EVERSECU CT-66

EVERSECU Network Cable Tester CT-66 User Manual

Model: CT-66

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of the EVERSECU Network Cable Tester CT-66. This device is designed for professionals and enthusiasts to accurately test and trace various types of cables, including RJ45 twisted pair, RJ11 telephone lines, BNC video cables, and other weak current metal cables. It features advanced digital signal processing for anti-interference, PoE power detection, and cable sequence testing.

2. SAFETY INFORMATION

- Always ensure the device is powered off before connecting or disconnecting cables, especially when dealing with live circuits.
- Do not expose the device to extreme temperatures, humidity, or direct sunlight.
- Avoid dropping or subjecting the device to strong impacts.
- Use only the specified battery type and ensure correct polarity during installation.
- The device supports 60V withstand voltage on RJ45 and 100V on BNC ports. Do not exceed these limits.
- Keep the device out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x EVERSECU Network Cable Tester Emitter
- 1x EVERSECU Network Cable Tester Receiver
- 1x RJ45 to Alligator Clip Cable

- 1x RJ11 to Alligator Clip Cable

- 1x BNC to BNC Cable

- 2x RJ45 Patch Cables (short)

- 1x Carrying Pouch

- User Manual (this document)

Figure 3.1: Overview of the EVERSECU Network Cable Tester CT-66 and its included accessories.

4. PRODUCT OVERVIEW

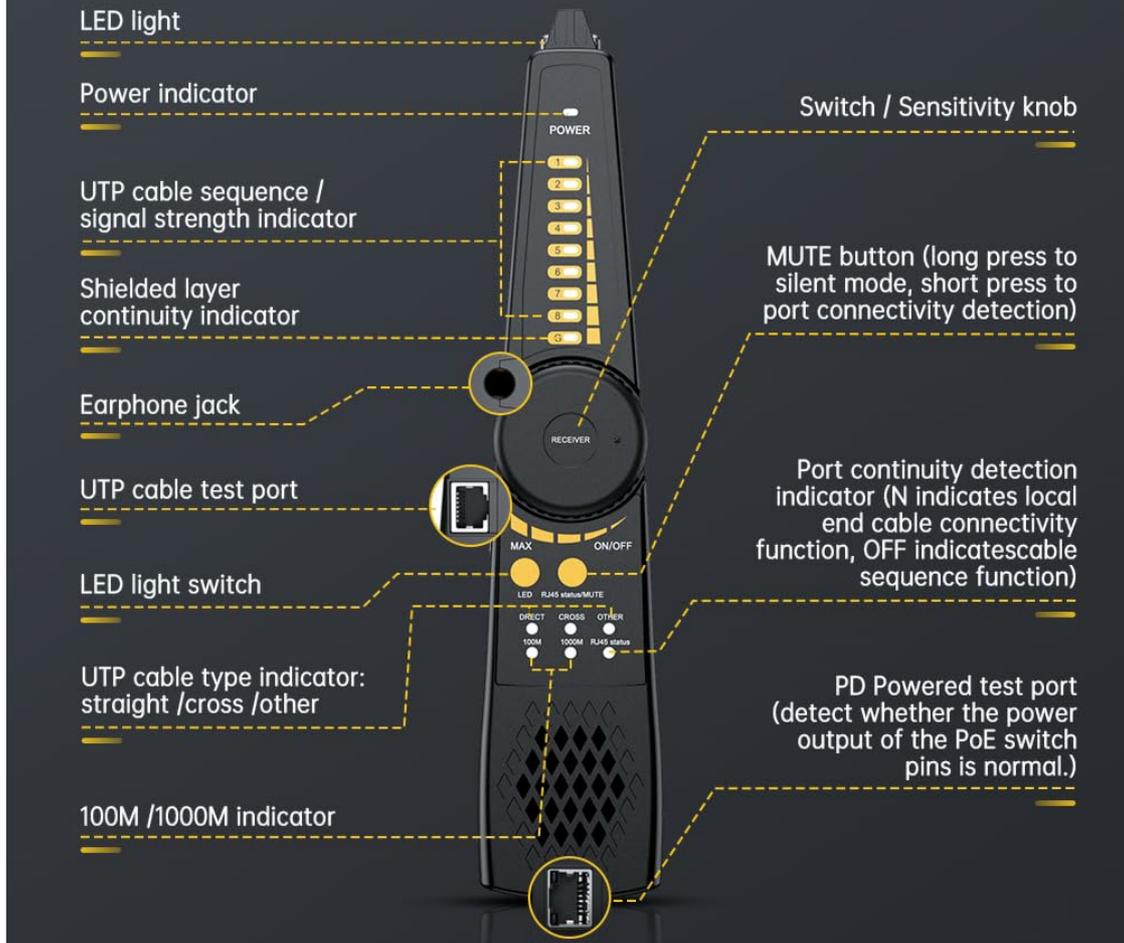## 4.1 Receiver Interfaces and Functions

Figure 4.1: Detailed view of the Receiver unit with labeled interfaces.

- **LED Light:** Illuminates dark work areas.

- **Power Indicator:** Shows device power status.

- **UTP Cable Sequence** / **Signal Strength Indicator (1-8, G):** Displays wire sequence and signal strength during tracing. 'G' indicates shield continuity.

- **Shielded Layer Continuity Indicator:** Confirms the integrity of the cable's shielding.

- **Earphone Jack:** For connecting headphones for clearer audio in noisy environments.

- **UTP Cable Test Port:** RJ45 port for connecting network cables for testing.

- **LED Light Switch:** Toggles the built-in LED light.

- **UTP Cable Type Indicator (DIRECT, CROSS, OTHER):** Shows the detected cable type (straight, crossover, or other).

- **100M** / **1000M Indicator:** Indicates the detected speed capability of the network cable.

- **Switch** / **Sensitivity Knob:** Adjusts the sensitivity of the receiver for wire tracing.

- **MUTE Button:** Long press to enter silent mode; short press for port connectivity detection.

- **Port Continuity Detection Indicator:** 'N' indicates local end, 'OFF' indicates remote end, 'ON' indicates cable sequence function.

- **PD Powered Test Port:** Detects the power output of a PoE switch.

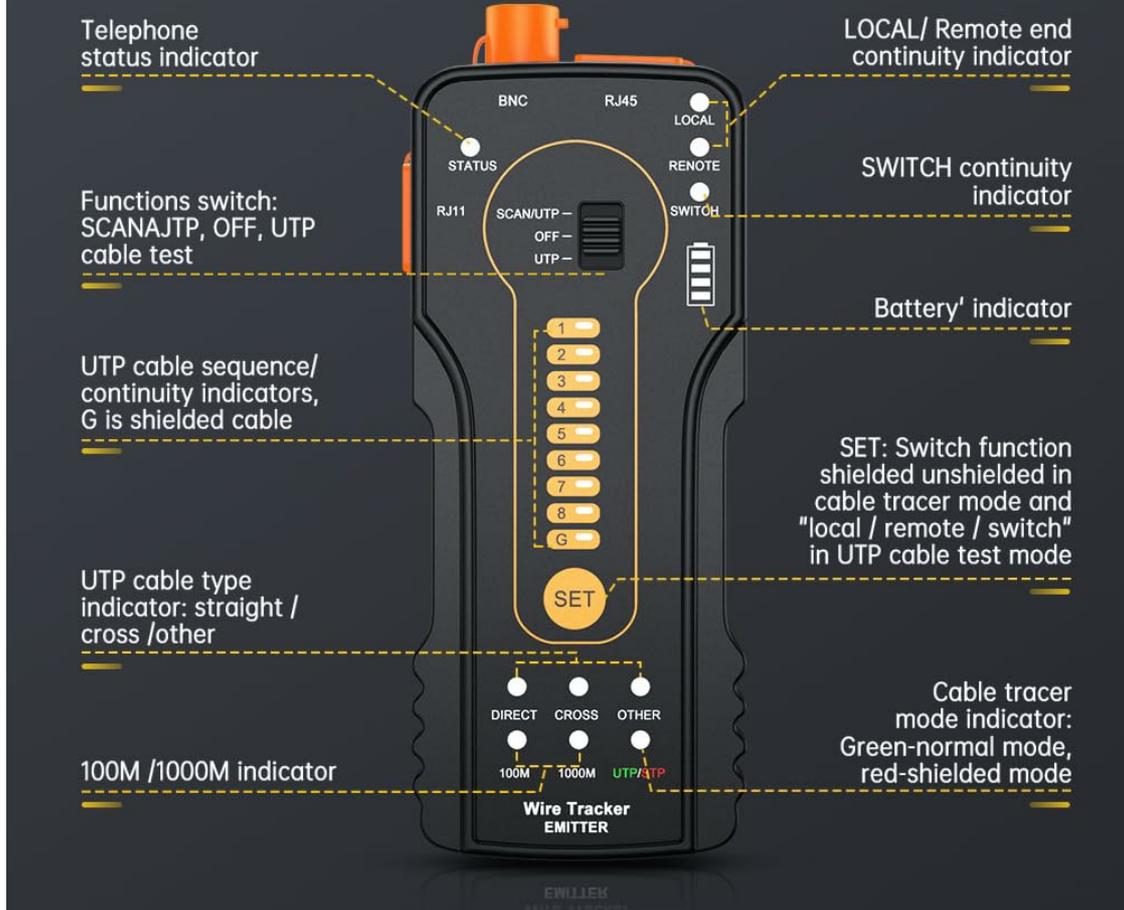## 4.2 Emitter Interfaces and Functions

Figure 4.2: Detailed view of the Emitter unit with labeled interfaces.

- **Telephone Status Indicator:** Shows the status of a connected telephone line.

- **BNC Port:** For connecting BNC cables.

- **RJ45 Port:** For connecting RJ45 network cables.

- **RJ11 Port:** For connecting RJ11 telephone cables.

- **Functions Switch (SCAN/UTP, OFF, UTP):** Selects between cable tracing (SCAN), power off, and UTP cable testing modes.

- **UTP Cable Sequence** / **Continuity Indicators (1-8, G):** Displays wire sequence and continuity for UTP cables. 'G' indicates shielded cable.

- **SET Button:** Used to switch between shielded/unshielded modes in cable tracer, and local/remote/switch in UTP cable test mode.

- **UTP Cable Type Indicator (DIRECT, CROSS, OTHER):** Shows the detected cable type.

- **100M** / **1000M Indicator:** Indicates the detected speed capability.

- **Cable Tracer Mode Indicator:** Green for normal mode, Red for shielded mode.

- **LOCAL** / **Remote End Continuity Indicator:** Shows continuity status for local or remote ends.

- **SWITCH Continuity Indicator:** Indicates connectivity to a network switch.

- **Battery Indicator:** Displays the remaining battery level.

5. SETUP

5.1 Battery Installation

The Emitter and Receiver units each require 2x AA batteries (not included). To install:

1. Locate the battery compartment cover on the back of each unit.

2. Slide or unclip the cover to open.

3. Insert 2x AA batteries into each compartment, ensuring correct polarity (+/-).

4. Replace the battery compartment cover securely.

The device also supports PoE power detection, allowing it to test live PoE lines up to 60V on RJ45 and 100V on BNC ports without damage.

Figure 5.1: The device features 60V voltage withstand for PoE powered finding on RJ45 ports and 100V on BNC ports.

6. OPERATING INSTRUCTIONS

6.1 Cable Tracing (Wire Tracker Mode)

This mode is used to locate and identify a specific cable among a bundle of cables.

1. Connect the cable to be traced to the appropriate port (RJ45, RJ11, or BNC) on the Emitter unit. Use the provided adapter cables if necessary.

2. Set the Emitter's Functions Switch to **SCAN/UTP**. The Emitter will begin sending a signal.

3. Turn on the Receiver unit.

4. Adjust the Receiver's Sensitivity Knob to a suitable level. Start with a lower sensitivity and increase if needed.

5. Move the Receiver's probe along the suspected cable path. The Receiver will emit an audible tone when it detects the signal from the Emitter. The signal strength indicators will also light up.

6. The built-in LED light on the Receiver can be activated for working in dark environments.

Figure 6.1: The Receiver's integrated LED light assists in dark working conditions.

6.2 Network Cable Test (UTP Mode)

This mode tests RJ45 network cables for continuity, short circuits, open circuits, cross-overs, and split pairs.

1. Connect one end of the RJ45 network cable to the RJ45 port on the Emitter.

2. Connect the other end of the RJ45 network cable to the UTP Cable Test Port on the Receiver.

3. Set the Emitter's Functions Switch to **UTP**.

4. Observe the UTP Cable Sequence / Continuity Indicators (1-8, G) on both the Emitter and Receiver.

5. The indicators will light up sequentially, showing the wire map.

6. The UTP Cable Type Indicator (DIRECT, CROSS, OTHER) will illuminate to show if the cable is a straight-through, crossover, or other type.

7. If there is a short circuit, open circuit, or miswiring, the corresponding LED will not light up or will light up incorrectly.

8. Press the **SET** button on the Emitter to cycle through local, remote, and switch connection tests.

6.3 PoE Power Detection

To detect if a network port is supplying Power over Ethernet (PoE):

1. Connect the network cable from the PoE switch to the PD Powered Test Port on the Receiver.

2. The Receiver will display the PoE voltage and polarity, indicating if the PoE power output is normal.

6.4 Telephone Line Test

To test RJ11 telephone lines:

1. Connect the RJ11 telephone cable to the RJ11 port on the Emitter.

2. The Telephone Status Indicator on the Emitter will show the line status (standby, incoming, outgoing).

6.5 Mute Mode

To activate mute mode on the Receiver:

- Press and hold the **MUTE** button on the Receiver. The audio tone will be silenced, and visual indicators will continue to function.
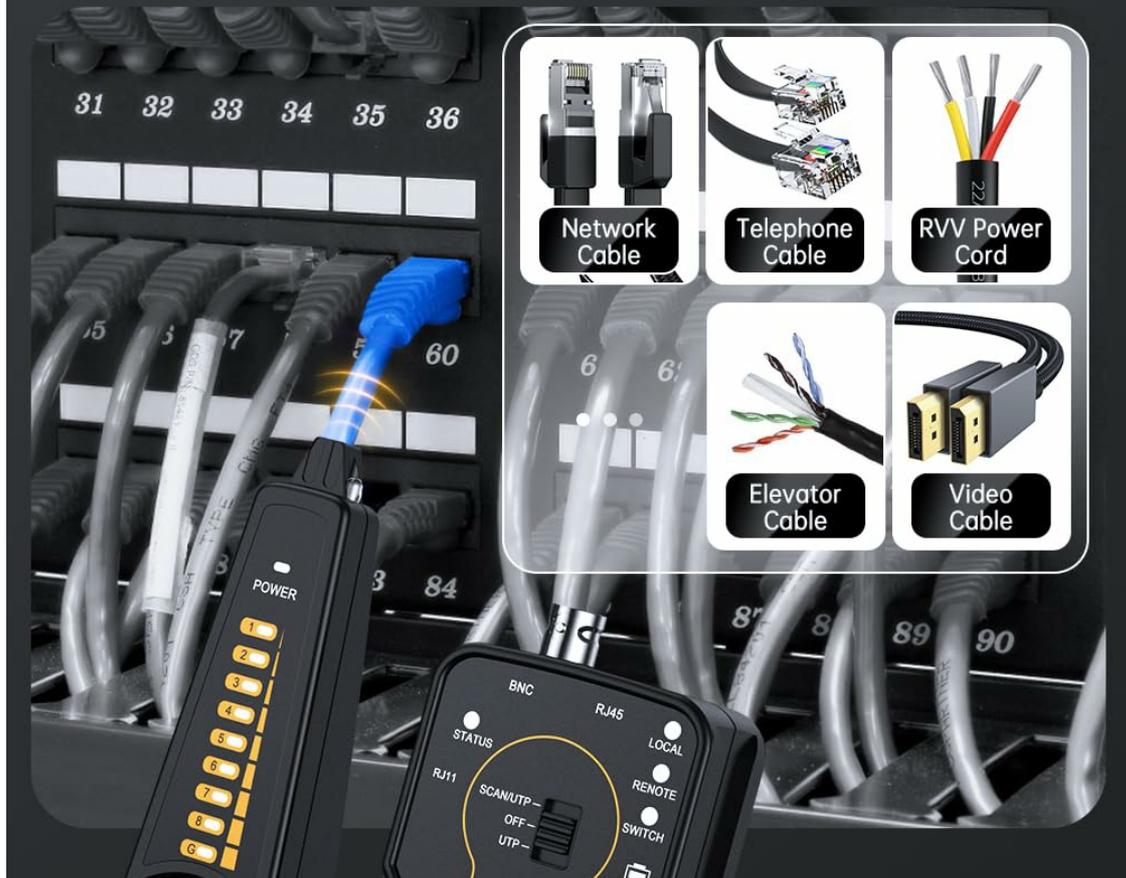
Figure 6.2: The EVERSECU CT-66 supports testing of various cable types including Network, Telephone, RVV Power Cord, Elevator, and Video cables.

7. MAINTENANCE

- Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.

- Remove batteries if the device will not be used for an extended period to prevent leakage.

- Store the device in its carrying pouch in a cool, dry place, away from direct sunlight and extreme temperatures.

- Ensure all ports are free from dust and debris.

Figure 7.1: The device is constructed from resistant, anti-rust materials for durability.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Low or dead batteries; incorrect battery installation.	Replace batteries; ensure correct polarity.
No signal detected in Wire Tracker mode	Emitter not powered on or in correct mode; Receiver sensitivity too low; cable not properly connected.	Check Emitter power and mode (SCAN/UTP); increase Receiver sensitivity; ensure secure cable connections.
Incorrect wire map in UTP mode	Damaged cable; miswired connector; Emitter not in UTP mode.	Inspect cable and connectors for damage; re-crimp connectors if necessary; ensure Emitter is in UTP mode.

Problem	Possible Cause	Solution
No PoE detection	PoE not active on port; cable issue; incorrect port used.	Verify PoE switch configuration; test with a known good PoE cable; ensure cable is connected to the PD Powered Test Port on the Receiver.

9. SPECIFICATIONS

Parameter	Value
Model Number	CT-66
Transmission Signal	Digital signal (anti-interference, noise-free)
Supported Cable Types	RJ45, RJ11, BNC, weak current metal cables
UTP Line Sequence Test	1-8 wire sequence, G shielding layer on/off indicator
Network Cable Type Detection	Direct/Cross/Wrong UTP line sequence
Network Cable Speed Detection	100Mbps/Gigabit
Port On/Off Detection	Near end, mid end, remote on/off status
PoE Power Detection (PD)	Tests power supply of PoE switches
Interface Withstand Voltage	RJ45: 60V; BNC: 100V
LED Lighting	Yes (short press to turn on/off)
Mute Mode	Yes (press and hold MUTE button)
Audio Output Port	Supports external audio output
Power Supply	2x AA batteries (Emitter), 2x AA batteries (Receiver)
Working Temperature	-10 °C to +50 °C
Working Humidity	30% - 90%
Emitter Dimensions	152mm x 62mm x 27mm
Receiver Dimensions	218mm x 48mm x 32mm
Package Dimensions	9.57 x 6.73 x 1.85 inches
Item Weight	1.04 Pounds (total package)

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the contact details provided with

your purchase or visit the official EVERSECU website. Keep your purchase receipt as proof of purchase.