

A NEW STANDARD IN FIELD STRENGTH METERS

TV, CABLE, SATELLITE & WIFI ANALYSER







RANGERNeo +





EASY OPERATION

Hybrid user interface (touch + keyboard)



HEVC H.265

High Efficiency Video Codec



WIFI ANALYSER

Dual display: SPECTRUM and DATA



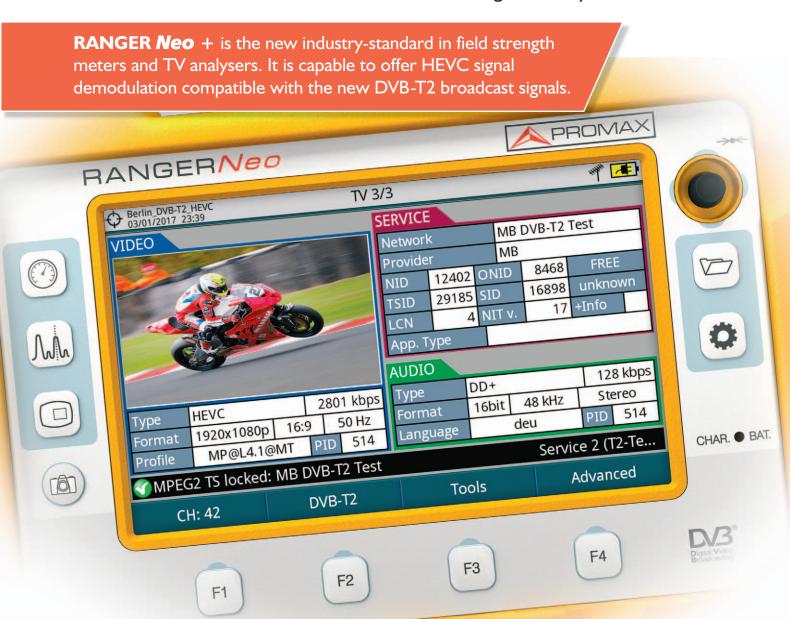
WIDEBAND LNB

The entire SAT band on a single SPAN



The future today

HEVC H.265 DECODING High Efficiency Video Codec







TRIPLE SPLIT DISPLAY

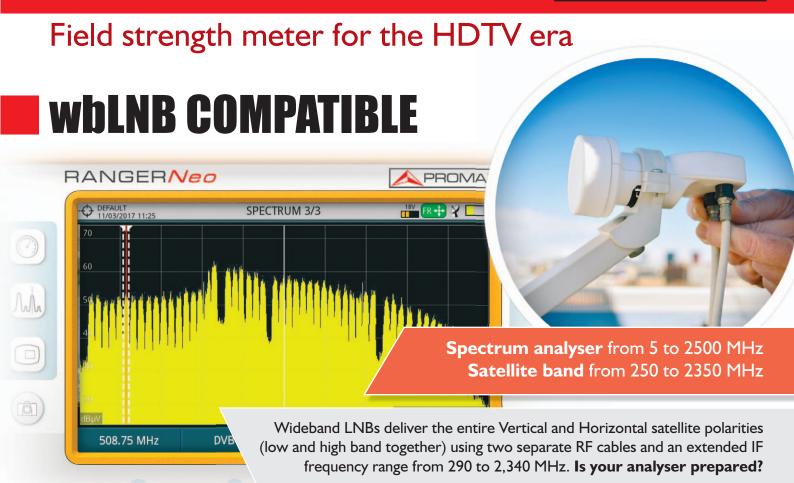


ULTRA FAST SPECTRUM



FREE FIRMWARE UPDATES





DCSS LNBS Digital Channel Stacking Switch satellite LNB

Digital Channel Stacking Switch LNB can support several users on a single cable distribution system by allocating specific user bands for each of them. It is not possible to work with this type of LNB unless your field strength meter can communicate using EN50494 and EN50607 standard protocols.

This is the case of RANGER Neo + which also covers JESS and SATCR.





Be ready for the future

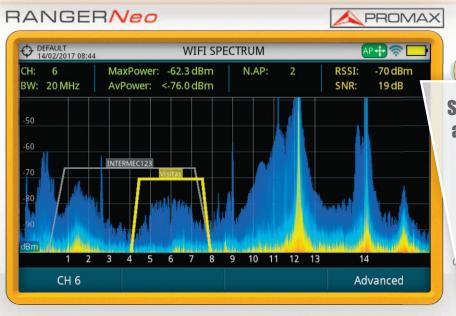
2.4 GHz WiFi ANALYSER Improve your network performance





Your analyser for the new world

2.4 GHz WiFi ANALYSER Improve your network performance



Simultaneous real spectrum analyser information

+ WiFi access point data

WiFi signals can be disturbed by interference from other WIFI stations, for example other access points, but also from non-WIFI signals such as wireless CCTV cameras or, like in the picture, a microwave oven! RANGER Neo + can display both simultaneously.

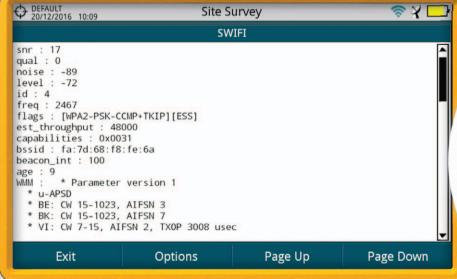
RANGER Neo + shows convenient information from the access points such as SSID, RSSI, SNR, security information, etc. It also indicates the number of access points per channel.









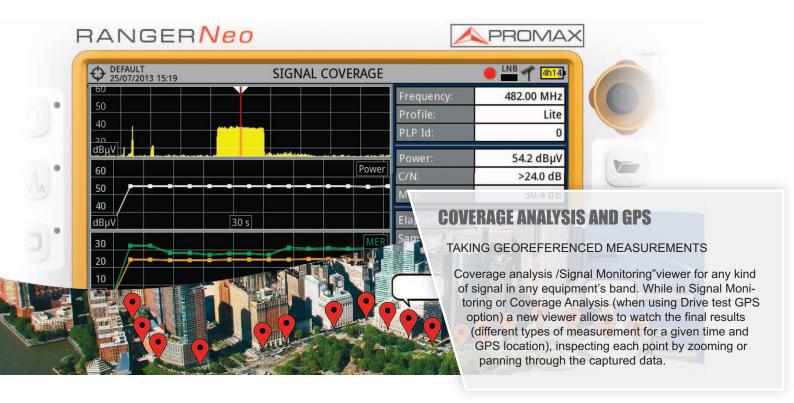




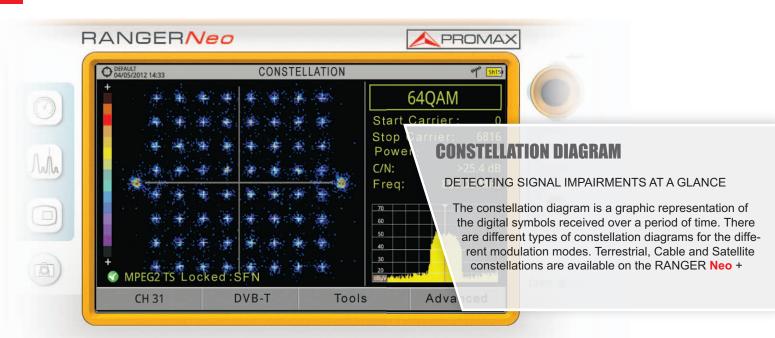


State-of-the-art functions

DRIVE TEST GPS - OPTION



CONSTELLATION DIAGRAM

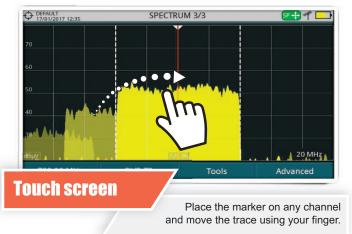


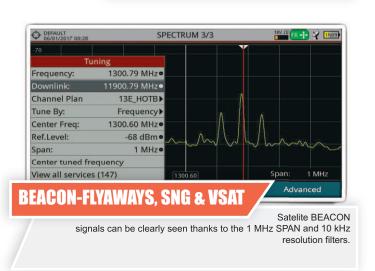


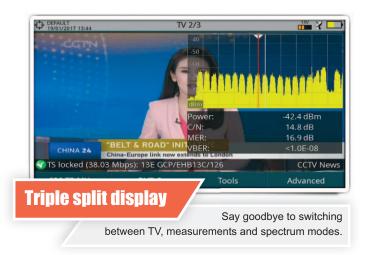
Fast and accurate spectrum analyser

PROFESSIONAL SPECTRUM ANALYSER



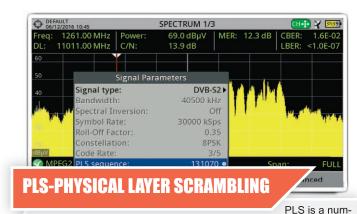








Display them separately or simultaneously along with the current spectrum trace.

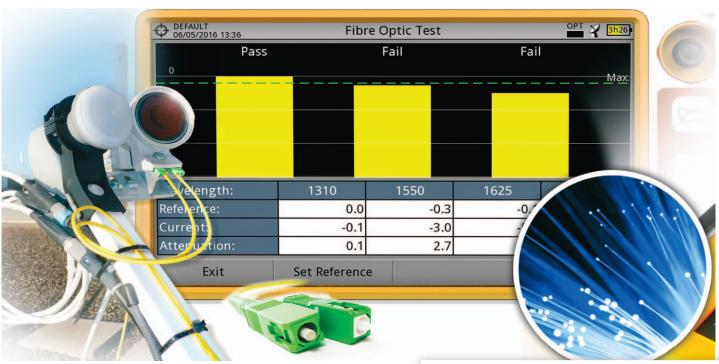


ber generated by the broadcaster that must be properly decoded by the customer so that demodulation is possible.



Enjoy a wide variety of functions

OPTICAL MEASUREMENTS-OPTION



Selective Optical-to-RF converter

RFoG (Radiofrequency-over-Glass), as well as optical TV&SAT distribution, is used more and more by operators because it allows them to benefit from the advantages of fibre optics to compete with FTTH service providers. The RF signal at the converter output can be analyzed, measured and decoded by the meter as one would usually do with any signal over copper wires.

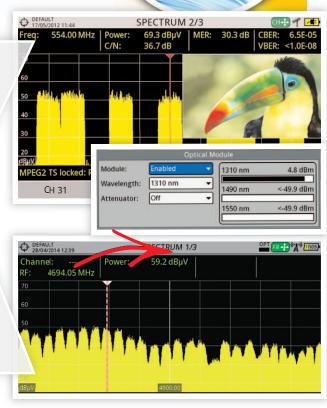
6 GHz RF Auxiliary input

The RANGERNeo + optical fibre option comes along with 6 GHz RF auxiliary input which can be used among other applications for direct connection to **wholeband LNB**'s with **5.4 GHz** RF output. This auxiliary input covers three bands:

Band I From 2000 MHz to 3000 MHz

Band II From 3400 MHz to 4400 MHz

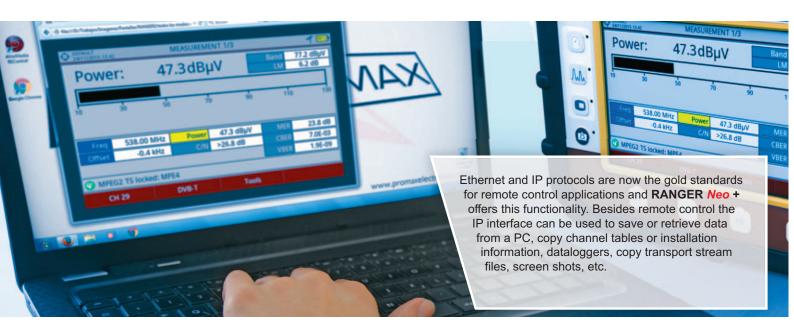
Band III From 4400 MHz to 6000 MHz





Enjoy a wide variety of functions

ETHERNET CONNECTIVITY remote control and web server



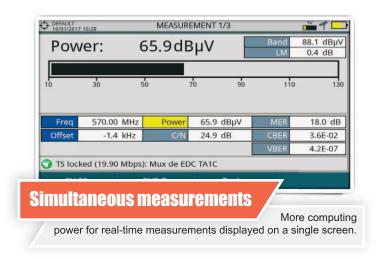
MORE INTERNAL MEMORY up 7 GB for user data





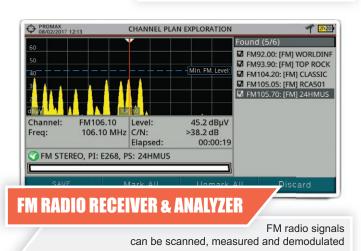
Enjoy a wide variety of functions

MANY USEFUL FUNCTIONS





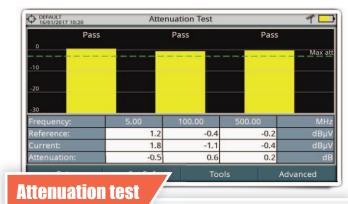
A must-have utility for testing DVB-T. DVB-T2 and DVB-C2 networks.



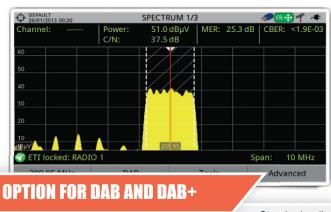
DLVIEWER: [DL00] 18V SP + 2 TP02 2011-11-30 Tim 15 FAI 01:57:32 PAS 27 DVB-T 64.1 dBµV >31.2 dB 25.6 dB 8.0 dB 31 DVB-T 66.3 dBµV >33.2 dB 30.6 dB 13.0 dB DVB-T 11.9 dB 33 65.8 dBµV >33.2 dB 29.5 dB 34 DVB-T 69.4 dBuV >35.7 dB 30.8 dB 13.2 dB 36 DVB-T 77.1 dBµV 42.0 dB 33.4 dB 15.8 dB Unknown 36.3 dBuV Test Point

Datalogger and Test&Go

Collect data for your reports faster and easier using the auto-setup Test&Go.



Test the frequency response of your installation using RP-050, RP-080, RP-110B signal generators.



Standard radio

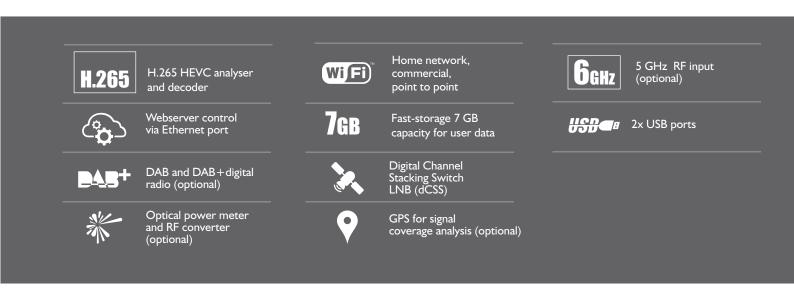
services can be detected, measured, analysed and demodulated.



A new breed of analysers for a new world

LTE INGRESS TEST







A NEW STANDARD IN FIELD STRENGTH METERS

TV, CABLE, SATELLITE & WIFI ANALYSER

SPECIFICATIONS	RANGER Neo +		
DIGITAL STANDARDS	DVB-T, DVB-T2, DVB-T2 lite DVB-C, DVB-C2 DVB-S, DVB-S2, DVB-S2 Multistream, DSS, ACM / VCM		
AUDIO CODECS	MPEG-1, MPEG-2, HE-AAC, Dolby Digital, Dolby Digital Plus		
VIDEO CODECS	MPEG-2, MPEG-4 / H.264, HEVC / H.265		
INPUTS AND OUTPUTS	Universal RF connector 75 Ω HDMI output IP input for remote control Analogue Video/Audio input 2 USB connectors for data tranferring and GPS module (Type A)		
FUNCTIONS	Merogram and Spectrogram Constellation diagram for all DVB standards StealthID (instant identification of tuning parameters) PLS (Physical Layer Scrambling) Ultra fast spectrum analyser (70 ms sweeping time) with max. and min. hold Screenshots and Datalogger for measurement reports Field strength Measurements Dynamic echoes analysis	Wideband LNB WiFi 2.4 GHz LTE 1.8 GHz LTE OTT FM RDS radio measurements and decoding DVB-S2 multistream GPS Coverage Analysis (option)	Resolution Bandwidth: 100, 200 kHz, 1 MHz Task planner Web server MER by Carrier Signal monitoring Service Recording Beacon-Flyaways SNG & VSAT
MEASUREMENT MODE Frequency Margin DVB-T COFDM DVB-T2 Base and Lite COFDM DVB-C QAM DVB-C2 COFDM PAL, SECAM and NTSC analogue TV FM radio DVB-S QPSK DVB-S2 QPSK, 8PSK, 16APSK, 32APSK DSS QPSK	From 5 - 1000 MHz (Terrestrial) From 250 - 2350 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, LBER, MER, C/N, and Noise margin		
SPECTRUM ANALYZER Frequency Margin Measurement range Span	From 5 - 1000 MHz (Terrestrial) From 250 - 2500 MHz (Satellite) From 10 - 130 dB _µ V Full / 500 / 200 / 100 / 50 / 20 / 10 MHz		
OPTIONS OP-001-PS OP-001-WL OP-001-DAB+ OP-001-GPS OP-001-19	OPM & OPT to RF conv & WiFi 5 GHz & LTE 2.6 GHz WiFi 5 GHz & LTE 2.6 GHz DAB, DAB+ GPS Coverage Analysis For rack assembly		
INTERNAL STORAGE	7 GB for measurement protocols, screenshots and transport stream recordings		
PC CONNECTION (via ethernet interface)	NetUpdate 4 (free software); Free and automatic firmware updates; Remote control (webserver); User customised channel plans; Measurement reports and screenshot;		
GENERAL	Hybrid operation: Touch screen (7") or conventional keyboard Battery >4 h. in continuous mode DiSEqC 1.2 SATCR / SCD (EN50494) DCSS / SCD2 (EN50607)		