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UNI-T UT25CL

UNI-T UT25CL AC/DC Advanced Circuit Tracer and Breaker Finder Kit User Manual

Model: UT25CL

1. Introduction

The UNI-T UT25CL is an advanced circuit tracer kit designed for detecting low voltage cable paths and fault points, such as short circuits or open circuits, within walls, buried wires, and concealed circuits. It can also identify specific cables in multi-core bundles, circuit breakers, and fuses, whether energized or unenergized. This kit provides accurate measurements and is designed for ease of operation.

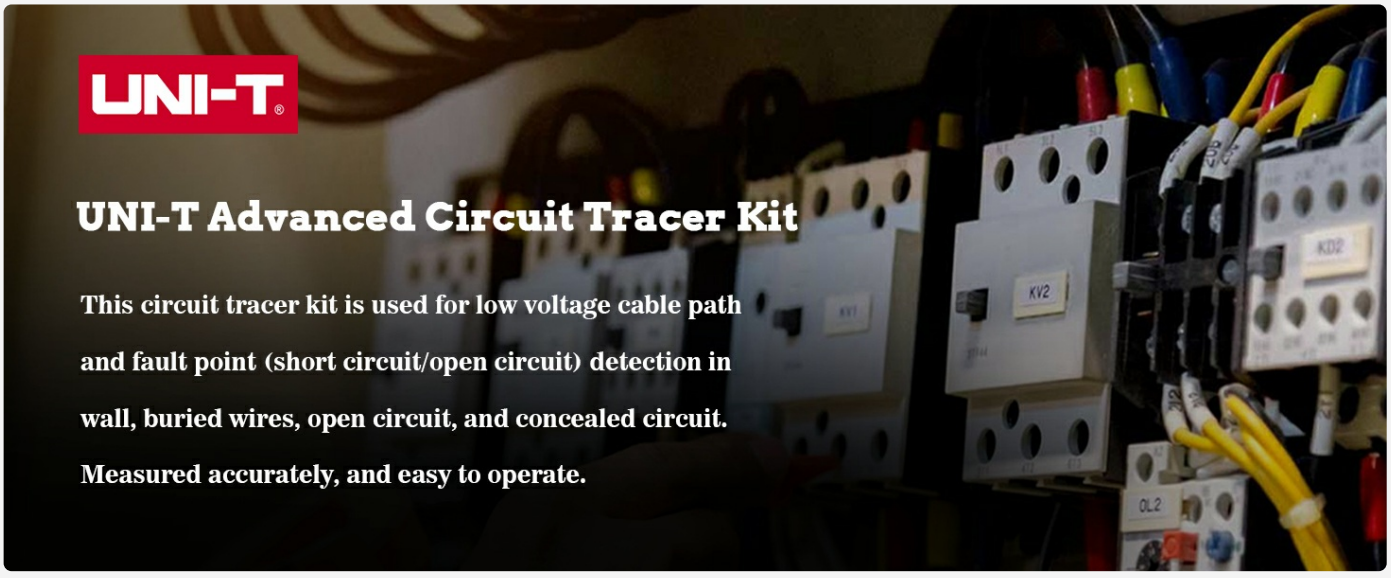


Image 1.1: The UNI-T UT25CL Advanced Circuit Tracer Kit in an electrical panel environment.

2. Package Contents

Before starting, please verify that all items listed below are included in your package:

- 1 x UT25CL Wire Tracer Set (Transmitter and Receiver)
- 1 x Outlet Tester
- 1 x Circuit Breaker Finder

- 1 Pair of Dual Direct-Plug Test Lines (Red + Black)
- 1 Pair of Alligator Clips (Red + Black)
- 1 Pair of Connected Penlight Lantern Head Probes (Red + Black)
- 1 x AC Polarity Plug Line
- 1 x Auxiliary Grounding Nail
- 1 x User Manual
- 1 x Certificate of Conformity
- 6 x 1.5V AA Alkaline Batteries
- 6 x 1.5V AAA Alkaline Batteries
- 1 x Sturdy EVA Tool Case



Image 2.1: All components included in the UNI-T UT25CL kit.

3. Product Overview and Components

Familiarize yourself with the main components of the UT25CL Transmitter and Receiver.



Image 3.1: Detailed view of the UT25CL Emitter (left) and Receiver (right) with key parts labeled.

Emitter (Transmitter) Features:

- Input/Output Jack (CAT II 600V)
- ELV Indicator Light
- Transmitter Signal Indicator
- Backlight/Mute Button
- Level Key (for signal strength adjustment)
- CODE Key (for signal code selection)
- Power Button
- Start/Stop Button
- Up/Down Keys

Receiver Features:

- Sensor/NCV (Non-Contact Voltage)
- Backlight/Mute Button
- Flashlight Button
- Auto/Manual Mode Button
- NCV Button
- Power Button
- Up/Down Keys (for sensitivity adjustment)

4. Setup and Initial Operation

4.1 Battery Installation

Install the provided 1.5V AA alkaline batteries into the Transmitter and 1.5V AAA alkaline batteries into the Receiver, observing correct polarity.

4.2 Power On/Off

Press and hold the **Power** button on both the Transmitter and Receiver to turn them on or off.

4.3 Language Selection

The device supports 8 languages: English, French, German, Italian, Spanish, Swiss, Polish, and Czech. Refer to the on-screen menu to select your preferred language.

5. Operating Instructions

5.1 Low Voltage Cable Detection

The UT25CL is capable of detecting cable paths and fault points (short/open circuits) in various low voltage applications, including in-wall, buried, and concealed wiring.



Image 5.1: Examples of cable path detection, short circuit detection, open circuit detection, and identifying specific cables in multi-core cables.

1. Connect the Transmitter to the circuit or cable you wish to trace using the appropriate test leads or clips.
2. Turn on the Transmitter and select a signal code and level.
3. Turn on the Receiver and move it along the suspected path of the cable. The signal strength displayed on the Receiver will indicate the cable's location.
4. For short or open circuit detection, follow the instructions provided in the detailed manual for specific connection methods.

5.2 Identifying Circuit Breakers and Fuses

This function allows you to quickly identify the correct circuit breaker or fuse for a specific circuit, even when energized.

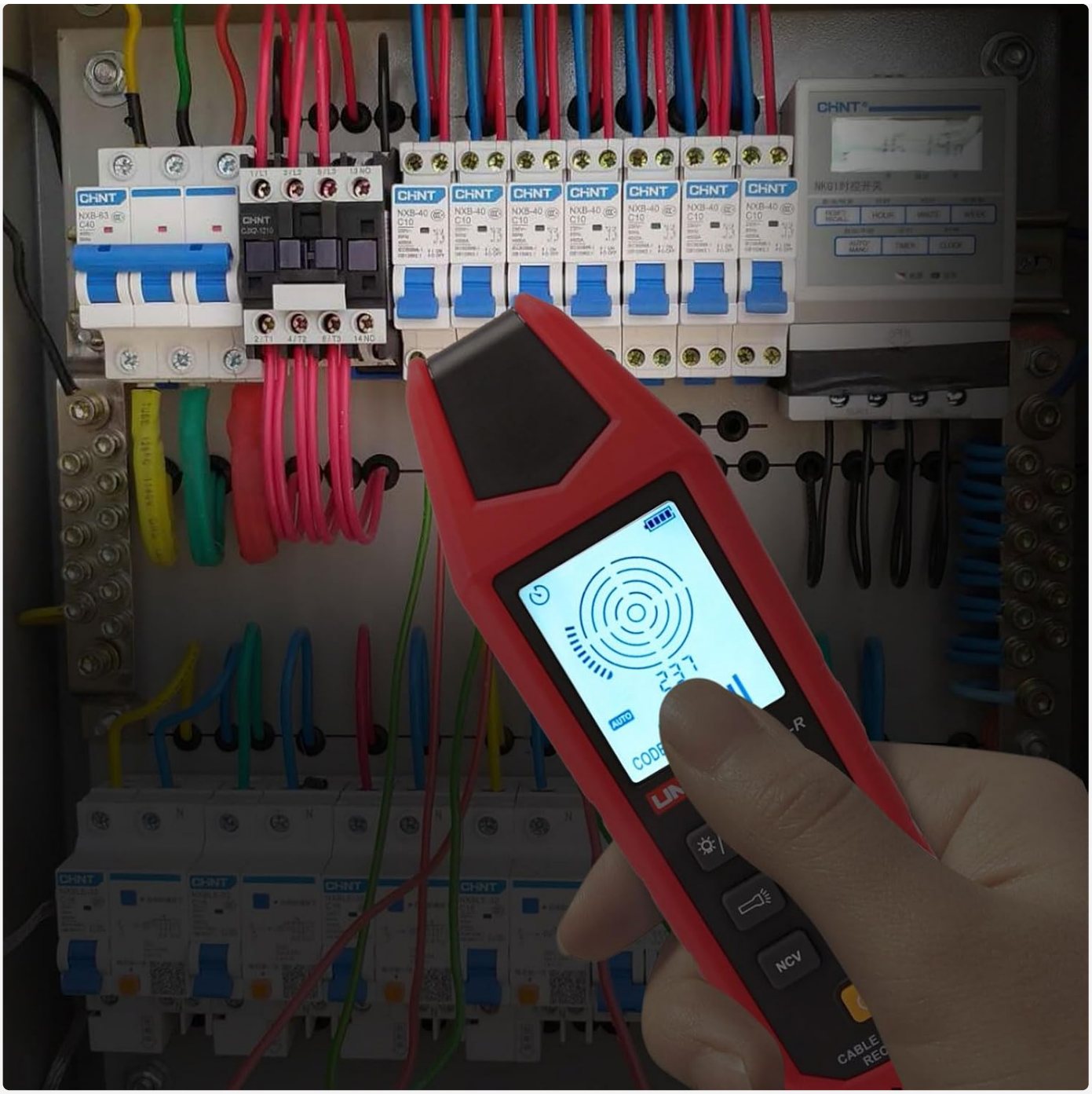


Image 5.2: The Receiver being used to identify a circuit breaker in an electrical panel.

1. Connect the Transmitter to the circuit you want to identify.
2. Take the Receiver to the electrical panel.
3. Scan the circuit breakers or fuses with the Receiver. The Receiver will indicate the correct breaker with a strong signal and visual/audible alerts.

5.3 Voltage Measurement (8V-480V AC/DC)

The Transmitter can measure AC/DC voltage from 8V to 480V and detect if a cable is energized, displaying the corresponding voltage value. It can also recognize DC voltage polarity.



Image 5.3: Examples of DC Voltage Measurement, AC Voltage Measurement, and ELV Indicator Tip usage.

1. Connect the Transmitter to the circuit using the test leads.
2. The Transmitter will automatically detect and display the AC/DC voltage.
3. For DC voltage, the polarity will also be indicated.
4. The ELV (Extra-Low Voltage) indicator light will illuminate if the port access voltage is greater than 25V when there is no power on the circuit.

5.4 Signal Strength and Sensitivity Adjustment

The Transmitter offers three levels of adjustable signal strength, while the Receiver provides multiple levels of sensitivity adjustment, including an auto mode, for precise tracing.



Image 5.4: Illustration of the Emitter's three-level adjustable signal strength and the Receiver's multi-step sensitivity adjustment (Auto and Manual modes).

- **Transmitter:** Use the **Level** key to cycle through the three signal strength levels (Level 1, 2, 3) to optimize for different tracing distances and environments.
- **Receiver:** Use the **Up/Down** keys to adjust sensitivity in manual mode. Press the **Auto/Manual** button to switch between automatic and manual sensitivity adjustment.

5.5 Coded Signals

The UT25CL supports 8 coded signals (0-7), allowing one receiver to support up to 8 transmitters. This enables simultaneous testing of multiple circuits using different codes, saving time and improving efficiency.



Image 5.5: The Emitter displaying a coded signal, with a diagram illustrating how one receiver can differentiate signals from up to eight transmitters.

- On the Transmitter, press the **CODE** key to select a unique signal code (0-7).
- Ensure the Receiver is set to detect the corresponding code if multiple transmitters are in use.

5.6 NCV (Non-Contact Voltage) Function

The Receiver features an NCV non-contact power test mode, allowing you to check if a cable is energized or trace it without needing to connect the Transmitter.

- Press the **NCV** button on the Receiver.
- Bring the sensor tip of the Receiver close to the cable. The device will indicate the presence of AC voltage without direct contact.

5.7 Additional Features

- **Flashlight:** The Receiver includes a built-in flashlight to assist in locating wires in dark environments. Press the

Flashlight button to activate.

- **Mute Function:** Both the Transmitter and Receiver have a mute function to reduce noise during operation. Press the **Backlight/Mute** button briefly to toggle mute.
- **Automatic Shutdown:** To conserve power, the device will automatically shut down after a period of inactivity.

5.8 Instructional Video

Watch this official video for a visual guide on using the UNI-T UT25CL Advanced Circuit Tracer and Breaker Finder Kit, including demonstrations of its various functions.

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Video 5.1: Official demonstration of the UNI-T UT25CL AC/DC Advanced Circuit Tracer and Breaker Finder Kit.

6. Maintenance

- **Cleaning:** Wipe the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the kit in its sturdy EVA tool case in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears to ensure accurate operation. Remove batteries if the device will not be used for an extended period.
- **Inspection:** Regularly inspect test leads and probes for any signs of damage. Do not use damaged accessories.

7. Troubleshooting

If you encounter issues with your UNI-T UT25CL, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No power/Device won't turn on	Dead or incorrectly installed batteries	Check battery polarity; replace with fresh batteries.
Weak or no signal detection	Transmitter not connected properly; signal strength too low; receiver sensitivity too low; excessive interference	Ensure secure connections. Increase Transmitter signal level. Adjust Receiver sensitivity (try auto mode). Minimize other electrical devices nearby.
Inaccurate readings	Interference; incorrect operating mode; low battery	Move away from strong electromagnetic fields. Verify correct mode selection. Replace batteries.
Receiver not pairing with Transmitter	Incorrect signal code selected	Ensure both Transmitter and Receiver are set to the same signal code.

If the problem persists after trying these solutions, please contact UNI-T customer support.

8. Specifications

Feature	Specification
Brand	UNI-T

Feature	Specification
Model	UT25CL
Voltage Measurement Range	8V - 480V AC/DC
Transmitter Signal Strength	3 adjustable levels
Receiver Sensitivity	Multiple adjustable levels (Auto/Manual)
Coded Signals	8 (0-7)
Safety Compliance	CE, RoHS
Operating Temperature	Up to 40 °C
Item Weight	2.3 kg (approx.)
Dimensions (L x W x H)	Transmitter: 2.75 x 1.57 x 9.05 inches (approx.) Receiver: 2.68 x 1.50 x 8.90 inches (approx.)

9. Warranty and Support

The UNI-T UT25CL comes with a 5-month warranty for the transmitter and receiver, as indicated by the manufacturer. For technical support, warranty claims, or further assistance, please contact UNI-T customer service through their official website or the retailer where the product was purchased.

For more information and product updates, visit the official UNI-T store:UNI-T Amazon Store

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