

Professional OTDR

Multi-Function OTDR with Intelligent Multi-meter,
Network tool and cable test



OTDR testing



Optical signal



Stable laser source



OPM



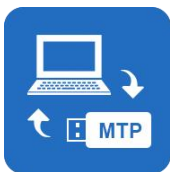
VFL



Optical loss test



DMM



Media Transfer
Protocol



PING



UTP cable test



Length test



RJ45 cable

OTDR/VFL/OPM /Length test/MTP



MOT-33

- ◆ **4 inch** touch screen, **800*480** resolution
- ◆ Internal storage and external TF card, support FTP
- ◆ Report saved as EXCEL, PDF, or screenshots format etc
- ◆ Digital multimeter with isolation protection
- ◆ One Gigabit network port, support Ping and scan IP address etc
- ◆ RJ45 TDR cable's status and length, max 600meter
- ◆ Cable length, the max length up to 3km
- ◆ Cable tracer ***(optional)**
- ◆ Improvement cable tester, UTP cable etc continuity test
- ◆ Stable laser source, optical power meter and visual fault locator
- ◆ MTP media transfer protocol, can be connected to a computer via a universal Type C interface to transfer internal storage files

Application

Multi-function **OTDR MOT-33 series** is an essential tool for fiber length and network testing. OTDR displays the power of the returned signal related to distance. The information can be used to confirm the transmission quality of a fiber optic link. It is widely used in the maintenance, construction and monitoring of cable line. It can measure the optical fiber length, transmission attenuation of optical fiber, attenuation of splice, and failure location, etc. If taking the all in one OTDR, it will make working conditions safer and increasing productivity.

- Fiber length testing and Event Map etc
- PING Test, IP Scan, Port flashing
- Network cabling project installation and maintenance

Specification	
Size & Display	4 inch touch screen ,800*480 resolution
Network Port	1000M LAN port, 10/100/1000M auto adapt
UTP cable test	Test UTP cable connection status and display on the screen. Read the number on the screen. detect the near-end, mid-end and far-end fault point of RJ45 cable connector, can test shield cable
RJ45 TDR cable test	Support cable status and length, max 600m
USB Type C port	Supports MTP media transfer protocol and can connect to a computer to transfer internal storage data
Data monitor	Captures and analyzes the command data from controlling device, also can send hexadecimal
Network test	Trace route, Link monitor, DHCP server, port flashing, Ping test
Length test	Cable length, the max length up to 3km
Digital Cable tracer*	Search BNC cable, network cable and telephone cable from the mess cables. Cable tracer and UTP cable test app in the same interface, also can search shield cable* (optional)
Electroscope	Voltage range AC12-1000V

OTDR/VFL/OPM /Length test/MTP

	Frequency	50/60Hz	
	Alarm type	Sounds and light double alarms	
	Level	CAT.III 1000V / CAT.IV 600V;CE	
Visual fault locator	10mW visual fault locator with 650nm wavelength, emit red laser sources to test multi-mode and single mode fiber's bending and breakage, test range 8KM		
Intelligent Digital multimeter	AUTO DC and AC voltage measurement, Resistance measurement, Continuity test, Diode measurements, Capacitance measurement, with a testing speed of 3 times per second and a reading range of -6600 to+6600.		
Optical power meter	Wavelength:1625,1550nm,1490nm,1310nm,1300nm,850nm, measurement range , -70 ~ +6 dBm, for optical power testing and Fiber link loss relative measurement		
Laser source parameter			
Laser type	FP-LD		
Output wavelength	1310/1550	1610	
Output power	-5dBm~0dBm		
Frequency	270Hz/330Hz/1kHz/2kHz		
Stability	CW, ± 0.2dB/15min (Test after boot for 15min)		
Power			
External power supply	DC 5V (2A) USB Type-C		
Battery	Built-in 3.7V Li-ion battery, 4000mAh		
Rechargeable	After charging 3.5 hours, the normal working time 6 hours		
Parameter			
Operation setting	OSD menu, select your desired language: English, Portuguese, Korean, Russian, Italian, French, Polish, Spanish, Japanese, Turkish, Deutsch, Serbian, Czech, Vietnamese etc		
Auto off	5-30 (mins)		
Working environment			
Working Temperature	-10℃----+50℃		
Working Humidity	30%-90%		
Dimension/Weight	160mm x 100mm x 45mm / 0.36kg		

OTDR/VFL/OPM /Length test/MTP

OTDR Technical Specifications			
Wavelength (nm) Optional *	1550	1310/1550	1610
Dynamic range(dB) ² Optional*	24	26/24	26
Only support detects optical signal	N/A	support	N/A
Support Active fiber testing	Support (if there is communication light from 1310/1490/1577/1625 in the fiber ,it will not affect test)	N/A	Support (if there is communication light from 1310/1490/1577/1625 in the fiber ,it will not affect test)
Pulse width (ns)	5,10,20,30,50,80,160,300,500,800,1000,2000,4000,6000,10000,20000		
Testing range	≤100 Km		
Event blind zone (m) ³	≤1.6m		
Attenuation blind zone (m) ³	≤8m		
Linearity (dB/dB)	±0.05 dB/ dB		
Loss threshold (dB)	0.05		
Loss resolution ratio (dB)	0.01		
Minimum distance resolution	0.05		
Sampling point(K)	32-128		
Distance uncertainty (m)	±(1 m + 5×10 ⁻⁵ × distance + sampling interval)		
Distance scope (km)	0.5,1,2,5,10,25,50,100,200		
Typical real-time refreshing duration	1s		
File format	SOR standard format/PDF/EXCEL		
Measurement duration	5sec, 10sec, 15sec, 30sec, 1min, 2min, and 3min are selectable		
Storage	FLASH (EMMC)8G + TF card (NOT Included)		
Interface type	SC-UPC		

Remarks:

1. The technical specification describes the ensured performance of the instrument when using typical PC model connector to measure, without considering the uncertainty caused by optical fiber refractivity.
2. Dynamic range is the data measured under the condition of the maximum pulse width and 3 minutes of average time. Dynamic range is the data measured under the condition of 200km/20000ns/3min.
3. Measuring conditions of blind zone: reflection event is within 5Km, reflection strength is 45dB. Measured by the minimum pulse width.
4. **TF card not included**

The data above is only for reference and any change of them will not be informed in advance. For more detailed technical inquiries, please feel free to contact us.