

OTDR

(Optical time-domain reflectometer)

— The new standard for handy OTDR

The XtendLan 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 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 single mode (1310/1550nm) fiber applications. With its multi-functional carrying softbag which is convenient for both field and lab testing, the OTDR series have become the indispensable and ideal tools for fiber networks construction, daily check and maintenance in FTTx, WAN and CATV systems.

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

Features

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- Lightweight, portable and ideal for FTTx
- 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 3.5 hours continuous operations
- Low battery annunciator
- CE, FCC, FDA certificates
- 1 meter drop test



Technical Specifications		OTDRHD	
Model ⁽¹⁾	24	32V	32/3
Dynamic Range(dB) ⁽⁵⁾	24/24		32/3
Range of Use		Single-mode	
Wavelength(±20nm)		1310/1550	
Display Type		Colourful	
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, 300, 1000, 2500, 10000, 20000	
Event Deadzone	10m ⁽⁶⁾		3m
Attenuation Deadzone	25m ⁽⁶⁾		15m
Average Time		15s/30s/1min/2min/3min	
Distance Measure Accuracy		±(1 m + 5 × 10 ⁻⁵ × Distance + sampling space)	
Attenuation Detect Accuracy		±0.05 dB/dB	
Reflection Detect Accuracy		±4 dB	
Data Storage		300 test traces	
Data Transmission		RS-232/USB port	
Visible Fault Locator (For OTDRHD-32V only)			
Output Power(dBm)		-3	
Max. Meas. Range(km)		5	
General Specifications			
Power Supply		NiMH rechargeable battery(1600mAh) / AC adapter	
Battery Life		Support over 3.5 hours for continuously testing operating on one charge or over 20 hours standby for OTDR only	
Operating Temp.		0°C ~ 50°C	
Storage Temp.		-20°C ~ 70°C	
Relative Humidity		0 ~ 95%(non-condensing)	
Weight		1.9 lbs (0.87kg)	
Dimension (H x W x T)		7.7 x 3.9 x 2.4inch (196 x 100 x 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;
- (4) Among the pulse widths, 12ns and 275ns only available for type A; 300ns, 10us and 20us only available for type 32V;
- (5) Conditions for deadzone Measurement: For type „24“, reflection events are within 2.1km position, reflection intensity is less than -35dB, the deadzone is measured at the 30ns pulsewidth; For type „32V“, reflection events are 0.6km position, reflection intensity is less than -45dB, the event deadzone is measured at the 10ns pulsewidth and the attenuation deadzone is measured at the 30ns pulsewidth.
- (6) Conditions for deadzone Measurement: Reflection events are within a range of 1km; reflection intensity is less than -32dB; and the deadzone zone is measured at the 12ns pulse width.

Ordering Information

Standard Configuration:

Instrument, Rechargeable NiMH battery, AC adapter, TraceManager 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.