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NOYAFA NF-8508

NOYAFA NF-8508 Network Tester User Manual

Multifunctional Cable and Fiber Optic Testing Device

1. Introduction

The NOYAFA NF-8508 is a versatile network cable tester designed for professionals and enthusiasts alike. It integrates multiple functions including network cable tracing, optical power measurement, visual fault location (VFL), PoE testing, cable length measurement, and more. This manual provides detailed instructions for the safe and efficient operation of your NF-8508 device.



Image 1.1: The NOYAFA NF-8508 Multifunctional Network Cable Tester in various professional settings.

2. Product Overview

2.1 Key Features

- **Anti-interference Network Cable Tester:** Advanced digital/analog/PoE modes for high sensitivity and accurate target cable location with reduced noise interference.
- **Optical Power Meter & Port Flashing:** Automatically detects fiber optic frequency and displays port working speed, aiding in precise line and port identification.
- **Multifunctional Capabilities:** Includes Continuity Test, Cable Scan, Port Flash, Length Measurement, PoE Power Supply Test, QC Test, Optical Power Meter, VFL (Visual Fault Locator), and NVC (Non-Contact Voltage) functions.

- **PoE Test:** Verifies cable mapping polarity and voltage of PoE network switches, supporting up to 60VDC. Automatically switches between 10M/100M/1000M modes.
- **Cable Length Test:** Measures cable length up to 200m for RJ45, telephone lines, and BNC cables.
- **Long-lasting Battery & Type-C Charging:** Built-in 1500mAh 3.7V lithium battery provides up to 10 hours of operation. Convenient Type-C charging.
- **Integrated Flashlight:** Assists in working in dark environments.

2.2 Components

The NOYAFA NF-8508 package typically includes:

- 1x NF-8508 Main Detector Unit
- 1x Remote Receiver Unit
- USB Type-C Charging Cable
- User Manual (this document)

2.3 Device Layout



Image 2.1: Detailed diagram of the NF-8508 main unit and remote receiver, highlighting buttons and ports.

Familiarize yourself with the buttons, ports, and display of both the main unit and the remote receiver for optimal operation.

3. Setup

3.1 Charging the Device

The NF-8508 features a built-in 1500mAh 3.7V lithium battery. Before first use, ensure the device is fully charged.

1. Connect the provided USB Type-C charging cable to the Type-C interface on both the main unit and the remote receiver.
2. Plug the other end of the USB cable into a compatible USB power adapter (not included).
3. The charging indicator on the device will show charging status. A full charge typically takes a few hours.



Image 3.1: The NF-8508 main unit and remote receiver connected for Type-C charging.

3.2 Initial Power On

Press and hold the power button on the main unit to turn it on. The display will illuminate, showing the main menu or last used function.

4. Operating Instructions

The NF-8508 offers a range of testing functions accessible via its intuitive interface. Use the navigation buttons (OK, Up, Down, Back) to select and confirm options on the main unit's display.

4.1 Cable Scan (Wire Tracing)

This function helps locate target cables among bundles, even in noisy environments.

1. Connect the network cable to be traced to the RJ45 port on the main unit (transmitter).
2. On the main unit, navigate to the "SCAN" function.
3. Select either "Digital Mode" or "Analog Mode" based on your environment. Digital mode offers higher anti-interference capabilities.
4. Use the remote receiver to scan the cables. The receiver will emit an audible signal, increasing in intensity as it approaches the target cable.



Image 4.1: Performing a cable scan with the NF-8508 in digital/analog mode.

4.2 Continuity Test (CONT)

Checks for open circuits, short circuits, and cross-connections in network cables.

1. Connect one end of the network cable to the RJ45 port on the main unit and the other end to the RJ45 port on the remote receiver.
2. Select the "CONT" function on the main unit.
3. The display will show the wiring status, indicating any faults.

4.3 Port Flash

Helps identify the corresponding port on a network switch or router by making its indicator light flash.

1. Connect the network cable to the main unit's RJ45 port and the other end to a port on the network device.
2. Select the "Flash" function.
3. The connected port's LED on the network device will flash, allowing for easy identification.

4.4 Cable Length Measurement

Measures the length of network, telephone, and BNC cables up to 200 meters.

1. Ensure the cable is disconnected from all network devices.
2. Connect one end of the cable to the main unit's RJ45 (or other relevant) port.
3. Select the "Length" function.
4. The device will display the measured length of each wire pair.



Image 4.2: The NF-8508 displaying cable length measurement results.

4.5 PoE Test

Tests Power over Ethernet (PoE) switches for voltage and polarity.

1. Connect the network cable from a PoE switch to the main unit's RJ45 port.
2. Select the "PoE" function.
3. The device will display the PoE voltage, polarity, and detect 10M/100M/1000M modes.



Image 4.3: The NF-8508 displaying PoE test results, including voltage per pair.

4.6 QC Test (Quality Control Test)

Verifies the quality of cable connectors and wiring.

1. Connect the cable to the main unit's RJ45 port.
2. Select the "QC Test" function.
3. The device will analyze the connection and indicate if the cable is normal or abnormal.



Image 4.4: The NF-8508 performing a QC test on an Ethernet cable.

4.7 Optical Power Meter (OPM)

Measures the optical power of fiber optic cables.

1. Connect the fiber optic cable to the OPM port on the main unit.
2. Select the "OPM" function.
3. The device will display the optical power in dBm and automatically identify 7 standard wavelengths (850/1300/1310/1490/1550/1625/1650 nm).



Image 4.5: The NF-8508 displaying optical power meter readings with various connector types.

4.8 Visual Fault Locator (VFL)

Emits a visible red laser light into fiber optic cables to locate breaks, bends, or faulty connectors.

1. Connect the fiber optic cable to the VFL port on the main unit.
2. Select the "VFL" function.
3. Choose between continuous, fast flash, or slow flash modes.
4. Observe the fiber for red light leakage, indicating a fault.



Image 4.6: The NF-8508's VFL function emitting a red laser light.

4.9 Non-Contact Voltage (NVC)

The remote receiver includes an NVC function to detect AC voltage without direct contact.

1. Activate the NVC function on the remote receiver.
2. Bring the NVC sensor near an electrical wire or outlet.
3. The receiver will indicate the presence of AC voltage.



Image 4.7: The remote receiver's LED light, also indicating the NVC sensor location.

4.10 Settings (Set)

Access the "Set" menu to configure various device parameters, such as backlight brightness, auto-off time, and unit preferences.

5. Maintenance

5.1 Cleaning

- Wipe the device with a soft, dry cloth.
- Do not use abrasive cleaners or solvents.
- Keep the optical ports clean and free of dust to ensure accurate measurements. Use specialized fiber optic cleaning tools if necessary.

5.2 Storage

- Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- If storing for extended periods, ensure the battery is partially charged (around 50%) and recharge it every few months to maintain battery health.

6. Troubleshooting

6.1 Device Not Powering On

- Ensure the battery is charged. Connect the device to a Type-C charger and allow it to charge for at least 30 minutes before attempting to power on again.
- Verify the power button is pressed and held correctly.

6.2 Inaccurate Cable Test Results

- Check all cable connections to ensure they are secure and properly seated in the RJ45 ports.
- Inspect the cable for visible damage, kinks, or faulty connectors.
- Ensure the cable type (e.g., Cat5, Cat6) is appropriate for the test being performed.
- If testing length, ensure the cable is disconnected from all other devices.

6.3 No Signal During Cable Scan

- Confirm the main unit is transmitting a signal (check the display).
- Adjust the sensitivity of the remote receiver.
- Try switching between Digital and Analog scan modes. Digital mode is generally better in environments with high electromagnetic interference.

6.4 Optical Power Meter or VFL Not Working

- Ensure fiber optic connectors are clean and free of dust or debris.
- Verify the fiber optic cable is correctly connected to the OPM or VFL port.
- Check if the fiber optic cable itself is damaged.

7. Specifications

Feature	Specification
Brand	NOYAFA
Model Number	NF-8508
Power Source	Battery powered (Built-in 1500mAh 3.7V Lithium Battery)
Charging Interface	USB Type-C
Color	Blue
Item Dimensions (L x W x H)	10 x 10 x 8 centimeters
Max Operating Voltage	60 Volts (DC) for PoE testing
Cable Length Measurement Range	Up to 200 meters
Optical Power Meter Wavelengths	850/1300/1310/1490/1550/1625/1650 nm
VFL Output Power	10mW (typical)
Certifications	CSA, UL (as per product data)
UPC	705554039031

8. Warranty and Support

NOYAFA products are designed for reliability and performance. For warranty information and technical support, please refer to the official NOYAFA website or contact your local distributor. Keep your purchase receipt as proof of purchase for any warranty claims.

For specific inquiries or issues not covered in this manual, please reach out to NOYAFA customer service through their official channels.

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