

# palmOTDR Series Handheld OTDR

## Most Compact High-Performance OTDR



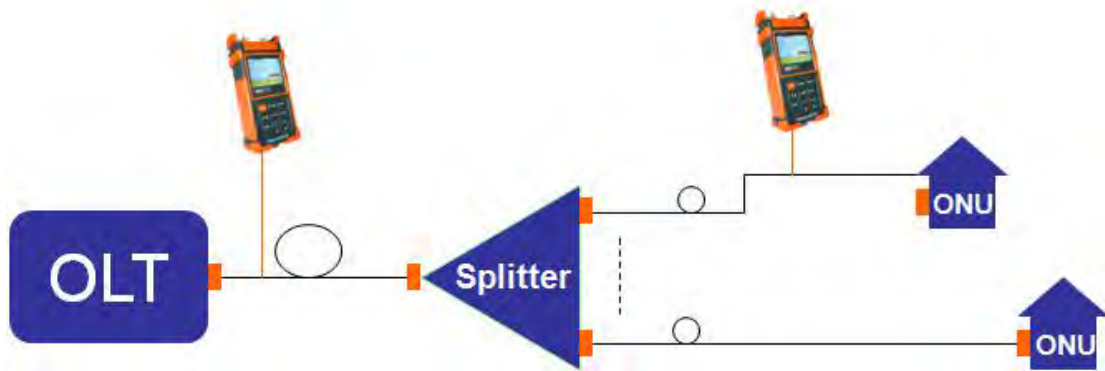
- ◆ Comprehensive fiber applications, ideal for LAN/WAN/FTTx certification & trouble-shooting:  
SM: 1310/1490/1550, 1625/1650nm (with filter), up to 50dB  
MM: 850/1300nm, 21/24dB
- ◆ Fault locating, fiber length/loss measurement, connector/ splice/ splitter/ macro bend/fiber-end detection
- ◆ Built-in PON Power Meter for Triple-play live measurement
- ◆ Optional Stabilized Laser Source, SM/MM Power Meter and VFL
- ◆ FTTx in-service testing/ Testing through splitter: (1625/1650nm with filter)
- ◆ Splitter & fiber-end identifiable
- ◆ Auto/Manual(2-point/5-point)/Averaging/Real-time test
- ◆ Pass/Fail assessment and ORL test function
- ◆ Quick start: <5 seconds
- ◆ Perfect user interface, handheld & lightweight (1kg)
- ◆ Hotkeys: Easiest operation in the world, push-and-test
- ◆ 1000 test records storage
- ◆ Bellcore file format (.sor)
- ◆ PC software for batch data processing
- ◆ USB data interface, driver-free
- ◆ Multiple languages: EN/DE/IT/FR/ES/PT/RU/KR/VN/CN etc.
- ◆ 8 hrs continuous operation/20 hrs standby
- ◆ Dust-shock proof (2m drop test)
- ◆ CE, FCC, FDA certificates



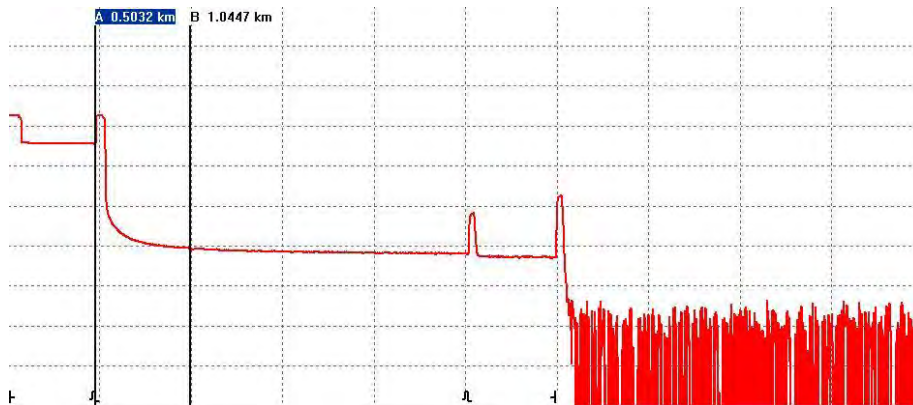
The compact palmOTDR now offers even more testing capacities, flexibility and value with combination of 850/1300/1310/1490/1550/1625/1650nm (Mono/double/triple wavelength) OTDR, 1310/1490/1550nm PON Power Meter, Stabilized Laser Source and VFL. The OTDR wavelengths cover the applications of regular end-to-end fiber characterization (1310/1550nm), premise/enterprise LAN testing (850/1300nm), FTTx fiber link construction verification (1490nm) and PON live fiber troubleshooting (1625/1650nm with filter). The integrated PON Power Meter can perform in-service testing of all PON signals (1310/1490/1550nm) on any spot of the network featuring pass-through design and burst mode support. palmOTDR is your ultimate solution to meet various testing requirements of entire fiber network.

### In-Service Testing (Through Splitter)

- In-service testing (1625nm with filter)



- Testing through splitter, splitter and fiber end identifiable



### Live Optical Signal Check

When OTDR tests with 1310/1490/1550nm wavelength, the live signals transmitting in the tested fiber may not only affect OTDR measurements but also damage the equipments connected to the network (SDH/WDM/PON) and OTDR receiver. palmOTDR series avoids the problem by starting in-service communication check before testing with message warning and auto termination functions to effectively protect test instruments and communications equipments.

1. Connect the fiber to OTDR port.
2. Press 'Run/Stop' to start.
3. ↑ on ↑ to ↑ le. ↑ ters.

Possible live signal!

Quit

Avoid Direct Eye Exposure !

--km/Div	--dB/Div	Event
No.: 0/0	Location: ---km	
Ref1: ---dB	Ins.L.: ---dB	
Attn.: ---dB	Cum.L.: ---dB	

### Built-in PON Power Meter

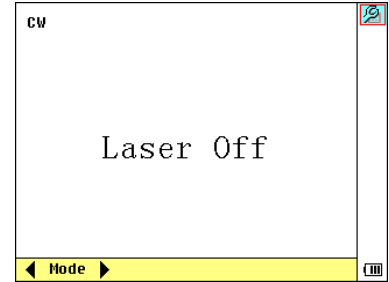
The integration of PON Power Meter into such a small unit of palmOTDR makes FTTx certification and troubleshooting an exciting experience and efficient work. The PON Power Meter module can perform in-service testing of all PON signals (1310/1490/1550nm) on any spot of the network featuring pass-through design, burst mode and Pass/Warning/Fail assessment function, which can greatly help you evaluate PON signals transmission quality.

Threshold			
Threshold Name:			
thres_name_01			
	1310nm	1490nm	1550nm
<b>FAIL</b>	3.00	-2.50	8.50
<b>PASS</b>	-1.50	-21.00	-9.50
<b>WRNG</b>	-2.50	-24.00	-12.50
<b>FAIL</b>			



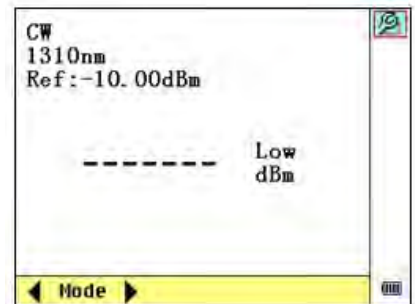
### Extended Stabilized Laser Source

Stabilized Laser Source shares palmOTDR optical port and work on the same working wavelength of palmOTDR.



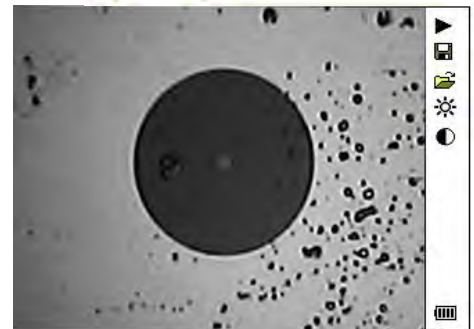
### Extended Optical Power Meter

- No warm-up
- Absolute power value and power loss measurement
- High accuracy, zero shift
- Power monitoring, high-low limit setting
- Reference setting



### Extended Optical Connector Inspector Module (MC1100 module)

- Focusing knob for fast focus
- Eye-safe and clear video viewing
- Interchangeable connector tips (male and female, PC and APC, 1.25mm and 2.5mm etc.)

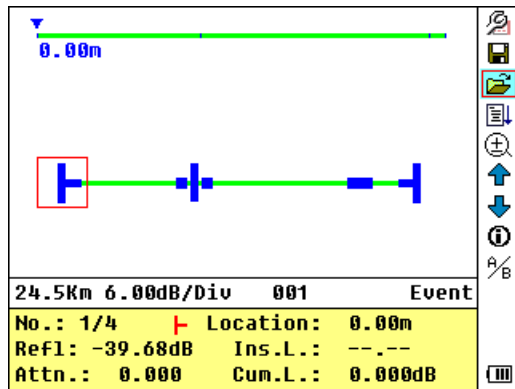


### Optimized Interface design

- Graphical User Interface
- Color and High Resolution



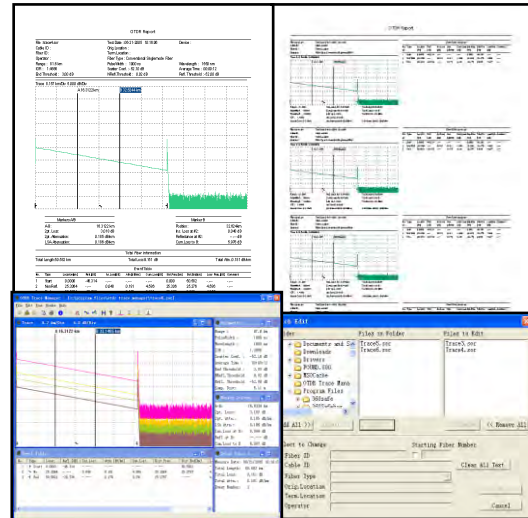
## OTDR LinkImage Software



## OTDR Trace Manager Software

TraceManager software can display, analyze and edit trace files, generate and print comprehensive test and analysis reports in various forms.

- Trace viewing, events analysis
- Batch editing and flexible printing
- Trace viewing, events analysis
- Multi traces comparison
- Batch editing and flexible printing
- Bidirectional testing (Optional)
- CSV/ASCII report formats



## Specifications

Model <sup>(1)</sup>		Wavelength (±20nm)	Dynamic Range <sup>(2)</sup>	EDZ (m) <sup>(3)</sup>	ADZ (m) <sup>(3)</sup>
Basic	Advanced				
palmOTDR-M20AE	palmOTDR-M20AE-VPSI	850/1300	21/24dB	1.5	5
palmOTDR-S20AE	palmOTDR-S20AE-VPSI	1310/1550	32/30dB	1.8	5
palmOTDR-S20BE	palmOTDR-S20BE-VPSI	1310/1550	35/34dB	1.5	5
palmOTDR-S20C/N	palmOTDR-S20C/N-VPSI	1310/1550	40/38dB	0.8	4.5
palmOTDR-S20D/N	palmOTDR-S20D/N-VPSI	1310/1550	45/43dB	0.8	4.5
palmOTDR-S20F	palmOTDR-S20F-VPSI	1310/1550	50/48dB	0.8	4.5
palmOTDR-S20C/P	palmOTDR-S20C/P-VPSI	1310/1490/1550	38/37/37dB	0.8	4.5
palmOTDR-S20C/X	palmOTDR-S20C/X-VPSI	1310/1550/1625 <sup>(4)</sup>	38/37/37dB	0.8	4.5
palmOTDR-P11C	palmOTDR-P11C-SI	1625 <sup>(4)</sup>	37dB	0.8	4.5
palmOTDR-P31C	palmOTDR-P31C-SI	1310/1550/1625 <sup>(4)</sup>	38/37/37dB	0.8	4.5
Selectable Range (Km)	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; 0.3,1.3,2.5,5,10,20,40,80,120,160,240@others				
Pulse Width	10ns,30ns,100ns,300ns,1µs@850nm; 10ns,30ns,100ns,300ns,1µs,2.5µs@1300nm; 5ns,10ns, 30ns,100ns, 300ns,1µs,2.5µs,10µs,20µs@others				
Averaging Time	Quick, 15s, 30s, 1min, 2min, 3min				
Distance Measure Accuracy	±(1m + 5×10 <sup>-5</sup> ×distance + sampling space)				
Attenuation Detect Accuracy	±0.05 dB/ dB				
Reflection Detect Accuracy	±4 dB				
Data Storage	1000 records				

Connectivity	USB
Connector	FC/PC(Interchangeable SC, ST)
Power Supply	NiMH Battery / AC Adapter
Battery Life	8 hrs continuous operation, 20 hrs standby (on one charge); recharging time < 4 hrs
Operating Temperature	-20°C ~ 50°C
Storage Temperature	-40°C ~ 70°C
Relative Humidity	0~95% (non-condensing)
Weight	1kg (2.2 lbs)
Dimensions (H×W×T)	220×110×70mm (8.7×4.3×2.7 inch)

## General Specifications

### Functional Module Specifications

<b>Visible Fault Locator Module<sup>(5)</sup></b>			
Wavelength (±20nm)	650nm		
Output Power (dBm)	≥-3		
Max Measurement Range	5 Km		
<b>Stabilized Laser Source Module<sup>(5)</sup></b>			
Wavelength (±20nm)	Same as OTDR working wavelength <sup>(5)</sup>		
Output Power (dBm)	≥-7		
<b>Optical Power Meter Module<sup>(5)</sup></b>			
Calibrated Wavelength (nm)	850,1300,1310,1490,1550,1625		
Power Range (dBm)	-70 ~ +6 (-60 ~ +6 @ 850nm)		
Detector Type	InGaAs		
Display Resolution	0.01dB		
Accuracy	± 5% ± 0.01nW (±0.5dB@850nm)		
MOD Identification	1K, 2K Hz		
<b>PON Power Meter Module<sup>(6)</sup></b>			
Calibrated Wavelength	1310nm	1490nm	1550nm
Measurement Range (dBm)	-40 ~ +8 (Burst mode: -30 ~ +8)	-40 ~ +8	-40 ~ +20
Spectral Passband (nm)	1310±40	1490±10	1550±10
Power Uncertainty (dB)	≤ 0.5		
Display Resolution (dB)	0.01		
Insertion Loss (dB)	≤ 1.5		
Threshold	60 user-definable threshold sets		

Data Storage	1200 records
<b>MCI100 Optical Connector Inspector Module</b>	
Zoom	250X
Resolution	0.75µm
Focus	Manual
Adaptor	Standard : 25-U-M: FC/SC/ST/E2000 UPC male; 125-U-M : LC/MU UPC male; 25-U-F : FC/SC/ST/E2000 UPC female; LC-U-F : LC UPC female; Optional: 125-A-M : LC/MU APC male; 25-A-M : FC/SC/ST/E2000 APC male; SC-A-F : SC APC female; FC-A-F : FC APC female; LC-A-F : LC APC female;
Weight / Size	150g/ 165×38×35mm

\* Specifications subject to change without notice

#### Notes:

- (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 and averaging time of 3 minutes.
- (3) Conditions for dead zone measurement: Reflection event is at 0.6Km, reflection intensity is less than -45dB, event dead zone is measured with pulse width of 10ns; attenuation dead zone is measured with pulse width of 10ns.
- (4) 1625nm can be replaced by 1650nm.
- (5) Visible fault locator module, Stabilized laser source module and Optical power meter module is standard on -VPSI models. Stabilized laser source shares palmOTDR optical port and work on the same working wavelength of palmOTDR.
- (6) PON power meter module is standard on P11C, and P31C.

#### Ordering Information

##### Standard Package Includes:

Instrument, FC/PC connector, NiMH battery, TraceManager software CD, USB Data cable, AC adaptor, Soft carrying case, Warranty card, Certificate of calibration, Quick reference guide.

##### Options:

- *palmOTDR-XXXX-VPSI*: Visible Fault Locator module , Optical Power Meter module, Stabilized Laser Source module and Optical Connector Inspector Module for palmOTDR;
- *MCI100 Module*: Optical Connector Inspector
- *LM100 Function*: LinkImage software

#### For More Information:



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