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NOYAFA NF-858C

NOYAFA NF-858C Multifunction Cable Tester User Manual

Model: NF-858C

1. Introduction

The NOYAFA NF-858C is a versatile multifunction cable tester designed for network and telecommunication professionals. It integrates several essential functions including cable tracing, continuity testing, length measurement, Power over Ethernet (PoE) detection, and a Visual Fault Locator (VFL) for fiber optic cables. This manual provides detailed instructions for the proper use and maintenance of your device.

Key Features:

- **VFL Function:** Checks for fiber faults, winding, and breaks.
- **Cable Tracing:** Locates cables with anti-jamming capabilities, even in environments with AC interference.
- **Cable Measurement:** Measures cable length and identifies cable errors (open, short, cross).
- **PoE Detection:** Identifies power-providing pins and measures voltage on PoE switches.
- **Telephone Line Analysis:** Determines telephone cable condition (tip or ring) and polarity (anode or cathode).

2. Package Contents

Upon unpacking your NOYAFA NF-858C, please verify that all the following items are included:

- NF-858C Transmitter (Main Unit)
- NF-858C Receiver (Probe)
- Remote Units (4 sets)
- BNC-RJ11 Cable Adaptor (1 set)
- RJ45 Cable Adaptor (1 set)
- 8P Extender Adaptor (1 pc)
- Cable Clip (1 set)
- Charging Adaptor (1 set)
- Lithium Battery (2 sets, likely one installed, one spare or for receiver)
- User Manual (this document)

- Carrying Case



Image: The complete NOYAFA NF-858C kit, including the main unit, receiver, remote units, various adaptors, charging cable, and carrying case.

3. Product Components

Familiarize yourself with the main components of the NF-858C cable tester:



Image: A detailed diagram labeling the various ports, buttons, and features of the NF-858C main unit and receiver, including the probe, VFL, RJ45 ports, BNC port, power button, LCD screen, and sensitivity adjustment.

- **Transmitter (Main Unit):** Features an LCD screen, power button, navigation buttons (SET, OK, LEFT/UP, RIGHT/DOWN), RJ45 port, BNC port, VFL port, and Micro USB charging port.
- **Receiver (Probe):** Equipped with a probe tip, scan LED, charging LED, sensitivity adjustment dial, OFF/ON button, speaker, and RJ45 port.
- **Remote Units:** Compact units with RJ45 and BNC connectors for remote cable testing.

4. Setup

4.1. Battery Installation and Charging

The NF-858C units are powered by 3.7V 1000mAh Lithium batteries. Ensure batteries are charged before first use.

1. **Charging:** Connect the charging adaptor to the Micro USB port on both the Transmitter and Receiver units. The charging LED will illuminate during charging and turn off when fully charged.

2. **Power On/Off:** Press and hold the power button on the Transmitter or the OFF/ON button on the Receiver to power the units on or off.



Image: The product function display, highlighting the USB charging capability for both the main unit and the receiver. The image shows the charging indicator and the battery symbol on the LCD screen.

5. Operating Instructions

5.1. General Operation

- Use the **LEFT/UP** and **RIGHT/DOWN** buttons to navigate through menu options on the LCD screen.
- Press **OK** to confirm a selection or start a test.
- Press **SET** to enter settings or return to the previous menu.

5.2. Cable Tracing (Scan Mode)

This function helps locate and identify specific cables within a bundle, even with AC interference.

1. Connect the cable to be traced to the appropriate port (RJ45, BNC) on the Transmitter.

2. Select 'SCAN' mode on the Transmitter.
3. Turn on the Receiver (probe) and adjust its sensitivity using the dial.
4. Move the Receiver's probe along the cable bundle. The Receiver will emit an audible tone and/or flash its LED when it detects the signal from the traced cable.



Image: The NF-858C main unit and receiver being used to scan and identify a target UTP/STP cable within a network setup, indicated by a 'Beep' sound.



Image: The NF-858C main unit and receiver demonstrating the cable tracking function on a coiled blue network cable, and also illustrating cable continuity testing.

▶ **Watch video online**
Multifunction cable tester with VFL

Video: A comprehensive demonstration of the NOYAFA NF-858C's various functions, including cable tracing, continuity testing, and length measurement. This video provides a detailed overview of how to operate the device for different cable testing scenarios.

5.3. Cable Continuity Testing (CONT Mode)

This mode checks for open circuits, short circuits, and cross-overs in LAN and Coax cables.

1. Connect one end of the cable to the Transmitter's RJ45 or BNC port.
2. Connect the other end of the cable to a Remote Unit (for LAN/Coax) or the Receiver (for direct testing).
3. Select 'CONT' mode on the Transmitter. The LCD will display the wiring status, indicating any faults.

▶ **Watch video online**

Video: A short demonstration of the NF-858C performing a continuity test on a network cable, showing the pin-to-pin mapping on the LCD screen to identify any wiring faults.

5.4. Cable Length Measurement

Measure the length of various cables up to 2000 meters.

1. Connect the cable to be measured to the Transmitter's RJ45 or BNC port.
2. Select 'Length' mode from the menu.
3. Press **OK** to start the measurement. The length will be displayed on the LCD screen.



Image: The NF-858C main unit displaying the cable length measurement function, indicating a range of 2.5m to 2000m.

5.5. Power over Ethernet (PoE) Testing

Identify PoE power pins and measure voltage.

1. Connect the Transmitter to a PoE-enabled port on a switch or device.
2. Select 'PoE' mode. The LCD will display which pins are providing power and the detected voltage.

▶ **Watch video online**

Cable Tester with VFL Function

Video: A demonstration of the NF-858C's PoE function, showing how it identifies which pins are providing power and detects the voltage from a PoE switch.

5.6. Visual Fault Locator (VFL)

Use the VFL to quickly locate breaks, bends, or poor connections in fiber optic cables.

1. Connect the fiber optic cable to the VFL port on the Transmitter.
2. Activate the VFL function. A visible red laser light will be emitted.
3. Observe the fiber cable for light leakage, which indicates a fault.



Image: The NF-858C main unit with a fiber optic cable connected to its VFL port, demonstrating the emission of a red laser light to detect faults in the fiber.

5.7. Telephone Line Status

Determine the condition and polarity of telephone lines.

1. Connect the telephone line to the appropriate port on the Transmitter (using the RJ11 adaptor if necessary).
2. Select 'TEL' mode. The display will show the line status (e.g., standby, off-hook) and polarity.

5.8. Port Flashing

Locate a connected network port on a switch or router by making its indicator light flash.

1. Connect the Transmitter to a network port on the switch.
2. Select 'Port Flash' mode. The corresponding port's LED on the switch will flash, helping you identify it.

6. Maintenance

- Keep the device clean and free from dust and moisture. Use a soft, dry cloth for cleaning.
- Store the device in its carrying case when not in use to prevent damage.
- Recharge the batteries regularly, even if the device is not used frequently, to maintain battery health.
- Avoid exposing the device to extreme temperatures or direct sunlight.

7. Troubleshooting

- **Device not powering on:** Ensure the battery is charged. Connect the charging cable and try again.
- **Inaccurate length measurement:** Verify that the cable type setting is correct. Ensure the cable is properly connected and not damaged.
- **No signal during cable tracing:** Check the cable connection to the Transmitter. Increase the Receiver's sensitivity. Ensure the Transmitter is in 'SCAN' mode.
- **VFL not working:** Ensure the fiber cable is clean and properly connected. Check for any physical damage to the VFL port.

8. Specifications

Feature	Specification
Model	NF-858C
Brand	NOYAFA
LCD Screen	58 x 40mm
Tone Frequency	130kHz
Max Testing Range	2000m
Trace Cable Connection to Switch	Anti-jamming
Compatible Connectors	RJ45, BNC, VFL, Micro USB
Low Battery Display	3.4 ± 0.2V
Storage Data	6 sets
Battery Type	3.7V 1000mAh Lithium battery (2 sets included)
Transmitter Dimensions (LxWxD)	135 x 78 x 35 mm

Feature	Specification
Receiver Dimensions (LxWxD)	203 x 45 x 33mm
Remote Unit Dimensions (LxWxD)	107 x 30 x 24mm
Power Source	Battery Powered
UPC	889251359804

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact NOYAFA customer service directly. Details are typically available on the manufacturer's official website or through your retailer.

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