Your excellent helper in cable test!

# Anti-El Cable Length Tester INSTRUCTION MANUAL





VER: V2





# Read the precautions before your operation

- Keep the tester in right place to avoid hurt with the sharp probe.
- Never put the equipment in the place with much dust, humidity and high temperature (over 40 degree).
- Please use the battery according to the specification.
   Other wise it may result in damage to equipment.
- Please never dimout 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.
- Never use the equipment to detect power cord with electricity ( such as power supply circuit of 220V ). Otherwise 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 softy.

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#### 1. Brief Introduction

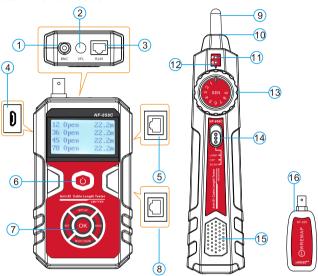
NF-858 Cable length tester made up with one Emitter, one Tone generator and 4 remote identifiers. Not only with cable tracing, cable length, wire map functions, also with VFL and Telephone status test function. It's a new breakthrough and new mould to NOYAFA.

#### 2. Main functions

- 1. CAT 5, CAT 6 and Coaxial cable continuity test;
- 2. Measure CAT 5 , CAT 6 and Coaxial cable length up to 2000m:
- 3. Trace network cable & Coaxial cable:
- Port flash directly locate target cables connected with POE switch;
- 5. Red Light check the fiber cable faults;
- 6. Detect the voltage on POE switch;

#### 3. Interfaces:

Item No: NF-858C



- 1. Coaxial cable
- 2. Visible fault locator
- 3. Network cable
- 4. Battery charge
- 5. Port flash (or PoE)
- 6. Power button
- 7. Enter

- 8.SCAN for RJ45
- 9. Probe
- 10. Lamp
- 11. Scan led light
- 12. Charging led light
- 13. Adjust sensitivity
- 14. OFF/ ON button
- 15. Speaker
- 16. Remote identifier

#### 4. Technical indexes:

NF-858 Transmitter specifications			
Indicator	LCD 58x40 mm, with back light		
Tone frequency for trace	130 KHz		
Max. distance of tracing	2000m		
Max. distance of cable map	2000m		
Test cable type	Cat 5 , Cat 6, Coaxial		
Compatible connectors	RJ45,Coaxial, VFL, Mirco USB		
Max. signal voltage	9 ±1 Vp-p		
Function and faults LCD display	LCD display ( length ,wire map, scan , short, , No adapter, Low battery )		
Test record Store	6 groups		
Battery Type	3.7V 1000mAh lithium battery		
Dimension(LxWxD)	135x78x35mm		
NF-858 Receiver specifications			
Frequency	130 KHz		
Low battery indicate	3.5 ± 0.2V		
Battery Type	3.7V 1000mAh lithium battery		
Dimension(LxWxD)	203x45x33 mm		
NF-858 Remote unit specifications			
Compatible connectors	RJ45,Coaxial		
Remote	4 pcs		
Dimension(LxWxD)	107x30x24mm		

# 5. Function & Operation

#### 5.1 Main menu explanation

- CONT: Check cable continuity, such as cross, short, split pair, open;
- Length: Measure network cable & Coaxial cable length and judge breakpoint;
- 3. SCAN: Trace and locate the cable:
- 4. TEL: Test telephone status and polarity;
- 5. Port Flash: another method to trace cable on switch;
- 6. POE: Test Power over Ethernet voltage;
- 7. VFL: Visible fault locator function;
- Record: 6 sets of cable length and wire map records for query;
- Setting: backlight , power off time set ,Contrast, reset default , software version;

#### 5.2 Trace for Network cable

- 1. Connect into the "RJ45 SCAN" port on the right side of emitter,
- 2. Choose "SCAN" on the main menu, and press "OK" to start work, And press "OK" button one more time, you can trace the cable which connects POE switch.
- 3. Push the button on the receiver to SCAN position, (or Lamp if work in dark condition), the power led is lit.
- 4. Use the probe to trace wires according to the audio signals. You can adjust the sensitivity switch from 1 to 8 to locate the accurate position of the wire.
- Remember to turn off after using to save energy. Take out the batter if long time no use.



#### 5.3 Trace for Electricity cable

Trace electricity cable under POE status, shown Figure as below:



#### 5.4 Trace for Telephone cable

Since the device doesn't have RJ11 port, users need a RJ11-BNC adaptor and a RJ11 module to test telephong cable as the following

graph.

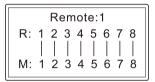


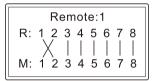
#### 5.5 Cable Continuity test

- 1. Choose "CONT" on the LCD screen, and choose cable type (CAT5, CAT6, and BNC).
- 2. Here are two test modes for continuity testing. 1-4 mode or 1-1 mode. 2.1) 1-4 mode:

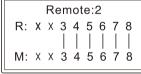
this mode to test with main unit + remotes. Insert one end of network cable into "RJ45" port on the top of emitter, the other end into "RJ45" port of remote. in this mode, users must choose "1-4" in "CONT mode to test, not 1-1.

The test results for different situation is as below











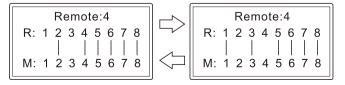
Short R:

M: 12345678

**OPEN** 

#### SHORT

**SPLIT** 



**SPLIT** 

#### 2.2) 1-1 mode

This mode is to test cable continuity with main unit + receiver. One end of network cable into "RJ45" on the top of emitter, the other end into "RJ45" port of receiver. then choose "1-1" in CONT mode, not "1-4".

#### 5.6 Measure cable length

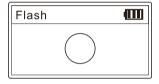
- Choose "Length "on the screen, press OK to choose the cable type, then start testing.
- Insert cable one side into the relative port, and the other side keep empty.
- 3. Test result show on the screen.
- CAT5, CAT6 and Coaxial cable length can be measured, and distance range 10-2000M.

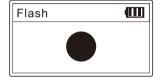


#### 5.7 Port Flash Function

This function should be used on condition that you know target cable is connected with POE switch or router, but you don't know the exact port it was inserted.

- 1. Insert the cable one side into "PORT FLASH "on emitter.
- 2. Choose" FLASH" on the screen.
- 3. The corresponding led on switch or router will be flashing in different frequency as the other ports. it means that is the correct port. Image as below:





#### 5.8 POE Test Function

Insert one side into the main tester PORT FLASH port, the other side into the POE switch for network cable. POE namely Power over Ethernet, then you can test the POE switch voltage.



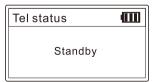
#### 5.9. Visual fault locator

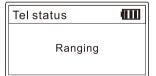
- Connect the fiber cable into "VFL" port and choose "VFL" in the main menu:
- 2. If there is a breakage in the middle of the cable, red light will be leaked from this point.
- 3. Fiber cable for 10Km can be detected.



#### 5.10 Telephone line condition & Polarity test

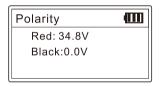
- a. Telephone line condition test:
- Choose TEL on emitter .Insert the BNC electricity adaptor cable to BNC plug.
- 2. The other side connects the telephone;
- 3. Result Instruction:





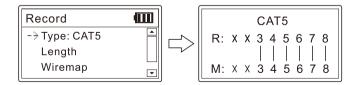


- b. Positive and negative polarity test:
- Choose TEL on emitter .Insert the BNC RJ11 cable to BNC plug.
- 2. Use clips connect with the telephone cable or connect the 8P extender adaptor for the telephone port.
- 3. Result Instruction:



#### 5.11 Record

There are 3 types of cable result can be saved into the device, CAT5, CAT6, BNC for cable length result & wire map.



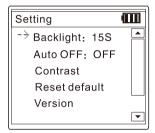
### 5.12 Setting

Backlight: 15s, 30s, 1min, OFF

Auto OFF: 15min, 30mins, 1hour, OFF

Contrast: 24

Reset default: YES or NO Version: Software number



## 6. Accessories:

Emitter	1 ps
Receiver	1 ps
Remote identifier	4 pcs
Earphone	1 pc
Alligator clip	1 pc
BNC - RJ11 adaptor cable	1 pc
Carry pouch	1 pc
Instruction manual	1 pc
8P network cable	1 ps
Charging adaptor	1 ps only for NF-858C
8P extender adaptor	1 pc
Built-in Lithium Battery	2 pcs

# **Diagram of Series Products**





NF-868

NF-708

NF-8601









NF-806B

NF-816

NF-820









NF-300

NF-813C

NF-803A







NF-468B

NF-2100