BENETECH®

MODEL: GM62

Wire tracker
Instruction manual

Version：GM62-EN-02

A、Safety Instructions

1. Warning：

To avoid electric shock or personal injury, please be aware of the following instructions:

- ►Do not directly checkcables that has been connected to strong electric current (such as electrical wires at home), otherwise personal injury and equipment damage might be caused.
- ►Prevent from thunder and lightning when using this product in thunderstorm day, in case that wire line may induce lighting and cause personal injury or equipment damage.

2. Attention：

To avoid causing damage to the instrument or equipment under test, please pay attention to the following instructions:

- ► Do not use testing function on live lines.
- ►If you are not going to usethe productfor a long time, please remove the battery, so as to avoid poor contact resulting from leakage of battery cells.
- ►Do not open the caseat random, please contact professional personnel for maintenance.

B、Introduction

This product is a professional network cable testing instrument that boasts functions ofline scanning, line testing and fault finding

Specific functions of the product are as follows:

1. Line scanningfrom a long distance
2. Testing of network line order
3. Detection of line voltage
4. Polarity judgmentof line voltage
5. Short circuit check
6. Volume adjustment during line scanning
7. Output function of headphone jack.
8. Flashlight function.

C、Operation Instruction

A.POWER on/off

Short press power button to turn on the instrument and the power light; then press power button to turn off the instrument.

B. Line scanning function

The scanning function of the product is to quickly find out theline pair you need (such as network lines, telephone lines, video signal lines) amongnumerous line pairs. Under the scanningstate, the SCAN indicator light is on. Connect one end of the line to be tested directly or through alligator clip into RJ11 / RJ45 connector of the transmitter. The scan signal sent by the instrument is transmitted in the inserted line. Press the SCAN button on the receiver and listen to the other end of the line to be tested (e.g. line terminal, distribution frame of telephone system, terminal box, hub side of computer network), and the receiver beeps.Compare the volume of "beep" sound, the line pair with the most intensive "beep" sound is the one that you look for.

In a noisy environment, if the "beep" sound is not obvious, you can adjust volume.

When measured under full power state, the effective measurement distance of the product is 1000 meters or less. You have to make sure that there is no connector in the measured cable.

C. Testing function (TEST)

Testing function of the product can enable you to quickly test the basic physical connection characteristics such as open circuit, short circuit and line order of the following lines:

1、Standard UTP computer network cablesuch as IEEE 10Base-T, EIA / TIA 568A, EIA / EIA568B, AT & T258A, Token-Ring;
2、2 core, 4 core and other telephone lines;
3、Any other metal cables.

Press any key of TEST to enter testing state with OHM light shining lastly and SCAN light flashing. Connect one end of the measured line with the transmitter's RJ45 socket,the other end with the

receiver's RJ45 socket.Decide whether the line state is good or badbased on the eight line indicators (1, 2, 3, 4, 5, 6, 7, 8) ofthe transmitter and receiver. If the state is normal,the corresponding indicators will light up one by one.

Testing function of the product line can test outwhether the shield line (G) is good or bad, which will be indicated by the 9th indicator.

This product has two manners of testing, fast line testing and slow line testing.

D. Line voltage test (V)

Voltage testing function of the product can make qualitative measurement on some basic conditions of the tested line, including existence of line voltage and positive and negative polarity of the voltage. The test of line voltage can be done by the transmitter without the use of the receiver. Press the V key to enter into line voltage testing state, and VOLT indicator will light up. Plug one end of alligator clip adapter into RJ11 socket of the transmitter, clampthe red and black clips on the measuredline, orplugthe telephone line withRJ11 directly into RJ11 socket; if the telephone line has voltage,OHM or SCAN indicator of the instrument will light up, otherwise it will not light. If SCAN indicator lights up, red alligator clip is positive; if OHM indicator lights up, red alligator clip is negative.

This function is mainly for the weak current of telephone lines. Do not use the product to measure other strong lines, otherwise it will damage the product and induce the risk of electric shock.

E. Short circuit test (Ω)

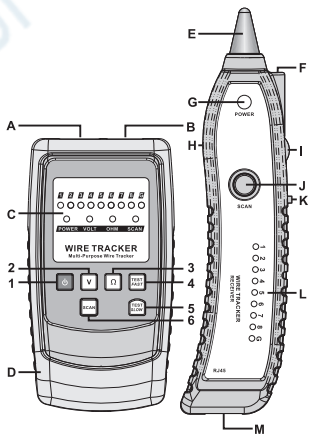
Short circuit test is used to measure whether the telephone line (telephone line with no access to the network) has short circuit. Press the Ω key to enter into short circuit testing state and OHM indicator will light up. Plug one end of the alligator clip adapter into RJ11 socket of the transmitter, and clamp the tested line with red and black clips. If the line is shorted, the SCAN indicator will light up. For the telephone line with registered jack, plugging directly into the transmitter's RJ11 port will do.

This function can also testshort circuit of other line.

D、Name of parts and buttons

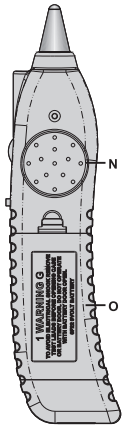
1. Name of parts

A. RJ45 connector
B. RJ11 connector
C. Function indicator
D. Protection case
E. Sensor head of signal searching
F. Flashlight
G. Working indicator
H. Headphone jack
I. Volume adjustment turntable
J. SCAN button
K. Flashlight switch
L. Display zone of Testing lights
M. RJ45 testing socket
N. Sound output
O. Battery door



2. Names of buttons：

（1）POWER：Power button
（2）V：Line voltage test button
（3）Ω：Short circuit test button
（4）TEST FAST：Fast test button
（5）TEST SLOW：Slow test button
（6）SCAN ： Scan button



E、Wiring Instruction

1. Alligator clip adapter line: plug one end into RJ11 port, the other end of the clip used to clamp the object.
2. RJ45 registered jack line: plug one end intoRJ45 port of the transmitter, the other end into the network cable port of RJ45 socket on the wall.
3. RJ11 registered jack line: plug one end into RJ45 port of the transmitter, the other end into the telephone line port of RJ11 socket on the wall.

F、Other Items:

- ► Replace the battery when power indicator ofthe transmitteris flashing or the sound of receiver is distorted.
- ► The stronger the signal is, the greater the volume is. please adjust the volume, in case that big volume will consume too much power.
- ► Low power prompt function of transmitter and receiver, The power lamp of the transmitter and receiver will flash once in 1s. Please replace the battery.

G、Specifications

Dimension	Transmitter	Receiver
Weight	119.2g	68.8g
Dimension	64*31*119mm	48.6*26*177mm
Power	1. 5V AAA*3 batteries	6F22 9V batteries
Signal Tracing Transmit Distance	>1km	
Display	LED	
Operating Temperature	-10 ~40℃ (14 ~ 104℉)	
Operating Humidity	10-95% RH	
Storage Temperature	-20 ~ 60℃ (-4~140℉)	

Specific Declarations:
Our company shall hold no any responisibility 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.

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