

## Description

The MUL-OTDR-500 is a handheld Optical Time Domain Reflectometer (OTDR) with an ergonomic design that uses the latest technology in the optic fiber field. The Multicom OTDR provides outstanding functionality and durability with high precision, high sensitivity, easy operation and very light weight.

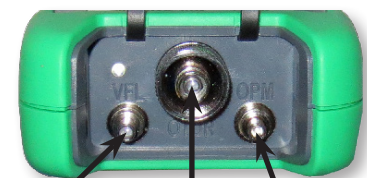
The MUL-OTDR-500 includes multiple functions all in one instrument making it the ultimate tool for fiber network construction and maintenance. The Multicom OTDR is perfect for technicians working with FTTX testing in PON networks, CATV and access network testing, and fiber system troubleshooting. The OTDR function supports real, average, and auto mode test with 1310 & 1550nm wavelengths, while allowing the user to save the results in an SOR file format. There is also an event map function to show the length and information for each link in the system.

## The MUL-OTDR-500 comes equipped with:

- **Optical Power Meter (OPM):** -50dBm to +26dBm range for 850, 980, 1300, 1310, 1490, 1550 & 1625nm wavelengths
- **Visual Fault Locator (VFL):** 10mW output power to help the user visually find fiber faults like breaks & bad splices
- **Optical Light Source (OLS):** 1310 & 1550nm wavelengths with CW, 270 & 330 Hz, 1 & 2 kHz modulation frequencies
- **RJ-45** cable line sequence measurement, line length, wire/cable tracing/tracking MUL-OTDR-500-WT Receiver

## The MUL-OTDR-500 Kit includes:

- MUL-OTDR-500
- MUL-OTDR-500-WT - Wire Tracker
- SC Adapter (pre-installed on OTDR)
- ST Adapter
- USB flash drive
- Cleaning Alcohol Wipes
- AC/DC USB charging adapter
- 2x AAA batteries
- Protective case
- USB charging cable
- Calibration Certificate



**VFL** Adapter Port  
**OTDR** Adapter Port  
**OPM** Adapter Port

**Part Number: MUL-OTDR-500**

## Product Specifications

OTDR Parameter	Specification
Calibrated Wavelengths	1310nm / 1550nm ±20nm
Fiber Type	G.652 SM Fiber
Dynamic Range	26dB / 24dB
Test Range	500m ~ 128km (0.3 ~ 80miles)
Event Blind Zone	2.5m (8ft)
Attenuation Blind Zone	8m (26ft)
Pulse Width	3ns ~ 10us
Ranging Accuracy	± (1m + Sampling Interval + 0.005% * Test Distance)
Loss Accuracy	± 0.2dB/dB
Sampling Points	16k ~ 128k
Sampling Resolution	0.05m~8m (0.16 ~ 26ft)
Reflection Accuracy	± 3dB
Data Storage	Internal: ≥600, External: TF Card
Laser Safety Level	Class II level
File Format	TELCORDIA SOR Standard File Format
Connector	FC/UPC/APC (Interchangeable SC, ST)
Optical Power Meter (OPM) Parameters	Specification
Calibrated Wavelengths	850, 980, 1300, 1310, 1490, 1550, 1625, 1650nm
Range	-50 ~ +26dBm
Frequency Identification	CW, 270, 330, 1kHz, 2kHz
Uncertainty	± 5%
Fiber Port	Universal FC/SC/ST
Optical Light Source (OLS) Parameters	Specification
Wavelength	1310, 1550nm
Output Power	≥ -5dBm
Modulation Frequency	CW, 270Hz, 330Hz, 1kHz, 2kHz
Stability	CW, ±0.5dB
Fiber Port	FC/UPC/APC
Visual Fault Locator (VFL) Parameters	Specification
Wavelength	650 ±20nm
Output Power	≥10mW
Mode	CW/1Hz/2Hz
Fiber Port	FC/SC/ST
RJ45 Cable Tester Parameters	Specification
Line Sequence Test	TIA-568A/B, includes RJ45 test remote unit
Line Length Test Range	300m Max
Line/Cable Tracker/Tracer	Includes handheld wire/cable tracker/tracer receiver

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