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ETURBEV ET628

TOOLTOP ET628 3-in-1 Network Scanner, Visual Fault Locator, and Multimeter User Manual

Model: ET628

Introduction

The TOOLTOP ET628 is a versatile 3-in-1 device designed for comprehensive network and electrical testing. It integrates the functionalities of a network scanner, a visual fault locator (VFL), and a digital multimeter. This manual provides detailed instructions for the setup, operation, and maintenance of your ET628 device, ensuring optimal performance and longevity.
Key capabilities include cable length measurement up to 600m, cable mapping for various network and telephone lines, precise cable tracing, visual fault location for fiber optics, and a full range of multimeter functions including DC/AC current and voltage, resistance, continuity, diode, temperature, and NVC testing. It also features a dedicated PoE test function.

Package Contents

Upon opening the package, please verify that all the following items are present and in good condition:

- 1 x Transmitter (Main Unit)
- 1 x Receiver (Wire Tracker)
- 1 x User Manual
- 1 x RJ45 Cable
- 1 x Carrying Bag
- 1 x Test Leads
- 1 x K-type Temperature Probe
- 7 x Remote ID Units



Image: The TOOLTOP ET628 main unit and receiver, along with the included accessories such as the RJ45 cable, test leads, temperature probe, and remote ID units, all neatly arranged.

Device Overview



Image: The TOOLTOP ET628 main unit (left) with its LCD display and control buttons, alongside the red wire tracker receiver (right) with its rotary dial and indicator lights.

The ET628 consists of two main parts: the Transmitter (main unit) and the Receiver (wire tracker). The Transmitter features an LCD screen for displaying measurement results and various buttons for mode selection and operation. The Receiver is used for tracing cables and identifying signals.


Networks scanner
NCV
AUTO
PoE
ID
TEST DC AC CAL
Length DigiSCAN Continuity
MODE
DMM
LENGTH
TEST
SCAN
POE
TOOLOP ET628
CABLE VERIFIER
DIGITAL MULTIMETER
10A MAX
ISOLATED
FUSED
COM
VΩ
TEST / SCAN
PoE Voltage
ON
OFF
MODE
Mode Indicator
Blue: Digital
Red: Analog
TOOLOP WIRE TRACKER RECEIVER
RJ45

Image: A side view of the ET628 main unit and receiver, highlighting the various ports for RJ45, test leads, and the visual fault locator output.

Familiarize yourself with the ports and buttons on both units before operation. The main unit includes ports for RJ45, test leads (COM, VΩ, 10A MAX), and a dedicated port for the visual fault locator. The receiver has an RJ45 port and a mode switch.

Setup and Basic Operation

Powering On/Off

- To power on the Transmitter, press and hold the **Power** button.
- To power off, press and hold the **Power** button again until the display turns off.
- The Receiver typically has a rotary switch for On/Off and mode selection.

Battery Charging

The ET628 features a built-in rechargeable lithium battery. Connect the device to a standard USB power adapter using the provided charging cable. The battery indicator on the LCD will show charging status.

Operating Modes and Functions

1. Cable Length Measurement

This function measures the length of various metal cables, including network cables, telephone lines, and coaxial video cables, up to 600 meters (1968 feet). It also assesses the condition of the cable.

- Connect one end of the cable to the appropriate port on the Transmitter.
- Press the **LENGTH** button to initiate the measurement.
- The LCD will display the cable length and any detected faults.

2. Cable Mapping (Wiremap Test)

Used to test the connection characteristics of network cables (RJ45), telephone lines, and other multi-core metal lines. It identifies open circuits, short circuits, cross-overs, and incorrect wire sequences.

- Connect one end of the network cable to the RJ45 port on the Transmitter.
- Connect the other end of the cable to one of the 7 remote ID units.
- Press the **TEST** button (or navigate to the Cable Mapping mode).
- The display will show the wiremap results, indicating pin-to-pin connections and any faults.



Image: A close-up view of the ET628's LCD screen, displaying the results of a cable mapping test, showing the status of individual wire pairs and any detected errors.

3. Cable Tracing (SCAN Function)

This function helps identify a specific target cable from a bundle of cables. The ET628 uses advanced digital technology for noise-free tracing.

- Connect the cable to be traced to the Transmitter.
- Select the **SCAN** mode on the Transmitter.
- Use the Receiver to scan along the cables. The Receiver will emit an audible tone and/or visual indication when it

detects the signal from the target cable.

- Adjust sensitivity and sound level on the Receiver as needed.

4. Visual Fault Locator (VFL)

The VFL function uses a visible red laser to quickly locate problem areas in fiber optic cables, such as bends, breaks, or bad connectors. The laser light leaks out from damaged sections, making them visible.

- Connect the fiber optic cable to the VFL port on the Transmitter.
- Activate the VFL function.
- Observe the fiber cable for any red light leakage, indicating a fault.

5. Multimeter Functions (DMM)

The ET628 integrates a full-featured digital multimeter for various electrical measurements.

- Connect the test leads to the **COM** and **VΩ** (or **10A MAX** for current) ports on the Transmitter.
- Press the **DMM** button to cycle through multimeter modes:
  - **DC/AC Voltage:** Measure direct or alternating current voltage.
  - **DC/AC Current:** Measure direct or alternating current.
  - **Resistance:** Measure electrical resistance.
  - **Continuity:** Test for electrical continuity (audible beep for low resistance).
  - **Diode Test:** Test diode functionality.
  - **Temperature:** Use the K-type temperature probe to measure temperature.
  - **NVC Test:** Non-Contact Voltage test (available on ET624 and ET628 models).
- Follow standard multimeter safety procedures for each measurement.

6. PoE Test

This function allows testing of Power over Ethernet (PoE) switches. It identifies the power network cable sequence number, positive and negative poles, and voltage value.

- Connect the network cable from the PoE switch to the RJ45 port on the Transmitter.
- Select the **POE** test mode.
- The display will show the PoE information, including voltage and pin configuration.

Maintenance and Care

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the ET628 in a cool, dry place, away from direct sunlight and extreme temperatures. Use the provided carrying bag for protection.
- **Battery:** For long-term storage, ensure the battery is partially charged (around 50%) to preserve its lifespan. Recharge periodically if not used for extended periods.
- **Calibration:** The cable length measurement function allows for easy calibration to maintain accuracy. Refer to the on-screen prompts for calibration procedures.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Device does not power on.	Low battery or no charge.	Charge the device using the provided USB cable and adapter.
Inaccurate cable length measurement.	Cable type not properly calibrated or environmental interference.	Perform a calibration for the specific cable type. Ensure connections are secure.
Cable mapping shows errors (open, short, cross).	Faulty cable, incorrect crimping, or damaged connector.	Inspect the cable and connectors. Replace or re-terminate the cable if necessary.
Cannot trace cable effectively.	Low signal, high interference, or incorrect mode.	Ensure the Transmitter is in SCAN mode. Adjust Receiver sensitivity and volume. Minimize external interference.
Multimeter readings are unstable or incorrect.	Poor test lead connection, incorrect range selection, or damaged leads.	Ensure test leads are securely connected. Select the appropriate measurement range. Replace damaged test leads.

Specifications

- **Model:** ET628
- **Cable Length Measurement Range:** Up to 600m (1968ft)
- **Visual Fault Locator (VFL) Output:** 10mW (for 10KM range)
- **Multimeter Functions:** DC/AC Voltage, DC/AC Current, Resistance, Continuity, Diode, Temperature, NVC
- **PoE Test:** Voltage, Polarity, PSE Type
- **Power Source:** Built-in Rechargeable Lithium Battery
- **Dimensions (Package):** 1.18 x 0.79 x 0.39 inches
- **Item Weight:** 1.76 ounces (50 Grams)
- **Manufacturer:** ETURBEV
- **Country of Origin:** China



Image: An overview highlighting key specifications of the ET628, including its 600m length test capability, multimeter functions, and 10KM/10mW Visual Fault Locator.

Warranty and Support

For warranty information and technical support, please refer to the official ETURBEV website or contact your point of purchase. Keep your purchase receipt as proof of purchase for warranty claims.
For further assistance or inquiries, please contact ETURBEV customer service.

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