

FOL-OTDR Optical Time Domain Reflectometer



FEATURES

- A dual-wavelength single mode OTDR with 32/30 dB dynamic range, 5 cm sampling resolution and a 5.0 inch capacitive touchscreen, for fiber link characterization up to 256 km.
- Provides accurate fault detection and localization in optical fiber networks.
- Displays complete fiber trace analysis for easy identification of faults and signal variations.
- Compact and portable design suitable for field testing and laboratory applications.
- User-friendly interface for quick setup, measurement and analysis.
- Supports real-time monitoring of optical fiber performance.

SPECIFICATIONS

- **Wavelength (nm):** 1310 $\pm$ 20 / 1550 $\pm$ 20
- **Applicable fiber:** SM (ITU-T G.652)
- **Distance range (km):** 0.2, 0.5, 1, 2, 5, 10, 20, 30, 50, 100, 200, 256
- **Pulse width (ns):** 3, 10, 20, 30, 50, 100, 200, 300, 500, 1000, 2000, 5000, 10000, 20000
- **Sampling resolution:** min. 5 cm
- **Number of sample points:** max. 256000
- **Distance measurement accuracy (m):** $\pm(1 \text{ m} + \text{Measurement distance} \times 2 \times 10^{-5} \pm 1 \text{ sampling resolution})$
- **Event dead zone (m) :** ≤ 0.8
- **Attenuation dead zone (m) :** 4/5
- **Dynamic range (dB) :** 32/30
- **Loss measurement accuracy:** $\pm 0.03 \text{ dB/dB}$
- **Reflection accuracy:** $\pm 2 \text{ dB}$
- **Laser class:** Class 1M
- **Display*:** 5.0 inch color TFT LCD WVGA (Capacitive touchscreen). Resolution: 800 $\times$ 480 pixel
- **External interfaces:** USB2.0 $\times$ 2; Type A $\times$ 1: Host, Type micro B $\times$ 1: USB mass storage devices, DC power supply; Wireless LAN (WLN option): IEEE802.11b/g/n

- **Battery Type:** Lithium ion polymer
- **Battery Operating time:** 10 hours or more (Telcordia GR-196-CORE Issue 2, September 2010)
- **Battery Recharge time:** 3 hours (typical)
- **Safety standard:** EN61010-1
- **Laser safety:** IEC/EN 60825-1:2007, GB7247.1-2012, FDA 21CFR1040.10 and 11

DATA HANDLING FEATURES

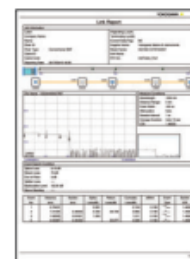
Direct data saving

- Simply pressing "Direct save" icon, Measured data can be saved in SOR or PDF Format according to users' prior selection.



PDF reporting

- Built-in post-processing software for generating OTDR reports in PDF format.
- Flexible configuration of report template to meet users' report requirements.



Data Transfer

- Data files or PDF report files that are stored in the AQ1000 can easily be transferred to a PC through a USB connection.

