Instruction for Keys and Ports

Main Function: Continuity Test; Cable Tracking; Port Flash; Cable Length Measurement; PoE Test; Ping Test; IP Scan; Switch Test; Set.

Transmitter labels:
- RJ11 Tracking
- LENGTH/SPEED
- Screen
- ON/OFF
- Confirm
- UP
- Down
- Charging Port
- LINK/ACT
- CONT/SCAN
- Return

Receiver labels:
- LED Light
- Probe
- Power Indicator
- Signal Indicator
- NCV indicator
- Signal Sensitivity Switch
- Charging Port
- Scan Mode Switch
- NCV
- Light
- ON/OFF
- Earphone
- CONT

Transmitter   Receiver

Instruction for UI icons

AUTO-OFF: Customers can see the icon " 🔲 " on the left top of the screen when the function is ON, Customers can choose to turn it off in "Set".

Power Level: Show the battery power level of the device, it will turn to Green when charging, and stays white when in use.

Cable Continuity Test	Cable Tracking
Port Flash	Cable Length Measurement
PoE Test	Ping Test
IP Scan	Switch Test
Set	

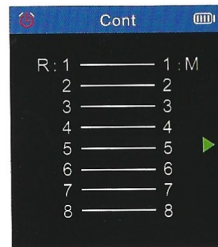# Instruction for functions

1.Cable Continuity Test

Modes: Remote and Switch.
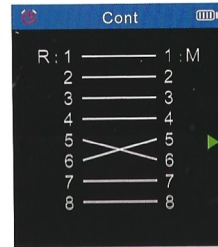**Remote:** Can test cable continuity, Cross/ Short Condition.
Switch: Can only test cable continuity.

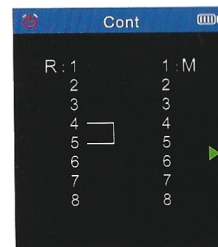**Take remote mode as an example.**
Insert one end of the cable into the "CONT" Port on the transmitter and the other end into the Port on the receiver, Choose "Remote" mode, turn to "Start" then press " OK " to test. Testing result as following:
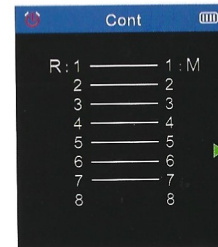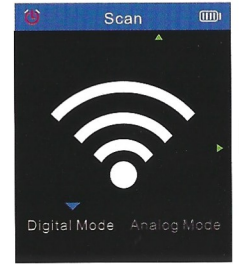
Good

Cable Cross

Short Circuit

Cable Open

2.Cable Tracking

Two Modes: Digital Mode / Analog Mode, Customers can use UP/ Down to switch.

Digital Mode: Anti- interference, when tracking cables with load from 1000M switches, customers were suggested use this mode.

Analog Mode: With little noise, customers were suggested to use this mode when tracking cables without load.

Digital Mode

Transmitter:
Default set to Digital mode, use UP/Down button to switch between the two modes.

Receiver:
If the scan signal indicator stays on, it means the receiver is in Digital mode;
If the scan signal indicator blinks, it means the receiver is in Analog mode.

Remarks:

The transmitter should stays the same mode with the receiver, otherwise the receiver won't be able to receive the signal.

The signal sensitivity switch was used to adjust the sensitivity of the receiver, the max detect depth range is 10cm, 1000m with load.

The indicator on the receiver will turn into Blue once it detect signal, the stronger the signal is, the darker the Blue will be

If the scan signal indicator stays on, it means the receiver is in Digital mode; If the scan signal indicator blinks, it means the receiver is in Analog mode.
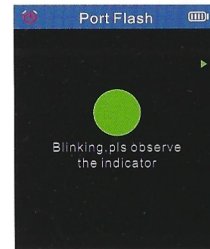
Sensitivy Switch

Scan Mode Switc

3.Port Flash

Normal Switches:

If test successfully, the screen will display the green circle and its flash frequency is the same as the Led of testing port on the switch.

The network switches:

If test successfully, the screen will display the green circle and its flash frequency is the same as the Led of testing port on the switch.And the screen will show the details info of the switch.
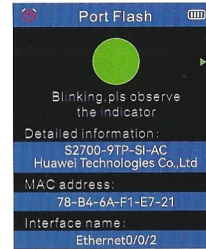

Port Flash — Blinking.pls observe the indicator

Port Flash — Blinking.pls observe the indicator
Detailed information:
S2700-9TP-SI-AC
Huawei Technologies Co.,Ltd
MAC address:
78-B4-6A-F1-E7-21
Interface name:
Ethernet0/0/2

Normal Switches   The network switches

Note: Only switches that support and have successfully enabled the CDP/LLDP function will automatically recognize the network switch and show the details info.

4.Cable Length Measurement

Insert one end to the Length port of the device (Keep the other end empty), Choose the right type of the cable (CAT5/CAT6), Set the unit for the result (Meter/Yard / Feet) by pressing " OK ", then press " OK " to measure the cable length (Best range will be 5~200m), the result will be displayed in pin pairs.

★ When measuring broken cables, if the broken point is too close to the empty end (less than 3% of the full length), due to technical reason, the device will show the full length of the cable, in that case customers were suggested to measure the length from the other end to locate the broken point.
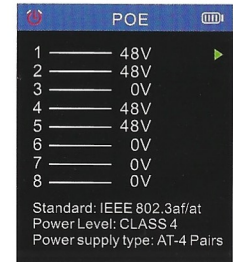
Length		Meter
Pin NO.	Status	Length
1-2	OK	8.4
3-6	OK	8.4
4-5	OK	8.4
7-8	OK	8.4

Cable Length Measurement

5.PoE Test

Connect device and PoE switch, press " OK " to enter PoE test function, the result will show which pins are providing power:
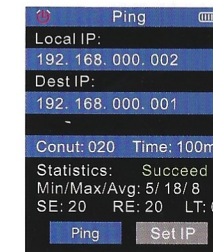
The voltage of the power;
Standard of PoE switch (IEEE 802.3at/af/bt);
Class of the power (Class 1~8);
Power supply type (Mid span/ End Span/ AT-4 pairs).

POE	
1	48V
2	48V
3	0V
4	48V
5	48V
6	0V
7	0V
8	0V

Standard: IEEE 802.3af/at
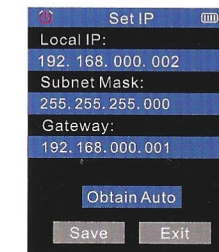Power Level: CLASS 4
Power supply type: AT-4 Pairs

PoE Test

6.Ping Test

Customers were suggested to set IPV4 for the first time to use Ping test function, after entering the Ping address, customers can use UP/Down button to choose "Set IP" to set the local IP, Subnet Mask, and Gateway, after setting these, customers need to save the settings then can return to use the Ping scan functions.

Ping	
Local IP:	
192. 168. 000. 002	
Dest IP:	
192. 168. 000. 001	
Conut: 020	Time: 100ms
Statistics:	Succeed
Min/Max/Avg: 5/ 18/ 8	
SE: 20	RE: 20	LT: 0
Ping	Set IP

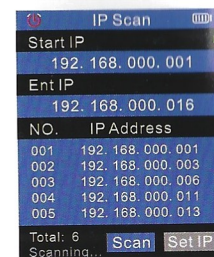| Set IP	
Local IP:	
192. 168. 000. 002	
Subnet Mask:	
255. 255. 255. 000	
Gateway:	
192. 168. 000. 001	
Obtain Auto	
Save	Exit

Ping Test   Set IP

7.IP Scan

Using UP/Down button to choose "Set IP" to set the local IP, Subnet Mask, and Gateway, after setting these, customers need to save the settings then can return to use the IP scan functions.
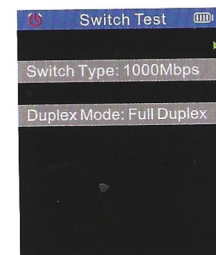
IP Scan

8.Switch Test

After testing, the testing result will show the standard of the switch (10M / 100M/ 1000M) and also the duplex mode of the switch.

Switch Test

PS: After testing, customers need to reprocess the whole steps for new port testing to ensure the accuracy of the testing.

9.Set

Customers can set , backlight level, backlight time, auto off, default setting, check inf about the device etc.

Product Specification

Model	NF-8506	
Cable Scan	Digital Mode / Analog Mode	
Auto OFF	√	
Low Power Notice	√	
Transmitter	Cable Continuity Test	Remote & Switch
	Cable Length Test	Range: 5~200m (±3m)
	Port Flash	Support CDP/LLDP
	POE	Mid-Span/End-Span/AT-4 pairs
		PoE voltage test
		Test AF/AT/BT Standard
	Link Speed	10M/100M/1000M
		Duplex Mode (Full Duplex/ Half Duplex)
	Battery	3.7V Lithium Battery
	Ping Scan Function	Aut-Obtain IP Address
	IP Scan Function	√
	Transmitter Dimension	150×75×35mm
Receiver	Led Light	√
	Ear Phone	√
	Battery	3.7V Lithium Battery
	Receiver Dimension	200×50×33mm

Packing List

Transmitter	1pc	Tool Bag	1pc
Receiver	1pc	Packing Box	1pc
User Manual	1pc	Warranty Card	1pc
Lithium Battery Notification Card	1pc	Recharging Cable	1pc