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› Henkion Multifunction RJ45 Network Cable Tester LT-600M User Manual

## Henkion LT-600M

# Henkion Multifunction RJ45 Network Cable Tester LT-600M User Manual

Model: LT-600M

## 1. INTRODUCTION

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The Henkion LT-600M is a multifunction network cable tester designed for comprehensive network diagnostics. This device integrates various testing capabilities including UTP/STP cable continuity, RJ45 line fault detection, cable tracing, cable length measurement, RJ45 TDR cable testing, and a suite of network tools. Additionally, it features a digital multimeter, optical power meter (OPM), visual fault locator (VFL), PoE++ detection, PD power detection, port flashing, and NCV AC voltage detection.

This manual provides detailed instructions for the setup, operation, and maintenance of your LT-600M tester to ensure optimal performance and accurate results.

## 2. PRODUCT OVERVIEW AND COMPONENTS

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The LT-600M consists of a main emitter unit with a 4-inch IPS touch screen and a remote receiver unit. The package includes essential accessories for various testing scenarios.

### 2.1 Main Unit (Emitter) and Remote Unit

# LT-600M DETAILS



**Image:** Detailed view of the Henkion LT-600M main unit (emitter) and remote unit, highlighting key ports and indicators. The main unit features a touch screen interface, Type-C charging port, Digital Multi-Meter ports, and an RJ45 Network Port. The remote unit includes an LED power indicator, UTP cable sequence indicator, sensitivity knob, and a Type-C charging port.

## 2.2 Packing List

# Rechargeable Cable Tester

4 inch IPS touch screen, 800\*480 resolution.

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)



## 4000mAh



## Packing List

- |                  |                             |                            |                         |                  |
|------------------|-----------------------------|----------------------------|-------------------------|------------------|
| 1 Manual x1      | 2 Type-C cable x1           | 3 RJ45 to BNC connector x1 | 4 Screwdriver x1        | 5 Lanyard x1     |
| 6 Tool Bag x1    | 7 Host x1                   | 8 Receiver x1              | 9 BNC alligator clip x1 | 10 RJ45 cable x1 |
| 11 RJ11 cable x1 | 12 Multimeter test cable x1 | 13 Packing box x1          |                         |                  |

**Image:** Contents of the Henkion LT-600M package, including the main unit, remote unit, cables, and accessories.

- 1 x Manual
- 1 x Type-C Cable
- 1 x RJ45 to BNC Connector
- 1 x Screwdriver
- 1 x Lanyard
- 1 x Tool Bag
- 1 x Host (Main Unit)
- 1 x Receiver (Remote Unit)
- 1 x BNC Alligator Clip
- 1 x RJ45 Cable
- 1 x RJ11 Cable
- 1 x Multimeter Test Cable
- 1 x Packing Box

## 3. SETUP

### 3.1 Initial Battery Connection

Before first use, ensure the internal battery in the main unit is connected. Open the battery panel on the back of the device and plug in the battery connector. The device is powered by a rechargeable 3.7V 4000mAh lithium-ion battery.

### 3.2 Charging the Device

# Rechargeable Cable Tester

4 inch IPS touch screen, 800\*480 resolution.

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)



**4000mAh**



## Packing List

1 Manual x1	2 Type-C cable x1	3 RJ45 to BNC connector x1	4 Screwdriver x1	5 Lanyard x1
6 Tool Bag x1	7 Host x1	8 Receiver x1	9 BNC alligator clip x1	10 RJ45 cable x1
11 RJ11 cable x1	12 Multimeter test cable x1	13 Packing box x1		

**Image:** The main unit and remote unit being charged via USB-C cables.

Both the main emitter unit and the remote receiver unit are equipped with rechargeable batteries. Use the provided Type-C cable to charge both units. Connect the Type-C cable to the charging port on each device and to a suitable USB power adapter (not included). The main unit has a 4000mAh battery, providing approximately 6 hours of working time, while the receiver has a 2000mAh battery, offering about 12 hours of working time.

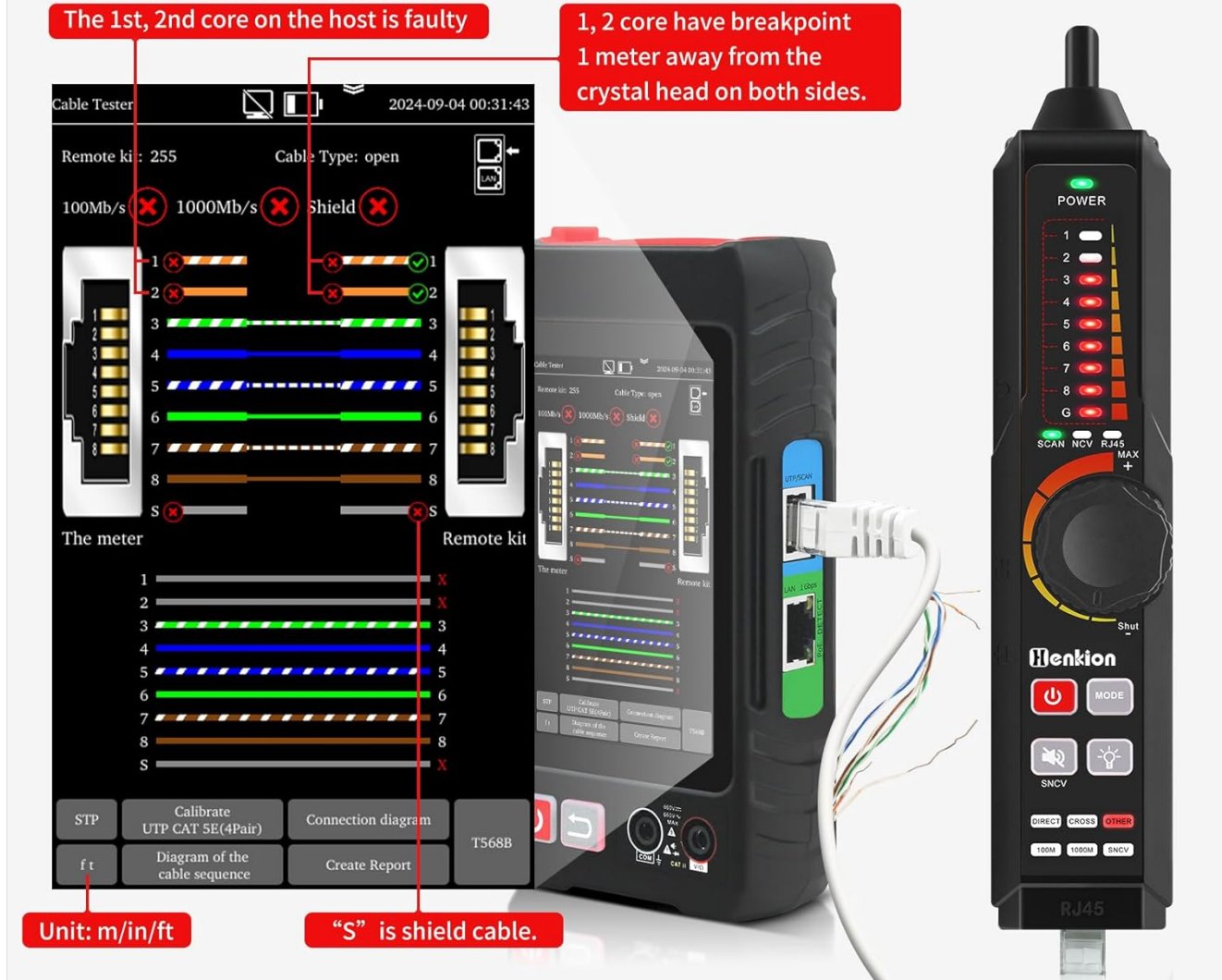
## 4. OPERATING INSTRUCTIONS

The LT-600M offers a variety of functions accessible via its touch screen interface. Select the desired function from the main menu to begin testing.

## 4.1 UTP Cable Test

# 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.



**Image:** The UTP Cable Test screen on the main unit showing wire sequence and fault detection, alongside the remote unit's LED indicators.

This function tests the continuity of UTP/STP/RJ45/RJ11 cables. It identifies the sequence, type, and remote kit connection. It can quickly detect near-end, mid-end, and far-end fault points in RJ45 cable connectors. The screen displays the connection sequence, speed (1000/100M), and cable number. The remote unit's indicators assist in identification.

## 4.2 Cable Tracer

# Cable Tracer

Cable tracer can quickly search BNC cable, network cable and telephone cable from the mess cables. Digital signal (decisively rejects noise and false signals).



Reject noise



PoE switch



60V withstand voltage and anti-burn interface



PD powered detection



Shield cable



Shielding layer detection



line pair	Status	length (m)	Attenuation (dB/100m)
1	open	15.2	-7.0
2	open	15.2	-8.1
3	open	15.2	-8.1
4	open	15.2	-8.1
5	open	15.2	-8.1
6	open	15.2	-8.1
7	short	15.2	-9.2
8	short	15.2	-9.2



Line pair	Length	Status
1	2.6Meter	open
2	2.6Meter	open
3	2.6Meter	open
4	0.0Meter	short
5	0.0Meter	short
6	2.6Meter	open
7	2.6Meter	open
8	2.6Meter	open



## RJ45 TDR Test

Test cable pair status, length, attenuation, reflectivity, impedance, skew etc. measurement range 180m (590ft)

## Cable Length

Measures opens of network cables, the maximum measurement length up to 3000 meters. Accuracy: Cable length x 3% ±1m

**Image:** The cable tracer function in use, showing the remote unit detecting a cable among a bundle, with on-screen display of results.

The digital signal Ethernet cable tracer allows you to quickly locate a target cable (BNC, network, telephone, or other metal cables) from a bundle. It effectively rejects noise and false signals, ensuring accurate cable identification. The RJ45 tracer and UTP functions share the same interface for streamlined operation.

### 4.3 RJ45 TDR Cable Test & Length Measurement

# Cable Tracer

Cable tracer can quickly search BNC cable, network cable and telephone cable from the mess cables. Digital signal (decisively rejects noise and false signals).



Reject noise



PoE switch



60V withstand voltage and anti-burn interface



PD powered detection



Shield cable



Shielding layer detection



RJ45 TDR test 2024-09-04 00:39:19

Unit: Meter T568B

line pair	Status	length (m)	Attenuation (dB/100m)
1	open	15.2	-7.0
2	open	15.2	-8.1
3	open	15.2	-8.1
4	open	15.2	-8.1
5	open	15.2	-8.1
7	short	15.2	-9.2
8	short	15.2	-9.2

Good quality cable Poor quality cable Wet cable

Start Advanced Test Create Report



## RJ45 TDR Test

Test cable pair status, length, attenuation, reflectivity, impedance, skew etc. measurement range 180m (590ft)

Cable Length 2024-09-04 00:34:28

1	2.6Meter/open
2	2.6Meter/open
3	2.6Meter/open
4	0.0Meter/short
5	0.0Meter/short
6	2.6Meter/open
7	2.6Meter/open
8	2.6Meter/open

Cable name: UTP CAT 5E (4Pair)

Wave speed: 496 Unit: Meter

T568B Calibrate Create Report

Length test Repeat test



## Cable Length

Measures opens of network cables, the maximum measurement length up to 3000 meters. Accuracy: Cable length x 3% ±1m

**Image:** Screenshots of the RJ45 TDR Test and Cable Length measurement interfaces on the LT-600M.

This function tests cable pair status, length, attenuation, reflectivity, impedance, skew, and other parameters. It can measure opens in network cables up to 3000 meters with an accuracy of ±3%. Test reports can be generated.

### 4.4 VFL Optical Power Meter (OPM)

# VFL Optical Power Meter

OPM is used for signal power test and insertion loss test of various equipment and photoelectric components.

VFL to detect fiber optic line breaks, cracks, bends, and other faults.



**Image:** Close-up view of the VFL (Visual Fault Locator) and OPM (Optical Power Meter) ports on the top of the main unit, with fiber optic cables connected.

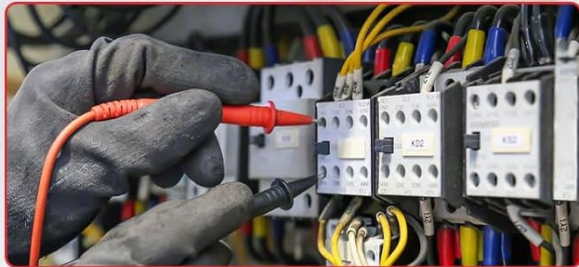
The OPM is used for signal power testing and insertion loss testing of various equipment and photoelectric components.

The VFL (Visual Fault Locator) helps to easily and accurately determine the position of optical fiber fault points, such as breaks, cracks, or bends.

## 4.5 Digital Multi-Meter (DMM)

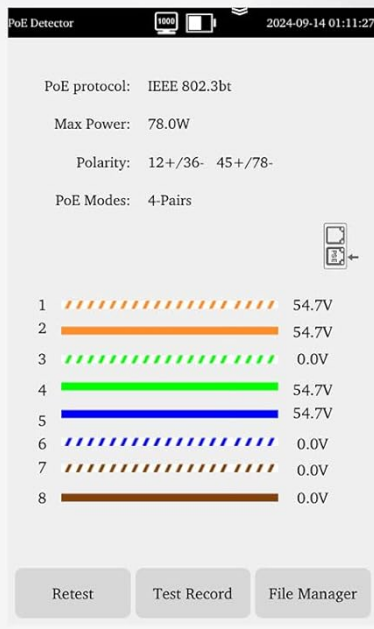
# Digital Multi-Meters

DC voltage measurement(V), AC voltage measurement(V), DC current measurement(A), AC current measurement(A), the tester's multimeter can also measurement resistance, diode, capacitance measurement and continuity testing. Automatically adjust 0.



## PoE Detect

Supports IEEE802.3BT/AT/AF and non-standard protocol detection. Displays power supply voltage, power supply pins, and pin polarity.



IEEE 802.3bt/af/at



**Image:** The LT-600M displaying a voltage measurement on its screen, with multimeter probes connected to an electrical panel. The built-in intelligent digital multimeter provides auto-ranging voltage (DC/AC), resistance, and continuity measurements with isolation protection. It also supports diode and capacitance measurements. The device automatically adjusts to zero.

### 4.6 PoE Detect

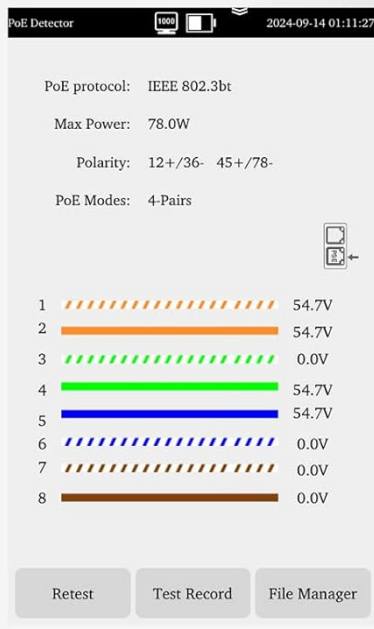
# Digital Multi-Meters

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## PoE Detect

Supports IEEE802.3BT/AT/AF and non-standard protocol detection. Displays power supply voltage, power supply pins, and pin polarity.



IEEE 802.3bt/af/at



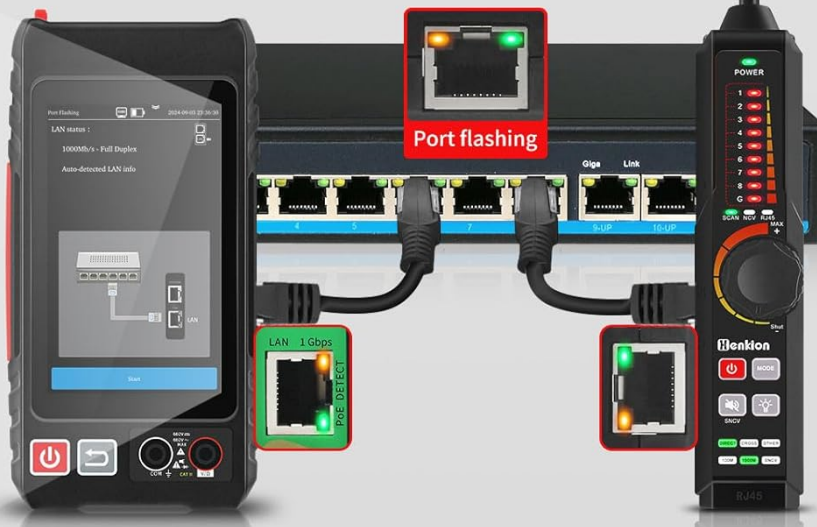
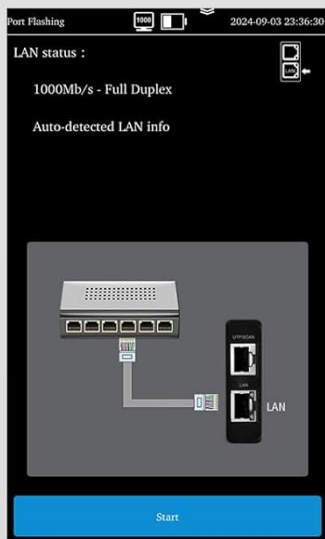
**Image:** The LT-600M screen showing PoE detection results, including protocol, voltage, and power supply pins, connected to a PoE switch.

The RJ45 PoE Tester supports IEEE802.3BT/AT/AF and non-standard protocol detection. It displays the power supply voltage, power supply pins, and pin polarity. It can detect whether the power output of a PoE switch is normal and identify the pins used for power supply.

### 4.7 Port Flashing

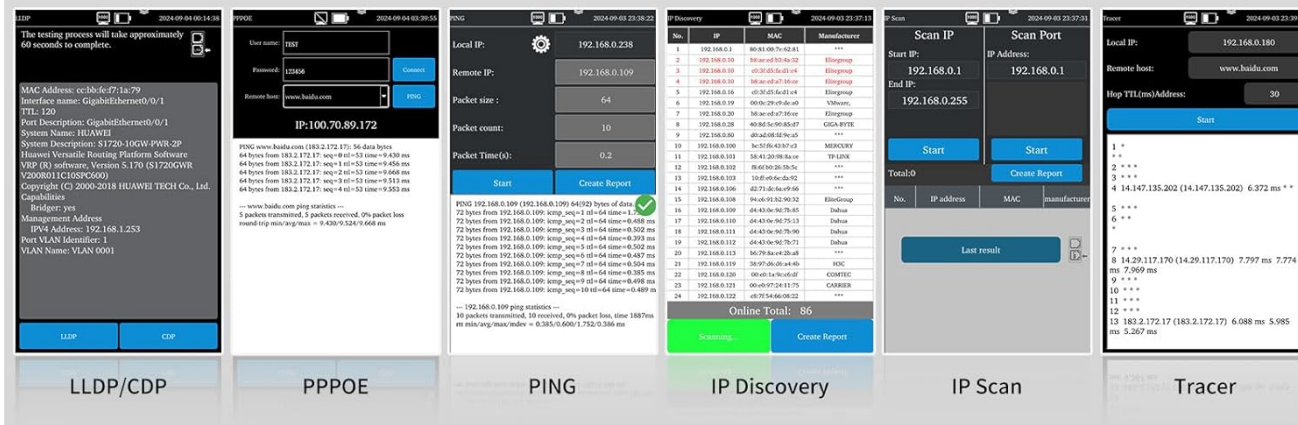
# Port Flashing

Quickly find the port of the Ethernet switch and other devices connected to the device.



# Network Tools

Network Tools: IP discovery, IP address scan, PING test, LLDP/CDP detection, PPPOE dial-up, FTP server.

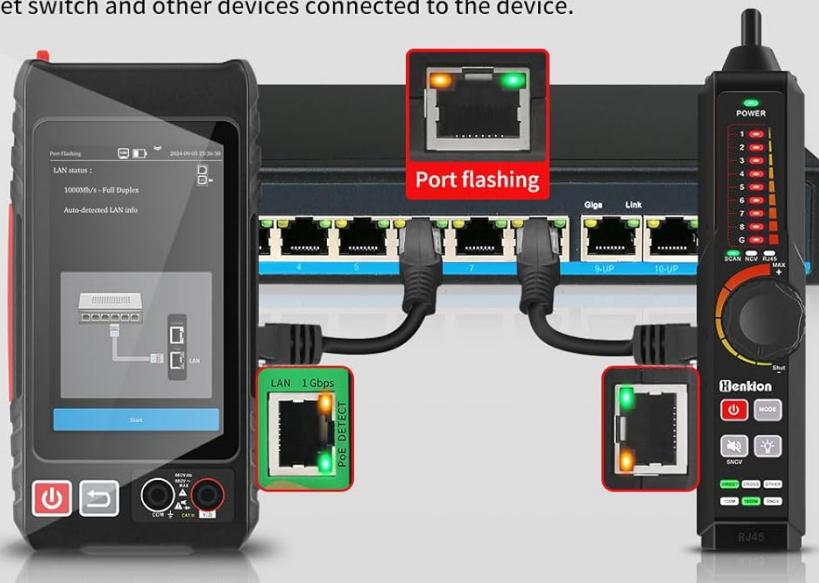


**Image:** The LT-600M displaying network port status and initiating port flashing on a connected Ethernet switch. This function allows you to quickly find the port of an Ethernet switch or other connected devices by making the port's LED flash.

## 4.8 Network Tools

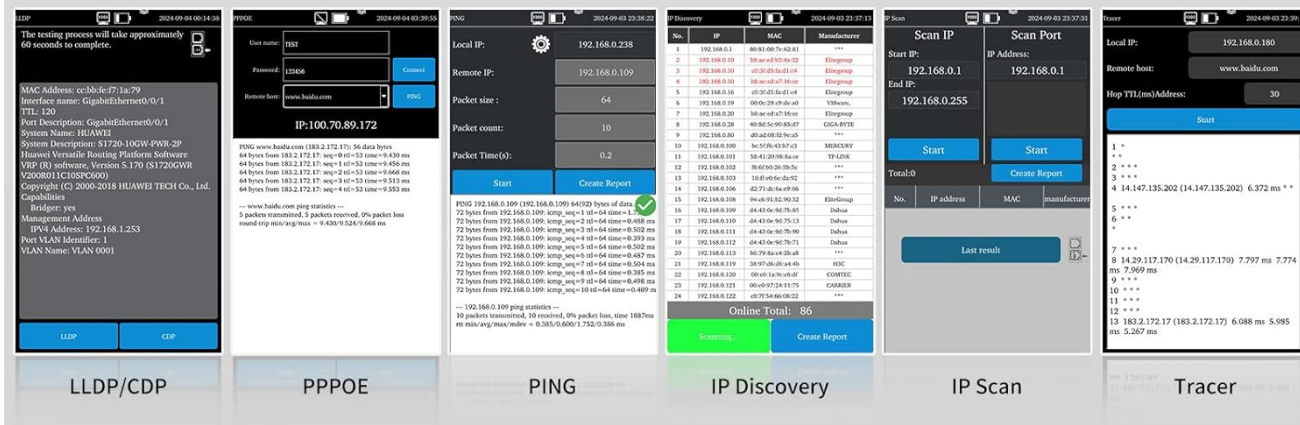
# Port Flashing

Quickly find the port of the Ethernet switch and other devices connected to the device.



# Network Tools

Network Tools: IP discovery, IP address scan, PING test, LLDP/CDP detection, PPPOE dial-up, FTP server.



**Image:** Screenshots of various network tools available on the LT-600M, including LLDP/CDP, PPPOE, PING, IP Discovery, IP Scan, and Tracer.

The LT-600M includes a suite of network tools for diagnostics and management:

- **IP Discovery:** Scans the network to find active IP addresses.
- **IP Address Scan:** Performs a detailed scan of IP addresses.
- **PING Test:** Checks network connectivity and latency to a specific IP address.
- **LLDP/CDP Detection:** Detects Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP) information from connected devices.
- **PPPOE Dial-up:** Supports PPPOE dial-up functionality.
- **FTP Function:** Enables users to copy test reports and data via network FTP.

## 4.9 NCV AC Voltage Detect

The inductive NCV (Non-Contact Voltage) scan function provides sound and light dual alarms, supporting the distinction between live and neutral wires without direct contact.

## 5. MAINTENANCE

## 5.1 Battery Care

To prolong battery life, ensure the device is charged regularly. Avoid fully discharging the battery frequently. Store the device in a cool, dry place when not in use for extended periods.

## 5.2 Cleaning

Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents. Keep the ports free of dust and debris.

# 6. TROUBLESHOOTING

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This section provides general troubleshooting tips. For specific issues not covered here, please refer to the support information.

- **Device not powering on:** Ensure the internal battery is connected and fully charged. Connect the device to a power source using the Type-C cable.
- **Inaccurate test results:** Verify that cables are properly connected to the correct ports. Ensure the remote unit is functioning and paired correctly for cable tests. Check for any physical damage to cables or connectors.
- **Touch screen unresponsive:** Try restarting the device. If the issue persists, ensure the screen is clean and free from moisture.

# 7. SPECIFICATIONS

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Feature	Specification
Model Number	LT-600M
Applicable Cable Types	UTP/STP/RJ45/RJ11
Display	4-inch IPS Touch Screen, 800*480 resolution
Emitter Dimensions	150 x 86 x 40 mm (5.91 x 3.39 x 1.57 inch)
Emitter Net Weight	0.3 kg (0.66 lbs)
Receiver Dimensions	210 x 40 x 25 mm (8.26 x 1.57 x 0.98 inch)
Receiver Net Weight	0.13 kg (0.3 lbs)
Emitter Battery	3.7V 4000mAh Lithium-ion (approx. 6 hours working time)
Receiver Battery	3.7V 2000mAh Lithium-ion (approx. 12 hours working time)
Optical Power Meter Wavelengths	850/1300/1310/1490/1550/1625nm
Optical Power Meter Range	-70 ~ +10 dBm
VFL Type	Class 2; Power <1mW, Wavelength: 650nm
RJ45 TDR Cable Test Length	Up to 3000 meters
Cable Length Measurement Accuracy	±3%
PoE Support	IEEE802.3BT/AT/AF and non-standard protocols
Network Port	Built-in 1000M network port
Country of Origin	China

## 8. WARRANTY AND SUPPORT

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Henkion is committed to providing quality products and customer satisfaction. While specific warranty details are not provided in this manual, we strive to offer the best possible service. For any technical assistance, troubleshooting, or inquiries regarding your Henkion LT-600M, please contact your retailer or refer to the official Henkion support channels.