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> UNI-T UT682/UT682D Network Wire Tester Tracker RJ11 RJ45 Wire Line Finder Lan tester Handheld Cable Testing Tool for Network (UT682D) User Manual

UNI-T UT682D

UNI-T UT682D Network Wire Tester Tracker User Manual

Model: UT682D

1. INTRODUCTION

The UNI-T UT682D is a professional wire tracker system comprising a transmitter and a receiver. This device is engineered to accurately identify and trace various types of cables, including telephone lines, Ethernet network cables, and power cables, even when they are energized. Its robust design ensures reliable performance and anti-interference capabilities, making it an essential tool for network installers, telecommunication technicians, and anyone working with low voltage electrical systems.

The UT682D simplifies complex cable management tasks by providing efficient and precise wire tracking, continuity testing, and polarity detection. This manual provides detailed instructions for the proper setup, operation, and maintenance of your UT682D wire tracker.

2. PRODUCT OVERVIEW

The UT682D system includes two main components: the Transmitter (Toner) and the Receiver (Probe), along with essential accessories.



Figure 2.1: UNI-T UT682D Transmitter (Toner) and Receiver (Probe).

This image displays the two primary units of the UT682D: the red and black Transmitter (Toner) on the right with various cable connectors, and the red and black Receiver (Probe) on the left with a pointed tip and a 'Press to Test' button. Both units are designed for ergonomic handling.



Figure 2.2: Included Cables for Connectivity.

This image shows the UT682D units alongside the included cables: an RJ45 to RJ45 cable for network testing, an RJ11 to RJ11 cable for telephone lines, and an RJ11 to alligator clip cable for general wire tracing and DC level testing.

Components:

- **Transmitter (Toner):** Generates the signal for tracing. Features RJ11 and RJ45 ports, and a switch for different test

modes.

- **Receiver (Probe):** Detects the signal emitted by the transmitter. Equipped with a sensitive probe tip, a 'Press to Test' button, and a volume control.
- **RJ11 Cable:** For testing telephone lines.
- **RJ45 Cable:** For testing Ethernet network cables.
- **RJ11 to Alligator Clip Cable:** For tracing non-terminated wires and performing DC level tests.
- **9V Batteries (x2):** Power for both the transmitter and receiver.
- **Carrying Pouch:** For convenient storage and transport of the device and accessories.

3. SETUP

3.1 Battery Installation

Both the Transmitter and Receiver units require a 9V battery for operation. To install the batteries:

1. Locate the battery compartment cover on the back of each unit.
2. Slide the cover open or remove the screw if present.
3. Connect a 9V battery to the battery clip inside the compartment, ensuring correct polarity.
4. Place the battery inside the compartment and close the cover securely.

3.2 Connecting Cables

Connect the appropriate cable to the Transmitter unit based on the type of line you intend to test:

- **For Telephone Lines:** Use the RJ11 cable.
- **For Network Cables:** Use the RJ45 cable.
- **For Non-terminated Wires or Power Cables:** Use the RJ11 to alligator clip cable.

4. OPERATION

4.1 Wire Tracking (Tone and Probe Function)

This function is used to trace the path of a cable and locate its end point.

1. Connect the Transmitter to the cable you wish to trace. For network cables, use the RJ45 port. For telephone lines, use the RJ11 port. For other wires, use the alligator clips.
2. Turn on the Transmitter. Select the desired tone mode (e.g., 'TONE' or 'CONTINUITY' if available).
3. Turn on the Receiver (Probe). Adjust the volume control on the side of the Receiver to a comfortable level.
4. Move the tip of the Receiver along the suspected path of the cable. The Receiver will emit an audible tone when it detects the signal from the Transmitter.
5. The tone will be strongest when the Receiver is directly over the cable. Follow the strongest tone to trace the cable's path.
6. To identify a specific cable among a bundle, touch the probe tip to individual wires or connectors. The loudest tone indicates the traced cable.

4.2 DC Level Test and Polarity Check

The UT682D can test DC voltage levels and polarity on telephone lines.

1. Connect the RJ11 to alligator clip cable to the Transmitter.
2. Connect the alligator clips to the two wires of the telephone line.
3. Observe the LED indicators on the Transmitter. They will show the voltage level and polarity (positive/negative).

4.3 Ethernet Cable Wiring Sequence Verification

This function verifies the correct wiring sequence of RJ45 Ethernet cables.

1. Connect one end of the RJ45 Ethernet cable to the RJ45 port on the Transmitter.
2. Connect the other end of the RJ45 Ethernet cable to the RJ45 port on the Receiver.
3. Turn on both the Transmitter and Receiver. The LEDs on both units will light up sequentially, indicating the status of each wire pair.
4. Compare the sequence of lit LEDs on both units. If they match, the wiring sequence is correct. Any discrepancy indicates a wiring fault (e.g., open, short, cross, or split pair).

4.4 Fast Open/Short Circuit Test

This test quickly identifies open or short circuits in cables.

- When performing wiring sequence verification (Section 4.3), the device will automatically detect open or short circuits.
- An unlit LED indicates an open circuit for that wire.
- If multiple LEDs light up simultaneously or in an unexpected pattern, it may indicate a short circuit or a miswire.

5. SPECIFICATIONS

Table 5.1: UNI-T UT682D Technical Specifications

Feature	Specification
Brand	UNI-T
Model	UT682D
Wire Types Supported	Telephone line (twisted-pair), Ethernet (RJ45), Electric wire
Telephone Lines Tracking Distance	≥3000m
Ethernet Cables Tracking Distance	≥100m (for energized lines)
DC Level Test	Yes, checks voltage level and polarity (±5V~±52V)
Ethernet Cable Wiring Sequence Verification	Yes
Open/Short Circuit Test	Yes
Volume Adjustment	Yes, on Receiver
Headset Connection	Yes, for noisy environments
Power Supply	9V battery (x2, one for Transmitter, one for Receiver)
Low Battery Indication	Yes
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-10°C to 50°C (14°F to 122°F)
Dimensions (L x W x H)	Transmitter: 4.92 x 1.89 x 1.1 inches (125 x 48 x 28 mm) Receiver: 8.19 x 1.85 x 1.3 inches (208 x 47 x 33 mm)
Weight	Transmitter: 150g, Receiver: 130g
Certifications	CE, UKCA, ISO 9001

Note: Specifications are subject to change without prior notice. For the most up-to-date information, please refer to the official UNI-T website or product packaging.

6. 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. If storing for extended periods, remove the batteries to prevent leakage.
- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears to ensure optimal performance.

7. TROUBLESHOOTING

- **No Power:** Check if batteries are installed correctly and have sufficient charge. Replace batteries if necessary.
- **No Signal/Weak Signal:** Ensure the Transmitter is powered on and connected properly to the cable. Verify the Receiver's volume is adjusted. Check for excessive interference from strong electromagnetic fields.

- **Inaccurate Readings:** Ensure proper connection of cables. Avoid testing in areas with high electrical noise.
- **Device Malfunction:** If the device behaves unexpectedly, try replacing the batteries. If the issue persists, contact customer support.

8. WARRANTY AND SUPPORT

The UNI-T UT682D Network Wire Tester Tracker comes with a **1-year warranty** from the date of purchase, covering manufacturing defects. Please retain your purchase receipt as proof of purchase.

For technical support, warranty claims, or any inquiries regarding your UNI-T product, please contact UNI-T customer service through their official website or the contact information provided on the product packaging.

Manufacturer: UNI-T

Country of Origin: China