



BROADCAST, CABLE, SATELITE,
IPTV, OPTICAL FIBRE AND WIFI

TV & SPECTRUM ANALYZERS

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SPECIFICATIONS	RANGER Neo Lite	RANGER Neo +	RANGER Neo 2	RANGER Neo 3	RANGER Neo 4		
DIGITAL BROADCAST STANDARDS	DVB-T/T2, DVB-T2 lite DVB-C/C2 DVB-S/S2 DVB-S2 Multistream ISDB-T/Tb DSS, ACM / VCM / CCM	... Also includes: DAB, DAB+ (opcional)	... Also includes: MPEG-TS	... Also includes: DVB-T2-MI DAB, DAB+	... Also includes:		
AUDIO CODECS	MPEG-1, MPEG-2, AAC, HE-AAC, Dolby Digital, Dolby Digital Plus						
VIDEO CODECS	MPEG-2, MPEG-4 / H.264, HEVC / H.265						
INPUTS AND OUTPUTS	- Universal RF input 50/75 Ω - HDMI output - IP interface for remote control - Analogue Video/Audio input - 2xUSB (Type-A) for data transferring	... Also includes: - ASI-TS input and output (BNC Female, 75 Ω) - IPTV multicast input (UDP / RTP, RJ45) - Common Interface slot	... Also includes: - 1 pps input				
FUNCTIONS	- Constellation diagram - LTE ingress test - Dynamic echoes analysis - StealthID (instant identification of tuning parameters)	- PLS (Physical Layer Scrambling) - Ultra fast spectrum analyzer (70 ms sweep time) - 4K Frame grabber - MAX and MIN hold - FM RDS radio measurement and decoding	- Screenshots and Datalogger for measurement reports - Beacon-Flyaways for SNG & VSAT - Wideband LNB - WiFi 2.4 GHz - LTE 1.8 GHz - OTT	- Service recording - Field strength measurement - Task planner			
ADDITIONAL FUNCTIONS		- Merogram - Spectrogram - Signal monitoring - Remote control (webControl) - MER by carrier - Video/Audio Streaming - SCAN + TILT - Shoulder attenuation	... Also includes: - TS recording - TS analysis - IPTV multicast measurement and decoding	... Also includes: - Network delay (DVB) - DVB-T2-MI analysis	... Also includes: - 4K decoder		
SPECTRUM ANALYZER							
Frequency Margin	From 5 - 1000 MHz (Terrestrial) From 250 - 2500 MHz (Satellite)						
Measurement range	From 10 - 130 dBµV						
Span	Full / 500 / 200 / 100 / 50 / 20 / 10 MHz						
Resolution bandwidths	100 kHz	100, 200 kHz 1 MHz	2 kHz (terrestrial) 10, 20, 30, 40, 100, 200 kHz 1 MHz				
MEASUREMENT MODE (please refer to STANDARDS section)							
Frequency Margin	From 5 - 1000 MHz (Terrestrial) From 250 - 2350 MHz (Satellite)						
DVB-T COFDM	Power (35 to 115 dBµV), CBER, VBER, MER, C/N, Link margin						
DVB-T2 Base and Lite COFDM	Power (35 to 115 dBµV), CBER, C/N, LBER, MER, Link Margin, BCH ESR, LDP iterations, Wrong packets						
DVB-C QAM	Power (45 to 115 dBµV), BER, MER, C/N, Link margin						
DVB-C2 COFDM	Power (45 to 115 dBµV), CBER, MER, C/N, LBER, BCH ESR, LDP iterations, wrong packets						
PAL, SECAM and NTSC	M, N, B, G, I, D, K and L						
FM radio	Level measurement						
DVB-S QPSK	Power (35 to 115 dBµV), CBER, MER, C/N, Link Margin						
DVB-S2 QPSK, 8PSK, 16/32APSK	Power (35 to 115 dBµV), CBER, LBER, MER, C/N, BCH ESR, Wrong packets, Link Margin						
DSS QPSK	Power (35 to 115 dBµV), CBER, VBER, MER, C/N, Link margin						
INTERNAL STORAGE	6 GB for measurement protocols, screenshots and transport stream recordings						
PC CONNECTION (via ethernet interface)	NetUpdate 4 (free software) + Free and automatic firmware updates + User customised channel plans + Measurement reports and screenshots						
GENERAL	Hybrid operation: Touch screen (7") or conventional keyboard DiSEqC 2.x generator (DiSEqC 1.2 commands implemented) dCSS / SCD 2 (EN50607) and SATCR/SCD (EN50494)						
BATTERY	> 2h	> 4 h (smart battery)					
HARD CASE	Optional	Included					

OPTIONS	RANGER Neo +	RANGER Neo 2	RANGER Neo 3	RANGER Neo 4
DAB, DAB+ GPS Coverage Analysis Advanced DAB/DAB+ analyzer Advanced FM radio analyzer Rack assembly 19" 4U: 482 (W.) x 178 (H.) x 205 (D.) mm OPM + Optical-to-RF converter + WiFi 5 GHz + LTE 2.6 GHz + 6 GHz RF input WiFi 5 GHz + LTE 2.6 GHz + 6 GHz RF input	Available Available - - Available Available Available	Available Available Available Available Available Available Available	Included Included Available Available Available Available Available	Included Included Available Available Available Available Available

SPECIFICATIONS REFER TO EUROPEAN VERSION

A new breed of analyzers for a new world



- ✓ Included
- Optional