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› TOOLTOP ET636 Handheld Network Cable Tester 3.2-Inch Color Screen NCV 60000 Count Multimeter Optical Power Meter Fault Locator User Manual

TOOLTOP TT-ET636

TOOLTOP ET636 Handheld Network Cable Tester User Manual



The ET636 is a versatile handheld device combining a network cable tester, optical power meter, and visual fault locator.

1. INTRODUCTION

The TOOLTOP ET636 is a professional, multi-functional handheld instrument designed for network and optical fiber testing. It integrates a network cable tester, optical power meter, and visual fault locator, making it an essential tool for network engineers, technicians, and DIY enthusiasts. Its 3.2-inch color screen provides clear readings and intuitive operation.

Key Features:

- Multifunction Network Cable Tester + Optical Power Meter + 10W Visual Fault Locator.
- Ethernet, telephone, and coaxial video cable length measurement, up to 600 meters.
- Open circuit, short circuit, crossover, and crystal head crimping test capabilities.
- Optical power meter design with a range of 6dBm to -70dBm, compatible with ST, SC, FC interfaces.
- Equipped with red laser emission function, allowing optical fiber transmission distance up to 10KM.
- Non-Contact Voltage (NCV) detection.
- Underground cable and pipe detection capabilities.

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before using the ET636. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Do not** attempt to measure voltages or currents exceeding the specified limits of the device.
- **Always** ensure the device is in good working condition before use. Do not use if damaged.
- **Exercise caution** when working with live electrical circuits. Always assume circuits are live until proven otherwise.
- **Do not** expose the device to extreme temperatures, humidity, or direct sunlight.
- **Use only** the accessories and cables provided or recommended by the manufacturer.
- **Keep out of reach** of children.
- **Laser Safety:** The visual fault locator emits a red laser. Avoid direct eye exposure to the laser beam. Do not look directly into the laser output port.

3. PRODUCT OVERVIEW AND COMPONENTS

The ET636 system consists of a transmitter unit and a receiver unit, along with various accessories to facilitate its functions.

Model: ET836

Cable Locator



Figure 3.1: ET836 Package Contents

Package Contents:

1. Transmitter Unit
2. Receiver Unit
3. Type-C Charging Cable
4. Grounding Pile
5. Test Leads (Red and Black)
6. Alligator Clip Cable
7. User Manual (this document)
8. Tool Kit/Carrying Case

4. SETUP

Before first use, ensure both the transmitter and receiver units are fully charged using the provided Type-C charging cable. Connect the cable to the charging port on each unit and a standard USB power adapter (not included).

Initial Power-On:

- Press and hold the power button on both the transmitter and receiver units until the screen illuminates.
- The device will perform a brief self-test and display the main interface.

5. OPERATING INSTRUCTIONS

The ET636 offers various modes for different testing scenarios. Navigate through modes using the designated buttons on the device.

5.1. Cable Tracing and Location

This function is used to locate and trace network, telephone, and coaxial cables, including those buried underground or within walls.

1. Connect the cable to be traced to the appropriate port on the **transmitter unit**.
2. For underground or in-wall tracing, connect the red alligator clip to the cable and the black alligator clip to the grounding pile, then insert the grounding pile into the earth.
3. Turn on the **receiver unit** and select the appropriate tracing mode (e.g., AUTO, MANUAL, NCV).
4. Move the receiver unit along the suspected path of the cable. The signal strength indicator on the receiver's screen will increase as you get closer to the cable.



Figure 5.1: Checking Underground Cables

The ET636 can detect faults such as open circuits and short circuits in circuits buried in walls and underground. For optimal detection, use the red clip to clamp the cable and ground the black clip. Detection depth can reach up to 1.5 meters.

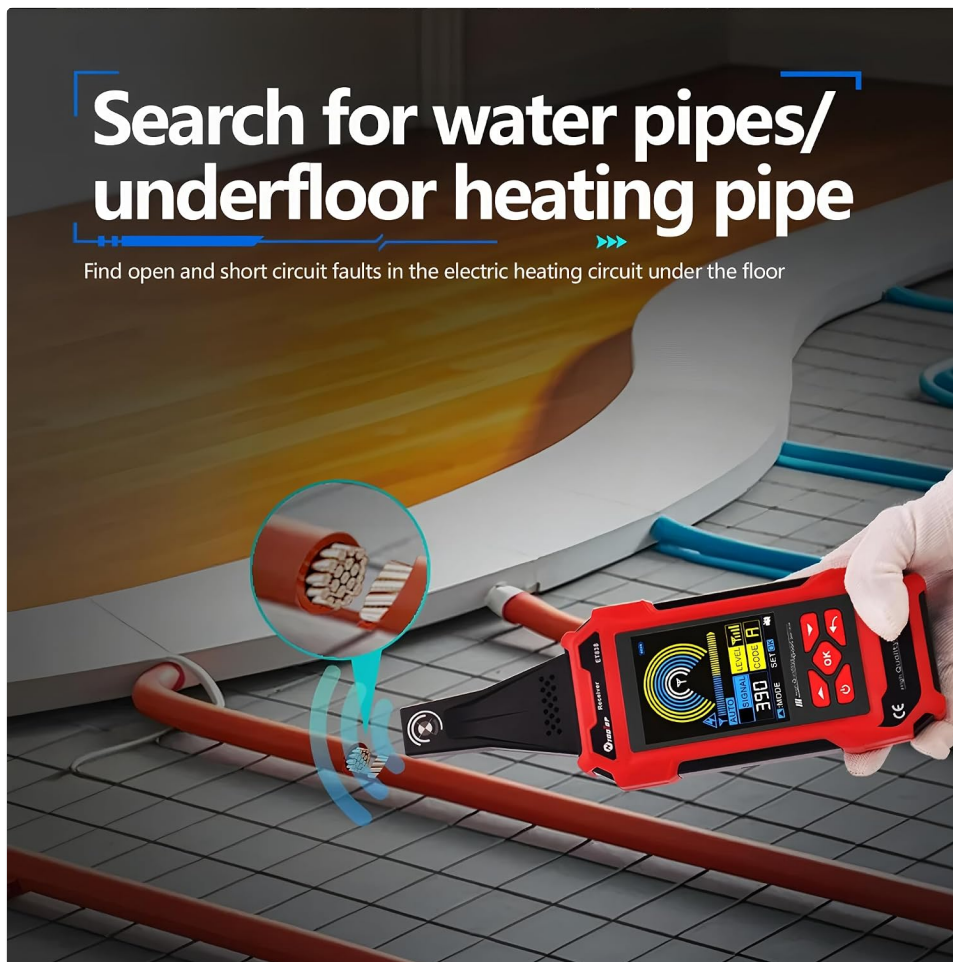


Figure 5.2: Searching for Water Pipes/Underfloor Heating Pipes

The device can also find open and short circuit faults in electric heating circuits under the floor, or locate water pipes.

5.2. Operating Modes (AUTO, MANUAL, NCV)

The ET636 receiver unit features three modes for adjusting sensitivity and detection:

- **AUTO Mode:** Automatically adjusts sensitivity for general tracing.
- **MANUAL Mode:** Allows the user to manually adjust sensitivity for precise tracing in complex environments.
- **NCV Mode:** Non-Contact Voltage detection, used to detect the presence of AC voltage without direct contact.



Figure 5.3: Three Operating Modes

5.3. Network Cable Testing

To test network cables for continuity, open circuits, short circuits, and crossover faults:

1. Connect one end of the network cable to the RJ45 port on the **transmitter unit**.
2. Connect the other end of the network cable to the RJ45 port on the **receiver unit**.
3. Select the network cable test function on the transmitter. The screen will display the wiring status (e.g., open, short, crossover) and cable length.

5.4. Optical Power Meter (OPM)

The OPM function measures the power of optical signals in fiber optic cables.

1. Ensure the optical fiber connector is clean.
2. Connect the fiber optic cable to the OPM port on the **transmitter unit**. The ET636 is compatible with ST, SC, and FC interfaces.
3. Select the OPM function. The screen will display the measured optical power in dBm.

5.5. Visual Fault Locator (VFL)

The VFL function uses a red laser to visually locate breaks, bends, or poor connections in fiber optic cables.

1. Connect the fiber optic cable to the VFL port on the **transmitter unit**.
2. Activate the VFL function. A bright red light will be emitted into the fiber.
3. Observe the fiber along its path. Any breaks or significant losses will be visible as a leakage of red light. The laser can trace up to 10KM.

6. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your ET636.

Cleaning:

- Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Keep the optical ports clean and free of dust. Use specialized fiber optic cleaning tools if necessary.

Storage:

- Store the device in its carrying case when not in use to protect it from dust and physical damage.
- Store in a cool, dry place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues with your ET636, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	Low battery or no charge.	Charge the device fully using the Type-C cable.
Inaccurate cable length measurement.	Incorrect cable type selected or cable damage.	Ensure the correct cable type is selected. Inspect the cable for physical damage.
No signal during cable tracing.	Transmitter not connected or powered on; receiver too far; incorrect mode.	Verify transmitter connection and power. Ensure receiver is within range. Switch to AUTO or MANUAL mode and adjust sensitivity.
VFL laser not visible.	Fiber optic cable broken or dirty; VFL function not activated.	Clean fiber connectors. Ensure VFL function is active. Check for severe bends or breaks in the fiber.

If the problem persists after attempting these solutions, please contact customer support.

8. SPECIFICATIONS

Specification	Value
Model Number	TT-ET636
Brand	TOOLTOP
Color	Multicolored
Item Weight	1 Kilograms
Package Dimensions	7.87 x 5.91 x 3.94 inches
Cable Length Measurement	Up to 600 meters

Specification	Value
Optical Power Meter Range	6dBm to -70dBm
VFL Output Power	10mW
VFL Distance	Up to 10KM
Screen Size	3.2-Inch Color Screen
Count (Multimeter)	60000 Count
Safety Standards	CE, RoHS

9. WARRANTY AND SUPPORT

The TOOLTOP ET636 comes with a manufacturer's warranty. Please refer to your purchase documentation for specific warranty terms and duration. Typically, spare part availability is guaranteed for 1 year from the date of purchase.

Customer Support:

For technical support, troubleshooting assistance, or warranty claims, please contact TOOLTOP customer service through the retailer where you purchased the product or visit the official TOOLTOP website for contact information. Please have your product model number (TT-ET636) and purchase date ready when contacting support.

