



CABLE RF functions

	From 5 to 1800 MHz	From 5 to 1800 MHz	From 5 to 1700 MHz
Covers DOCSIS 3.0 / 3.1 band?	✓	✓	✓
SCAN	✓	✓	✓
TILT	✓	✓	✓
RF power level	✓	✓	✓
Spectrum analyzer	✓	✓	✓
QAM digital	✓	✓	✓
Analog TV analysis	✓	✓	✓
Input DC/AC voltmeter	✓	✓	✓
External cablemodem connection			✓
Upstream test generator			✓
Built-in DOCSIS 3.0 cablemodem			✓

OPTICAL FIBRE functions

	From 1100 to 1700 nm	From 1100 to 1700 nm
Wavelengths	✓	✓
Optical power meter	✓	✓
Optical to RF converter (45-1700 MHz)	✓	✓
SCAN	✓	✓
TILT	✓	✓
Spectrum analyzer	✓	✓
DOCSIS analysis	✓	✓
TV analysis	✓	✓

Other functions and features

Screen shots	✓	✓	✓
Photo gallery	✓	✓	✓
Datalogger	✓	✓	✓
Ethernet	✓	✓	✓
USB	✓	✓	✓
Web browser			✓
Touch screen	5"	5"	7"
Dimensions (W. x H. x D.)	177 x 117 x 39 mm	177 x 117 x 39 mm	290 x 185 x 65 mm
Weight	700 g	700 g	1,6 kg



Fibre-Coaxial DOCSIS analyzers

CABLE Ranger



SPECIFICATIONS	CABLE RANGER mini	CABLE RANGER mini +optical option OP-0CR-PS	CABLE RANGER
SPECTRUM ANALYZER			
Frequency			
Tuning range	From 5 to 1800 MHz		From 5 to 1700 MHz
Resolution		Tuning range covers DOCSIS 3.0 and DOCSIS 3.1 requirements	
Resolution bandwidth		10 kHz	
		230 kHz, 2 MHz	
LEVEL MEASUREMENT			
Dynamic range		From -50 dBm to 60 dBmV	
Measuring range		50 dB	
Resolution		0.1 dB	
Accuracy		±2 dB	
Input impedance		75 Ω	
Units		dBm, dBμV, dBmV	
FREQUENCY TUNING MODE			
Audio demodulation		Analog FM	
Level		From -50 dBm to 60 dBmV	
C/N		>50 dB for level >10 dBm	
HUM		From 1 to 15%. Accuracy ±1% (for CW carriers)	
DIGITAL CHANNEL TUNING MODE			
QAM systems compatible modulations		DVB-C, DVB-C2, ITUJ-83 Annex B and C	
Other modulations		DVB-T, ISDB-T, ATSC	DVB-T
Power measurements		From -40 dBmV to 60 dBmV by integration	
Lock range		From -20 dBm to 60 dBmV	
SR		From 1000 to 7000 ksym/s	
MER		From 24 dB to 42 dB for QAM16/32/64/128/256 and QPSK. Accuracy ±2 dB	
BER		Pre BER (before RS): From 10 E ⁻² to 10 E ⁻¹⁰ / Post BER (after FEC): From 10 E ⁻² to 10 E ⁻¹⁰	
Constellation diagram		For all systems with x2, x4 zoom	
FUNCTIONS - RF CABLE		Band from 5 to 1800 MHz SCAN, TILT, RF power level, Spectrum analyzer, Digital QAM, analog TV analysis, Input DC/AC voltmeter	Band from 5 to 1700 MHz External cablemodem connection Upstream test generator Built-in DOCSIS 3.0 cablemodem
FUNCTIONS - OPTICAL FIBRE (1100 to 1700 nm)		Optical power meter, Optical-RF converter (from 45 to 1700 MHz) SCAN, TILT, Spectrum analyzer, DOCSIS analysis and TV analysis	
FUNCTIONS - GENERAL		Screen shots, Photo gallery, Datalogger, Ethernet	Web browser
OPTICAL POWER METER AND RF CONVERTER			From 1100 nm to 1700 nm From 45 to 1700 MHz SC-APC From -50 to 10 dBm (accuracy 0.5 dB) 1310 nm, 1490 nm, 1550 nm, 1625 nm
GENERAL SPECIFICATIONS			
Inputs and outputs		RF input (F male socket), Ethernet	
		USB Type A	USB Type A, mini USB
Monitor		Entrada óptica (SC-APC)	5" touch screen color TFT
		7" touch screen color TFT	
POWER SUPPLY			Smart battery 7.2 V / 6.6 Ah Li-Ion. Recharging time 3 h up to 80% (instrument off) 12 V DC
Internal battery			
External voltage		> 4 hours in continuous mode	
Battery operation time		12 W	> 4 hours in continuous mode
Consumption			40 W
ACCESSORIES		DC power adapter + cord, Car lighter adapter, F(f)-F(f) input adapter, Quick reference guide, Transport case	Carrying bag
MECHANICAL FEATURES		177 (W.) x 117 (H.) x 39 (D.) mm 700 g	290 (W.) x 185 (H.) x 65 (D.) mm 1.6 kg

DESIGN AND SPECIFICATIONS ARE SUBJECT TO CHANGES WITHOUT PRIOR NOTICE.