Your excellent helper in measuring instruments.

Your excellent helper in measuring instruments.

ANTI-INTERFERENCE WIRE TRACKER USER MANUAL



Find target wire required from numerous telephone wires and LAN cables

Trace cable in telephone exc hanger

Example 1



Connect launcher and telephone wire port to be traced in right way



Trace cable at the other end with receiver





Connect launcher and LAN cable port to be traced in right way



Trace cable at the other end with receiver



- •Never expose the equipment directly in the sun.
- •Never put the equipment in the place with much dust, humidity and high temperature (over 40°C)
- •Please use battery according to the specification; otherwise, it may result in damage to equipment.
- •Please never dismount the equipment arbitrarily. The maintenance and care shall be conducted by professional personnel.
- •Please take out the battery in launcher and receiver if the equipment is not used for a long time so as to prevent that the battery liquid is leaked in future.
- Never use the equipment to detect power cord with electricity (such as power supply circuit of 220V), other wise, it may result in damage to equipment and personal injury.
- Never conduct related operation of communication line in thunderstorm weather so as to prevent lightning stroke and impact on personal safety.

Contents

.Brief Introduction			
2.Product interface and keypad functions	02		
3.Operation Instruction	03		
(1) Cable tracing	03		
Basic tracing	03		
AC filter tracing	03		
PoE switch	04		
(2) Cable mapping	05		
Fast mode	05		
Slow mode	05		
Manual mode	05		
(3) Visual Fault Detector(VFL)	07		
Continuous mode	07		
Pulse mode	07		
4. Other function	08		
(1) Emitter Low voltage indicator			
(2) Earphone function			
(3) Volume adjustable function			
(4) Light function			
(5) Wire sorting directly with switch			
5. Specification	09		
6. Packing list	10		
7. Diagram of series products	11		

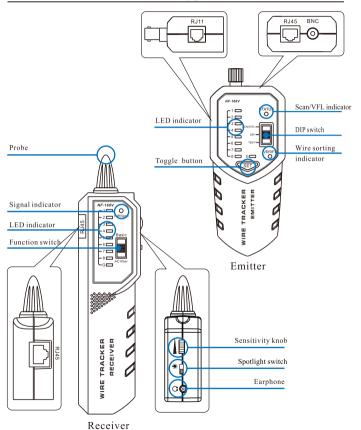
1. Brief introduction

NF-168V/NF-168S is an updated item with multifunction of cable tracing, mapping and Visual fault locator (this function is only for NF-168V)according to sales requirements. It follows the shells of NF-168 emitter and receiver. But compared to series products, it's highlights is three tracing modes, three mapping mods, and Visual fault locator. Tracing modes---Ordinary tracing, Anti-interference, PoE switch; Cable mapping--Fast mode, Slow mode, Manual mode; Visual fault locator-Continuous mode, Pulse mode.



NF-168V (Details of VFL function, pls refer Page 05)

2. Product Interface and Keypad Introduction



3. Operation methods

Cable tracing

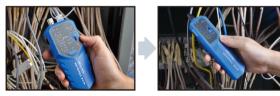
1)Basic tracing

Emitter

Push the key to "SCAN" to enter the basic tracing mode, then blue indication flashes, which means the emitter works well. Connect one end of network cable/telephone cable(BNC cable only for NF-168S) to the RJ45/RJ11 (BNC cable only for NF-168S) port of launcher.

Receiver

Push the key to "Basic", the brightness of indicator and the sound of the speaker is dynamically changed according to the the signal strength. (note that in this mode, even if there is no signal, the indicator and the speaker will have a weak changed), which means the receiver works well, then hold the receiver to find the target line.



2) AC filter tracing

Emitter:

In the basic mode, short press the "SET" button to enter the AC filter mode, then the blue indicator flashes, which means the emitter works well.

Connect one end of network cable/telephone cable (BNC cable only for NF-168S) to the RJ45/RJ11(BNC cable only for NF-168S)port of launcher.

Receiver:

Push the key to "AC Filter", the brightness of indicator and the sound of the speaker is dynamically changed according to the signal strength, which means the receiver works well, then hold the receiver to find the target line.



3)PoE switch

Emitter:

In AC filter mode, short press "SET" key to enter POE scan mode, then the indicator flashes red and blue, which means the emitter works well.

Connect one end of network cable to the RJ45 port of launcher.

Receiver:

Push the key to "AC Filter" to enter PoE switch mode, the brightness of indicator and the sound of the speaker is dynamically changed according to the signal strength, which means the receiver works well, then hold the receiver to find the target line.



NOTICE

When the battery of the emitter is low, the red light below will flash, otherwise it will not light. When the battery of the receiver is low, the red light above flashes, otherwise it is always on; the user can adjust the sensitivity on the right to achieve the best scanning effect according to the usage scenario.



Cable tracing mode switching graphic

2. Tracing mapping (RJ45 as an example)

- 1. Connect two ends of network calbe to the RJ45 port of launcher and receiver separately.
- 2. And push the key to "test", the wire sort indicators will flash, which means the transmitter works well.
- 3. If the wire is normal, and the GND is not connected, then the 8 indicators will flash one by one. And if GND is connected, then the 1 to 8 and G indicators will flash one by one.
- 4. If there is miswires as below. If line"2" is open, then the 2 indicator of emitter and receiver will not flash. If there is several lines are open, the corresponding indicators will not flash. And if less than 2 lines are connected, none of the lights is on.

When the line are cross, for example, line"2" and line"3" disorder, the indicators flash as follows,

Transmitter: 1-2-3-4-5-6-7-8-G Receiver: 1-3-2-4-5-6-7-8-G

When there is short circuit of line"2" and "3", the 2 and 3 indicators of receiver will not flash while the other lights still do.

The wire tracker has three mapping modes as below:

1) Fast mode(0.5 second)

Emitter: Push the key to "test" to enter Fast mode, the wire sort indicator flashes, then the LED indicator will flash by one bye one per 0.5 second.



2) Slow mode(1 second)

Emitter: In the fast mode, short press the "SET" button to enter the slow mode, the wire sort indicator flashes, then the LED indicator will flash by one bye one per 1 second.



3) Manual mode

Emitter: In fast/slow mode, long press "SET" button to enter manual mode, user need to short press "SET" button, the wire sort indicator flashes, then the LED indicator will

flash stage by stage.



NOTICE

When the battery of emitter is low, the red light above will flash, otherwise it will not light. When mapping, Only connect the cable to be tested to the Rj45 port of emitter and receiver, at this time the LED light status will show the cable continuity.

Long press SET Short press Long press Power SET Manual Fast mode Slow mode mode Short press SET Long press SET

Mapping mode switching graphic

3. Visual fault loactor (this function is only for NF-168V)

This function can inspect fiber failure when they connect with optical interface. It's light has two mode as below.

1)Continuous mode

In any cable tracing mode, long press the "SET" button enter the continuous mode, this mode is defaulted. You will see the red laser emitting from the optical interface. At this time, the upper red light also will flash. (Please don't stare at the beam, for fear of

damaging your eyes).



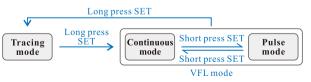
2)Pulse mode

In the continuous mode, short press the "SET" button enter the pulse mode, the LED synchronize with light-emitting (pulse frequency will be controlled at 1-2 Hz). At this time the upper red light also will flash.





When they battery of emitter is low, the indicator below will flash, otherwise it will not light.



VFL mode switching graphic

4. Other functions

(1) Low-voltage hint function

When the battery is low (\leq 6V), push the function button to "scan" or "test", at this time, both the scan indicator and wire sorting indicator will flash, which means the battery should be replaced.

(2) Earphone function

The earphone can be worn in noisy environment for operation so as to avoid external interference.

3) Sensitivity adjustment function

Turn the sensitivity adjustment knob on the receiver when tracing cable to adjust the value to be the appropriate degree.

(4) Floodlight function

The side floodlight can be started at night or in dark. The floodlight turns on so as to facilitate your normal operation.

(5) Wire sorting directly with switch

Connect the line to be tested with transmitter and switch, then get the result from flashlights.

5. Specification

	Emitter	Tracing	Compatible cable	RJ45, RJ11, BNC cable	
			Max. signal voltage	8±1.0Vp-p	
			Max valume	105dB	
			Tone frequency	455Hz	
			Tone mode	1 Tone	
			Ordinary tracing	YES	
			Anti-interference	YES	
			Distance of transmission	RJ45 300M non-load/load	
		VFL (NF-168V)	Wave length	650nm	
			Power	5mW	
			Mode	Constant ight mode, Blinking mode	
		Mapping		Fast, slow, manual	
		Battery Type		DC9.0V(6F22 DC9V x 1pcs)	
		Battery low indicate		6.0V±0.5V	
		Voltage protection		DC 60V	
		Max. working current		Less than 100mA	
		Dimension(LxWxD)		146*57*30mm	
Γ	Receiver	Anti interference reception		YES	
		Sensitivity adjust		YES	
		Ordinary Huting		YES	
		Earjack		YES	
		LED lighting		YES	
		Battery Type		DC9.0V(6F22 DC9V x 1pcs)	
		Power indicate		LED Power indicator	
		Battery low indicate		6.0V±0.5V	
		Max. working current		≤150mA	
		Dimension(LxWxD)		187*46*27mm	

6. Packing list

Emitter	1PC	User manual	1PC
Receiver	1PC	Battery	2PCS
Testing line	1PC	Kit	1PC
Earphone	1PC	Color box	1PC

7. Diagram of series products



NF-8601S



NF-300



NF-8209



NF-816L



NF-268



NF-820



NF-826



NF-488



NF-272L



NF-515



NF-5120



NF-521