LT-500 series Multi-function Cable Tester



Multi-function Interface

All-in-one interface for cable tracing, wiring sequence, RJ45 plug crimp testing, port flashing, and RJ45 TDR cable testing

Port Flashing

Supports 2.5G port flashing and 10G port identification.

PoE++ Detection

Detects PoE protocol, online power and power supply wire pairs.

Features

- 10G Ethernet port identification / 2.5G port flashing / PING test / IP address scan
- PoE switch and online power detection, supports IEEE802.3BT 90W
- Cable tracing and UTP cable testing can be performed simultaneously to quickly verify tracing results
- Digital cable tracer, decisively rejects noise and false signals, supports cable tracing inside walls
- RJ45 cable TDR test and cable quality test, to test cable pair status, length, attenuation reflectivity, max 200 meters
- UTP cable test, verifies network cable's sequence and continuity, with RJ45 connector single-sided crimping detection.
- Network cable open-circuit length test, up to 3000 meters
- Built-in 3.7V 2000mAh lithium-ion rechargeable battery
- Both emitter and cable tracer can be set to auto power off
- Optical power meter and visual fault locator *(Optional)

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Application

The LT-500 Series multi-function cable tester supports cable tracing, wire mapping, crimping test, length measurement and port flashing on a single port, which is equipped with 100V high-voltage protection. It supports UTP and STP cable tracing, 2.5G port flashing and 10G port identification. PoE detection is compliant with IEEE 802.3af/at/bt PoE standards and enables real-time online power measurement. The tester also supports PING test and IP scanning. The LT-500S model is equipped with an optical power meter (OPM) and visual fault locator (VFL), enabling integrated testing of both copper cables and optical fiber cables. It is a professional tool for structured cabling, equipment room maintenance, security monitoring and weak current troubleshooting.

Specifications

Model	LT-500 series	
Screen & Display	2.8-inch color screen, 320*240 resolution	
Cable Tracing/Wire Mapping/Continuity Test	Transmit Signal	Digital signal (decisively rejects noise and false signals)
	Cable Types	Supports RJ45 twisted pair, RJ11 telephone cable, BNC video cable, and low-voltage metal cables.
	UTP Cable Test	Tests any two or more wires in a network cable. The screen displays the connection sequence, 100/1000M, and cable remote number. The receiver is identified through indicators.
	Continuity Test	Emitter: Minimum recognition length of 10cm
		Receiver: Minimum recognition length of 1m
	Short Circuit Detection	Supports network cable short circuit detection
Electroscope	Voltage range	AC12-1000V
	Frequency	50/60Hz
	Alarm type	Sounds and light double alarms
	Level	CAT.III 1000V / CAT.IV 600V;CE
Length Measurement	Measures opens of network cables, the maximum measurement length up to 3000 meters. Accuracy: Cable length x 3% ± 1m	
RJ45 cable TDR test	Test cable's pair status, length, attenuation reflectivity, and cable quality . Maximum length up to 200 meters	
Port Flashing	2.5G port flashing quickly locates Ethernet switch port, Port Speed Detection 10M/100M/1000M/2.5G/10G	

PoE testing	Supports IEEE802.3BT/AT/AF and non-standard protocol detection. Displays power supply voltage, power supply pins, and pin polarity. The real-time PoE power from Power Sourcing Equipment (PSE) to IP video surveillance camera and any other Powered Devices (PD) , the online power range: 0-90W	
PD powered detection	Detects standard or non-standard PoE, supports 24V or 48V PoE	
PING Test	Verifies network connectivity and response latency.	
IP Scan	Quickly find the IP address in a network segment, with customizable scan range.	
Languages	Simplified Chinese, Traditional Chinese, English, German, Korean, Italian, Japanese, Czech, Spanish, French, Polish, Portuguese, Turkish, Serbian, Russian, Vietnamese	
Optical Power Meter * （Optional）	Wavelength (nm): 850/980/1270/1300/1310/1490/1550/1577/1625/1650nm. Power range (dBm): -70 to +10 dBm	
Visual fault locator * （Optional）	Emits visible red laser to detect fiber optic line breaks, cracks, bends, and other faults.	
Power		
Battery Power	**Emitter**	3.7V 2000mAh lithium-ion rechargeable battery
	Receiver	3.7V 2000mAh lithium-ion rechargeable battery
Working Environment		
Operating Temperature	-10℃---+50℃	
Operating Humidity	30%-90%	
Dimensions/Weight	Emitter	142mm x 64mm x 30mm / 0.2Kg
	Receiver	218mm x 48mm x 32mm / 0.15Kg

The data above is only for reference and any change of them will not be informed in advance. For more detailed technical inquiries, please feel free to call the Technical Department of our company.