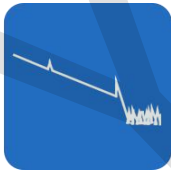


# Multi-function OTDR

## Optical Time Domain Reflectometer



MOT-50



OTDR



Optical signal detection



Laser Source



OPM



OLDE display



VFL



Loss test



Cable test

- ◆ 5.55 inch OLED touch screen, 1280x720 resolution
- ◆ OTDR Auto testing, event map, easy to use
- ◆ Stable laser source, loss test, OPM and VFL
- ◆ Report saved as SOR, PDF format etc
- ◆ UTP cable test, cable plug detection
- ◆ Network cable length measurement, up to 3km
- ◆ RJ45 TDR cable test \* (Optional)
- ◆ PING test, PPPOE, IP scan, port flashing etc network test \* (Optional)



### Application

Multi-function Q Y Y - M O T - 50 OTDR is an essential tool for fiber length, network and camera 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. the Multi-function OTDR can make working conditions safer and increasing productivity.

- Fiber length testing and Event Map etc
- Network cabling project installation and maintenance

### Features

OTDR Technical Specification		
Wavelength (nm) <b>Optional *</b>	1310/1550	1550
Dynamic range(dB) <sup>2</sup> <b>Optional*</b>	28/26	24
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) <sup>3</sup>	≤1.6m	
Attenuation blind zone (m) <sup>3</sup>	≤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 <sup>-5</sup> × 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) + TF card	
Interface type	SC-PC	
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

Model	QYY-MOT-50 / MOT-51	
Size & Display	5.55 inch OLED touch screen, 1280x720 resolution	
Power output	5V 1A power output, as power bank.	
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, also can test shield cable	
length measurement	Network cable length measurement, up to 3km	
Optical power meter	Wavelength:1625nm,1550nm,1490nm,1310nm,1300nm,850nm,measurement range $-70 \sim +6$ dBm, for optical power testing and Fiber link loss relative measurement	
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	
Stable laser source		
Output wavelength	1310/1550	1550
Output power	-5dBm~0dBm adjustable	
Frequency	270Hz/330Hz/1kHz/2kHz	
Stability	CW, $\pm 0.2$ dB/15min (Test after boot for 15min)	
Power		
External power supply	Type-C 5V (2A)	
Battery	Built-in 3.7V Lithium ion battery, 4000mAh.	
Rechargeable	After charging 3 hours, normal working time 6 hours	
Parameter		
Operation setting	language: English, Chinese	
Auto off	5-30 (mins)	
Working environment		
Working Temperature	-10°C---+50°C	
Working Humidity	30%-90%	
Dimension/Weight	183mm x 110mm x 36.5mm /0.45kg	

**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**

### Packing list

- 1) Tester
- 2) UTP cable tester
- 3) Type-c power cable

## Comparison Table

Feature/Model	QYY- MOT-50	QYY- MOT-51
Stable laser sources	√	√
Optical power meter	√	√
Visual fault locator	√	√
OTDR Interface type	SC-PC	SC-PC
LAN port	x	One LAN port
RJ45 TDR cable test	x	Support cable's open and short, Max up to 600 meters
Digital Cable tracer*	x	Optional