



The Harris® palmOTDR series is a range of handheld optical fault-locating and analyzing tools for optical fiber networks. With its excellent performance and higher user value, it offers an innovative test method for telecommunication networks.

The palmOTDR is more economical than a traditional OTDR and features a compact, lightweight and easy-to-use design. The unique hot-key design makes it faster and more convenient to review and analyze an event. The palmOTDR includes powerful functions, such as supporting averaging and real-time test mode, and it can be used in single mode (1310/1550nm) fiber applications. With its multifunctional carrying softbag, which is convenient for both field and lab testing, the palmOTDR series has become the indispensable and ideal tool for fiber network construction, daily check and maintenance in FTTx, WAN and CATV systems.

The palmOTDR can save and transfer the measurement curves data to a PC by the software "TraceManager" for further analyzing, reporting and printing. Furthermore, the requirements of different fiber connect types can be met by simply changing adaptors.

Features

- Lightweight, portable and ideal for FTTx
- Full functions, optional single mode fiber application
- High precision measurement, large memory capacity (300 test curves)
- Without hard desk 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
- CE, FCC, FDA certificates
- Drop tested up to 1 meter

Standard Configuration

- Instrument
- Rechargeable NiMH battery
- AC adapter
- Trace Manager software disk
- Data transfer cable (RS232/USB)
- Rubber boot
- Toolkit softbag
- Fiber connector cleaner
- Connector clean stick
- Warranty card
- CE/FCC certificate
- Certificate of calibration
- User's manual

Specifications

Model ¹	palmOTDR-S20A / palmOTDR-S20C
Dynamic Range (dB) ²	24/24 / 32/32
Wavelength (±20nm)	1310, 1550
Display Type	Colorful
Range of Use	Single-mode
Optical Connection	Single Port / Dual Ports
Emitter Type	LD
Connector Type	FC/PC (interchangeable SC, ST)
Selectable Ranges (km) ³	0.3, 1.3, 2.5, 5, 10, 20, 40, 80, 120, 160, 240
Pulse Widths (ns) ⁴	5, 10, 12, 30, 100, 275, 1000, 2500, 10000, 20000
Event Deadzone	10m ⁵ / 5m ⁵
Attenuation Deadzone	25m ⁵ / 20m ⁵
Average Time	15s, 30s, 1min, 2min, 3min
Distance Measure Accuracy	± (1m + 5 x 10 ⁻⁵ x Distance + sampling space)
Reflection Detect Accuracy	± 4 dB
Attenuation Detect Accuracy	± 0.05 dB/dB
Data Storage	300 test curves
Data Transmission	RS-232/USB Port
Visible Laser Source	(For palmOTDR-S20C only)
Output Power (dBm)	≥-3
Maximum Measurement Range (km)	5
General Specifications	
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-condensing)
Weight	1.9 lbs (0.87 kg)
Dimension	7.7 x 3.9 x 2.4 inch (196 x 100 x 64mm)

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 within average time of 3 minutes;

³ Among the selectable ranges, 0.3km, 160km, and 240km only for type C;

⁴ Among the pulse widths, 5ns, 10ns, 10us and 20 us 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.