



## OTDR II Specifications:

Display:	7 in (178 mm) outdoor-enhanced touchscreen, 800 x 480 TFT
Interfaces:	Two USB 2.0 ports RJ-45 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, 9-16 V DCIN 15 Watts minimum
Wavelength (nm) <sup>b</sup> :	850/1300/1310/1550
Dynamic range (dB) <sup>c</sup> :	<b>27/29/36/35</b>
Event dead zone (m) <sup>d</sup> :	MM: 0.5, SM: 0.7
Attenuation dead zone (m) <sup>e</sup> :	MM: 2.5, SM: 3
Distance range (km):	0.1 to 260 for single-mode and 0.1 to 40 for multimode
Pulse width (ns):	MM: 3 to 1000, SM 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 5
Sampling points:	Up to 256 000
Distance uncertainty (m) <sup>f</sup> :	±(0.75 + 0.0025 % x distance + sampling resolution)
Measurement time:	User-defined (60 min. maximum)
Reflectance accuracy:	(dB) ±2
Typical real-time refresh (Hz):	4
Laser safety:	1M

### 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 below -55 dB, using a 3-ns pulse.
- e. Typical, for reflectance below -55 dB, using a 3-ns pulse. Attenuation dead zone at 1310 nm is 4.5 m typical with reflectance below -45 dB
- f. Does not include uncertainty due to fiber index.

### General:

Size (H x W x D):	166 mm x 200 mm x 68 mm (6 9/16 in x 7 7/8 in x 2 ¾ in)
Weight (with battery):	1.5 kg (3.3 lb)
Temperature:	Operating -10 °C to 50 °C (14 °F to 122 °F) Storage -40 °C to 70 °C (-40 °F to 158 °F) <sup>a</sup>
Relative humidity:	0 % to 95 % noncondensing

### Source (optional)

Output power (dBm) <sup>b</sup> :	MM: -3, SM: -6
Modulation:	CW, 1 kHz, 2 kHz

### Built-In Power Meter (GeX - optional <sup>c</sup>)

Calibrated wavelengths (nm):	850, 1300, 1310, 1490, 1550, 1625, 1650
Power range (dBm) <sup>d</sup> :	27 to -50
Uncertainty (%) <sup>e</sup> :	±5 % ± 10 nW
Display resolution:	(dB) 0.01 = max to -40 dBm 0.1 = -40 dBm to -50 dBm
Automatic offset nulling range <sup>d,f</sup> :	Max power to -30 dBm
Tone detection (Hz):	270/330/1000/2000



### Visual Fault Locator (VFL)

Laser, 650 nm:  $\pm 10$  nm  
CW/Modulate: 1 Hz  
Typical Pout in 62.5/125  $\mu$ m:  $> -1.5$  dBm (0.7 mW)  
Laser safety: Class 2

### Laser Safety:

**CAUTION:** VIEWING THE LASER OUTPUT WITH CERTAIN OPTICAL INSTRUMENTS (FOR EXAMPLE: EYE LOUPES, MAGNIFIERS AND MICROSCOPES) WITHIN A DISTANCE OF 100 MM MAY POSE AN EYE HAZARD.

### Notes

- a.  $-20$  °C to  $60$  °C ( $-4$  °F to  $140$  °F) with the battery pack.
- b. Typical output power is given at MM 1300nm, SM 1550 nm.
- c. At  $23$  °C  $\pm 1$  °C, 1550 nm and FC connector. With modules in idle mode. Battery operated after 20-minute warm-up.
- d. Typical.
- e. At calibration conditions.
- f. For  $\pm 0.05$  dB, from  $10$  °C to  $30$  °C.

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