SPECIFICATIONS [a]

TECHNICAL SPECIFICATIONS	
Display	7-in (178-mm) outdoor-enhanced touchscreen, 800 x 480 TFT
Interfaces	Two USB 2.0 ports RJ45 LAN 10/100 Mbit/s
Storage	2 GB internal memory (20 000 OTDR traces, typical)
Batteries	Rechargeable lithium-polymer battery 12 hours of operation as per Telcordia (Bellcore) TR-NWT-001138
Power supply	Power supply AC/DC adapter, input 100-240 VAC, 50-60 Hz
Wavelength (nm) [b]	1310 ± 20/1550 ± 20/1625 ± 10/1650 ± 5
SM live port built-in filter	1625 nm: highpass >1595 nm isolation >50 dB from 1270 nm to 1585 nm 1650 nm: bandpass 1650 nm ± 7 nm isolation >50 dB out of 1650 nm ± 10 nm
Dynamic range (dB) [c]	39/38/39/39
Event dead zone (m) [d]	0.5
Attenuation dead zone (m) [e]	2.5
PON dead zone (m) [f]	30
Distance range (km)	0.1 to 400
Pulse width (ns)	3 to 20 000
Linearity (dB/dB)	±0.03
Loss threshold (dB)	0.01
Loss resolution (dB)	0.001
Sampling resolution (m)	0.04 to 10
Sampling points	Up to 256 000
Distance uncertainty (m) [g]	±(0.75 + 0.0025 % x distance + sampling resolution)
Measurement time	User-defined
Reflectance accuracy (dB) [b]	±2
Typical real-time refresh (Hz)	4

TECHNICAL SPECIFICATIONS (In-Line Power Meter) [b, h]	
Input power range (dBm)	1490 nm: –65 to 18 1550 nm: –50 to 28
PON power meter (nm)	Two channels: 1490/1550
Broadband power meter (nm)	One channel: 1270 to 1625
Power uncertainty (dB) [a]	±0.2
Calibrated wavelengths (nm)	1310, 1490, 1550 and 1625
PON power meter spectral band (nm)	1450 to 1530
Broadband power meter spectral band (nm)	1270 to 1625
Display resolution (dB)	0.1
PON power meter ORL (dB) [a]	–55
Broadband power meter ORL (dB) [a]	–50

Notes

a. All specifications valid at 23 °C ± 2 °C with an FC/APC connector, unless otherwise specified.
b. Typical.
c. Typical dynamic range with longest pulse and three-minute averaging at SNR = 1.
d. Typical, for reflectance from –35 dB to –55 dB, using a 3-ns pulse.
e. Typical, for reflectance at –55 dB (at 1310 nm), using a 3-ns pulse. Attenuation dead zone at 1310 nm is 3.5 m typical with reflectance below –45 dB.
f. Non-reflective FUT, non-reflective splitter, 13-dB loss, 50-ns pulse, typical value.
g. Does not include uncertainty due to fiber index.
h. Specifications valid when OTDR not functioning or in idle mode.