

MERCURY Series High-Performance OTDR

Product overview



Mercury series is a high performance and next generation OTDR, Supply 7 inch capacitance touch screen. It integrates 9 modules (OTDR/VFL/LS/OPM/Event map/End Detection/Optical Loss Test / Ethernet Test / Remote Test & File Management) to help customers efficiently solve the field test & Maintenance issues.

Thanks to its excellent intelligent hardware & software design, it is able to deliver higher accuracy of short fiber test & automation test. It is equipped with powerful ethernet test (Ping/PPOE). Mercury Series OTDR is used to test the optical fiber length, loss & connection quality and used in the engineers construction, link maintenance test. It is mainly used in engineers construction, emergency repair of optical fiber communication system, research & production measurement of first class optical fiber cable.

Product features

- 0.5m Event Dead Zone
- Support SM/MM/SM+MM test
- Online detection, effective APD active protection
- PON network online test
- Support fast charging protocol and power bank
- Maximum dynamic range 46dB
- Ethernet test, supporting Ethernet Remote Test
- Mobile APP wireless operation
- Integrate OTDR/VFL/LS/OPM/Event Map/End Detection/Optical Loss Test/Ethernet test/Remote test/File management



7 inch screen
Key + touch operation mode



Detection of online test
Caution function



Two languages input
Nomenclature in Chinese and English



Report printing
Files batch processing



Multi wavelength simultaneous test
Results automatic analysis

Mercury Series Technical specifications

OTDR												
Model	S0	S1	S2	S3	S4	T1	T2	T3	T4	T5	T6	F1
Type	SM											
Wavelength	1310/1550nm			1310nm /1490nm /1550nm			1310nm /1550nm /1625nm			1310nm /1550nm /1650nm		
MaxDynamicRange(dB)	32/30	35/33	38/36	42/40	46/45	32/30/30	37/35/35	32/30/30	37/35/35	32/30/30	37/35/35	37/35/35/35
Event Blind Zone	0.8m		0.5m		0.8m		0.5m		0.8m		0.5m	
ATT Blind zone	4m		3.5m		4m		3.5m		4m		3.5m	
Test Range	100m/500m/1.25km/2.5km/5km/10km/20km/40km/80km/125km/260km/420km											
Pulse Width	3ns/5ns/10ns/20ns/30ns/50ns/80ns/100ns/200ns/300ns/500ns/800ns/1us/2us/3us/5us/8us/10us/20us											
Ranging accuracy	± (0.75m+ Sample interval+0.0025% × Test distance)											
Loss accuracy	0.03dB/dB											
Sample Points	≥ 256k											
Sample Resolution	0.015m~16m											
Reflection Accuracy	±2dB											
Loss Resolution	±0.001dB											
Loss Threshold	0.01dB											
File Format	SOR Standard File Format											
Loss Analysis	4-point method /5-point method											
Laser Safety Level	Class II											
Refresh Rate	4Hz (Typ.)											
Data Storage	Internal storage: 2GB, 200,000curves; External storage:64GB											
Connector	FC/UPC (Interchangeable SC、ST)											
Data Interface	USB-A、Type-C port, RJ45 LAN 10/100Mbit/s											
OPM												
Wavelength range	800nm~1700nm											
Connector	Universal FC/SC/ST											
Test scope	-50dBm~+26dBm/-70dBm~+6dBm											
Uncertainty	±5%											
Calibration wavelength	850nm/980nm/1300nm/1310nm/1490nm/1550nm/1625nm/1650nm											
LS												
Laser Type	FP-LD											
Wavelength	Consistent with OTDR output wavelength											
Output power	≥-5dBm (SM fiber)											
Mode	CW/270Hz/1kHz/2kHz											
Stability	CW, ±0.5dB/15min (Test after 15 minutes of preheating)											
Connector	FC/UPC (Interchangeable SC、ST)											
VFL												
Wavelength	650nm±20nm											
output power	≥10mW											
Mode	CW/1Hz/2Hz											
Connector	FC/UPC (Interchangeable SC、ST)											
The Optical Loss Test index refers to the above light source and optical power meter index.												
Others												
Display	7 inch color LCD + touch screen Resolution:800×480											
Power supply	Type-C adapter: Input: 100V~240V , 50/60Hz ,Output:5V/3A,9V/2A,12V/1.5A Lithium battery : 3.7V,10400mAh											
working mperature	-10°C~+50°C											
Storage temperature	-40°C~+70°C											
relative humidity	0~95%, Non Condensing											
Weight	≤1.2kg											
Size	215mm×160mm×50mm											
Functions of Host: OTDR/VFL/LS/OPM/Event Map/End Detection/Optical Loss Test/Ethernet test/Remote test/File management												

Configuration list

NO.	Name	Quantity	Remarks
1	Host	1	
2	AC/DC power adapter	1	
3	U disk (containing analysis software/ User' s Manual)	1	
4	Data line	1	
5	OTDR SC adapter	1	
		1	

NO.	Name	Quantity	Remarks
7	User' s Manual	1	
8	Calibration certification	1	
9	Certificate/ Warranty card	1	
10	Clean cotton piece	10	
11	Leather knob	1	
12	Special backpack for instrument	1	

