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> Henkion Multifunction RJ45 Network Cable Tester LT-600 Instruction Manual

Henkion LT-600

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INTRODUCTION

The Henkion Multifunction RJ45 Network Cable Tester LT-600 is a versatile tool designed for network professionals and DIY enthusiasts. It integrates advanced cable testing, tracing, and network diagnostic functionalities to efficiently identify and resolve network issues. This manual provides detailed instructions for setup, operation, and maintenance of your device.

KEY FEATURES

- Advanced UTP cable testing for sequence, type, and remote kit detection.
- Digital signal Ethernet cable tracing for various metal cables, rejecting noise and false signals.
- POE++ detection supporting IEEE802.3BT/AT/AF and non-standard protocols, displaying voltage, pins, and polarity.
- Comprehensive network tools including IP discovery, IP address scan, PING test, LLDP/CDP detection, and Port flashing.
- RJ45 TDR cable test for pair status, length, attenuation, reflectivity, impedance, and skew.
- Cable length measurement up to 3000 meters with report creation.
- PD power detection and NCV (Non-Contact Voltage) scan function.
- FTP function for copying test reports and data.
- 4-inch IPS touch screen with 800*480 resolution.
- Built-in rechargeable lithium-ion batteries for both emitter and receiver.

SETUP

Package Contents

The package includes the following items:

- Host (Emitter) x1
- Receiver x1
- RJ45 to BNC connector x1
- Screwdriver x1

- Lanyard x1
- Tool Bag x1
- Type-C cable x1
- BNC alligator clip x1
- RJ45 cable x1
- RJ11 cable x1
- Packing box x1
- User Manual x1

 Supported  Not Supported				
Function / Model (Optional)	LT-600	LT-600S	LT-600M	LT-600T
UTP Cable Tester	✓	✓	✓	✓
RJ45 TDR Cable Test	✓	✓	✓	✓
Length Measurement	✓	✓	✓	✓
Cable Tracer	✓	✓	✓	✓
PoE++ Detection	✓	✓	✓	✓
Link Speed / Ping	✓	✓	✓	✓
Port Flashing	✓	✓	✓	✓
IP Exploration / PPPOE	✓	✓	✓	✓
Route Tracing / LLDP/CDP	✓	✓	✓	✓
4 inch IPS Touch Screen	✓	✓	✓	✓
FTP Server	✓	✓	✓	✓
Non-contact AC Voltage Detect	✓	✓	✓	✓
Rechargeable Battery	✓	✓	✓	✓
VFL	✗	✓	✓	✓
Optical Power Meter	✗	✓	✓	✓
Digital Multi-Meters	✗	✗	✓	✓
TDR	✗	✗	✗	✓
Level Meter	✗	✗	✗	✓

Image: The Henkion LT-600 package contents laid out, showing the main unit, receiver, cables, adapters, screwdriver, lanyard, and carrying bag.

Product Overview

Familiarize yourself with the main components and interfaces of the tester.

Host (Emitter) Details



Multifunction Network Cable Tester

A good assistant for network engineering

- Cable Tracing
- UTP Continuity Test
- Length Measurement
- RJ45 cable TDR test
- PoE Testing
- Network Tools
- Port Flashing

Image: Detailed view of the main unit (host) showing the 4-inch IPS touch screen, power button, return button, UTP/SCAN port, LAN/Flash port, and Type-C charging port.

Receiver Details



Image: Detailed view of the receiver unit showing the LED power indicators, earphone port, PD powered test port, Type-C charging port, sensitivity knob, mode button, SCNV button, light button, and RJ45 test port.

Battery and Charging

Both the emitter and receiver units are equipped with built-in rechargeable lithium-ion batteries. The emitter has a 3.7V 4000mAh battery (approx. 6 hours working time), and the receiver has a 3.7V 2000mAh battery (approx. 12 hours working time). Use the provided Type-C cable to charge both units.

Cable Tracer

Quickly find out the target cable(BNC cable, network cable and telephone cable and other various metal) from the mess cables. Up-graded digital signal decisively, rejects noise and false signals. Rotating the knob of receiver to adjust the sensitivity. Locate cables quickly and easily, save a lot of time and improve work efficiency.



Image: The Henkion LT-600 host and receiver units connected via Type-C cables to a USB charger for recharging.

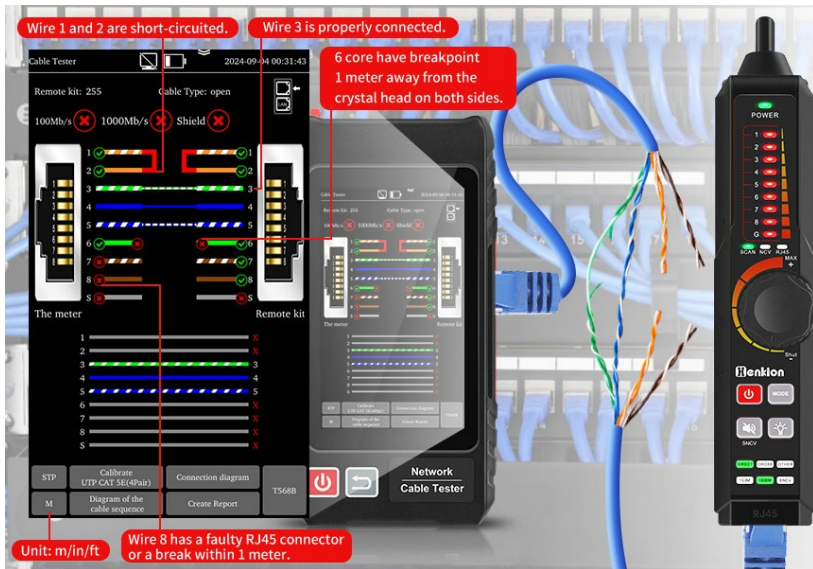
Your browser does not support the video tag.

Video: A demonstration of connecting the Henkion LT-600 units to a charger, showing the charging process and the device's interface.

OPERATING INSTRUCTIONS

UTP Cable Test

This function tests any two or more wires in a network cable. The screen displays the connection sequence, 1000/100M, and cable number. The receiver is identified through indicators.



UTP Cable Test

Tests any two or more wires in a network cable. The screen displays the connection sequence, 1000/100M, and cable number. The receiver is identified through indicators.

Support serial number remote kits test(Optional).

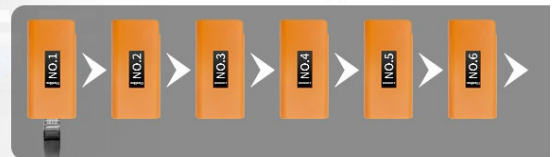


Image: The host unit displaying the UTP cable test results, showing wire mapping and identifying faults like open circuits or short circuits. The receiver unit is connected to the other end of the cable.

Cable Tracer

The cable tracer can quickly find the target cable (BNC cable, network cable, telephone cable, and other various metal cables) from a bundle of cables. It decisively rejects noise and false signals. Rotate the sensitivity knob on the receiver to adjust the sensitivity for accurate cable location.

Rechargeable Cable Tester

Emitter: 3.7V 4000mAh lithium-ion rechargeable battery
(working time about 6 hours)

Receiver: 3.7V 2000mAh lithium-ion rechargeable battery
(working time about 12 hours)

4000

mAh

Image: The host unit displaying the cable tracing interface, with the receiver unit being used to trace a cable among several others. Icons for various cable types are shown.

RJ45 TDR Cable Test

Test cable pair status, length, attenuation, reflectivity, impedance, and skew. The maximum measurement length is up to 180 meters. This function helps assess cable quality.

PoE Detect

Supports IEEE802.3BT/AT/AF and non-standard protocol detection.

Displays power supply voltage, power supply pins, and pin polarity.

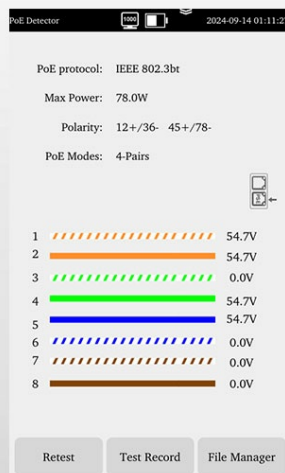


Image: The host unit displaying the RJ45 TDR test results, showing the status (open, short) and attenuation for each line pair. Options for "Good quality cable", "Poor quality cable", and "Wet cable" are visible.

Cable Length Measurement

Measure opens of network cables with a maximum measurement length of up to 3000 meters. Accuracy is Cable length x 3% ± 1m. Ensure you choose the correct cable type for more accurate results. Test reports can be created.

Packing List

1 Host x1	2 Receiver x1
3 RJ45 to BNC connector x1	4 Screwdriver x1
5 Manual x1	6 Type-C cable x1
7 Tool Bag x1	8 BNC alligator clip x1
9 RJ45 cable x1	10 RJ11 cable x1
11 Lanyard x1	12 Packing box x1



Image: The host unit displaying the cable length measurement interface, showing the length of each wire pair and options to calibrate or create a report.

POE Detect

The RJ45 POE Tester supports IEEE802.3BT/AT/AF and non-standard protocol detection. It displays power supply voltage, power supply pins, and pin polarity. This helps verify if the POE switch's power output is normal.

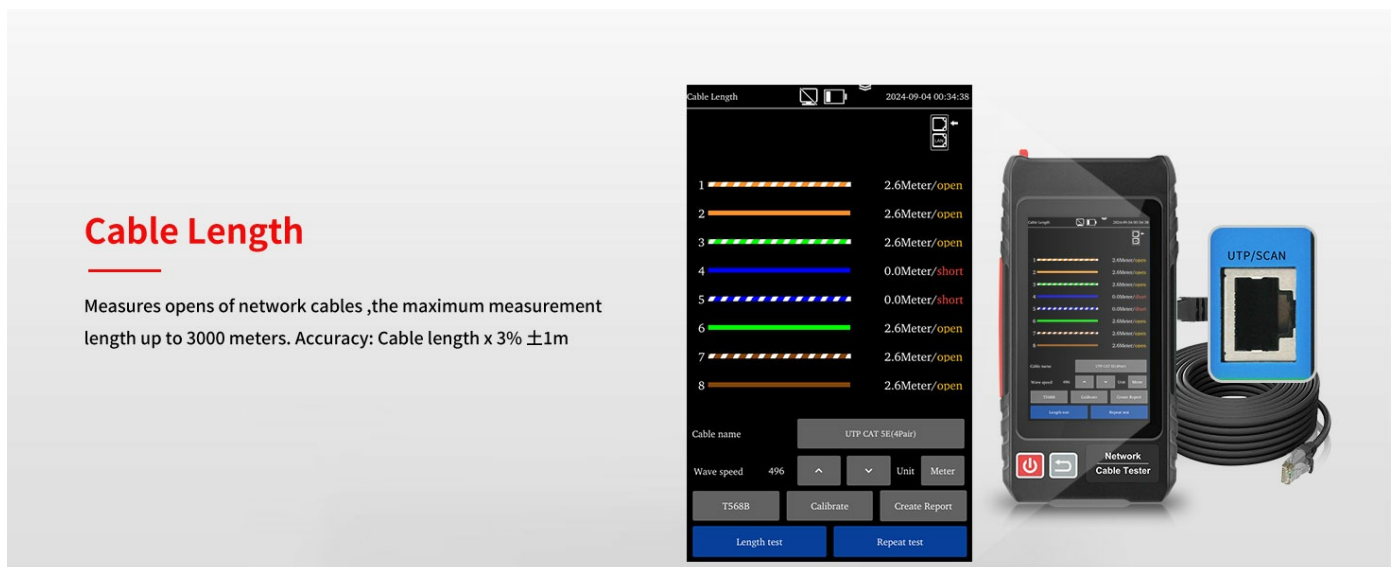


Image: The host unit displaying POE detection results, showing the POE protocol, max power, polarity, and POE modes. A network cable is connected to a POE switch and the tester.

Your browser does not support the video tag.

Video: A demonstration of the Henkion LT-600's POE detection capabilities, showing how it identifies POE protocol, max power, and active pins.

Network Tools

The device includes various network tools for comprehensive diagnostics:

- **IP Discovery:** Searches the entire network segment for IP addresses of connected devices.
- **IP Scan:** Quickly finds the IP address of IP cameras or other devices, supporting scanning MAC address, camera manufacturer, and IP conflicts.
- **PING Test:** Tests if a connected IP camera or other network device's Ethernet port is working normally and if the IP address is correct.
- **Tracer:** Determines the path of an IP packet across the network.
- **LLDP/CDP Detection:** Detects main capabilities, management addresses, device identification, interface

information, and other details of switches and devices (requires switch support for LLDP/CDP protocol).

- **Port Flashing:** Quickly locates the port of the Ethernet switch and other devices connected to the tester by flashing the port LED.
- **PPPOE Dial-up:** Tests PPPOE over Ethernet connections.



Image: The host unit displaying various network tool interfaces, including IP discovery, IP scan, PING, Tracer, and LLDP/CDP, demonstrating their functionalities.

Non-Contact AC Voltage Detection (NCV)

The receiver unit features an inductive NCV scan function with sound and light dual alarms. It supports distinguishing between live and neutral wires, and detects alternating current voltage.

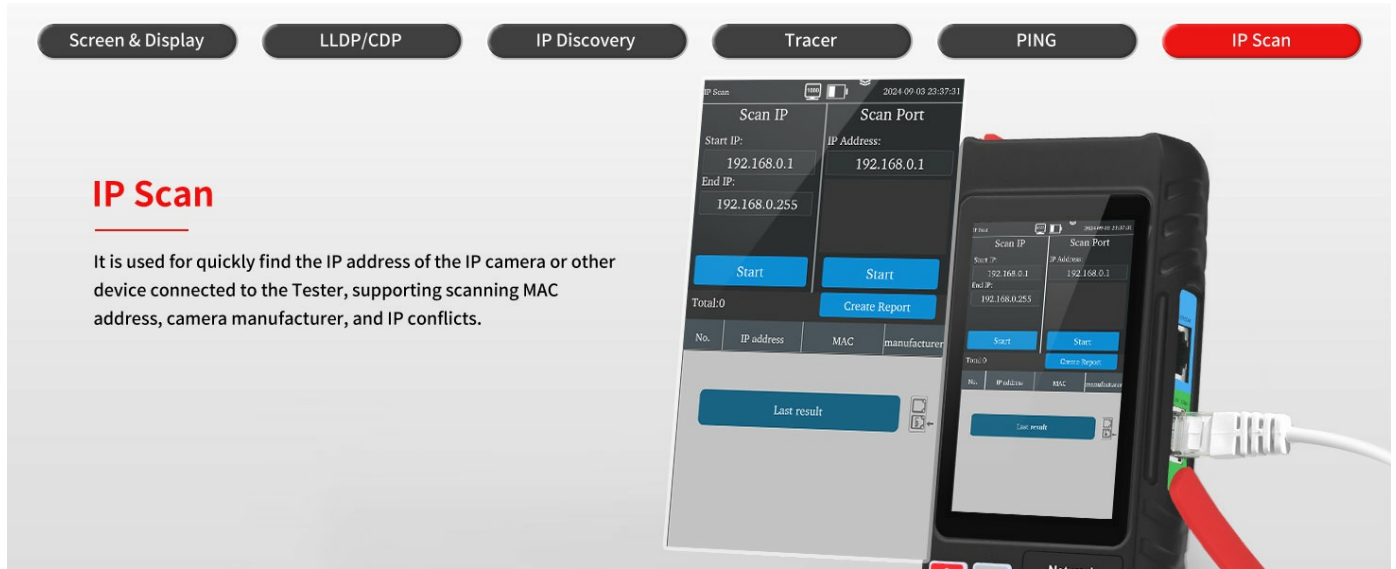


Image: The receiver unit demonstrating non-contact AC voltage detection, showing how it identifies live and neutral wires with visual and auditory alerts.

FTP Server & File Manager

The FTP function allows users to copy test reports and data via network FTP. The File Manager is used to view and organize saved test reports and screenshots.







 Supported  Not Supported	 LT-600 (Size=S)	 LT-600S (Size=M)	 LT-600M (Size=L)	 LT-600T (Size=XL)
Function / Model (Optional)	LT-600 (Size=S)	LT-600S (Size=M)	LT-600M (Size=L)	LT-600T (Size=XL)
UTP Cable Tester	✓	✓	✓	✓
RJ45 TDR Cable Test	✓	✓	✓	✓
Length Measurement	✓	✓	✓	✓
Cable Tracer	✓	✓	✓	✓
PoE++ Detection	✓	✓	✓	✓
Link Speed / Ping	✓	✓	✓	✓
Port Flashing	✓	✓	✓	✓
IP Exploration / PPPOE	✓	✓	✓	✓
Route Tracing / LLDP/CDP	✓	✓	✓	✓
4 inch IPS Touch Screen	✓	✓	✓	✓
FTP Server	✓	✓	✓	✓
Non-contact AC Voltage Detect	✓	✓	✓	✓
Rechargeable Battery	✓	✓	✓	✓
VFL	✗	✓	✓	✓
Optical Power Meter	✗	✓	✓	✓
Digital Multi-Meters	✗	✗	✓	✓
TDR	✗	✗	✗	✓
Level Meter	✗	✗	✗	✓

Image: The host unit displaying the FTP server and File Manager interfaces, showing how to access and manage saved data and reports.

Flashlight

Both the host and receiver units include a flashlight function to provide illumination in dark working environments.

Model	Network cable Tester [*] Optional		Port Flashing	Quickly locates ports connected to Ethernet switches and other devices.	
Screen & Display	4 inch IPS touch screen, 800*480 resolution		PoE Detector	Supports IEEE802.3BT/AT/AF and non-standard protocol detection. Displays power supply voltage, power supply pins, and pin polarity.	
Cable Tracing/ Wire Mapping/ Continuity Test	Transmit Signal	Digital signal (decisively rejects noise and false signals)	Network tool	IP discovery, IP address scan, PING test, LLDP/CDP detection, Port flashing, PPPOE dial-up, FTP server, etc.	
	Cable Types	Supports RJ45 twisted pair, RJ11 telephone cable, BNC video cable, and low-voltage metal cables.	Power		
	UTP Cable Test	Tests any two or more wires in a network cable. The screen displays the connection sequence, 1000/100M, and cable number. The receiver is identified through indicators.	Battery Power	Emitter	3.7V 4000mAh lithium-ion rechargeable battery (working time about 6 hours)
	Continuity Test	Emitter: Minimum recognition length of 10cm Receiver: Minimum recognition length of 1m		Receiver	3.7V 2000mAh lithium-ion rechargeable battery (working time about 12 hours)
	Short Circuit Detection	Supports network cable short circuit detection	Working Environment and Specifications		
Length Measurement	Measure opens of network cables, max measurement length up to 3000 meters. Accuracy: Cable length x 3% ± 1m	Operating Temperature	-10°C----+50°C		
RJ45 cable TDR test	Test cable' s pair status, length, attenuation reflectivity, impedance, skew, and other parameters. Maximum measurable length up to 180 meters	Operating Humidity	30%-90%		
		Dimensions	Emitter	154 x 86 x 40mm(5.91 x 3.39 x 1.57 inch) / 0.3Kg (0.66lbs)	
			Receiver	210 x 40 x 25mm(8.26 x 1.57 x 0.98 inch) / 0.13Kg (0.3lbs)	

Image: The host unit displaying the flashlight interface, with the flashlight beam visible in a dark setting.

SPECIFICATIONS

Feature	Description
Model	LT-600
Screen & Display	4 inch IPS touch screen, 800*480 resolution
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. Displays connection sequence, 1000/100M, and cable number. Receiver identified through indicators.
Cable Tracing/Wire Mapping/Continuity Test	Emitter: Minimum recognition length of 10cm. Receiver: Minimum recognition length of 1m.
Short Circuit Detection	Supports network cable short circuit detection
Length Measurement	Measures opens of network cables, max measurement length up to 3000 meters. Accuracy: Cable length x 3% ± 1m.
RJ45 TDR Cable Test	Tests cable pair status, length, attenuation reflectivity, impedance, skew, and other parameters. Max measurable length up to 180 meters.
Port Flashing	Quickly locates ports connected to Ethernet switches and other devices.
POE Testing	Supports IEEE802.3BT/AT/AF and non-standard protocol detection. Displays power supply voltage, power supply pins, and pin polarity.
Network Tools	IP discovery, IP address scan, PING test, LLDP/CDP detection, switch port flashing, PPPOE dial-up, FTP server, etc.
Battery Power	Emitter: 3.7V 4000mAh lithium-ion rechargeable battery (working time about 6 hours). Receiver: 3.7V 2000mAh lithium-ion rechargeable battery (working time about 12 hours).

Operating Temperature	-10°C ~ +50°C
Operating Humidity	30% - 90%
Dimensions (Emitter)	154 x 86 x 40mm (5.91 x 3.39 x 1.57 inch) / 0.3Kg (0.66lbs)
Dimensions (Receiver)	210 x 40 x 25mm (8.26 x 1.57 x 0.98 inch) / 0.13Kg (0.3lbs)

TROUBLESHOOTING

- **Device not powering on:** Ensure the internal battery connector is securely plugged in. Charge the device fully using the provided Type-C cable.
- **Inaccurate cable length measurement:** Verify that the correct cable type is selected in the settings before performing the test.
- **No signal or false signals during cable tracing:** Adjust the sensitivity knob on the receiver unit. Ensure the cable is properly connected to the UTP/SCAN port.
- **Network tools not functioning:** Ensure the device is properly connected to the LAN port of the network you are testing. For LLDP/CDP, confirm that the network switch supports these protocols.
- **Display issues:** If the screen is unresponsive or shows incorrect information, try restarting the device.

WARRANTY AND SUPPORT

Henkion offers a 30-day free return policy for this product. For any technical inquiries, support, or service needs, please contact the Technical Department of our company. We are committed to providing the best service possible to our customers.