

*Your excellent helper in cable test!*

NF-B509

## Wire Tracker with Multimeter

### User Manual



*Your excellent helper in cable test!*



VER: V1



Please read the manual carefully before operating this unit.

- ⊛ Both Transmitter and Receiver were powered by Lithium Battery.
- ⊛ Don't put the device in dusty, wet or hot (above 40 °C ) place.
- ⊛ Don't disassemble、maintenance the device without profession knowledge.
- ⊛ Pls get out the batteries for.
- ⊛ Pls don't use the device for telecommunication in thunderstorm to keep safe.

# MENU

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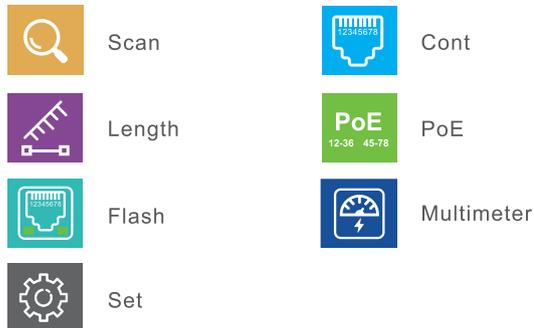
## Buttons and Ports Instruction

**Main Functions:** Main Functions: Scan / Continuity Test/ Cable Length Measurement / PoE Testing / Port Flash/ Multimeter / Set.

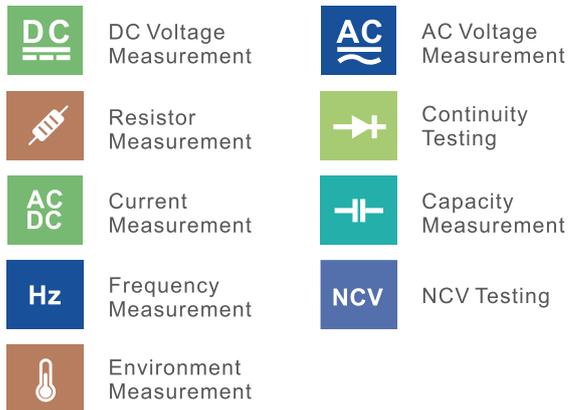


## UI Icon Instruction

### 1. Main Menu



### 2. DDM Function Icon



# Functionality Instruction

## 1. Scan

**Two Modes:** Switch between Analog mode and Digital mode by pressing "<" ">" buttons (Without Load ≤600m; With Load ≤1000m ).

**Digital Mode:** Anti-Jamming, recommended to use with load on 1000M switch.

**Analog Mode:** Recommended to use while tracing cable without load.

**Transmitter:** Default to digital mode, use left/right to switch between modes.

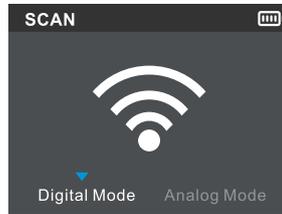
**Receiver:** Default set to digital mode, press scan to switch between modes.

### Remarks:

- 1.The Transmitter and Receiver should stay the same mode, otherwise the receiver can't detect the signal.
- 2.The sensitivity switch was designed to adjust the sensitivity of the receiver the max depth is 10cm, and the max length is 600m (without load) and 1000m (with load).
- 3.The signal indicator will turn to purple, the darker of the purple is the stronger of the signal is.



When the signal indicator stays on the receiver is under digital mode, otherwise the receiver is under analog mode



Scan

## 2. Continuity Test

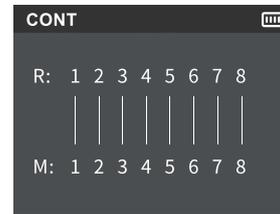
**Two Modes:** Check continuity with Receiver or Switch.

**Check with Receiver:** Can test the continuity/ cross and short circuit status of the cable.

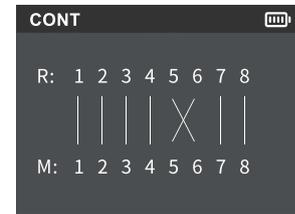
**Check with Switch:** Can only check the continuity of the cable.

Take continuity test with receiver for example.

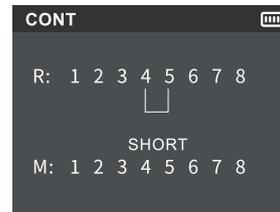
Insert one end of the cable into the continuity testing port on the top of the transmitter, the other end into the port on the bottom of the receiver, Choose continuity testing function, press "OK" to test. Testing result as below:



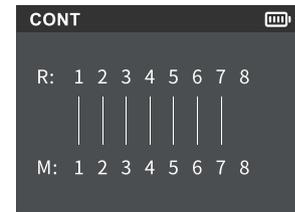
OK



Pin5 & 6 cross



Pin4 & 5 Short



Pin8 Open

### 3. Cable Length Measurement

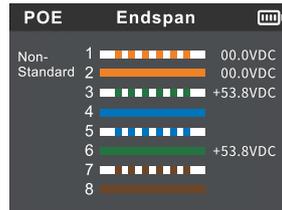
Choose "  " function from the screen, Insert one end of the cable into the length port, Set cable type and unit then press "  " to measure the length, result will be displayed as twisted pins ( Best range : 5~200m).



Cable Length Measurement

### 4. PoE Testing

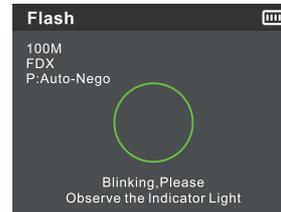
Choose PoE function from the screen, Insert the cable into PoE port press "  " to test the voltage of the PoE.



PoE Testing

### 5. Port Flash

Choose port flash icon "  " Press OK to use the function (10M/100M/1000M).



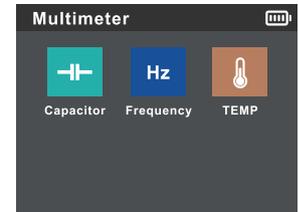
Port Flash-1



Port Flash-2

### 6. Multimeter function

Choose the multimeter icon "  " to enter the function, use "  " and "  " to switch among DC voltage/ AC voltage / Resistor / Continuity / Capacitor/ Frequency/ NCV / Temperature , press "  " to test.



## 7. Set

Choose Language/ Backlight level/  
Backlight Time/ Auto Off.



## 8. Power Indicator

**Transmitter:** Pls charge the battery when the battery icon shows very low; The battery icon will keep on moving when been recharged; Pls cut off power the battery is fully recharged.

**Receiver:** Pls change the battery when the power indicator is blinking.

## Packing Details

|             |     |                             |     |
|-------------|-----|-----------------------------|-----|
| Transmitter | 1pc | Earphone                    | 1pc |
| Receiver    | 1pc | Type-C recharging cable     | 1pc |
| User manual | 1pc | Qualification Certification | 1pc |
| Carry bag   | 1pc | Testing Probe               | 2pc |

## Product Parameter

|             |                           |   |  |
|-------------|---------------------------|---|--|
| Model       | NF-B509                   |   |  |
| Scan        | Analog Mode/ Digital Mode |   |  |
| Auto Off    | ✓                         |   |  |
| Transmitter | Continuity Test           | Max Range 2000m   |  |
|             | Cable Length Measurement  | 5-200m (±3m)  |  |
|             | Port Flash                | 10M/100M/1,000M   |  |
|             | PoE                       | 4 pins / 8 pins power testing                           |  |
|             |                           | PoE voltage Testing                                     |  |
|             | NCV function              | NCV (Level 0~4)   |  |
|             | Temperature Measurement   | ✓   |  |
|             | Resistor Measurement      | 600Ω-60MΩ (accuracy: ±1.0%+5)                           |  |
|             | AC/DC Voltage Measurement | 600mV-610V (DC accuracy: ±0.5%+3; AC accuracy: ±0.5%+3) |  |
|             | AC/DC Current Measurement | 1mA-3A DC (accuracy: ±0.8%+3)                           |  |
|             | Power                     | 3.7V/1,500mA lithium battery                            |  |
|             | Transmitter Dimension     | 137.5×76×34mm   |  |
| Receiver    | LED light                 | ✓   |  |
|             | Earphone                  | ✓   |  |
|             | Max Working Current       | ≤150mA  |  |
|             | Power                     | DC9V (exclusive)  |  |
|             | Receiver Dimension        | 204.9×38×29mm   |  |