

Noise-Filtering Network PoE Toner & Probe

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.

OVERVIEW

MT-7029N is a new high-frequency filter circuit technology, with the elimination of noise and anti-interference line tracker, Suitable for ordinary network, PoE network, UTP / STP cable search and positioning. The interface on the network can be located through the port flashing function. Diagnosing the straight, short, open, and crossover conditions of the RJ45 network cable, and RJ11 / 12 telephone cable. Use this instrument to check the cable plug crimping and confirm the positive and negative polarity of the telephone line. Accessory alligator clips that can be used to test coaxial cables, general wiring, and telecommunications / network cables. This product is suitable for telecommunications, network communication, monitoring, CATV and other indoor and outdoor wiring construction or maintenance projects.

INTRODUCTION

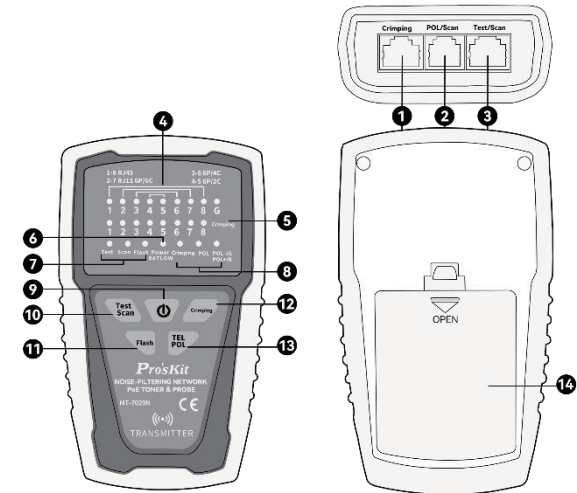


Figure1. MT-7029N Transmitter Diagram

1. 「Crimping」：RJ45 plug crimping 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 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 test button
13. 「TEL/POL」：Phone line polarity function button
14. Battery cover

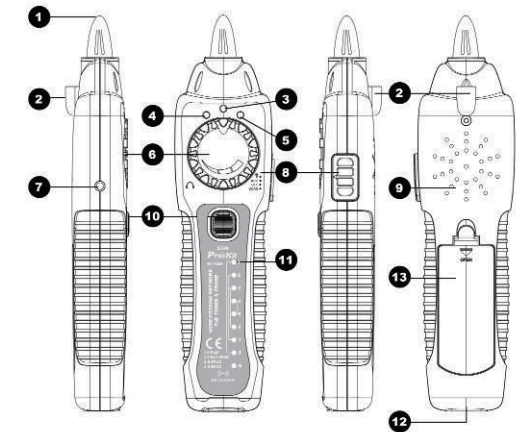


Figure 2. MT-7029N Receiver Diagram

1. Probe: Used for cable 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 (Φ3.5mm)
8. Function switch (LED light/NCV/OFF/SCAN mode)
9. Speaker
10. 「」 Locating and tracing cables function button
11. 「1~8/G」 Cable map & Shielded indicator
12. RJ45(8 pin)/ RJ11 (6/4/2 pin) cable mapping test socket.
13. Battery cover

SPECIFICATIONS

MT-7029N Transmitter specifications	
Cable tracing	for RJ45 Lan cable Cat5、5e、6、7（UTP/STP），RJ11/12 telephone cable
	Signal Voltage 8Vp-p
	Signal frequency 455KHz
	Tracing distance 600m
Cable map test	RJ45 Test/Scan socket for RJ45 locating
	Individual wire pairs
	RJ11 POL/Scan socket for RJ11 locating
	Individual wire pairs
8+1 LED indicators	
Test distance max: 300m	

Crimping Test	Crimping socket for RJ45 、 RJ11/RJ12 crystal plug
	8 LED indicators
Port Flash	1 LED indicator
Telephone line POL +/-	1 dual color LED: POL-（Green）/ POL+（Red）
Auto power off	1 hour
Low battery indication	About 7.0V; Power LED flashing.
Voltage protection	DC 60V
Battery	9V（NEDA 1604/6F22）x1pcs
working current	Tracing/Cable map/Crimping <35mA; Port flash <110mA
Dimension	（LxWxD）138x80x35mm
weight	142g
MT-7029N Receiver Specifications	
Response frequency	455KHz
Tracing indication	1 LED indicator & speaker, anti-noise and sensitivity adjustable
Compatible connectors	RJ45 socket
Cable map	8+1 LED indicators
NCV	1 LED indicator & speaker（AC 90-1000V）
Earphone	Φ3.5mm socket
Lighting	1 LED
Low battery indication	About 7.0V
Battery	9V（NEDA 1604/6F22）x1pcs
working current	Tracing <200mA; lighting<50mA
Dimension	（LxWxD）203x50x32mm
weight	95g
Accessories	RJ45 cable patch cords x1、RJ11 cable patch cords x1、RJ45 to alligator clips patch cord x1、RJ11 to alligator clips patch cord x1, earphone x1, storage bag, user manual

OPERATION

MT-7029N Transmitter:

 Do not connect with DC 60V live circuit equipment or it will result damage.

▲ Cable map test:

This function is to check whether the network cable jumper connection is normal. Network cable connection to the transmitter and receiver, by viewing the transmitter and receiver 1-8 / G indicator light lit to judge the network cable connection situation, can test the network cable straight, short, open, crossover and other faults. You can also use the transmitter to directly connect to the network switch or the computer network card to test whether the RJ45 jumper connection is on or broken. The specific operation is as follows:

1. Insert the pending network cable into the transmitter 「Test/Scan」 socket and the other end into the receiver socket.
2. Press the “” button, the power indicator is on.
3. Press the 「Test / Scan」 button , the "Test" indicator will illuminate, the line order / fault test starts, and the line order indicates of the LED to start the scanning display.

4. Interpreting the results:
 - Straight:** The LED of the transmitter and receiver will flash one by one. The “G” indicates shield connection or no connection.

T: 1-2-3-4-5-6-7-8 T: 1-2-3-4-5-6-7-8-G
R:1-2-3-4-5-6-7-8 R:1-2-3-4-5-6-7-8-G

- Crossover:** If pin2&5 is cross, when LED2 of the transmitter lights. LED5 of the receiver light at the same.

T: 1--3-4-5-6-7-8 T: 1-2-3-4--6-7-8

R:1-2-3-4--6-7-8 R:1--3-4-5-6-7-8

- Open:** If pin 2 is open, the LED2 of the transmitter and the receiver will not light;

T: 1-X-3-4-5-6-7-8

R:1-X-3-4-5-6-7-8

- Short:** If pin 4&5 is short, the transmitter 1~8/G LED light up in order, The 4&5 led in 1-8 / G LED on the receiver are lit simultaneously, but are dark.

T: 1-2-3--5-6-7-8 T: 1-2-3-4--6-7-8

R:1-2-3---6-7-8 R:1-2-3---6-7-8

The telecom cable map

6P6C: LED 2~7 must light up and the other LED are off.

6P4C: LED 3~6 must light up and the other LED are off.

6P2C: LED 4~5 must light up and the other LED are off.

For telecom cable status indication: crossover、open or short, Fault display mode is the same as RJ45 network cable.

▲ Cables tracking:

This function is used to transmit signals to the network cable through the transmission signal from the audio transmitter, the receiver receives the audio signal transmitted by the network cable to find the target network cable, and can simultaneously check the network cable connection or disconnection. This product has the characteristics of signal anti-interference, clear audio sound. Specific operations are as follows:

1. Connect one end of the target line to be found to the transmitter 「Test / Scan」 /RJ45 or 「POL / Scan」 /RJ11 socket.
2. Press the transmitter power button to turn on, the "Power / BAT LOW" light is on, then press the "Test / Scan" button twice, the "Scan" function light is on, the transmitter begins to transmit the signal.
3. With the transmitter transmits signals, the line order indicator led (1-8) will be scanned at the same time and lit in order to easily determine the connection situation of the network cable. If the indicator led in the 1-8 indicator lamp is not on, it indicates that the line is open.
4. The receiver function switch is switched on to the "Scan" or "lighting" position, and the receiver will "tick", and the receiver power indicator lights on.
5. The receiver sensitivity adjustment knob rotates clockwise to the maximum, and then hold down the receiver SCAN button, the

receiver probe close to the network cable, when the receiver sounded, indicating that the receiver probe touched the network cable is the target line to be found.

6. When tracing, you must hold the receiver“SCAN”button, release the button to enter the standby state, and cannot receive the signal. After work, please turn off in time to save the battery.
7. Maybe several cables near the network interface are ringing same time (different by network switch) when tracing, this is because the transmitter transmits audio signal to the internal circuit of the switch at the same time. you can rotate the receiver sensitivity knob counter clockwise, reduce the reception sensitivity to achieve to find the target cable.

▲ Plug crimping checking

This function can check whether the network plug quality, just plug in the transmitter "Crimping" test socket can judge plug pass or fail.

1. Insert the pending network cable into the transmitter 「Crimping」 socket.
2. Press the “” button then press the 「Crimping」 button , the "Crimping " indicator will illuminate.
3. Insert the network cable plug into the transmitter「Crimping」socket, the crimping "1-8" indicator will illuminated at the same time, if the indicator light is not on, the plug pin corresponding to the indicator is not connected to the network wire core. refer figure below, the 2 and 5 lights are not on, indicating that the PLUG second and fifth pins are not connected to the network cable.
1-X-3-4-X-6-7-8

▲ Port Flash

This function transmits the pulsing signal through the transmitter to flashing the LED indicator of the network switch, then can locate the interface of the network cable on the switch.

1. Insert the pending network cable into the transmitter 「Test/Scan」 socket.
2. Press the “” button, then press the「Flash」button , the " Flash " indicator will illuminate or flashing.
3. Check the indicators of the interface on the network switch, If the indicator light flashing every about 3 seconds, the corresponding network interface is the interface you want to find.

▲ Telephone line POL +/-

This function is suitable for testing and determining the positive and negative poles of a telephone line.

1. Insert the alligator clip patch RJ11 into transmitter “ POL / Scan” socket.
2. Press the “” button, then press the 「POL TEL」button , the " POL " indicator will illuminate.
3. Put the red and black alligator clip to the core of the telephone line, and the  indicator light is lit.
4. When the indicator light is bright red, the red alligator is caught on the positive pole of the telephone line, the black alligator is the negative pole; when the indicator light is bright green, the red alligator is caught on the negative and the black alligator is positive.

▲ Non-contact Voltage detection（NCV）

This function is used to determine whether the wire or equipment has an AC voltage, the detection range AC90-1000V（50 / 60Hz）.

- Push the receiver function switch to the NCV position, put the receiver probe close to the target body, if the AC voltage is detected, the speaker emits an alarm sound of different frequency, the speaker rapid sound indicates a high voltage or fire line, the slow sound may be low voltage or zero line.

Note:

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

NOYAFAR[®] 精明鼠[®] 深圳市诺方舟电子有限公司											
编号	201	202	301	302	303	304	305	比例:	1:1	品号:	304-B1403-0015
类目	塑胶件	五金类	镜片	PVC贴纸	不干胶贴	说明书	包装盒	单位:	mm		
选择						√		设计	ZJL	品名:	MT-7029N说明书-V2 20260409
306	307	308	309	310	311	312	313	核准			
彩卡	吸塑	工具包	PE袋	纸箱	宣传单	合格证	打印标签	标准:	√	文件类型:	大货文件
								定制:			
制作日期		2026.04.09		样式	3折页再对折		印刷材质		128G双铜纸		
印刷要求		单色		页码			变更记录		V2较V1客户提供新文件		
尺寸大小		295*420mm		版本	V2						