

Optical Wire Meter tracer

User Manual



Your excellent helper in cable test!



CATALOG

	Read the precautions before your operation
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The transmitter and receiver of this device are powered by lithium polymer batteries.

Please do not place the device in a location that is dusty, humid, or hot (above 40°C).

Please do not disassemble the device. Repair and maintenance should be done by a professional staff.

When not using the device for a long time, please remove the battery to prevent the battery liquid from leaking out.

Please do not perform related operations on the communication line during thunderstorms to prevent lightning strikes and personal safety.

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Product button and interface description

NF-8508 is an Optical wire meter tracer for home and public facility network cable repair.

Its main functions includes : Optical power meter & VFL function; Tracing cable location; Test cable continuity; Measuring cable length; PoE test; Port plash function; Crimping test for crystal head and so on. And It has two modes for options to trace cable like anti-jamming & normal mode.



Auto power off icon



When this icon is displayed it means that the auto power off function is on and when this icon is not displayed it means that the auto power off function is off.

Power display icon



Displays the current power and charging status, green means it is in the charging status, but white means non-charging status.



CONT



FLASH



PoE



OPM



Set



SCAN



LENGTH



QC Test






VFL

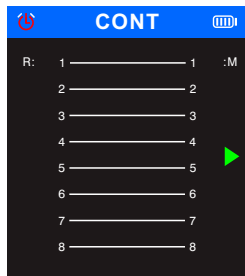
Product function instructions

Transmitter

1. Continuity testing

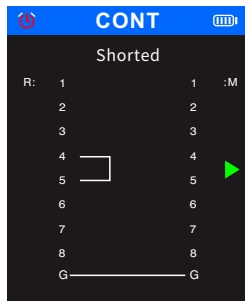
Open the device, select the  in the main menu, and press the **OK**, it will show the cable types, then press "confirm to test", the  triangle indicates the position to be plugged in.

Click the **OK** again, the screen will show "Testing..", the result displays again. If click the **OK** again, the test again. If click the  it will return to the main menu.

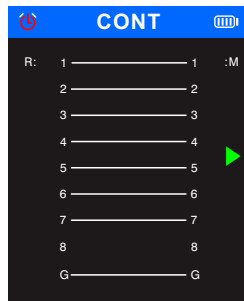


Continuity testing

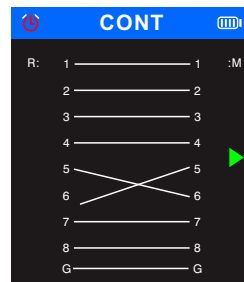
Open, short, cross, and good condition status are as follows



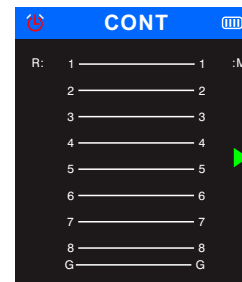
Shorted



Broken









Cross

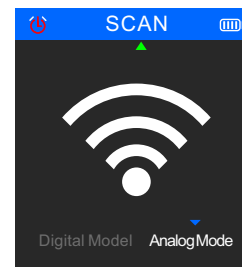
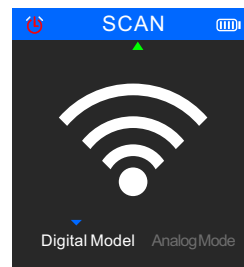


Good Condition

2. SCAN

Select the  in the main menu, and press the **OK**, Enter SCAN Function.



Screen displays two options of "Digital Model" and "Analog Mode", you can press the  or  to choose scan mode, the  triangle arrow indicates the current function, and the  triangle arrow indicates the current position where the cable needs to be inserted. Click **OK** or  to return back the main menu.



Two scan modes selectable: AC filter mode/Analog mode, up to 300m.

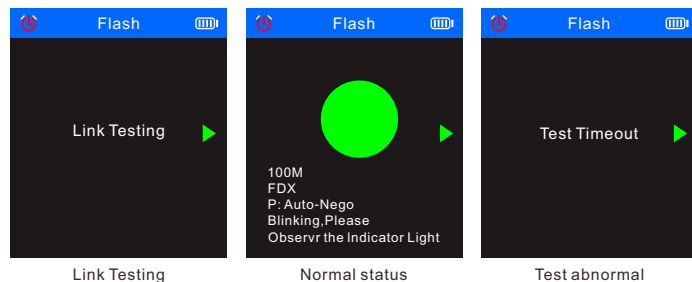
Product function instructions

3. Flash

Select the  in the main menu, and press the **OK** to enter the port flashing function. The screen displays the words "Link test.", and the  triangle arrow indicates the current position where the cable needs to be inserted.

After finishing test, if test fails, the result will show "Time out", maybe the cable is not plugged in properly or other reasons. If the test is successful, it will display the specific information of the current switch (FDX: full duplex / HDX: half duplex) Protocol (Auto-Nego / Non-Auto-Nego).




And the two lights of the two ports will also flash at the same frequency. The circle in the screen will also flash with the port light, moreover, the solid circle and the hollow circle will flash synchronously.



Hub blink for locating network port by the flashing port light on Hub / Switch. Available to 10M/100M/1000M Hub/ switch.

4. Length

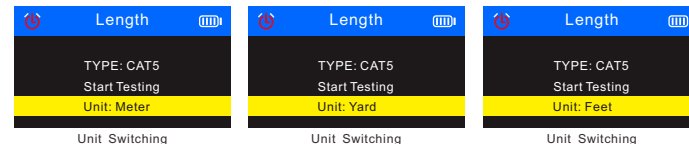
Select the  in the main menu, and press the **OK** to enter the length test function.

When test the cable length, press **OK** to switch the cable type: Cate5 or Cate6. Press the  or  to select the unit, and then press the **OK** to switch back and forth between the units (m/yard/feet). The  triangular arrow indicates the current position where the cable needs to be inserted. If a certain cable is abnormally short, it will be indicated by a red line pattern.

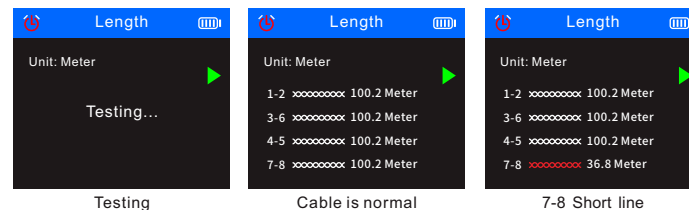
When test the cable length, you can switch the cable types according to following figure:



The measurable cable lengths are:



The screen display of length test function is as follows:



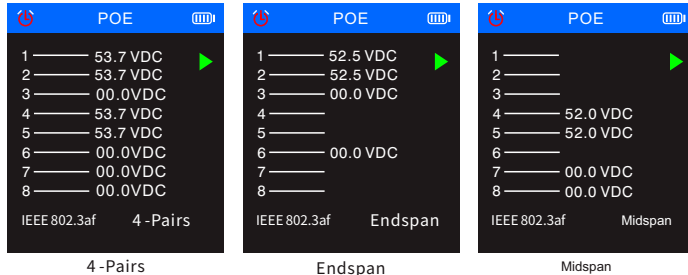
Measure cable (cat5/6) length accurately, the range is 2.5~200m.

5. PoE test

Select the **PoE** in the main menu, and press the **OK** to enter the POE function test. The triangular arrow indicates the current position where the cable needs to be inserted. Press the **←** to return back to the main menu.

If plug and unplug the cable connected to the switch, the data will be updated automatically.

- (1) It will display: Non-standard/IEEE 802.3af/IEEE 802.3at, when test PoE standard.
- (2) It will display: end connection method/middle jumper method/powerd by 8 cores, when judging the jumper method.
- (3) It will display positive and negative and voltage of the PoE switch, when judging the polarity.

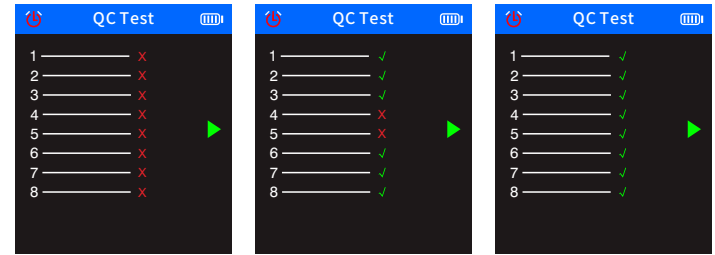


PoE testing : identify which pins are providing power and detect how much voltage, identify which the type of PSE (at/af standard)

6. QC testing for crystal head

Select the **QC** in the main menu, and press the **OK** to enter the crimping test function. The triangular arrow indicates the current position where the cable needs to be inserted, and press the **←** to return back to the main menu.

Plug and unplug the cable testing, the result will be updated automatically. ✓ indicates that the channel is normal, and X indicates that the channel is abnormal.



Error

Error

Correct

7. Optical power meter

Select **Optical** in the main menu, and press the **OK** to enter the optical power meter function. The triangular arrow indicates the current position where the cable needs to be inserted, and the data can be updated in real time. Press **←** return back to the main menu.

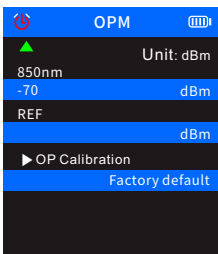
The optical power meter can test the optical power and the attenuation value of the light. The white triangular arrow indicates the current selection item. From top to bottom, the top means the unit can be switched and the bottom means the wavelength can be switched.

- (1) Unit switching: can switch as dBm, dB, or mw, uw, nw
- (2) Wavelength switching: Enter the option, Click OK then you can switch the wavelength to 850nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm.

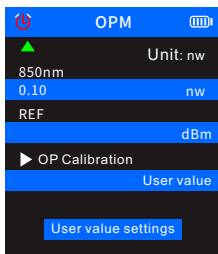
(3) REF Switch

REF is used to test the attenuation value of light, insert the port of the unattenuated end under this option, long press to save the current unattenuated optical power and display the value in the blue display area on the first line of the user area, then plug the interface of the attenuation end into the test end, and click the OK button in this mode to switch the user area. The blue display area on the first row displays the attenuation value or the normal optical power data.

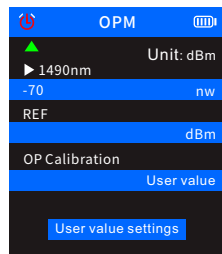
When you use meter function, can press the or to select the "unit" item, press the to switch the unit, select the "wavelength" item to switch the length of the wavelength.



Unit switching

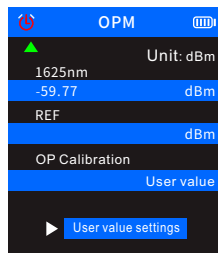


Unit switching



Wavelength switching

When you use meter function, can press the and to select the "User value setting" item, press the to open the user value, press the again, then select the "optical power" to be set, and press the and to set the optical power \pm numerical value. Press the to return to the main menu.



User value settings

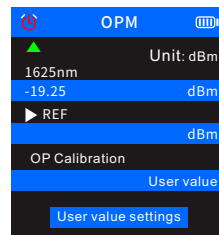


OP Power

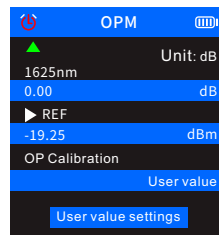


Set the optical power

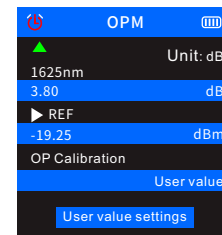
When use function, press the and , select the "REF" item, and press the the blue area on the first row displays the real-time attenuation data, and the blue area on the second row displays the previously saved unattenuated optical power. At this time, the unit is Forced to dB, and cannot be switched to other units. Press the to return to the main menu.



Select REF



Unattenuated optical power



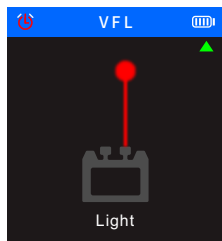
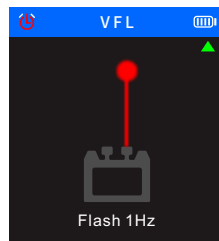
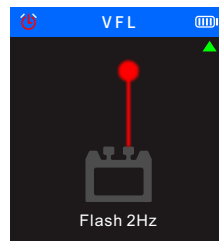
Real-time attenuation data

Under the non-attenuation function, the blue display area on the second row of the user area will not display the value, and the blue display area on the first row of the user area will display normal optical power data.


8. VFL

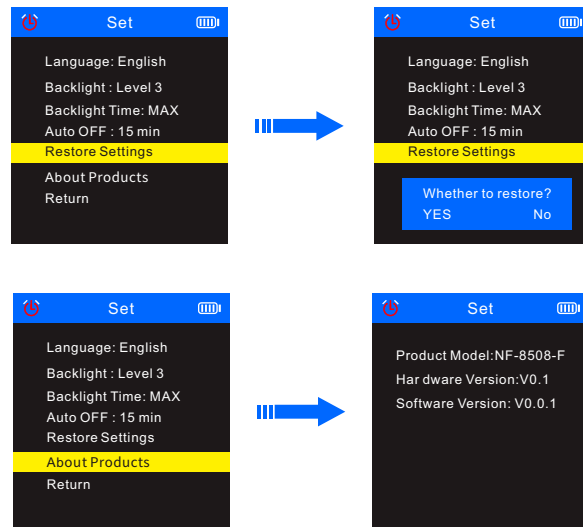
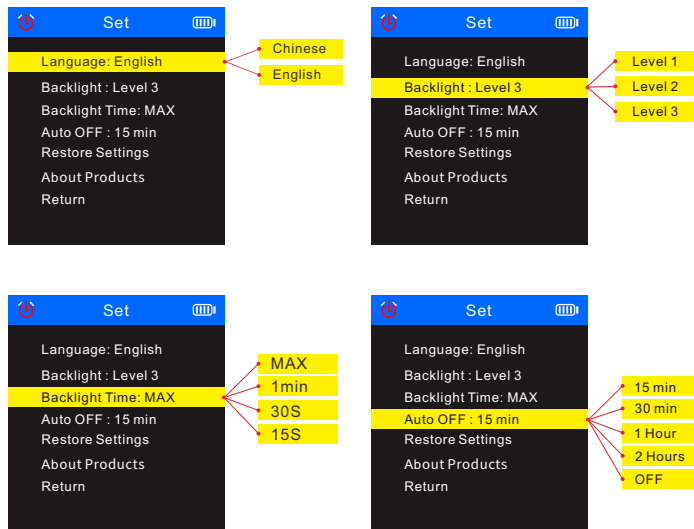
Select the in the main menu, and press the to enter the VFL function test. The triangular arrow indicates the current position where the cable needs to be inserted. Press the to return to the main menu.


Under this function, press the to switch the red light to: fast flashing, slow flashing, and always on.



9. Setting



Select the  in the main menu, and press the **OK** to enter the setting function, press the **▲** and **▼** to switch options up and down, press the **OK** again to switch various modes of the current option, and press the **↶** to return to the main menu.





In the  menu, select "Return" and press the **OK**, Return to the main menu.

Receiver


1. Power

Press and hold the  in the off state, and hear a beep to indicate that it has been turned on. At this time, the power indicator lights up green and the scan indicator lights up red, it means it's in anti-jamming method; if the device turns on, long press  button, it will turn off and all the lights will be off.

2. SCAN

When the receiver scans, you can press the  button to switch "anti-jamming mode" or "normal mode". When the scan indicator is always on red, it means it is in the "anti-jamming" function. When the  indicator is red and flashes r, it means it is in the "normal mode" function.

3. NCV

When the receiver turns on, press the , the NCV indicator will light up in green, meaning that the receiver is in NCV function.

4. LAMP

When the receiver turns on, press the  to control the lighting to turn on or off.

5. SEN

When scan, you can adjust the sensitivity of the receiver: Rotate clockwise to increase the sensitivity, and rotate counterclockwise to decrease the sensitivity.

6. Type-C Charging

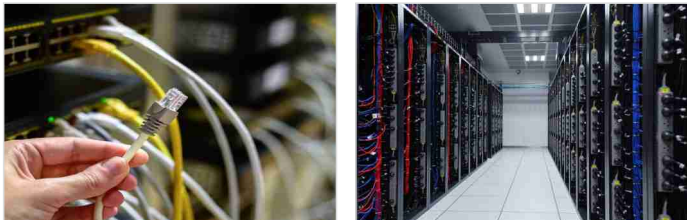
In the charging state, the power indicator will light red, and the red light will turn off when fully charged.

Product Specifications

Model	NF-8508		
Cable type	CAT5/CAT6		
Voltage	60V		
Battery	Type-c charging		
Transmitter	CONT	Wiremap Port	RJ45
		Remote Continuity	≥300m
		Cable sequence and fault test	√
		STP/NTP	√
	Cable Scan	Short circuit reminder	√
		Anti-jamming and Normal mode	√
		Audio transmission frequency	455KHz
	Port Flash	Audio transmission distance	RJ45 300m
		Full duplex / Half duplex	Automatic Identification
		Auto-Nego / Non-Auto- Nego	
		10m/100m/1000m	
	Length Tester	≤20M+/-1.6M, 20M~100M+/-2.4M, ≥100M+/-3.2M	
	PoE Test	Standard/Non standard	Automatic Identification
		End connection /Middle jumper / Powered by 8 cores	
		PoE Power supply	Voltage detection
NVL	10Mw		
Power meter	850/1300/1310/1490/1550/1625 (Wavelength)		
Crimping	RJ45-8 Cores, Min length is ≥10cm		
Low voltage prompt	Below 3.5V ± 0.1V power indicator flashes		
Power supply	3.7V 1500mAh Polymer lithium battery		
Transmitter size	148 X 70 X32 mm		
Receiver	Sensitivity adjustment		
	No-load shielded network cable/non-empty shielded network cable 300M		
	Anti-jamming and Normal mode	√	
	Scan current	≤300mA	
	Remote Continuity	≥300m	
	NCV detection function	√	
	Lamp	√	
	Low voltage prompt	√	
	Power supply	3.7V 1500mAh Polymer lithium battery	
	Receiver size	198 x 50 x 28 mm	

Product application field

- 1、Telecommunication bureau/Internet cafe/telecommunication engineering company, network engineering company/power force and other weak current projects, line maintenance and other departments that require metal lines.
- 2、Telecommunication network line engineering and general maintenance work; computer network line engineering; other metal conductor line engineering and maintenance work.



Accessories

Transmitter	1pc	Cable ad aptors	1pc
Receiver	1pc	RJ45 adapter line	1pc
Type-c data cable	1pc	User m anual	1pc
Earphone	1pc	Carry bag	1pc
RJ11 adapter line	1pc	Color box	1pc
Quality certificate	1pc		

Note: Please refer to the actual product received.

设计	品名	样式	印刷要求
HZL	NF-8508说明书-英文V1	骑马订	彩色
日期	品号	页码	
2022.07.12	暂无	20P	
样品	尺寸	材质	
	105x145mm	128g 铜版纸	
变更记录			