

Mercury Series Technical specifications

OTDR																
Model	S0	S1	S2	S3	S4	T1	T2	T3	T4	T5	T6	F1	M1	SM1	SM2	
Type	SM															
Wavelength	1310/1550nm		1310nm /1490nm /1550nm		1310nm /1550nm /1625nm		1310nm /1550nm /1650nm		1310nm /1490nm /1550nm /1625nm		850nm/1300nm		850nm /1300nm /1310nm /1550nm			
MaxDynamicRange(dB)	32/30	35/33	38/36	42/40	45/46	32/30/30	37/35/35	32/30/30	37/35/35	32/30/30	37/35/35	37/35/35/35	26/28	26/28/35/33	26/28/37/35	
Event Blind Zone	0.8m		0.5m		0.8m		0.5m		0.8m		0.5m		1m			
ATT Blind zone	4m		3.5m		4m		3.5m		4m		3.5m		6m			
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	NO.	Name	Quantity	Remarks
1	Host	1		7	User's Manual	1	
2	AC/DC power adapter	1		8	Calibration certification	1	
3	U disk (containing analysis software/ User's Manual)	1		9	Certificate/ Warranty card	1	
4	Data line	1		10	Clean cotton piece	10	
5	OTDR SC adapter	1		11	Leather knob	1	
		1		12	Special backpack for instrument	1	

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 45dB
- 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

