WANLUTECH CT-66 Multi Function Wire Tracker User Manual

Contents

WANLUTECH

WANLUTECH CT-66 Multi-Function Wire Tracker

Product Information

Specifications

- **Model:** CT-66

Feature

The Multi-function Wire Tracker (Model: CT-66) is a versatile tool designed for cable tracing and UTP detection. It comes with various interfaces and functions to assist users in identifying and testing different types of cables.

Packing List

- Wire tracker emitter
- Wire receiver
- RJ45 cable
- RJ11 cable
- BNC alligator clip
- User manual

Interface and Function Introduction

Emitter Interfaces and Functions:

- Telephone status indicator

- Functions switch: SCAN/UTP, OFF, UTP cable test
- UTP cable sequence/continuity indicators, G is a shielded cable
- UTP cable type indicator: straight/cross/other
- 100M/1000M indicator
- Cable tracer mode indicator: Green-normal mode, red-shielded mode
- SET: Switch function shielded or unshielded in cable tracer mode and local/remote/switch in UTP cable test mode
- Battery indicator
- SWITCH continuity indicator
- LOCAL/Remote end continuity indicator
- BNC interface
- UTP/Scan port
- RJ11 port

Cable Tracer (Receiver) Interfaces and Functions

- LED light
- Power Indicator
- UTP cable sequence/signal strength indicator
- Shielded layer continuity indicator
- Earphone jack
- UTP cable test port
- LED light switch
- 100M/1000M indicator
- Switch/Sensitivity knob
- MUTE button (long press for silent mode, short press for port connectivity detection)
- UTP cable type indicator: straight/cross/other
- Port continuity detection indicator (ON indicates the local end cable connectivity function OFF indicates cable sequence function)

Safety Information

The wire tracker should be used in compliance with the local rules of electrical usage and should not be used in places where it is inapplicable, such as hospitals and gas stations. To prevent functional decline or failure, the product should not be exposed to water or moisture. The exposed part of the wire tracer should be kept away from dust and liquid. It should not be used in high-temperature environments. The instrument should not be used to detect power lines to avoid damage or personal injury. During transportation and use, avoid violent collisions and vibrations to prevent damage to the components. The wire tracker should not be used in environments with flammable gas. Do not disassemble the instrument as no user-repairable components are inside. If disassembly is necessary, contact the technician of the company. The instrument should not be used in environments with strong electromagnetic interference.

Product Usage

Cable Tracing

1. Connect the wire tracker emitter and receiver using the provided cables (RJ45, RJ11, or BNC).
2. Turn on the wire tracker emitter and set it to the desired mode (SCAN/UTP).
3. Locate the cable you want to trace.
4. Hold the wire tracker receiver and move it along the cable.
5. The LED light on the receiver will indicate the presence of the cable.

UTP Detection

1. Connect the wire tracker emitter and receiver using the provided UTP cable.
2. Turn on the wire tracker emitter and set it to the UTP cable test mode.
3. Choose between local or remote testing using the SET function.
4. Follow the instructions on the interface to perform the desired UTP detection.
5. The indicators on the emitter and receiver will provide information about cable sequence, continuity, type, and connectivity.

Frequently Asked Questions (FAQ)

Q: Can I use the wire tracker to detect power lines?

- **A:** No, using the wire tracker to detect power lines, such as 220V power lines, can damage the instrument or pose a risk to personal safety. It is not recommended.

Q: Can I disassemble the instrument for repairs?

- **A**: No, the instrument should not be disassembled by the user. If repair is necessary, please contact the technician of our company.

Q: Can the wire tracker be used in environments with strong electromagnetic interference?

- **A**: No, the wire tracker should not be used in environments with strong electromagnetic interference as it may affect its performance.

Q: What should I do if I encounter any issues with the wire tracker?

- **A**: For any issues or inquiries, please contact our after-sales service department at **sales@testerpro.com.cn**.

Safety information

- The wire tracker is intended to be used in compliance with the local rules of electrical usage and avoids applying at places that are inapplicable for the use of electrics such as hospitals, gas stations,s etc.
- To prevent functional decline or failure, the product should not be sprinkled or damped.
- The exposed part of the wire tracer should not be touched by the dust and liquid.
- Don’t use the wire tracer where the temperature is high.
- Please don’t use this instrument to detect power lines (such as 220V power lines), otherwise, it may damage

the instrument or involve personal safety.

- During transportation and use, it is highly recommended to avoid the violent collision and vibration of the tester, lest damaging components and causing failure.
- The wire tracker should not be used in an environment with flammable gas.
- Do not disassemble the instrument since no component inside can be repaired by the user. If the disassembly is necessary indeed, please contact the technician of our company.
- The instrument should not be used in an environment with strong electromagnetic interference

Feature

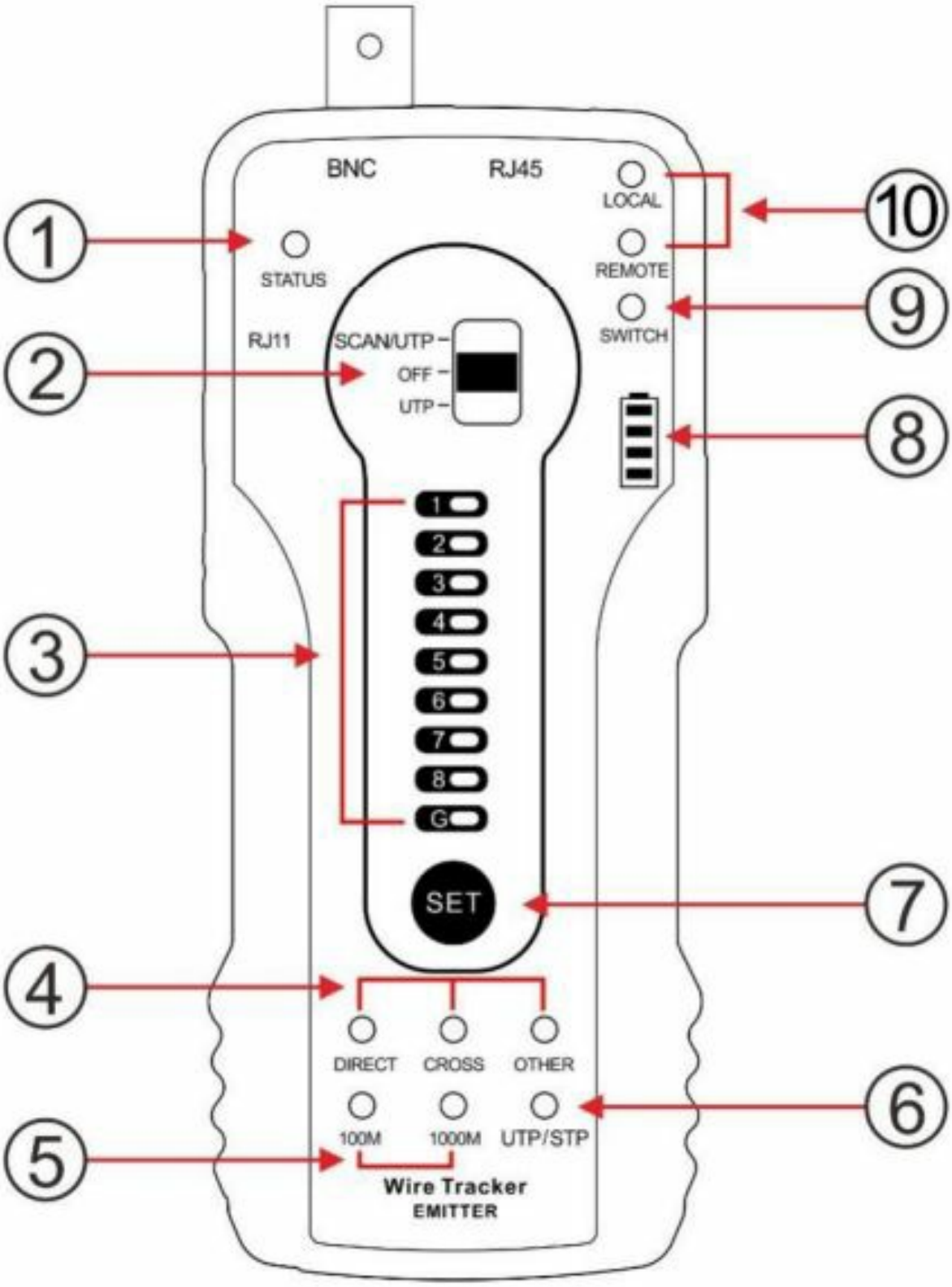
- Secondary code digital mode decisively rejects noise and false signals and locates cables quickly and easily.
- Cable tracer and UTP cable test in the same interface.
- Identify cable type:100M/1000M, straight/cross/other.
- UTP/STP/RJ45/RJ11 cable scan and continuity testing.
- Identify the status of the working telephone line: standby, ringing, and off-hook
- Quickly detect the near-end, mid-end, and far-end fault points of the RJ45 cable plug
- UTP port supports max 60V withstand voltage, the wire can be traced directly in connection with the PoE switch.
- Shielded cable and shielding layer continuity test
- PD powered detection: detect whether the power output of the POE switch is normal, and detect the pins used for the power supply.
- Support silent mode
- Two bright LED lights for working in the dark

Packing list

1. Wire tracker emitter
2. Wire receiver
3. RJ45 cable
4. RJ11 cable
5. BNC alligator clip
6. User manual

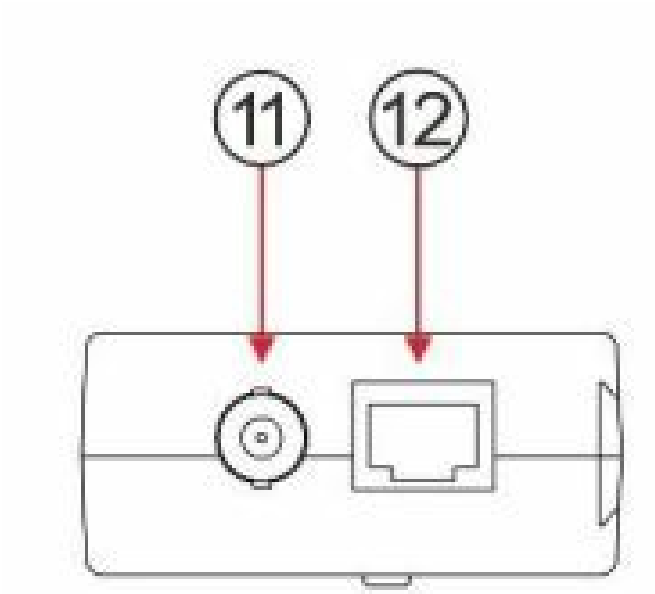
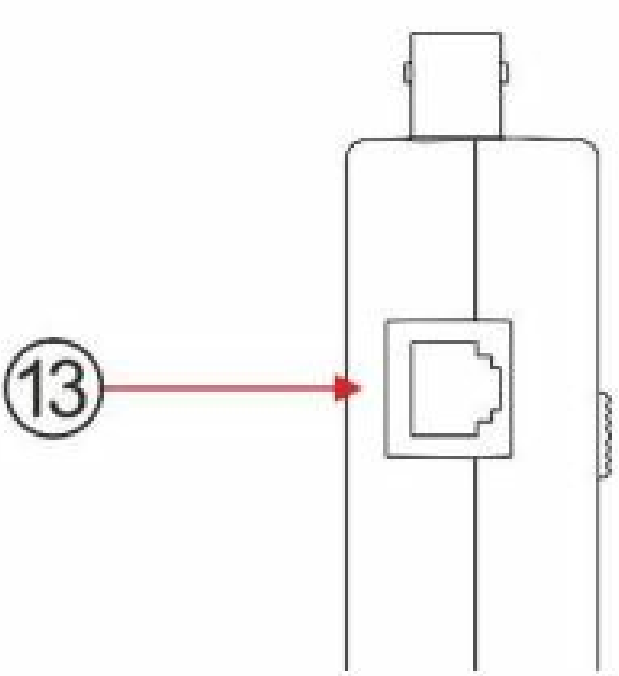
Interface and Function Introduction

1. Emitter Interfaces and Functions:



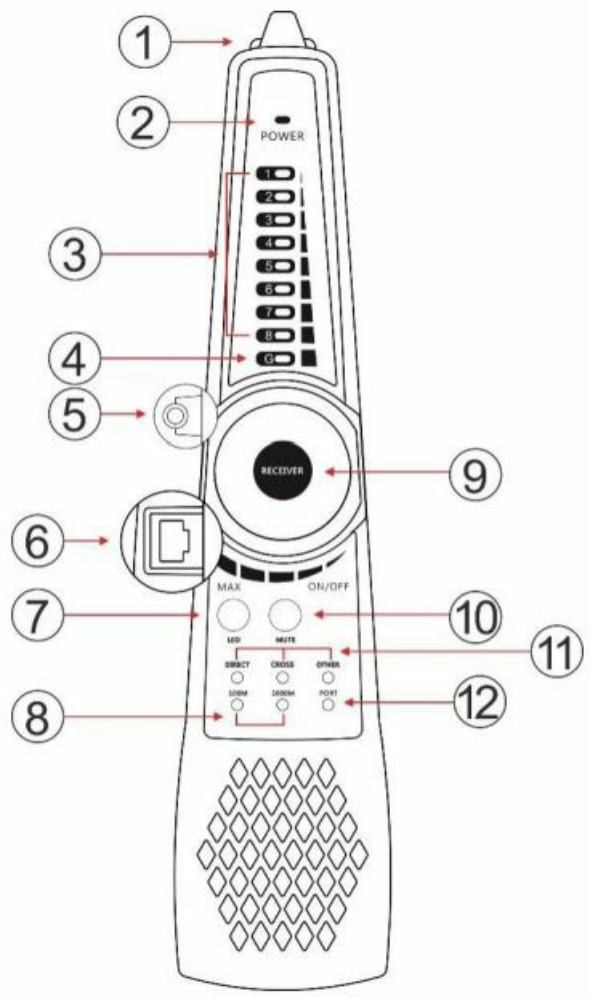
1 Telephone status indicator

2 Functions switch: SCAN/UTP, OFF, UTP cable test
3 UTP cable sequence/ continuity indicators, G is shielded cable
4 UTP cable type indicator: straight /cross /other
5 100M /1000M indicator
6 Cable tracer mode indicator: Green-normal mode, red-shielded mode
7 SET: Switch function shielded or unshielded in cable tracer mode and “local/remote / switch” in UTP cable tes t mode
8 Battery indicator
9 SWITCH continuity indicator
10 LOCAL/ Remote end continuity indicator

Top interface	Left interface
	
11 BNC interface	
12 UTP/ Scan port	
13 RJ11 port	

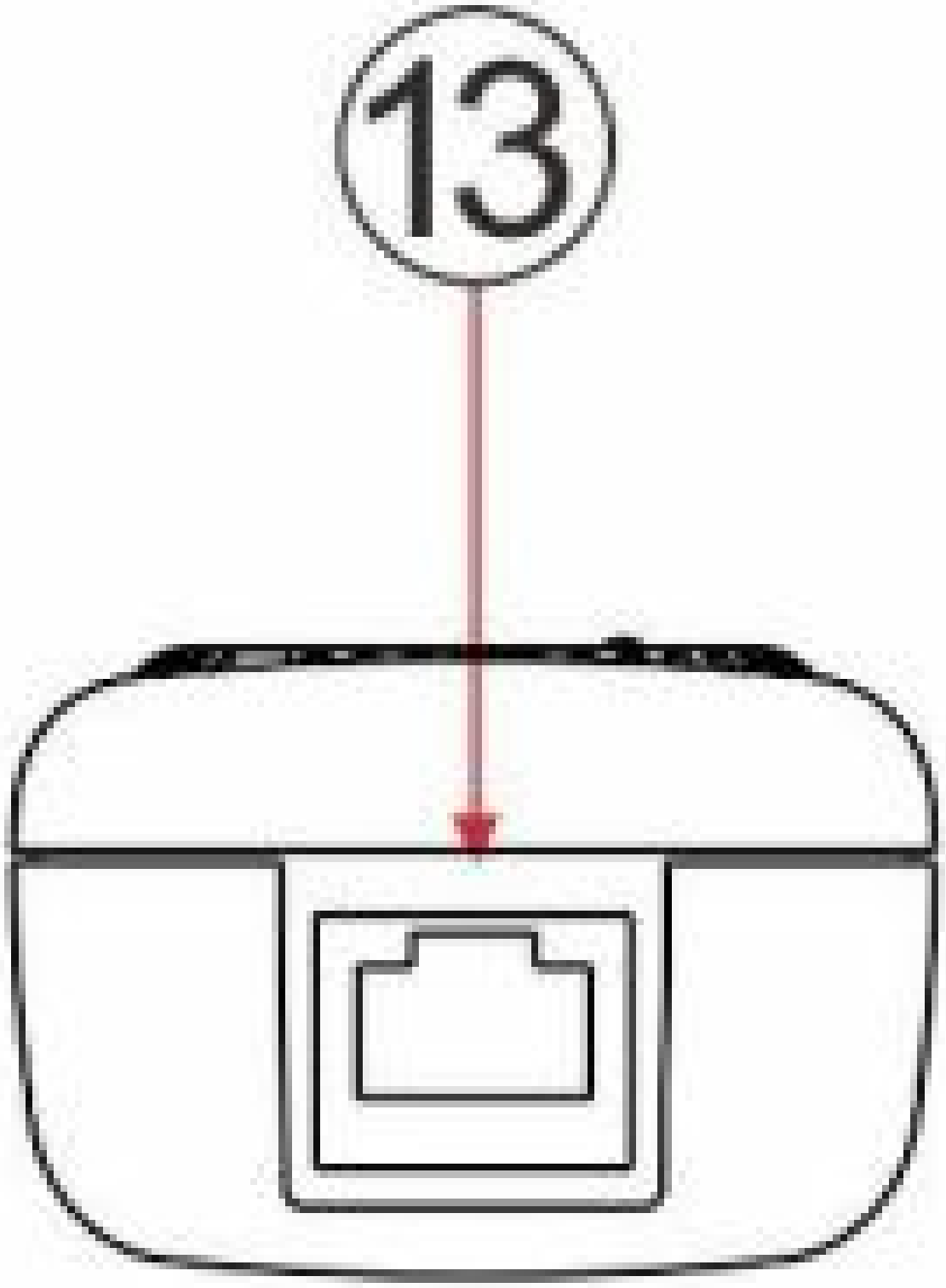
Note: Please use telephone status detection in the OFF status. The indicator light off/on / flashing corresponds to the telephone status standby/ringing / off-hook.

Cable tracer (Receiver) Interfaces and functions



1. LED light

2	Power Indicator
3	UTP cable sequence/signal strength indicator
4	Shielded layer continuity indicator
5	Earphone jack
6	UTP cable test port
7	LED light switch
8	100M /1000M indicator
9	Switch / Sensitivity knob
10 MUTE button (long press to silent mode, short press to port connectivity detection)	
11 UTP cable type indicator: straight /cross /other	
12 Port continuity detection indicator (ON indicates local end cable connectivity function, OFF indicates cable s equence function)	
Bottom interface	
13 PD Powered test port (detect whether the power output of the PoE switch pins is normal.)	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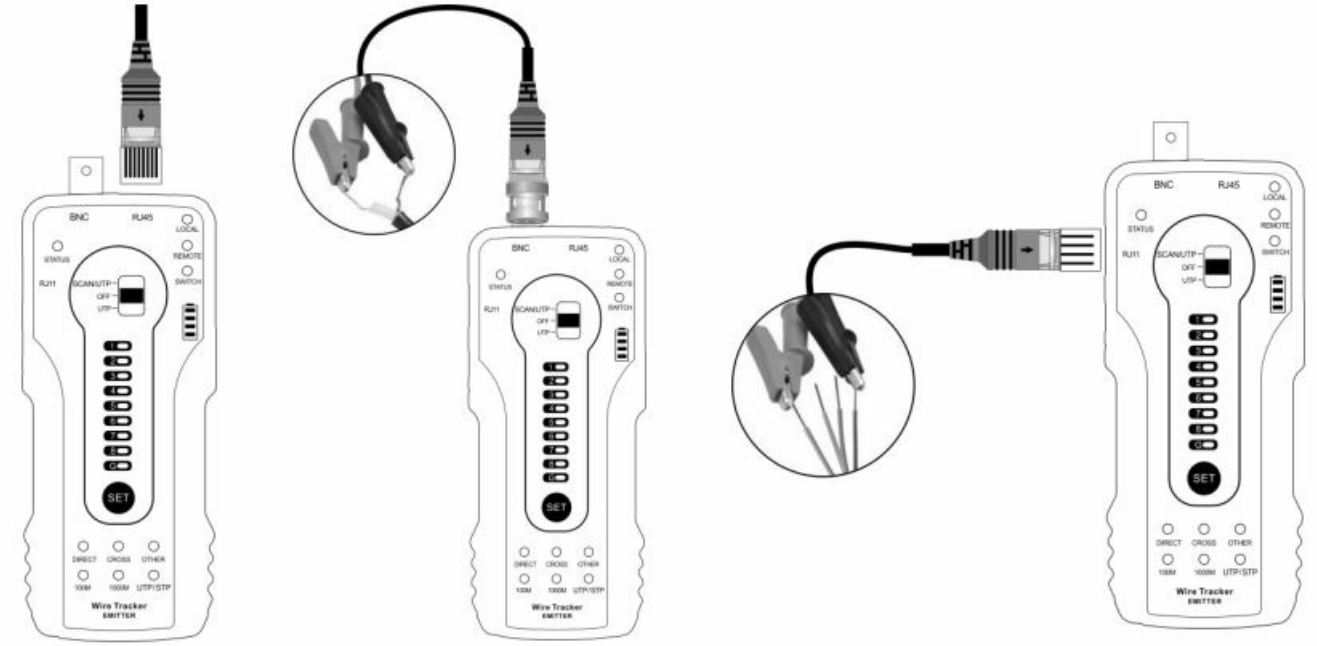
Note: Receiver port continuity detection only supports the local end, and does not support the remote end. Emitter can support near-end, middle-end end, and far-end port detection.

The instructions for product application

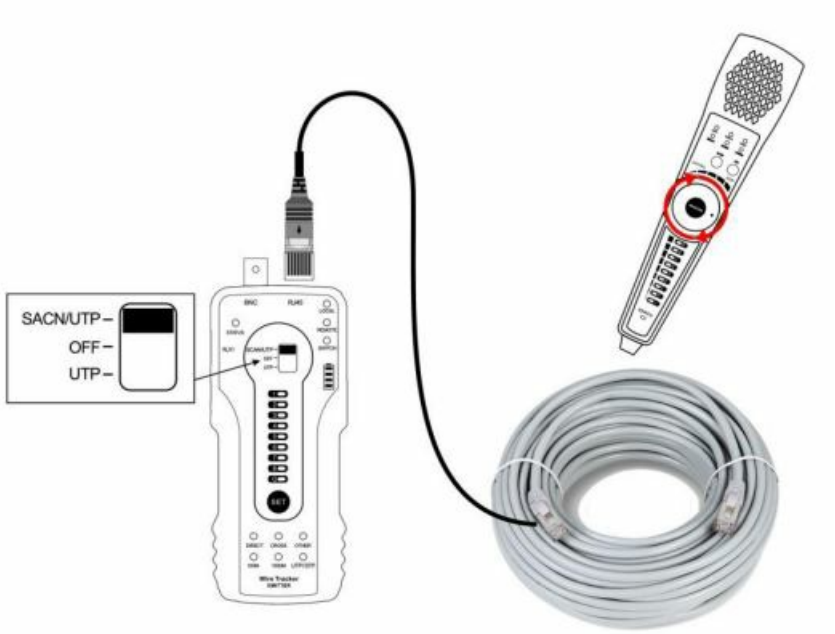
Cable tracer

Connect the network cable to the emitter's RJ45 port, and connect the BNC cable or RJ11 telephone line to the emitter's BNC or RJ11 port. If no connector cable, can use alligator clips to clip the bare copper wire.

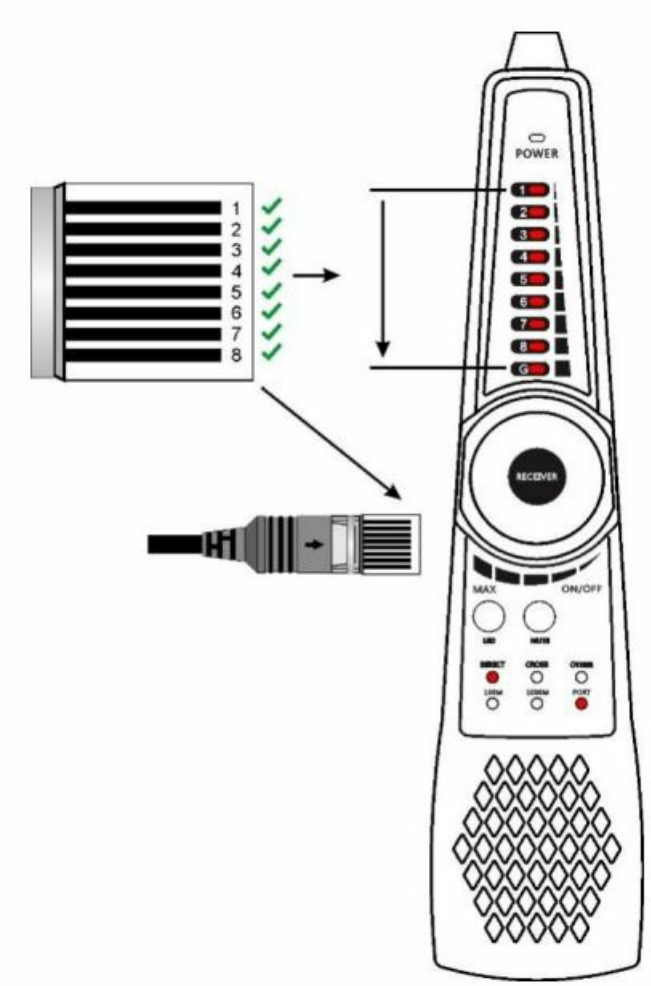


1. Adjust the switch of the emitter to the "Scan/UTP" mode, and press the "SET" key to switch to UTP/STP mode. The green light of the "UTP/STP" indicator means normal mode, while the red light is shielded mode. Turn on

the wire receiver at the same time to trace the wire.



2. Rotating the knob of the receiver to adjust the sensitivity. When the cables are very close, can adjust to the small sensitivity to find the cable.
    - Long press the “MUTE” key for silent mode. In this mode, the signal strength indicator light is used to trace the wire. When the strongest signal, the eight indicator lights are on. Press “MUTE” again to exit MUTE mode.
3. Quickly verify the tracking result (only for the RJ45 port). After finding the cable, connect the network cable to the wire receiver “UTP” port for pair line detection. For example, When the “Straight/Cross/Other” lights up, indicates the verification of the matching cable. The indicator also shows the type of the cable. The 1-8 and G indicators show the detection of line sequence by default, and the order in which the indicator lights up is the sequence of the line. When connected to the cable, the receiver indicates the cable status by sound, the “di” sound is connected pair lines, the “du” sound is short circuit pair lines, and all indicator lights of short circuit pairs are on at the same time.
4. Port continuity and short circuit detection:



- Press the “MUTE” button, when the indicator light of the port is on, the 1-8 and G indicator lights will show the continuity of the line of the RJ45 cable connector or within 1 meter from the RJ45 cable connector. As shown on the right, If the light is on, it means it is connected, and vice versa. One end of the network cable is connected to the receiver, but the other end is not connected to the emitter, press “Mute”, and the “Port” light on, can test the continuity and short circuit of the network cable.
- **Application:** Connect one end of the network cable to Switch, and the other end connects to the RJ45 port of the emitter, press the “SET” key to switch to the “SWITCH” mode, If the 1236 indicators light on, that is 100M switch, If 12345678 indicators light on, that is 1000M switch.

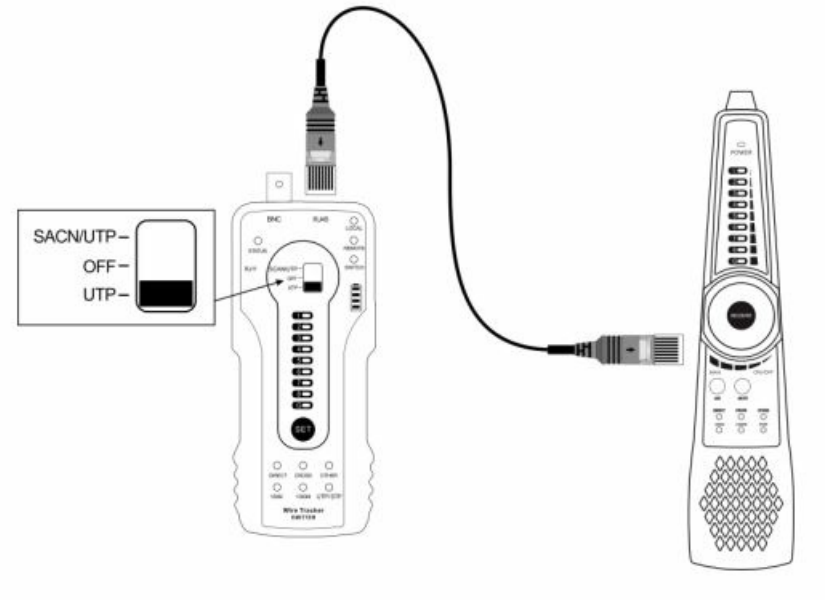
5. The UTP port of the emitter and receiver can max 60V withstand voltage, the wire can be traced directly in connection with the PoE switch

UTP detection

Sequence and pair line continuity detection

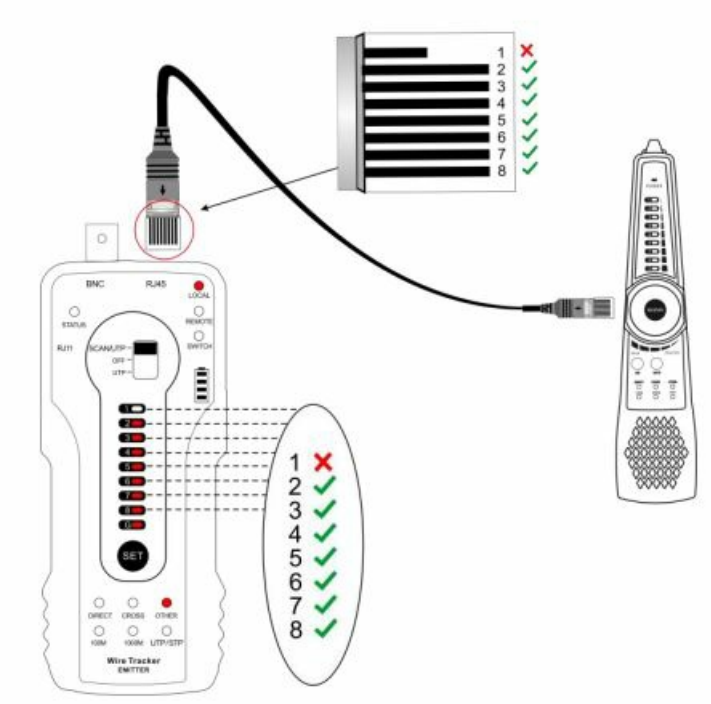
- **Step 1:** Connect the network cable or telephone cable to the RJ45 port of the emitter, and the other end connects to the UTP interface of the receiver. (The wire receiver needs to be turned on)
- **Step 2:** Switch the wire tracker emitter to UTP mode, the 1-8 and G indicators will indicate the sequence of cable, and 100M and 1000M indicators will indicate whether the cable is 100M or 1000M network, the cable receiver also can see the sequence.
- Quickly determine the cable whether is normal through the wire tracer emitter or wire receiver, if indicates Direct/Cross, the cable is normal. After the 8 indicators flash, the wire receiver will beep to indicate the type of network cable. One sound is a straight cable, a double sound is a cross cable, and a triple sound is another or

the wrong cable.



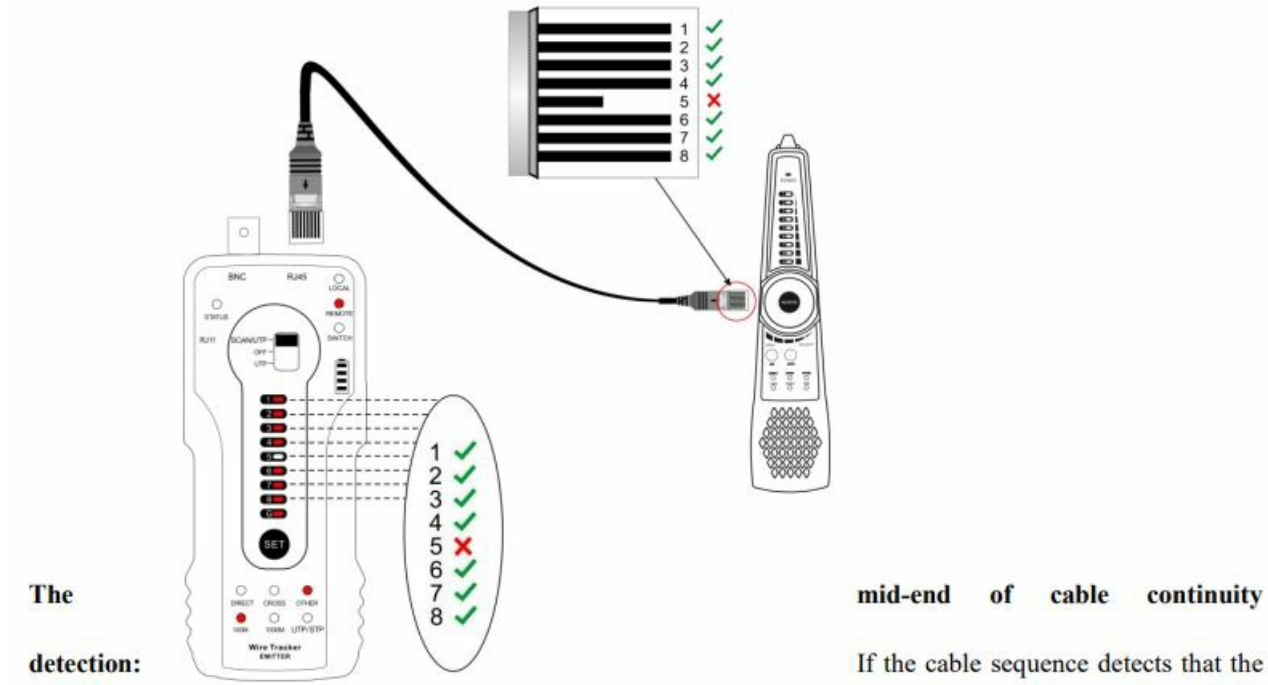
Network cable port continuity detection

- In the UTP mode, press the “SET” key to switch to “LOCAL” mode.
- Local port continuity detection: when the “LOCAL” indicator is on, connect the other end of a network cable to the wire receiver “UTP” port or disconnect the UTP port, the 1-8 and G indicators indicate the continuity status of network cable port or within 1 meter of network port which connected wire tracker emitter.
- As shown in the picture below, the 1st core of the network cable port on the side of the emitter is disconnected, and the 1st indicator is off, which means 1st core of the port is disconnected.



- Under UTP mode, press the “SET” key to switch to the “REMOTE” function
- **Remote end continuity detection:** The “REMOTE” indicator is on, connect the other end of the cable to the UTP port of the Receiver.
- 1-8, G indicator indicates the continuity of the cable port which is connected to the Remote end (Receiver) or the cable within 1 meter from the port. As shown in the picture below, the 5th core of the cable port on the side of the cable tracer (receiver) is disconnected, and the 5th indicator in the 1-8 indicators is off, indicating that the

5th core of the port is disconnected and the other cores are connected.

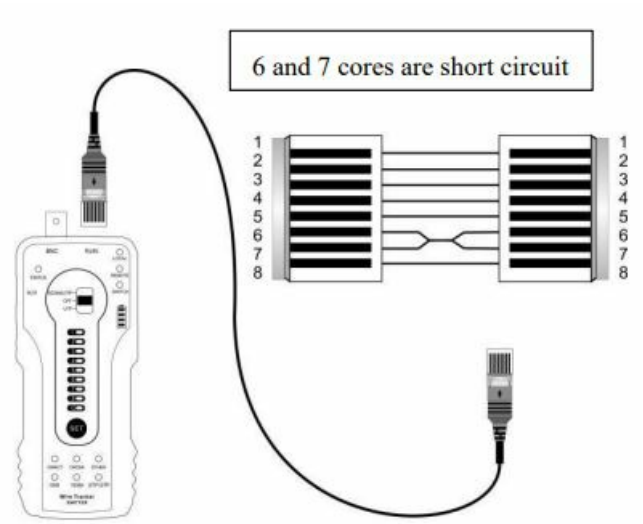


The detection: **mid-end of cable continuity** If the cable sequence detects that the

- cores of the cable are disconnected, and the local/remote cores are detected to be connected, indicating that the break point of the cable is in the middle position away from the ports on both sides.

Short circuit test

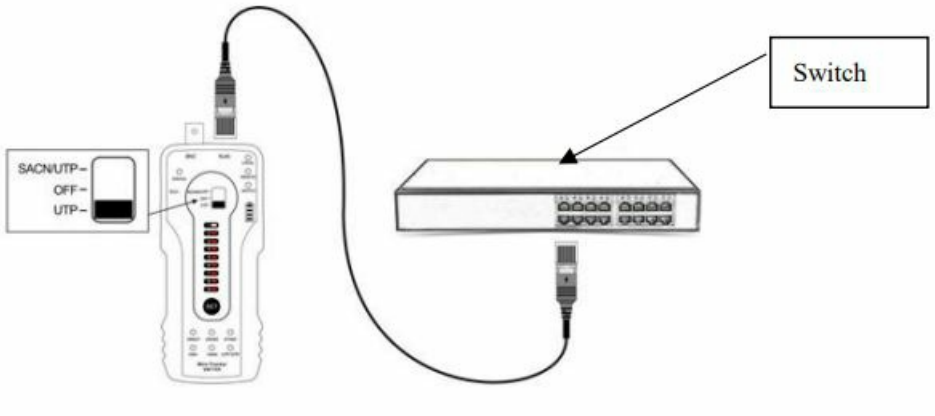
1. **Not connect receiver end**
   Emitter mode: The indicator lights of the short circuit pairs are flashing
   Switch mode: The indicator lights of the short-circuit pairs are on.
2. **Connect receiver end**
   - **Sequence mode:** The indicator lights of the short-circuit pair are on at the same time.
     Emitter and Remote mode: The indicator lights of the short circuit pairs are flashing.
   - **Note:** Under the port mode of the receiver, the indicator lights of the short circuit pairs are flashing.



Continuity detection in the state of connected switches

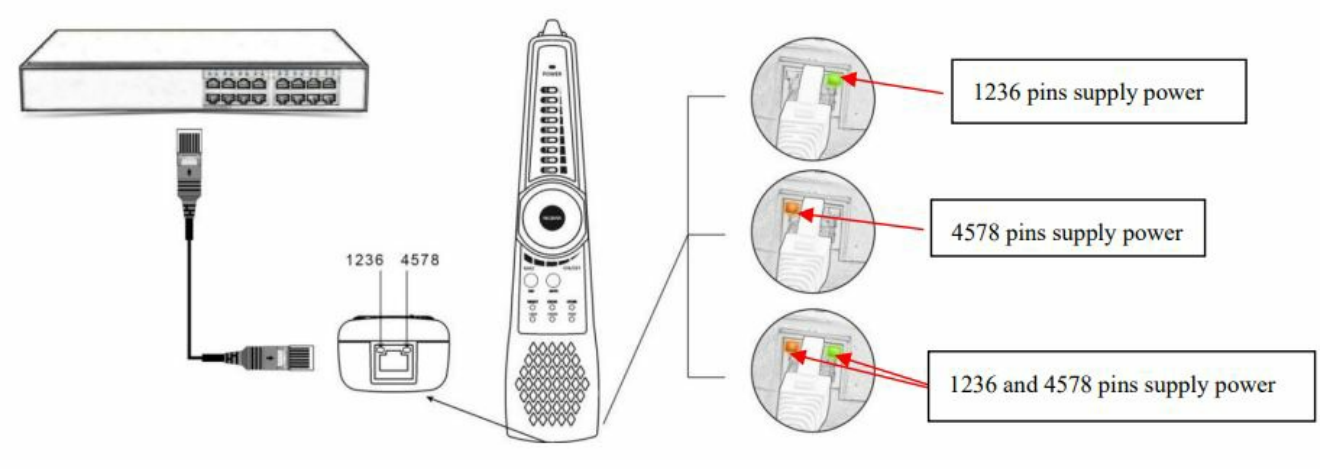
- Under UTP mode, press the “SET” key to switch to the “SWITCH” function. When connected to a switch, 1-8, G indicator indicates the continuity of the cable, lights on means connected, and lights off means disconnected

(The 100M switch is 1236 line connected, the 1000M switch is 1-8 lines connected). In this mode, connect one end of the cable to the RJ45 port of the emitter, and the other end of the cable disconnects to the switch, also detect the short circuit status of the network cable, the indicator light will be on if short circuit.



PD powered detected

- PoE switch or PSE power supply device connected to the “PD” port of the cable tracer, if the indicator light is on, it means PoE voltage output working normal. There are 4 indicator lights of the “PD” port, when testing the pins used of PoE switch for power supply, if 1236 indicator light is ON, it means PoE switch supply power through Pin 1236. If 4578 indicator light is ON, it means PoE switch supply power through pins 4578. If 1236 and 4578 indicator lights are ON, it means device power supply through pins 1236 and 4578.
- Application: Checking the pins used of PoE switch or other device for power supply, to avoid cause cannot supply power or camera and other device damaged.



Other features

- Line DC level and positive/negative polarity testing
- Turn off the emitter, the red and black wire clip of the BNC cable connects to the telephone line or battery, and the other end connects to the BNC port.
- **(Note:** If the telephone cable with welled RJ45 connectors, directly connect the telephone cable to the RJ11 port)
- If the indicator light is in green, that means the red wire clip is positive, and the black clip is negative, if the indicator light is in red, that means the black wire clip is positive, and the red wire clip is negative. The level is higher, the indicator light is brighter, the level is lower, the indicator light is darker.

Specifications

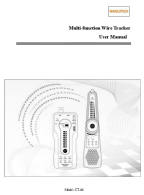
Item	Wire Tracker
Emit signal	Digital signal(rejects noise and false signals)
Cable type	RJ45 Twisted pair, RJ11 telephone line, BNC cable, etc.
UTP cable test	The digital “1-8” for cable sequence shielded cable and shielding layer continuity indicator, check cable type indicator: straight/cross/other, 100M/1000M network cable t est, and near-end, mid-end, far-end continuity testing, UTP cable short circuit test
Continuity test of RJ45 cable connectors	Detect the continuity of the pins on both sides of network cable and short circuits
PD (powered) test	PoE switch power supplying status test and check the pins used for the power supply
LED lamp	Short press On /Off LED light
Silent mode	Long press the key “Mute” to switch to silent mode, find the cable through the indicator
Audio output	Support external audio output
Power supply	
External power supply	Two AA batteries
General	
Working Temperature	-10℃—+50℃
Working Humidity	30%-90%
Dimension	
Emitter Dimension	152mm x 62mm x 27mm /0.12KG
Receiver Dimension	218mm x 48mm x 32mm /0.1KG

WARM TIP:

1. The above data is for reference only, and you will not be notified in advance of any changes in the data.
2. For more detailed technical inquiries, please feel free to contact our After-sales service department **(sales@testerpro.com.cn)**

- **www.cctvtester.com**
- **After-sales service department(sales@testerpro.com.cn)**

Documents / Resources

	WANLUTECH CT-66 Multi Function Wire Tracker [pdf] User Manual CT-66 Multi Function Wire Tracker, CT-66, Multi Function Wire Tracker, Function Wire Tracker, Wire Tracker, Tracker

References

- World leading CCTV Tester, Cable tester, Fiber tester original manufacturer
- User Manual