Wire Tracker with Multimeter
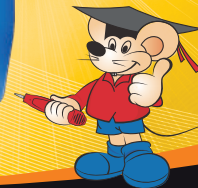## User Manual

Your excellent helper in cable test!

NOYAFA NF-B509

SCAN CONT Length
PoE Flash Multimeter

Wire Tracker with Multimeter
EMITTER

5A COM V Ω Hz

POWER
SCAN

Lighting

MODE
Flash light: Analog
Steady light: Digital

NOYAFA

Wire Tracker
&
Multimeter
NF-B509

RECEIVER

RJ45

ORIGINAL AUTHENTIC
Patented products,
Counterfeiting not allowed!

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℃) 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.
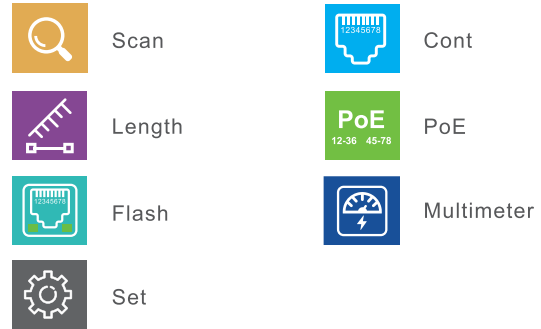
MENU

Buttons and Ports Instruction

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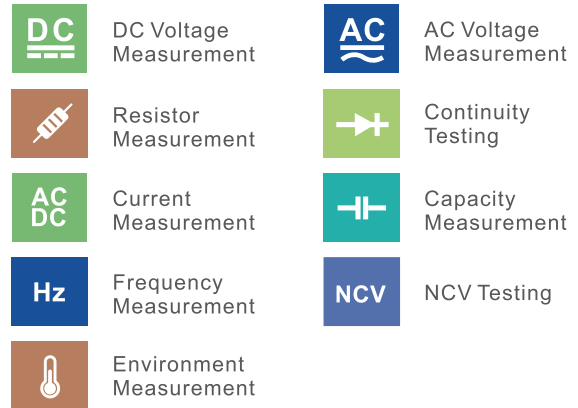
Probe

LED Light

Length/
Port Flash/
PoE

Power indicator

Scan/Cont

Signal indicator

NCV Detector

Sensitivy
Switch

LED Screen

Earphone

Function
Switch

Power Button
Ieft
Return
Confirm

Multimeter
Ports

RJ45 Port

Type-C
Port

Right

Transmitter   Receiver

UI Icon Instruction

1. Main Menu

Scan

Cont

Length

PoE

Flash

Multimeter

Set

2. DDM Function Icon

DC Voltage
Measurement

AC Voltage
Measurement

Resistor
Measurement

Continuity
Testing

Current
Measurement

Capacity
Measurement

Frequency
Measurement

NCV Testing

Environment
Measurement

Your excellent helper in measuring instruments.

Your excellent helper in measuring instruments.

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.

SCAN

Digital Mode   Analog Mode

Scan

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
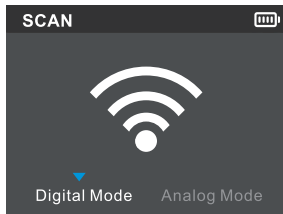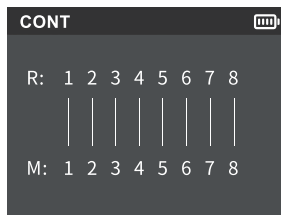
2. Continuity Test

Two Modes: Check continuity with Receiver or Switch.

Check with Receiver: Can test the continuity/ cross and short circuit status of the cable.
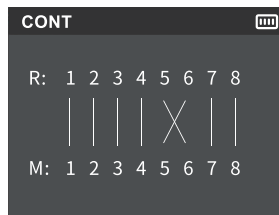
Check with Switch: Can only check the continuity of the cable.
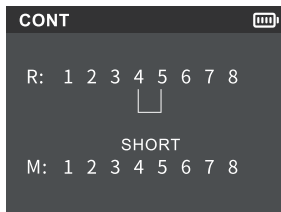
Take continuity test with receiver for example.

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:
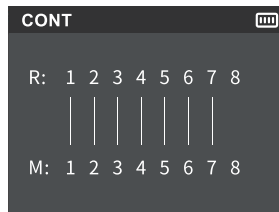
CONT

R: 1 2 3 4 5 6 7 8

M: 1 2 3 4 5 6 7 8

OK

CONT

R: 1 2 3 4 5 6 7 8

M: 1 2 3 4 5 6 7 8

Pin5 &6 cross

CONT

R: 1 2 3 4 5 6 7 8

SHORT

M: 1 2 3 4 5 6 7 8

Pin4 &5 Short
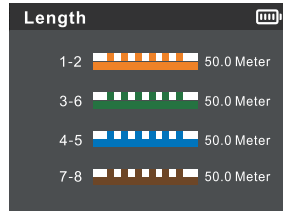
CONT

R: 1 2 3 4 5 6 7 8

M: 1 2 3 4 5 6 7 8

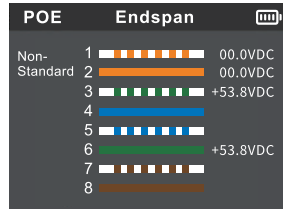Pin8 Open

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 " OK " to measure the length, result will be displayed as twisted pins (Best range : 5~200m).

Length 🔋

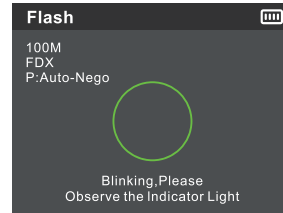|		
1-2	▬▬▬▬	50.0 Meter
3-6	▬▬▬▬	50.0 Meter
4-5	▬▬▬▬	50.0 Meter
7-8	▬▬▬▬	50.0 Meter

Cable Length Measurement

4. PoE Testing

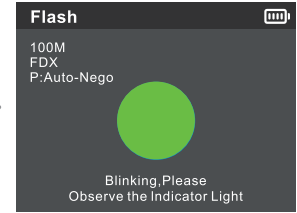Choose PoE function from the screen, Insert the cable into PoE port press " OK " to test the voltage of the PoE.

POE   Endspan 🔋

Non-Standard	1	▬▬▬▬	00.0VDC
	2	▬▬▬▬	00.0VDC
	3	▬▬▬▬	+53.8VDC
	4	▬▬▬▬	
	5	▬▬▬▬	
	6	▬▬▬▬	+53.8VDC
	7	▬▬▬▬	
	8	▬▬▬▬	

PoE Testing

5. Port Flash

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

Flash 🔋

100M
FDX
P:Auto-Nego

Blinking,Please
Observe the Indicator Light

Flash 🔋

100M
FDX
P:Auto-Nego

Blinking,Please
Observe the Indicator Light

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 " OK " to test.

Multimeter 🔋

AC AC Voltage	DC DC Voltage	Cont
NCV NCV	Resistor	AC DC Current

Multimeter 🔋

Capacitor	Hz Frequency	TEMP
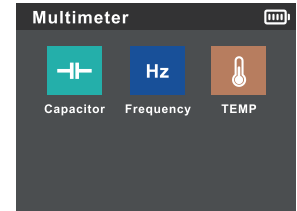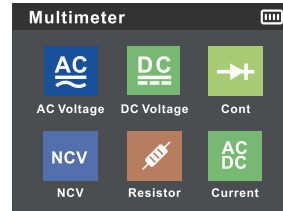
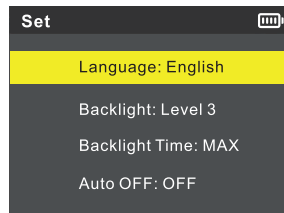## 7. Set

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

```
Set                        🔋
       Language: English

       Backlight: Level 3

       Backlight Time: MAX

       Auto OFF: 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

设 计	品 名		样 式	印刷要求
CZG	NF-B509说明书骑马订英文-V1 20231102		骑马订	彩色
日 期	品 号		页 码	
2023.11.02			12P	
样 品	单页尺寸		材 质	
	140×105mm		128g铜版纸	
变更记录				