

OTDR Live Fiber

LNT-OTDR-B



The OTDR Live Fiber is an all-in-one tester designed for technicians who need fast, accurate troubleshooting of both active fiber networks and copper infrastructure in the field without taking down the circuit. Featuring live fiber OTDR testing up to 150 km, and a full suite of fiber and cable test functions, this tester allows installers to quickly identify faults, verify performance, and generate reports from the field.

- **Reduce Network Downtime:** Test live fiber without service interruptions
- **Locate Faults Faster:** Identify breaks, bends, splice loss, and connector issues quickly
- **Long-Range Testing:** Test fiber links up to 150 km
- **Carry Fewer Tools:** Multiple fiber and copper tests in one device
- **Speed Up Troubleshooting:** Built-in cable tracing, TDR, and continuity testing
- **Reporting Made Easy:** Export results in PDF, Excel, SOR, or screenshot formats
- **Stay Productive Longer:** Up to 11 hours of battery life

Technical Specifications

Wavelength (nm) <i>Optional</i>	1310/1550				1610		
Optical Signal Support	Supports				N/A		
Active Fiber Testing	N/A				Supports		
Dynamic Range (dB) ^a <i>Optional</i>	28/26	30/28	32/30	34/34	28	30	32
Pulse Width (ns)	5, 10, 20, 30, 50, 80, 160, 300, 500, 800, 1000, 2000, 4000, 6000, 10000, 20000						
Testing Range	≤150 Km						
Event Blind Zone (m) ^b	≤1.6m						
Attenuation Blind Zone (m) ^b	≤8m						
Linearity (dB/dB)	±0.05 dB/dB						
Loss threshold (dB)	0.05						
Loss Resolution Ratio (dB)	0.01						
Minimum Distance Resolution	0.05						
Sampling Point (K)	32-128						
Distance Uncertainty (m)	±(1m + 5 × 10 ⁻⁵ × distance + sampling interval)						
Distance Scope (km)	0.5, 1, 2, 5, 10, 25, 50, 100, 200						
Typical Real-Time Refreshing Duration	1s						
File Format	SOR standard format / PDF / Excel						
Measurement Duration	5sec, 10sec, 15sec, 30sec, 1min, 2min, and 3min are selectable						
Storage	FLASH (EMMC)8G + TF card						
Interface Type	FC-PC, SC-PC						

Notes: The technical specification describes the ensured performance of the instrument when using typical PC model connector to measure, without considering the uncertainty caused by optical fiber refractivity.

(a)Dynamic range is the data measured under the condition of the maximum pulse width and 3 minutes of average time. Dynamic range is the data measured under the condition of 200km/20000ns/3min.

(b)Measuring conditions of blind zone: reflection event is within 5Km, reflection strength is 45dB. Measured by the minimum pulse width.

Technical Specifications

Specifications	Size & Display	7 inch IPS touch screen, 1280 x 800 resolution	
	Network Port	Dual 1000M LAN port, 10/100/1000M auto adapt	
	WiFi	Built in 2.4G WiFi, speeds 150Mbps	
	Output Power	5V 2A power output	
	PoE Detection	Display the standard PoE or Non-standard PoE, PoE voltage and cable connection status.	
	UTP Cable Test	Test UTP cable connection status and display on the screen. Read the number on the screen. Detect the near-end, mid-end and far-end fault point of RJ45 cable connector, can test shield cable.	
	RJ45 TDR Cable Test	Support cable's open and short testing, max 180m.	
	Data Monitor	Captures and analyzes the command data from controlling device, also can send hexadecimal.	
	Network Test	Trace route, Link monitor, DHCP server, port flashing, Ping test	
	Digital Cable Tracer	Search BNC cable, network cable and telephone cable from the mess cables. Cable tracer and UTP cable test app in the same interface, also can search shield cable.	
Electroscope	Voltage range	AC12-1000V	
	Frequency	50/60Hz	
	Alarm type	Sounds and light double alarms	
	Level	CAT.III 1000V / CAT.IV 600V; CE	
Visual Fault Locator	10mW visual fault locator with 650nm wavelength, emit red laser sources to test multi-mode and single mode fiber's bending and breakage, test range 8km.		
Optical Power Meter	Wavelength: 1625, 1550nm, 1490nm, 1310nm, 1300nm, 850nm, measurement range, -70 ~ +10 dBm, for optical power testing and fiber link loss relative measurement.		
Laser Source Parameter	Laser Type	FP-LD	
	Output Wavelength	1310/1550	1610
	Output Power	-5dBm~0dBm	
	Frequency	270Hz / 330Hz / 1kHz / 2kHz	
	Stability	CW, +0.2dB/15min (Test after boot for 15min)	
Power	External Power Supply	DC 12V(2A)	
	Battery	Built-in 7.4V Li-ion battery, 7800mAh	
	Rechargeable	After charging 4 hours, normal working time 11 hours	
Parameter	Operation Setting	OSD menu, select your desired language: English, Portuguese, Korean, Russian, Italian, French, Polish, Spanish, Japanese, Turkish, Deutsch, Serbian, Czech, Vietnamese etc.	
	Auto Off	5-30 (mins)	
Working Environment	Working Temperature	-10°C to +50°C	
	Working Humidity	30% - 90%	
	Dimension/Weight	203mm x 141mm x 46mm / 0.92Kg	