

Pro sKit MT-7029N Noise Filtering Network PoE Toner and **Probe User Manual**

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Thank you for purchasing and using the Pro 'sKit MT-7029N Noise Filtering Network PoE Toner & Probe. Please read the instruction manual carefully before using this product, and keep it properly for future review.

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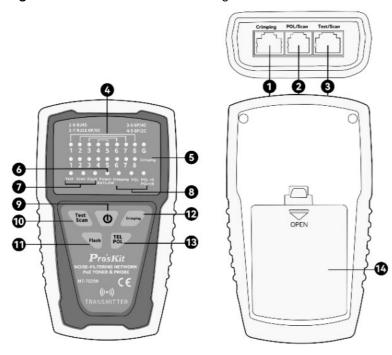
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OVERVIEW

MT-7029N is the new upgrade version with a better noise filtering design. The high-frequency filter circuit technology eliminates the noise and anti-interference line tracer. Suitable for ordinary network, PoE network, UTP / STP cable search, and positioning. The new function can locate the port with flashing signals; check the crimping quality of the plug single-way; be able to trace the wire & cable mapping at the same time. Ideal for all installation & maintenance jobs.

INTRODUCTION

Figure 1. MT-7029N Transmitter Diagram



- 1. Crimping: RJ45 plug crimping quality test socket.
- 2. POL/Scan: Scan & telephone line test socket
- 3. Test/Scan: RJ45 cable map test & scan socket.
- 4. 1~8/G: Cable map & Shielded indicator
- 5. 1~8: RJ45 plug crimping quality test indicator.
- 6. Power/BAT LOW: Power ON/OFF & Battery low indicator

7. Function indicator:

Test: Cable map & Shielded function indicator.

Scan: Locating and isolating cables function indicator.

Flash: Network port flashing function indicator.

8. Function indicator:

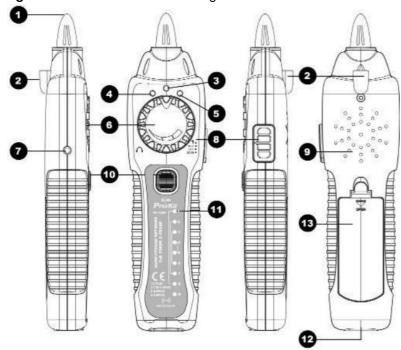
Crimping: RJ45 plug crimping test function indicator.

POL: Telephone line + / – pole test function indicator.

POL'/**G'POL**'/**R:** Phone line polarity indicator.

- 9. Power ON/OFF button.
- 10. **Test/Scan:** Cable map test & Scan function button
- 11. Flash: Network port flashing function button.
- 12. Crimping: RJ45 Plug crimping quality test button.
- 13. **TEL/POL:** Phone line polarity function button.
- 14. Battery cover.

Figure 2. MT-7029N Receiver Diagram



- 1. Probe: Wire tracing and NCV detection.
- 2. LED light.
- 3. Power ON/OFF indicator.
- 4. NCV indicator.
- 5. Signal status indicator.
- 6. Volume control.
- 7. Earphone socket (PP).
- 8. Function switch (LED light/NCV/OFF/SCAN mode).
- 9. Speaker.
- 10. Cash Locating and tracing cables function button
- 11. E1~8/GZ Cable map & Shielded indicator
- 12. RJ45 (8 pin) / RJ11 (6/4/2 pin) cable mapping test socket.

SPECIFICATIONS

MT-7029N Transmitter specifications	
Wire tracing	RJ45 Lan cable Cat5, 5e, 6, 7 (UTP/STP), RJ11/12 tel ephone cable
	Voltage 8Vp-p
	Frequency 455KHz
	Tracing distance 600m
Cable mapping	RJ45 Test/Scan socket for RJ45 RJ11/RJ12 locating I ndividual wire pairs
	8+1 LED indicators.
	Test distance max.: 300m
Crimping Test	For RJ45, RJ11/RJ12 plug
	8 LED indicators
Port Flash	1 LED indicator
Telephone line POL +/-	1 dual color LED: POL-(Green3/ POL+(Red3
Auto power off	1 hour
Low battery indication	About 7.0V; power indicator will flash.
Voltage protection	DC 60V
Battery	9V (NEDA 1604/6F22) x1pcs
Working current	Tracing/Cable map/Crimping <35mA; Port flash<110m A
Dimension	L138 x W80 x D35mm
Weight	142g
MT-7029N Receiver Specifications	
Frequency	455KHz
Tracingindication	1 LED indicator & speaker
Cable mapping	RJ45 socket
Cable mapindication	8+1 LED indicators
NCV	1 LED indicator & speaker (AC 90-1000V)
Earphone	Ф3.5mm socket
Lighting	1 LED
Low battery indication	About 7.0V; power indicator will flash.

Battery	9V (NEDA 1604/6F22) x1pcs
Working current	Tracing <200mA; lighting<50mA
Dimension	L203 x W50 x D32mm
weight	95g
Accessories	RJ45 cable patch cords x2, RJ11 cable patch cords x 2, RJ11 to alligator clips patch cord x1,earphone x1, st orage bag, user manual.

OPERATION

MT-7029N Transmitter+



Do not connect with DC 60V live circuit equipment or it might cause damage.

Cable Mapping

This function is to check the network cable connection is good or not. To connect the cable with the transmitter and receiver, by viewing the transmitter and receiver 1-8 / G indicators to verify the network cable connection situation. It can test the network cable straight, short, open, and crossover. You can also connect the transmitter directly to the network switch or the network interface test the cable connection. **The operation is as follows:**

- 1. Insert the cable into the transmitter the ETest/ScanZsocket and the other end into the receiver socket.
- 2. Press the 💇 Zbutton, the power indicator is on.
- 3. Press theETest / ScanZbutton, theETestZindicator will light, and the cable mapping will be started automatically.
- 4. There are four results as following examples:
- · Straight:
 - **T:** 1-2-4-6-7-8 T: 1-2-4-6-7-8-G
 - **R:**1-2-4-6-7-8 R:1-2-4-6-7-8-G
- Crossover:
 - **T:** 1- -4-6-7-8 T: 1-2-4-L-6-7-8
 - **R:**1-2 -4-L-6-7-8 R:1- -4-6-7-8
- · Open:
 - T: 1-X-4-6-7-8
 - **R**:1-X-4-6-7-8
- Short:
 - **T:** 1-2-Í-6-7-8 T: 1-2-4-L-6-7-8
 - **R**:1-2–Í-Ļ-6-7-8 R:1-2–Í-Ļ-6-7-8

Wire Tracing

This function is using the transmitter to send the signals and the receiver to receive the signals with an audio alarm. It has strong noise-filtering design, and you can identify the correct wire easily. Specific

operations are as follows:

- 1. Insert the tracing wire into the transmitterETest / ScanZorEPOL / ScanZsocket.
- 2. Turn the transmitter, pressETest / ScanZbutton twice, the EScanZ indicator will light, and the transmitter will send the signals.
- 3. The transmitter will send the signals and check the cable status at the same time. You will know each line status through the indicator led (1-8).
- 4. Turn on the receiver and you will hear a beep sound means the machine is on. The power indicator will light.
- 5. Rotate the adjustable sensor knob clockwise to turn the sensitivity to the maximum. Press & hold the ESCANZ button. The receiver will be receiving the signals from the transmitter, once it receives the signals, it will send audio alarm, so you can find the correct wire.
- 6. When tracing the wire, you need to press & hold the receiver ESCANZbutton. The receiver will stop receiving signals once you release the button. Kindly remind you to remove the battery after using it to save energy.
- 7. You might receive signals from more than one wire. In this case, please try to rotate the adjustable sensor knob counter-clockwise to lower the sensitivity, and you will be able to find the correct wire

Plug Crimping Quality Check

- 1. Insert the network cable into the transmitterECrimpingZsocket.
- 2. Press the button to turn on the transmitter and press the ECrimpingZbutton.
- 3. The transmitter will start to check the cable pin to pin and the indicator of ECrimping Z1-8 will light up if all the connection example as follows, the 2 & 5 pin are broken. 1-X-4-X-6-7-8

Port Flash

This function will help you to locate the port quickly, the transmitter will send the flashing signals, so you can easily determine the correct port.

- 1. Insert the network cable into the transmitterETest/ScanZsocket and the other side to network switch.
- 2. Press the UZ button to turn on the transmitter, press the EFlash Z button, the EFlash Z indicator will light or flash.
- 3. Check the indicators on the network switch, If the indicator flash around every 3 seconds, the corresponding port is the correct port.

Telephone Line POL +/-

This function is suitable for testing and determining the polarity of a telephone line.

- 1. Insert the alligator clip RJ11 cable into the transmitter EPOL/ScanZ socket.
- 2. Press the 🖤 Z button to turn on the transmitter, press the ETEL/POLZbutton , theEPOLZindicator will light.
- 3. Clip the red and black alligator each side of the telephone line, and the indicator will light.
- 4. If the indicator light is red, the red alligator is on the positive pole & the black alligator is on the negative pole. If the indicator light is green, then the red alligator is on the negative pole & the black alligator is on the positive pole

Non-contact Voltage Detection (NCV)

This function is used to determine if there is a live circuit, the detection range is AC90-1000V (50 / 60Hz)

• Turn on the receiver and switch to the NCV position, move the receiver probe close to the test subject. If the AC voltage is detected, the speaker will send an audio alarm in different frequency. The higher frequency the higher voltage is.

Note:

- This function is for reference, the voltage may still remain even there is no detection. There are many possible factors might block the detection.
- There are some factors (like flashlight and motor) might also trigger non-contact voltage detection.

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Documents / Resources



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