OFL 200 Single-mode OTDR

The OFL 200 OTDR sets new standards for size, weight, ease-of-use, and value in a telco/broadband OTDR. Smaller than many optical loss test sets, the OFL 200 has the range, features, and price to make it the perfect OTDR for outside plant crews installing and maintaining optical fiber cables in broadband, metro, access, and FTTH networks. Unlike 'optical fault locators', which detect only reflective events, the OFL 200 is a true OTDR, which detects fiber backscatter as well as fresnel reflections. Thus, the OFL 200 can locate reflective and non-reflective breaks, including those caused by crushed fibers. In addition, the OFL 200 provides an integrated 650 nm visual fault locator (VFL) for short-distance troubleshooting and fiber tracing.

In its [Full Auto] mode, the OFL 200 measures fiber length and sets range, pulse width, and averaging time automatically. [Full Auto] mode is ideal for operators not familiar with OTDRs. [Semi Auto] mode allows the user to set range while the OFL 200 sets all other parameters. [Manual] mode is available for experienced users. [Live] mode is provided for first connector checking and troubleshooting.

The fast change switchable adapter allows the OTDR to interface launch cables with a variety of connector styles. The OFL 200 can internally store up to 48 traces. Using the supplied serial cable, saved traces can be transferred to a PC for archiving, printing, and analyzing with the supplied Trace600 Windows® software. Test results are stored in Bellcore [*.sor] GR-196 Version 1.1 format.

Features and Applications

- Rugged, handheld, lightweight
- Designed for field use
- 1550 or 1625 nm single-mode OTDR
- Locates reflective and non-reflective breaks
- Built-in 650 nm visual fault locator (VFL) with universal adapter
- Switchable OTDR port adapter
- Cursor and zoom controls to measure event loss, reflectance, and location
- Automatic, semi-automatic, and manual setup modes
- Launch level connection quality indicator
- Large LCD with Backlight
- Free Windows® compatible software to view, print, and archive test records
- Rechargeable NiMH battery pack, AC adapter, or optional AA alkaline
- Wide temperature range: -10 to + 50°C

Ordering Information

Model	Includes
OFL 200-1550 OFL 200-1625	SC, FC adapter caps (ST, LC available), universal AC power adapter, country- specific line cord, user's guide, and carry case.

Specifications

OFL 200 OTDR

Emitter type	Laser	
Safety class	Class I, FDA 21 CFR 1040.10 & 1040.11	
Center wavelength (nominal)	1550 nm	1625 nm
Dynamic range (SNR = 1)	24 dB @ 10 μs, 3 min. test	23 dB @ 10 μs, 3 min. test
Maximum fiber length	70 km	
Event dead zone [1]	2 m typical / 3 m maximum	
Attenuation dead zone [2]	14 m typical / 18 m maximum	
Number of data points	4000 on ranges ≥ 4 km	
Resolution	1 m on ranges ≤ 4 km; Range / 4,000 on ranges > 4 km	

Visual Fault Locator (VFL)

Emitter type	Laser
Safety class:	Class ll, FDA 21 CFR 1040.10 & 1040.11 IEC 825-1: 1993, EN60825-1: 1994
Wavelength	650 nm
Output power (nominal)	0.8 mW into 9 μm single-mode optical fiber

General

Size (H x W x D)	190 x 112 x 47 mm (7.5 x 4.4 x 1.9 inches)
Weight	0.6 kg (1.3 lb)
Operating temperature	-10 °C to + 50 °C, 0 to 95% RH (non-condensing)
Storage temperature	-20 °C to + 60 °C, 0 to 95% RH (non-condensing)
Power	Rechargeable NiMH or AC adapter. Optional 4 x AA Alkaline
Battery life with backlight ON	NiMH: > 8 hours; 4 x AA: > 13 hours

[1] 1.5 dB down from each side of the peak, -45 dB reflective event
[2] From the start of an event to within 0.5 dB of backscatter, -45 dB reflective event.

NOYES
T e s t & I n s p e c t i o n