



MADE FOR LIFE



TDR-100 MULTI-FUNCTIONAL NETWORK CABLE TESTER AND TDR INSTRUCTION MANUAL

Safety Instructions

⚠ Please read this manual carefully before using this product and keep it for future use.

To avoid and prevent electric shock, burns or personal injury, please read this manual carefully.

⚠ WARNING

- Contact with electrical appliances may cause electric shock, serious injury or death. In order to avoid personal injury or death caused by electric shock, please follow the instructions strictly.
- Please read all the contents of this manual carefully.
- Please use the product according to the instructions in this manual, otherwise the protection provided by the product will be disabled or weakened. Please do not use the product if it is damaged, such as a broken shell.
- Do not use this product in the presence of electrical storms, wet days or thunderstorms.
- Do not use this products to detect cable lines with strong electricity (such as 22V power supply lines).
- Do not use this product in an environment where combustible gases, high dust or water vapor are present.
- Do not use products without a battery back cover or with an incorrectly installed back cover.
- The test line must be separated from the line under test before opening the battery back cover. Do not attempt to repair this product, this product does not contain the user's own replacement parts.
- For your safety, please remember "safety first": voltage exceeding 30VAC or 260V DC may cause electric shock.

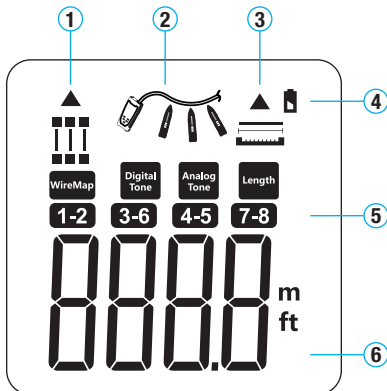
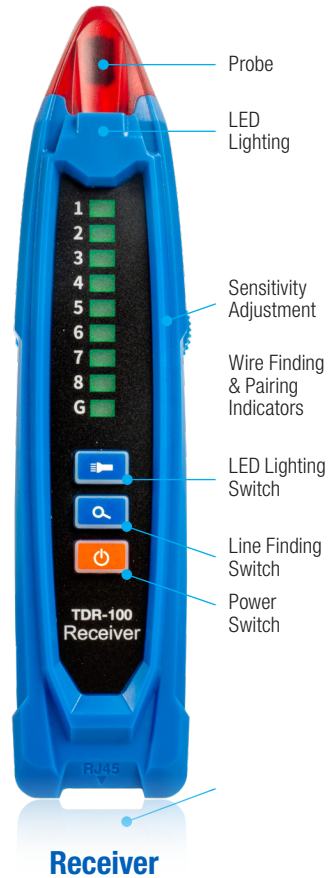
This Product Includes

- Cable Tester & TDR
- Probe
- RJ45 Adapter Cable
- Carrying Case
- (6) AAA Batteries

Overview

This instrument is a handheld cable test tool. Cable applicable types of enhanced functions more applicable to a wider range. It is a necessary test tool for network maintenance personnel, telecommunications engineers, cabling engineers, etc.

Product Interface and Display Symbol Description



1	Wire Map Test Mode
2	Wire Tracking Mode
3	Length Measurement Mode
4	Battery Symbol
5	Network Cable
6	Length Data Display Area

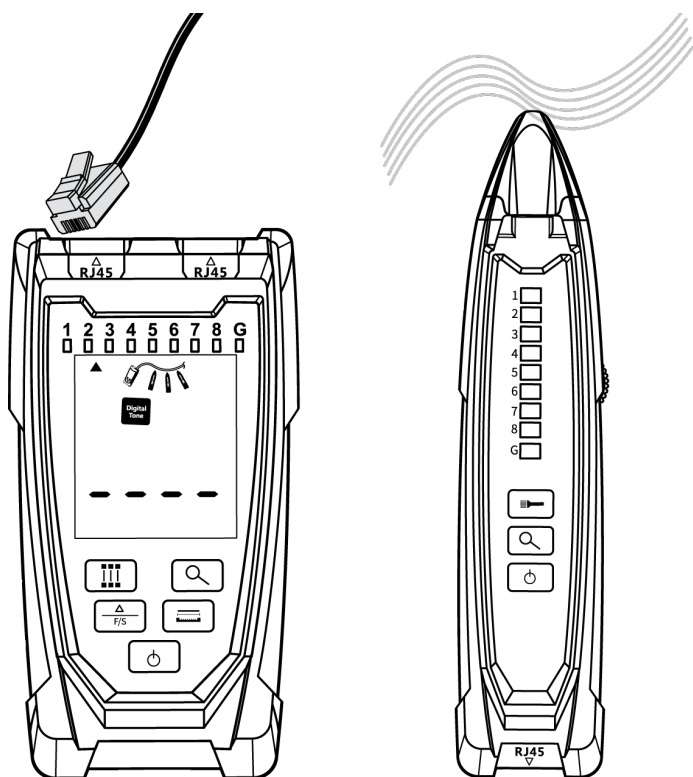
Function Operation

1. Wire Tracking Function:

The Wire Tracking function is to quickly find the desired cable pair among many pairs. This instrument is suitable for RJ45 interface network cables.

Operation Method:

- After power on, press  button to switch the transmitter to the line search function.
- Connect one end of the cable to be tested to the corresponding port of the transmitter (RJ45, or via an adapter).
- The transmitter starts to send an audio signal to the test cable to be detected.
- Turn on the power of the receiver, hold the receiver and short press  key. and then test the other end of the cable under test (such as the junction box, hub, cable stack around the switch, etc. Put the cable probe close to the network cable, the network cable with the loudest sound is what you are looking for. By adjusting the sensitivity knob, it can help you lock in on the target faster.



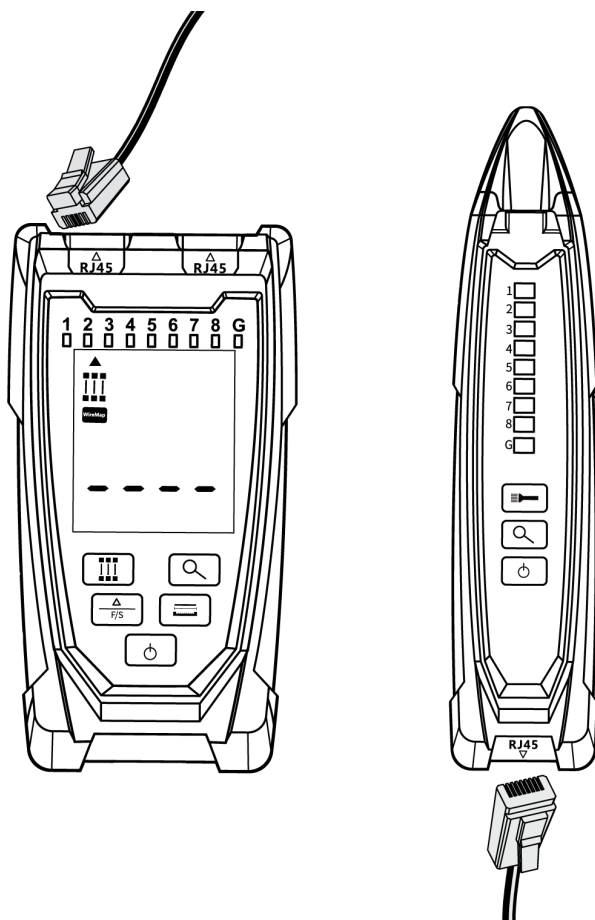
Function Operation

2. Wire Map Test Function:

The wire map test function is to detect the physical connection of the network cable, such as open circuit, short circuit, wrong connection, and reverse connection.

Operation Method:

- Switch the transmitter to the Wire Map function by pressing the  button.
- Plug one end of the network cable into the RJ45 socket of the transmitter (left RJ45 jack), and the other end into the RJ45 socket of the receiver.
- Wire pair indicator will indicate the test result.
- Short press  the button to switch the flashing speed of the LED.



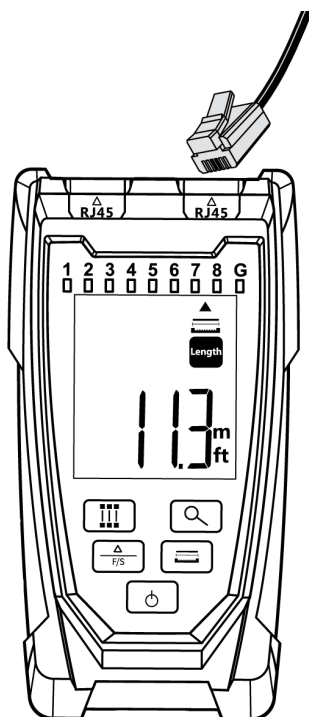
Function Operation

3. Length Test Function:

The length test function is to detect the length and break point of the network cable.

Operation Method:

- Switch the transmitter to the Length Test function by pressing the  button.
- Plug one end of the network cable into the RJ45 socket of the transmitter (right RJ45 jack) the other end needs to be left open (no devices need to be connected).
- The display will show the results for the longest cable distance, short press the  button to switch to view 1-2, 3-6, 4-5, 7-8 cable lengths. Long press the  button to switch the length unit (m/ft).
- The thickness of the cable will affect the length of the test results.



4. Battery Undervoltage Alert:

Transmitter Undervoltage Prompt: When the transmitter battery voltage is lower than the working voltage, the display will show the battery symbol, please replace the battery in time.

General Technical Specifications

Temperature Range	Operating Temperature: 0~40°C, maximum 80% relative humidity (non-condensing)
	Storage Temperature: -10~50°C, maximum 80% relative humidity (non-condensing without battery).
Length Accuracy	±2%+0.5m, the farthest distance of length measurement: <500m
Altitude	<2000m (m)
Explosion-Proof Type	IP 40
Transmitting Signal Distance	>300m
Battery	Transmitter: 1.5V (3) AAA batteries; Receiver: 1.5V (3) AAA batteries
Dimensions	Transmitter: 135 mm x 74 mm x 31 mm Receiver: 198 mm x 43 mm x 32 mm
Weight	Total about 233 g (without battery)

Maintenance

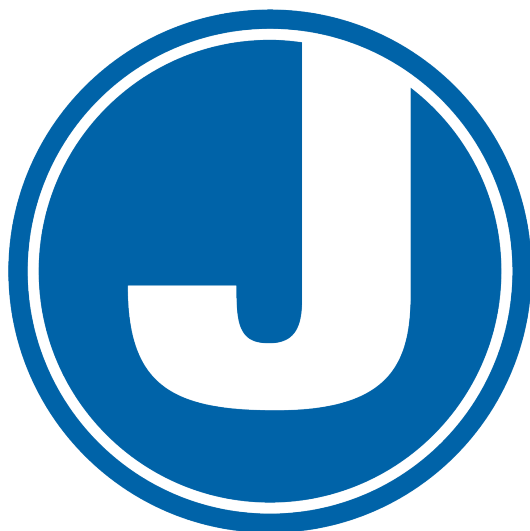
Do not attempt to repair this instrument unless you are an experienced repairer and have the relevant calibration, performance test and repair information.

Clean the instrument housing regularly with a damp cloth and a small amount of detergent. Do not use abrasives or chemical solvents.

Battery Replacement

Please follow the steps below to replace the battery.

1. Use a screwdriver to unscrew the screws of the battery cover.
2. Remove the battery cover and take out the battery.
3. Replace the battery with a new one of the same size.
4. Install the battery cover, and tighten the back cover with screws.



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