

## Description

The palm OTDR series are optical fault locating and analyzing tools for optical fiber network. With its excellent performance and higher user value, it offers an innovatory test method for telecommunication network.

As a fault locating and analyzing tool much economical than traditional OTDR, the palm OTDR series feature hand-held, compact, lightweight and easy-to-use. The unique hot key design makes it faster and more convenient to review and analyze the event. It has powerful functions, such as supporting averaging and real time test mode. And it can be used in both single mode (1310/1550nm) and multi mode (850/1300nm) fiber applications. With its multi-functional carrying softbag which is convenient for both field and lab testing, the palm OTDR series have become the indispensable and ideal tools for fiber networks construction, daily check and maintenance in FTTx, WAN and CATV systems.



Besides, palm OTDR can save and transfer the measurement curves data to a PC by the software "Trace Manager" for further analyzing, reporting and printing. It successfully meets the requirement of different fiber connect type by simply changing different adaptors.

## Features

- ⌚ *Lightweight, portable and application for WAN*
- ⌚ *Full functions, optional single/multiple mode fiber application*
- ⌚ *High precise measurement, Large memory capacity (300 test curves)*
- ⌚ *Without hard disk design, anti-dust, damp and shock proof for field test*
- ⌚ *RS-232/USB data upload port*
- ⌚ *PC software for measurement data analyzing and reporting*
- ⌚ *LCD indicators for battery charging and LD lasing status*
- ⌚ *NiMH rechargeable battery support 4 hours continuous operations*
- ⌚ *Low battery annunciator*

Optical Specifications <sup>(1)</sup>	palmOTDR-S20		palmOTDR-M20
	A	C	A
Dynamic Range(dB) <sup>(2)</sup>	24/24	32/32	18/22
Wavelength(±20nm)	1310/1550		850/1300
Display Type	Colourful		
Fiber Type	Single-mode		Multi-mode
Optical Connection	Single Port		
Emitter Type	LD		
Connector Type	FC/PC (interchangeable SC,ST)		
Selectable Ranges(km) <sup>(3)</sup>	1.3, 2.5, 5, 10, 20, 40, 80, 120, 160, 240		0.1, 0.3, 0.5, 1.3, 2.5, 5, 10@850nm; 0.1, 0.3, 0.5, 1.3, 2.5, 5, 10, 20, 40, 80@1300nm
Pulse Widths(ns) <sup>(4)</sup>	12, 30, 100, 275, 1000, 2500, 1000, 2000		12, 30, 100, 275, 1000@850nm; 30, 100, 275, 1000, 2500@1300nm
Event Deadzone	10m <sup>(5)</sup>	5m <sup>(5)</sup>	7m <sup>(6)</sup>
Attenuation Deadzone	25m <sup>(5)</sup>	20m <sup>(5)</sup>	20m <sup>(6)</sup>
Average Time	15s/30s/1min/2min/3min		
Distance Measure Accuracy	± ( 1 m + 5×10 <sup>-5</sup> ×Distance + sampling space )		
Reflection Detect Accuracy	± 4 dB		
Attenuation Detect Accuracy	±0.05 dB/dB		
Measurement Data Storage	300 test curves		
Data Transmission	RS-232/USB port		
<b>Visible Laser Source(For palmOTDR-S20C only)</b>			
Output Power(dBm)	≥-3		
Max. Meas. Range(km)	5		
<b>General Specifications</b>			
Power Supply	NiMH rechargeable battery/AC adapter		
Battery Life	Support over 4 hours operating on one charge or over 20 hours standby		
Data Transmission	RS-232 / USB port		
Operating Temperature	0°C ~ 50°C		
Storage Temperature	-20°C ~ 70°C		
Relative Humidity	0 to 95% (non-		
Weight	1.9 lbs (0.87kg)		
Dimensions (H x W x T)	7.7×3.9×2.4inch (196×100×64mm)		

Note:

- (1) Specifications describe the instrument's warranted performance, measured with typical PC-type connectors. Uncertainties due to the refractive index of fiber are not considered;
- (2) The dynamic range is measured at maximum pulse width within average time of 3 minutes;
- (3) Among the selectable ranges, 160km and 240km only for type C;
- (4) Among the pulse widths, 10us and 20us only available for type C;
- (5) Conditions for blind Measurement: Reflection events are within a range of 4km; reflection intensity is less than -35dB, and the blind zone is measured at the minimum pulse width.
- (6) Conditions for blind Measurement: Reflection events are within a range of 1km; reflection intensity is less than -32dB; and the blind zone is measured at the minimum pulse width.