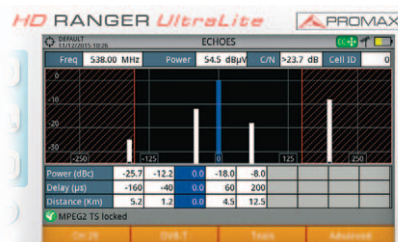


### Fast, powerful and accurate

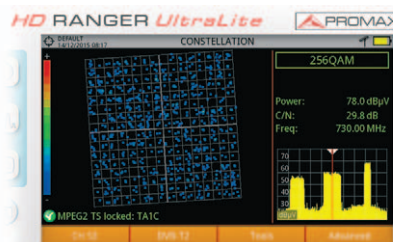
A new form factor with the recognised quality of all PROMAX field strength meters.

### Even easier to carry away

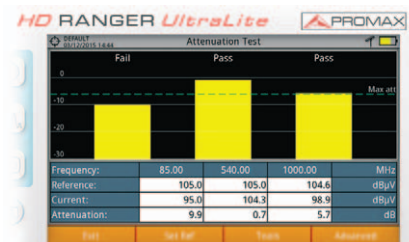
It is handy and lightweight. Small and portable. A more transportable field strength meter.



Dynamic echoes analyser



Constellation diagram



Attenuation test

## HD RANGER *UltraLite*

Field strength meter for the High Definition Television



HD RANGER

✓ Included

○ Optional



**HD RANGER**  
*Lite*



**HD RANGER**  
*UltraLite*



**HD RANGER+**



**HD RANGER**  
*2*

Digital standards

**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**

**DVB/T/C/S**  
**DVB/T2/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>
<b>GENERAL</b> 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 <sup>(1)</sup> 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
<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, 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
<b>SPECTRUM ANALYSER MODE</b> 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
<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, 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.