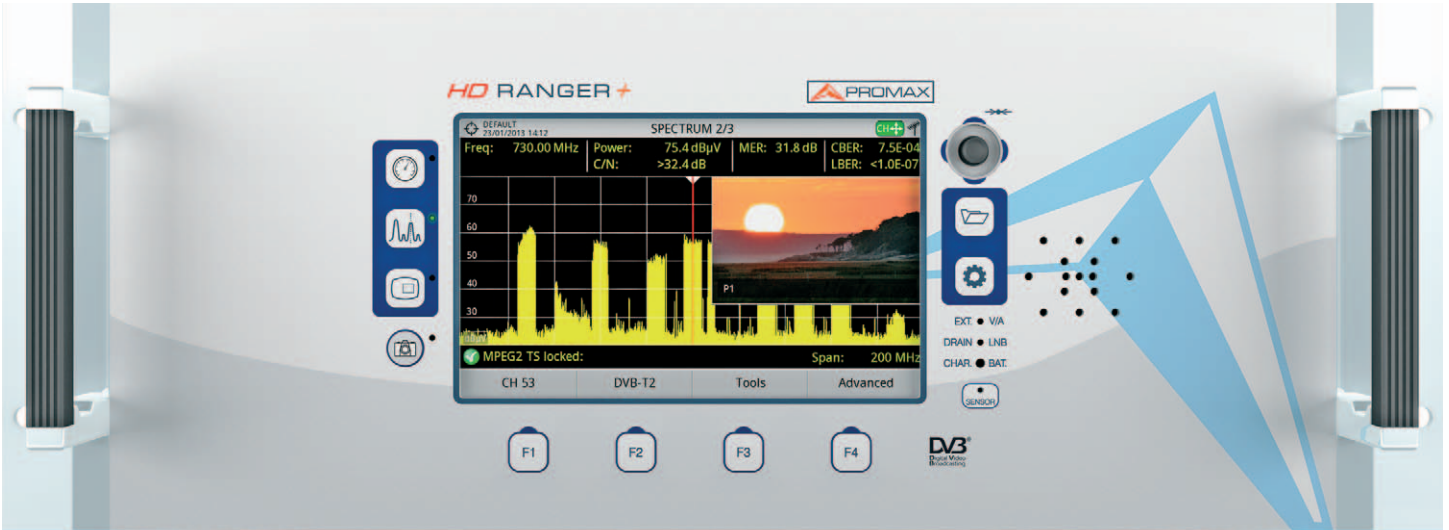


HIGH DEFINITION FIELD STRENGTH METER (19" RACK VERSION)



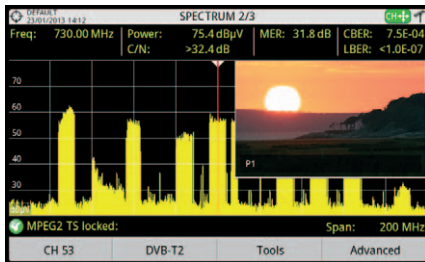
DVB-T2/C2/S2
DVB-T2 lite

DOLBY
DIGITAL PLUS

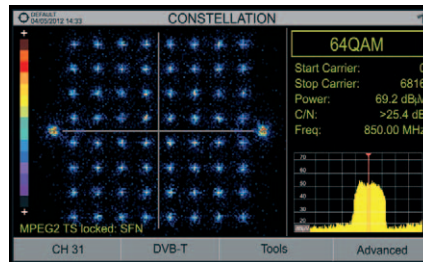
MPEG-4
HDTV

Lte

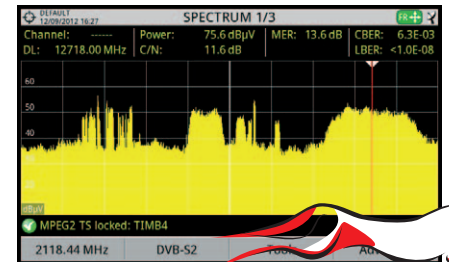
R·D·S
RADIO DATA SYSTEM



Triple split display:
Spectrum, Measurements and Picture in a single screen



Constellation diagram for all
second generation DVB systems (DVB-T2 / C2 / S2)



Ultra fast spectrum analyser:
90 ms sweep time for All SPANS

- ✓ Video decoding: MPEG-2 and MPEG-4 H.264 for 1080i, 720p and 576i
- ✓ Audio decoding: Dolby Digital Plus, AAC, MPEG-2, MPEG-1 and FM RDS
- ✓ Video formats: SD (standard definition) and HD (high definition)
- ✓ Formatos de pantalla 16:9 y 4:3
- ✓ Ultra fast spectrum analyser: 90ms sweep time
- ✓ Second generation DVB: DVB-T2, DVB-T2 *lite*, DVB-C2, DVB-S2 (it also includes DVB-T/C/S)
- ✓ Dynamic echoes analysis
- ✓ PLS-compatible under DVB-S2
- ✓ LTE filter for detecting interferences of 4G transmissions



HIGH DEFINITION FIELD STRENGTH METER (19" RACK VERSION)

SPECIFICATIONS	HD RANGER+
GENERAL Digital frequency synthesis Tuning modes Channel plan Resolution Analogue and digital signal identification	From 5 to 1000 MHz (terrestrial) and from 950 to 2150 MHz (satellite) Channel or frequency (IF or downlink at satellite band) Configurable on demand 10 kHz Automatic, with no user intervention
VIDEO Digital modulations Resolutions Video formats SI/PSI data Colour system TV standard Aspect ratio	DVB-T2, DVB-T2 <i>lite</i> , DVB-S2, DVB-C2, DVB-T, DVB-S, DVB-C 1080, 720, 576. Progressive or interlaced MPEG-2 (MP@HL), MPEG-4 AVC H.264 Service list and main PIDs PAL, NTSC, SECAM M, N, B, G, I, D, K and L 16:9, 4:3
DIGITAL AUDIO CODECS	MPEG-1, MPEG-2, HE-AAC, Dolby Digital, Dolby Digital Plus
RF INPUT Maximum signal Maximum input voltage DC to 100 Hz 5 MHz to 2150 MHz	Universal connector with BNC or F adapter, 75 Ω 130 dBμV 50 V rms (powered by the AL-103 power charger) 30 V rms (not powered by the AL-103 power charger) 140 dBμV (protected at least for 30 seconds)
DIGITAL MEASUREMENTS DVB-T2 (COFDM) DVB-S2 (QPSK/8PSK) DVB-C2 (COFDM) DVB-T (COFDM) DVB-S (QPSK), DSS DVB-C (QAM), J83 Annex C QAM	Numeric and level bar indication Channel power, CBER, MER (up to 35 dB), C/N ratio, LBER, BCH ESR, LDPC iterations, Wrong packets Channel power, CBER, LBER, MER (up to 30 dB), C/N ratio, BCH ESR, Wrong packets, Link margin Channel power, CBER, MER (up to 35 dB), C/N ratio, LBER, BCH ESR, LDPC iterations, Wrong packets Channel power, CBER, VBER, MER (up to 35 dB), C/N ratio, Link margin Channel power, CBER, VBER, MER (up to 30 dB), C/N ratio, Link margin Channel power, BER, MER (up to 35 db), C/N ratio, Link margin
ANALOGUE MEASUREMENTS	Level, V/A ratio, C/N ratio (terrestrial bands) / Level, C/N ratio (satellite bands)
SPECTRUM ANALYSER MODE Measurement range and bandwidth Selectable SPAN Markers Reference level Measurements Analogue channels Digital channels Spectrum range	From 10 dBμV to 130 dBμV. Bandwidth 100 kHz <i>Full span</i> (full band) - 500 - 200 - 100 - 50 - 20 - 10 MHz 1, with frequency and level indication From 65 dBuV to 135 dBuV (5 dB steps) V/A ratio (terrestrial only), Level, C/N ratio Channel power, C/N ratio, MER, BER (according to modulation type) SPAN, Dynamic range and Reference level (available by means of arrow cursors)
TOOLS & ADVANCED FUNCTIONS	Constellation diagram for DVB-T2/S2/C2 and DVB-T/S/C Echoes analyser mode for DVB-T2/C2 and DVB-T Datalogger (automatic measurement acquisition and storage) ⁽¹⁾ LTE ingress for DVB-T2 and DVB-T Attenuation test function (signal distribution network response) ⁽²⁾ DiSEqC™ 1.2 generator ⁽³⁾ . External units supply: 5/12/13/18/24V + 22 kHz signal (depending on band) PLS sequence detector ISI filtering for second generation DVB standards (DVB-T2, DVB-C2, DVB-S2) FM radio with RDS decoder (Radio Data System) Screenshot key USB interface: flash drive mass storage, serial port emulation, CDC "Communicacions Device Class" Signal monitoring, Field strength, Task planner, H.265 detection
CONNECTIONS	USB, Input and output Video/Audio multipole jacks
INCLUDED ACCESSORIES	RCA to multipole jack adaptor cable for Video and Left/Right audio F adapters: F/H to BNC/H, F/H to DIN/H, F/H to F/H
MECHANICAL FEATURES Dimensions Weight	483 (W.) x 177 (H.) x 73 (D.) mm. 3 ¾ kg. approx.

DESIGN AND SPECIFICATIONS ARE SUBJECT TO CHANGES WITHOUT PRIOR NOTICE. 05/15.

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

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

(3) DiSEqC™ is a trademark of EUTELSAT.