



MODEL: GM60

Wire tracker
Instruction manual



Standard: Q/GMY 020-2015
Version: GM60-EN-02

FGJ-NDT.IR
DIGINDT.IR

A. Safety Information

1. Warning:

To prevent electric shock and personal injuries, please do not:

- ▶ Trace the cable with strong current lest personal injuries and/or equipment damage occur.
- ▶ Use the unit in thunder storm weather lest it results in personal injury and/or equipment damage.

2. Cautions:

To avoid the damage of the device and the detected, please pay attention to the following:

- ▶ Do not use the cable order verifying function for the cable that has electricity.
- ▶ Take out the batteries if the product is expected not for use for long time, to avoid erosion of the battery leakage which may result in poor battery contact.
- ▶ Do not dismantle the device. Please contact the local dealer to repair the product by authorized technicians.

B. Introduction

The product is a professional networking cable inspection device that contains wiring tracing, cable order verifying and wiring faults inspection functions.

The product contains following functions: :

1. Long distance wiring tracing.
2. Internet cable order verifying .
3. Wiring voltage existence inspection.
4. Wiring voltage positive or negative characteristic measuring.
5. Wiring shorts inspection.
6. Low battery indication.
7. Tracing sensitiveness and volume adjusting.
8. Headphone jack output.
9. Flashlight.

+982165565901

+982144584619

+989034119385

C. Operation Instructions

a. Power on/off (POWER)

Press the power button for 2 seconds to turn on the device and the power indication light lights; press the power button for 2 seconds to turn off the device.

b. Cable Tracing Function (SCAN)

The cable tracing function helps users to the isolate the cables that they want from a bundle (such as Internet cable, telephone cable and video cable). There are two tracing modes. First mode is the default mode when turn the device on. Second, press any button of the SCAN buttons, and switch back to the tracing mode from any other modes, the SCAN light lights at the same time. Plug one end of the wire into the transmitter's RJ11/RJ45 interface directly or through the alligator clip. Press the SCAN button on the receiver; detect surrounding area of the other end of the cable (such as cable terminal, phone distribution frame, terminal box, computer network distribution frame). Comparing the sound level, the targeting cable has the loudest sound. In a noisy environment, if the sound is not very obvious, press any button of the SCAN buttons to switch the signal frequency, in order to identify if the sound signal is effective or not.

c. Cable Order Verifying (TEST)

The cable order verifying function helps users to detect these characteristics such as open circuit, short circuit and mis-wiring of the cable.:

1. UTP computer network cable of IEEE 10Base-T, EIA/TIA 568A, EIA/EIA568B, AT&T258A, Token-Ring etc. standards ;
2. 2 core and 4 core etc. telephone cables;
3. Any other metal cables

Press any button of TEST buttons to enter into the cable order verifying mode, OHM light lights, and the SCAN light flashes. Put one end of the testing cable

Tehran, Tehransar

into the RJ45 interface of the transmitter, and plug the other end into the RJ45 interface of the receiver. Judge the condition of the wiring, based on the 8 indication lights on transmitter and receiver. When the cable is normal, the lights would light in sequence. The cable order verifying function could test the condition of the shielding circuit (G), indicated by the 9th light. The cable order verifying function could be measured in either fast or slow mode.

d. Cable Voltage Test (V)

Cable voltage test function is designed to inspect some basic attributes of the wiring, such as the existence and positive or negative characteristic of the voltage. This function only requires the transmitter. Press the V button; get into the cable voltage test mode, VOLT light turns on. Plug the alligator clip into the RJ11 socket of the transmitter, and clip the Red & Black clip to the measuring wiring, or plug the RJ11 telephone line directly into the RJ11 interface. The OHM or SCAN light would light, if there is a phone line voltage. When the SCAN light lights, the red alligator clip connects the anode, on the other hand, it is cathode, when the OHM light lights. This product is designed for weak current, such as phone line, do NOT use for strong current, in case of electric shock and damage of the equipment.

e. Cable Shorts Inspection (Ω)

It is designed to detect the telephone cable (not connected to the network) whether or not has shorts. Press the Ω button, and the OHM light lights. Plug the alligator clip into the RJ11 socket on the transmitter, clip the Red & Black clip to the measuring wiring, or directly plug into the transmitter, for the phone that has Crystal head. When the Scan light lights, it indicates there is a short.

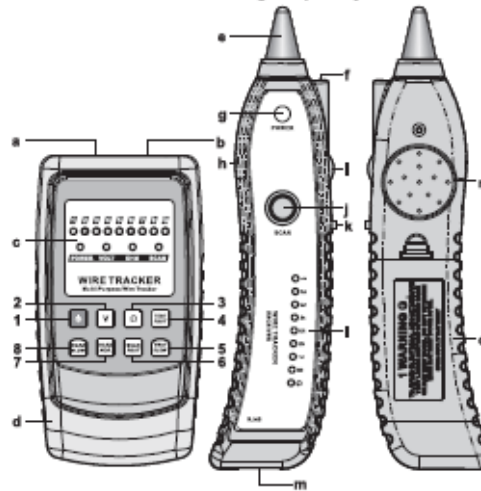
D. Components & Buttons

1. Name Of The Components:

- a. RJ45 interface
- b. RJ11 interface
- c. Function indication light
- d. Housing
- e. Signal tracing sensor
- f. Flashlight
- g. Operation indication light
- h. Headphone jack
- i. Volume control wheel
- j. Scan cable tracing button
- k. Flashlight switch
- l. Cable order verifying lights section
- m. RJ45 cable order verifying socket
- n. Audio output
- o. Battery door

2. buttons:

- (1) Power: power button
- (2) V: Voltage testing button
- (3) Ω: Cable shorts, opens inspection
- (4) TEST FAST: Fast cable order verifying button
- (5) TEST SLOW: Slow cable order verifying button
- (6) SCAN FAST: Fast tracing frequency button
- (7) SCAN NOR.: Normal tracing frequency button
- (8) SCAN SLOW: Slow tracing frequency button



E. Wiring Instruction

1. Alligator clip wiring: Plug into the RJ11 interface, and clip the other end by the Red & Black clip.
2. RJ45 Crystal head wiring: Plug one end into the RJ45 interface on the transmitter, and plug the other end to the network port.
3. RJ11 Crystal head wiring: Plug one end into the RJ11 interface on the transmitter, and plug the other end to the telephone port.

F. Others

- ▶ Please change the battery, when the transmitter power indication light is flashing or the receiver's tone is distorted.
- ▶ The stronger signal, the higher volume is, so please turn down the volume, in order to reduce the energy consumption.

G. Specifications

Dimension	Transmitter	Receiver
Weight	119.2g	68.8g
Dimension	64*31*119mm	48.6*26*177mm
Power	1.5V AAA*3batteries	6F22 9V battery
Signal Tracing	>1km	
Transmit Distance		
Display	LED	
Operating Temperature	-10 ~40°C (14 ~ 104°F)	
Operating Humidity	10-95%RH	
Storage Temperature	-20 ~ 60°C (-4~140°F)	

Specific Declarations:
Our company shall hold no any responsibility resulting from using output from this product as an direct or indirect evidence.
We reserves the right to modify product design and specification without notice.

