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ETURBEV ET628

User Manual for TOOLTOP ET628 Network Scanner

Model: ET628

Introduction

The TOOLTOP ET628 is a versatile 3-in-1 network scanner, visual fault locator, and multimeter designed for comprehensive cable testing and network diagnostics. This device combines multiple functionalities including cable length measurement, cable mapping, cable tracing, visual fault location, and standard multimeter functions, making it an essential tool for network technicians and electricians. This manual provides detailed instructions for the safe and effective operation of your ET628 device.

Safety Information

Please read all safety warnings and instructions carefully before using this product to prevent injury or damage to the device. Keep this manual for future reference.

- Do not attempt to repair or modify the device. Refer all servicing to qualified personnel.
- Use the device only for its intended purpose as described in this manual.
- Ensure proper ventilation when operating the device.
- Avoid exposing the device to extreme temperatures, humidity, or direct sunlight.
- When using the Visual Fault Locator (VFL) function, avoid direct eye exposure to the laser light. The laser is a Class II laser product.
- Always disconnect power from circuits before performing any tests, especially when using multimeter functions on live circuits.
- Use only the specified accessories and cables provided with the device.

Package Contents

Verify that all items listed below are included in your package:

- 1 x ET628 Transmitter Unit
- 1 x ET628 Receiver Unit (Wire Tracker)
- 1 x RJ45 Cable
- 1 x Carrying Bag
- 1 x Test Leads
- 1 x K-type Temperature Probe
- 7 x Remote ID Units

- 1 x User Manual



Image: The ET628 package contents, including the main transmitter and receiver units, various cables, test leads, remote IDs, and the carrying bag.

Product Overview

The ET628 system consists of two main components: the Transmitter (Network Scanner) and the Receiver (Wire Tracker). Familiarize yourself with the controls and ports on each unit.



Image: The main ET628 transmitter unit (left) with its display and buttons, and the receiver unit (right) with its LED indicators and probe tip.

Transmitter Unit (Network Scanner)

- **LCD Display:** Shows test results, measurements, and settings.
- **Function Buttons:** MODE, LENGTH, TEST, SCAN, POE, DMM for selecting various test modes.
- **RJ45 Port:** For connecting network cables.
- **VFL Port:** For connecting fiber optic cables for visual fault location.
- **Multimeter Ports (COM, VΩ, 10A MAX):** For connecting test leads for multimeter functions.
- **USB Port:** For charging the internal battery.

Receiver Unit (Wire Tracker)

- **Probe Tip:** Used to detect signals from the transmitter.
- **LED Indicators:** Show signal strength and status.
- **Mode Switch:** Selects between Digital and Analog tracing modes.
- **Sensitivity Dial:** Adjusts the sensitivity of the receiver.
- **RJ45 Port:** For connecting network cables during tracing.

Setup

Charging the Device

The ET628 features a built-in rechargeable lithium battery. Before first use, fully charge both the transmitter and receiver units using the provided USB cable and a compatible USB power adapter (not included).

- Connect the USB cable to the USB port on the transmitter unit.
- Connect the other end of the USB cable to a USB power source.
- The charging indicator on the display will show charging status.

Powering On/Off

- To power on the Transmitter: Press and hold the **Power** button.
- To power off the Transmitter: Press and hold the **Power** button again.
- To power on the Receiver: Rotate the **Mode** dial to either "Digital" or "Analog".
- To power off the Receiver: Rotate the **Mode** dial to "OFF".

Operating Instructions

1. Cable Length Measurement

This function measures the length of network cables, telephone lines, coaxial video cables, and other metal cables up to 600 meters (1968 feet).

1. Ensure the cable to be measured is disconnected from all active network devices.
2. Connect one end of the cable to the RJ45 port on the Transmitter unit.
3. If using a remote ID, connect the other end of the cable to one of the remote ID units. For direct measurement without a remote ID, leave the other end open.
4. Press the **LENGTH** button on the Transmitter.
5. The display will show the measured cable length.



Image: Close-up of the ET628 transmitter's LCD display, showing various indicators including length measurement results.

2. Cable Mapping (Wiremap Test)

This function tests the connection characteristics of network cables, telephone lines, and other multi-core metal lines, detecting open circuits, short circuits, crossovers, and incorrect wire sequences.

1. Connect one end of the network cable to the RJ45 port on the Transmitter.
2. Connect the other end of the network cable to one of the remote ID units (e.g., ID1-ID7).
3. Press the **TEST** button on the Transmitter.
4. The display will show the wiremap results, indicating any faults (e.g., open, short, cross, split).

3. Cable Tracing (SCAN Function)

Use this function to identify a target cable from a bundle of cables. The ET628 offers both digital and analog tracing modes for precise, noise-free tracing.

1. Connect the cable to be traced to the RJ45 port on the Transmitter.
2. Press the **SCAN** button on the Transmitter.
3. Turn on the Receiver unit by rotating the mode dial to either "Digital" or "Analog" based on your environment. "Digital" mode offers better noise immunity.
4. Adjust the sensitivity dial on the Receiver as needed.
5. Move the probe tip of the Receiver along the cables. The Receiver will emit an audible tone and illuminate LEDs when it detects the signal from the target cable.


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

Image: The ET628 transmitter and receiver units, illustrating their use for cable tracing with RJ45 ports visible.

4. Visual Fault Locator (VFL)

The VFL function helps quickly locate problem areas in fiber optic cables, such as bends, breaks, and bad connectors, by emitting a visible red laser light.

1. Connect the fiber optic cable to the VFL port on the Transmitter.
2. Activate the VFL function (refer to the specific button or menu option on the device, typically integrated with the "MODE" button or a dedicated VFL button).
3. Observe the fiber cable. Red light leaking from the cable indicates a fault location.
4. ***Caution:*** *Avoid direct eye exposure to the laser light.*

5. Multimeter Functions (DMM)

The ET628 includes a digital multimeter for measuring DC/AC current and voltage, resistance, continuity, diode, and temperature.

1. Connect the red and black test leads to the appropriate multimeter ports on the Transmitter (e.g., COM, VΩ, 10A MAX).
2. Press the **DMM** button to enter multimeter mode.
3. Use the **MODE** button to cycle through different multimeter functions (Voltage, Current, Resistance, Continuity, Diode, Temperature).
4. Apply the test leads to the circuit or component you wish to measure.
5. Read the measurement on the LCD display.

6. PoE Test

This function tests Power over Ethernet (PoE) switches, identifying the power network cable sequence number, positive and negative poles, and voltage value.

1. Connect the network cable from the PoE switch to the RJ45 port on the Transmitter.
2. Press the **POE** button on the Transmitter.
3. The display will show the PoE information, including voltage and pin configuration.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. Use the provided carrying bag for protection.
- **Battery Care:** Recharge the battery regularly, even if the device is not in use, to maintain battery health. Avoid fully discharging the battery for extended periods.
- **Calibration:** The cable length measurement function may require occasional calibration for optimal accuracy. Refer to the device's on-screen prompts or advanced settings for calibration procedures.

Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low battery or power button not held long enough.	Charge the device. Press and hold the power button for a few seconds.
Inaccurate cable length measurement.	Cable not properly connected, or calibration needed.	Ensure secure connections. Perform cable calibration as per device instructions.

Problem	Possible Cause	Solution
No signal detected during cable tracing.	Receiver sensitivity too low, or incorrect mode selected.	Increase receiver sensitivity. Ensure receiver is in "Digital" or "Analog" mode. Verify transmitter is in SCAN mode.
VFL laser not visible.	Fiber cable is not connected, or VFL function not activated.	Ensure fiber cable is securely connected. Activate VFL mode on the transmitter.

Specifications

Feature	Detail
Model	ET628
Functions	Cable Length Measurement, Cable Mapping, Cable Tracing, Visual Fault Locator, Multimeter, PoE Test
Cable Length Measurement Range	Up to 600m (1968ft)
Visual Fault Locator Output	10KM/10mW
Power Source	Built-in Rechargeable Lithium Battery

Warranty and Support

For warranty information and technical support, please refer to the contact details provided by the manufacturer or your point of purchase. Keep your purchase receipt as proof of purchase for warranty claims.
Manufacturer: ETURBEV

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