WANGLU

MOT-66 Series

Multifunction OTDR Tester



High Dynamic Range & Low Blind Zone
Event Blind Zone≤ 0.8m
Attenuation Blind Zone≤ 3m

7.2V, 5000mAh High-Capacity Battery

View Up to 20 Curves Simultaneously

45W Intelligent Fast Charging

Features

- OTDR: 1m to 180km precision testing, auto-test mode, event map – easy to use and understand
- Optional PON power meter supports simultaneous downstream wavelength measurement for EPON (1490nm) and XG-PON (1577nm)
- 5.5-inch IPS HD Full-View touch screen, 1920*1080 resolution
- Full rubber protective covered on all ports – built for the job site
- 7.2V 5000mAh high-capacity battery – all-day operation
- 45W intelligent fast charging – charges to approx. 80% in 30 minutes
- Large internal storage + external TF card slot – data transfer via network or USB drive
- Simple file management – generates SOR, PDF, XLS reports
- Screen projection & remote control – operate the tester from your phone
- 1000M Ethernet port – supports PING, IP scanning, and internet access
- Built-in Wi-Fi – wireless network detection and connectivity
- RJ45 TDR – open/short detection and cable quality analysis, up to 200m
- RJ45 crimping test – indicates poorly crimped wire pairs
- Digital Tracer + Wiremap – simultaneous tracing and wiremap testing for 100% accurate cable identification, eliminating misjudgment

Application

The MOT-66 Series OTDR is a professional test instrument developed by WANGLU specifically for EPON/XG-PON fiber optic communications, optical testing, security surveillance, and structured cabling. It measures fiber link length, precisely locates loss of the connectors and splices and analyzes attenuation coefficients across the entire link.

Powered by a quad-core CPU, next-gen high-speed memory, and e-MMC storage on a new-generation system platform, the MOT-66 integrates OTDR, Wi-Fi analyzer, Ethernet tester, Optical power meter, stabilized Light source, Visual fault locator, and cable tracer into a single compact unit. Featuring a completely new ergonomic design with optimized hardware and software, it supports remote control via mobile app – enabling testing and result retrieval even from off-site locations.

- Fiber optic communication construction & maintenance – OTDR testing, fiber/cable parameter measurement
- Real-time network troubleshooting and repair
- Network diagnostics – PING, IP conflict detection, switch port detection, Wi-Fi analysis
- Structured cabling installation and maintenance

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Specifications

OTDR Technical Specifications					
Wavelength(nm)	1550	1610	1310/1550	1310/1550/1625	1310/1550/1650
Dynamic range(dB)	24~36	28~36	28/26~44/42	28/26/26，30/28/28，32/30/30，36/34/34，38/36/36，40/38/36，42/40/38	
Only support detects optical signal	Only supports detection of optical signal at the same wavelength		Support	Only supports detection of optical signal at the same wavelength	
Active Fiber Test	Support 1310/ 1490/ 1577/ 1610/ 1625	Support 1310/ 1490/ 1550/ 1577	N	1310/1550 Port supports 1625,1650; 1625/1650 Port supports 1310，1490，1550，1577	
Event blind zone (m)	≤0.8				
Attenuation blind zone (m)	≤3				
Distance scope(km)	0.1、0.5、1、2、5、10、25、60、120、180、260				
Pulse width (ns)	3, 5,10, 20, 30, 50, 80, 160, 300, 500, 800, 1000, 2000, 4000, 6000, 10000, 20000				
Distance uncertainty (m)	±(1 m + 5x10-5x distance + sampling interval)				
Test Duration	5s-3mins, real-time				
Linearity(dB/dB)	±0.03				
Minimum distance resolution(m)	0.016				
Maximum Sampling point (K)	256				
Loss threshold(dB)	0.03				
Loss resolution ratio (dB)	0.001				
Multiple wavelength simultaneously	Support				
Multi-trace display	Up to 20curves to view simultaneously				
File format	SOR standard format/PDF/ Excel				
Storage	FLASH (EMMC)8G + TF card (need to buy independently)				
Interface type	FC-UPC/SC-UPC				

Remarks:

1.In Specification, it is stated that using traditional UPC connector to test can ensure the accuracy. The uncertainty of reflectivity of optical fiber cannot assure result accuracy. Test Environment: 25℃±2℃, Relative Humidity: 50% RH.

2.Dynamic Range is within max pulse width, and the dynamic range is tested with the condition 260km/20000ns/3mins.

3.Attenuation testing condition: Reflectivity among 200m, reflectivity < -45dB, and please use minimum pulse test to test 30s.

4.TF card needs to be purchased independently

Model	MOT-66	
Size & Display	5.5 inch IPS HD Full-View touch screen, 1920*1080 resolution	
LAN Port	10/100/1000M auto adapt, RJ45	
WIFI	Built-in 2.4G wireless WIFI, max speed 150M	
WIFI Analyzer	Built-in WIFI analyzer, which enables you to view WIFI information, test WIFI strength, analyze channel occupancy and channel ratings, etc.	
RJ45 cable TDR test	To test line-pair status, length, attenuation, quality, reflectivity impedance etc. of network cable. Test range up to 200meters.	
UTP cable test	Test detect the near-end, mid-end and far-end fault point. Test any 2-core or more network cable, it displays connection sequence and cable number.	
Network Tool	IP address, PING, Switch port LLDP test, Switch port flashing, PPPOE dial, FTP files copy etc.	
Digital Cable Tracer	By adopting advanced multiplexing technology, can cable tracing and sequence simultaneously. After the cable tracing finds the network cable, the cable is connected to the UTP port and the cable's wiring sequence is directly displayed. Straight-through, crossover, other indication, no need to look at the ticker. It supports searching for shielded cables and supports power-over-ethernet (Poe) powered cable searching.	
Electricity Searching	Voltage Range	AC12-1000V
	Frequency	50/60Hz
	Alarm	Sound-Light Dual alarm
	Security Level	CAT.III 1000V / CAT.IV 600V;CE
Optical power meter	Wavelength (nm): 850/980/1270/1300/1310/1490/1550/1577/1625/1650nm. Power Range(dBm): -70~+10dBm, -50~+26dBm Optional	
PON Optical power meter (UPC) *	Wavelength (nm): 850/1270/1300/1310/1490/1550/1577/1625/1650nm. Power Range(dBm) : -70~+10dBm, -50~+20dBm Optional	
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	
TDR cable test*(Optional)	BNC cable, network cable, telephone cable, RVV cable and elevator cable, cat 5/6 cable's length and short circuit. Measurement range 1.2KM	
Specifications of Sable Laser Source		
Laser Type	FP-LD	
Output Wavelength	Adjustable	
Frequency	270Hz/330Hz/1kHz/2kHz	
Stability	CW , ± 0.2dB/15min (After 15 minutes of power-on warm-up, the test can be conducted.)	
Power		

External power supply	Type-C fast charging port; supports SCP, PD3.0, UFCS protocols; Input: 5/9/12/15/20V, Max 45W
Battery	Built-in 7.2V Li-ion, 5000mAh
Rechargeable	~1.5hrs (fast charge); Operating Time: ~10hrs
Parameter	
Operation setting	Supported language: English, Chinese, Korean, Russian, Italian, French, Polish, Spanish, Japanese, Deutsch, Turkish, Portuguese, Czech etc.
Auto Standby	Off/15s~30min
Working environment	
Working Temperature	-10℃---+50℃
Working Humidity	30%-90%
Dimension/Weight	210mm x 122mm x 48mm / 620g

Note:"*"sign means functions are customizable！ 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