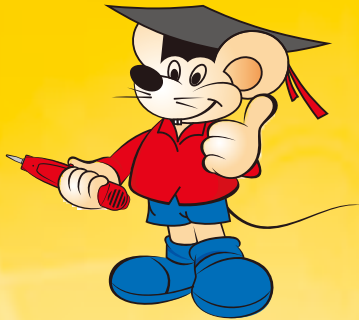


Wire Tracker with Multimeter

User Manual



Your excellent helper in cable test!



CONTENTS

1. Product Introduction.....	01
2. Operating instructions of cable testing functionality	02
3. Operating instructions of multimeter functionality	02
4. Battery level indication.....	03
5. Packing List.....	03
6. Product Parameters	04

1. Product Introduction


NF-8509 multifunctional digital multimeter and wire tracer is designed with cable testing function and multimeter function.

- Network cable testing functions :cable length test,wire continuity test,wire scanning test,POE test,and Port flash.
- Digital Multimeter (DMM) functions:AC/DC voltage test, continuity test, diode test, temperature test, NCV test, resistance test, AC /DC current test.








Note:Wire scanning is enabled by default after turn on the device.






2. Operating instructions of cable testing functionality

- Wire scanning: In wire scanning mode, press "  " button, the screen shows "1" indicating digital wire scanning mode. Press "  " button again, the screen shows "2" indicating analog wire scanning mode.

Note: maximum wire scanning distance: ≤ 600 meters under no load; ≤ 1, 000 meters under load.

- Wire mapping: Press "  " button to enable wire mapping function, then press "  " button to perform wire mapping test (up to 2, 000 meters).
- Port flashing: Press "  " button to enable port flashing function, then press "  " button to perform port flashing detection (10M/100M/1, 000M identification).
- Length test function: press "  " button to enable length test function, then press "  " button to perform length test (range: 5-200 meters).
- POE function: Press "  " button to enable POE function, and the device will automatically detect the POE voltage.

3. Operating instructions of multimeter functionality

After power-on, press "  " to enter the multimeter function mode. Press "  " button again to switch among AC voltage, DC voltage, diode/continuity, NCV, resistance, DC/AC current, frequency, and ambient temperature tests. After selecting the desired function, press "  " button to start testing. The device defaults to AC voltage test.

- AC/DC voltage Tracer: 600mV-610V.

- ② Continuity test: to detect the connectivity performance of wires and various conductors (the buzzer will sound when resistance is below 50Ω).
- ③ Diode measurement: to identify the polarity and forward voltage drop of diodes (0-3.3V).
- ④ NCV function: AC signals can be detected when the device is close to the AC signal source (0-4 levels).
- ⑤ Resistance measurement: 600Ω-60MΩ.
- ⑥ AC/DC measurement range: 1mA-3A DC (accuracy: $\pm 0.8\%+3$).
- ⑦ Frequency: 0-10MHz (accuracy: $\pm 1.0\%+3$).
- ⑧ Others: to display the ambient temperature.

4. Battery level indication

- ① Transmitter: 0% indicate low battery level, please recharge it in time.
- ② Receiver: Power indicator flashes, indicating low battery level, please replace it in time.

5. Packing List

Emitter	1pc	Type-C USB	1pc
Receiver	1pc	Cable adaptor	1pc
User manual	1pc	Earphone	1pc
Carry bag	1pc	Multimeter pen	2pc

6. Product Parameters

Model	NF-8509		
Auto-off	✓		
Transmitter	Wire mapping test	Max. distance of 2,000m	
	Wire scanning	RJ45 600m	
	Wire length test	5-200m ($\pm 3m$)	
	Port flashing test	10M/100M/1,000M	
	POE	4-core/8-core power supply detection	
		POE voltage detection	
	Continuity test	Detect The connectivity performance of of wires and various conductors,The buzzer will sound when resistance is below 50Ω.	
		Identify the polarity and forward voltage drop of diodes (0-3.3V)	
	NCV function	Inductive voltage detector (0-4 levels)	
	Resistance measurement	600Ω-60MΩ (accuracy: $\pm 1.0\%+5$)	
	AC/DC voltage measurement	600mV-610V (DC accuracy: $\pm 0.5\%+3$; AC accuracy: $\pm 0.5\%+3$)	
	AC/DC measurement	1mA-3A DC (accuracy: $\pm 0.8\%+3$)	
	Frequency	0-10MHz (accuracy: $\pm 1.0\%+3$)	
	Power	3.7V/1,500mA lithium battery	
Ambient temperature display	✓		
Dimensions	137.5×76×34mm		
Receiver	LED light	✓	
	Telephone function	✓	
	Power	DC9V (exclusive)	
	Maximum working current	$\leq 150mA$	
	Dimensions	204.9×38×29mm	