NOYAFA NF-8508

NOYAFA NF-8508 Network Cable Tester User Manual

Model: NF-8508 | Brand: NOYAFA

Introduction

The NOYAFA NF-8508 is a versatile network cable tester designed for comprehensive network inspection, maintenance, and troubleshooting. It integrates multiple functions including cable continuity testing, length measurement, PoE testing, optical power measurement, visual fault location, and cable tracing. This manual provides detailed instructions for the proper setup, operation, and maintenance of your NF-8508 device.

Figure 1: NOYAFA NF-8508 main unit and receiver.

Setup

Package Contents:

- NF-8508 Transmitter Unit
- NF-8508 Receiver Unit
- RJ11 Adapter Line
- RJ45 Adapter Line
- Earphone
- Cable Clips
- Type-C Data Cable

Figure 2: Detailed view of NF-8508 transmitter and receiver ports and buttons.

Charging the Device:

The NF-8508 units are powered by a 3.7V 1500mAh polymer lithium battery. Use the provided Type-C data cable to charge both the transmitter and receiver units. Connect the cable to the Type-C interface on each unit and a suitable USB power source. The battery indicator on the display will show charging status.

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Video 1: Overview of NOYAFA NF-8508 functions, including charging and various testing modes. This video demonstrates the device's capabilities in a practical setting.

Operating Instructions

1. Cable Length Measurement

This function measures the length of network cables (CAT5, CAT6), telephone lines, and BNC cables up to 200 meters.

Connect one end of the cable to the "Length/Flash/PoE" port on the transmitter. Select "Length" from the main menu and press OK to start the test. The display will show the measured length for each pair.

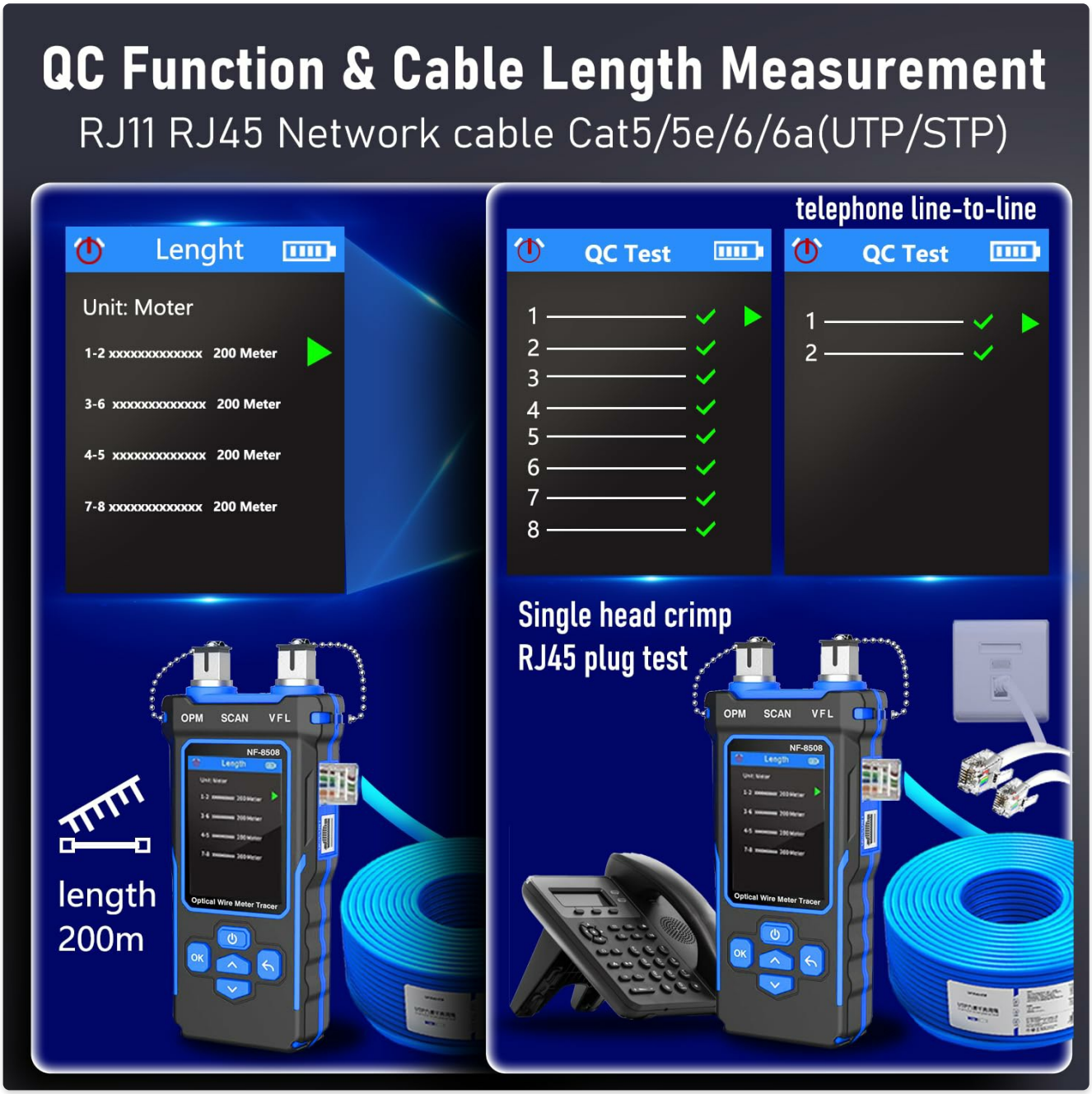

Figure 3: Cable length measurement interface and QC test results for RJ45 and telephone lines.

2. PoE Test

The PoE test identifies the standard (IEEE 802.3af/at) and non-standard PoE equipment, including voltage, polarity, and mid-span/end-span power supply. Connect the cable from the PoE source to the "Length/Flash/PoE" port. Select "PoE" from the menu and press OK. The device will display the power information for each pin.

Figure 4: PoE testing interface showing voltage and standard identification, alongside port flashing functionality.

3. Crystal Head QC Test

This function checks the quality of RJ45 crystal head crimping. Connect the RJ45 connector to the "QC/CONT" port on the transmitter. Select "QC Test" from the menu and press OK. The device will indicate if the crimping is correct for each pin.

Figure 5: Multiple use scenarios including NCV function, network cable tracing, and QC testing.

4. Optical Power Meter (OPM)

The OPM measures optical power across seven standard wavelengths (850/1300/1310/1490/1550/1625nm). Connect the fiber optic cable to the OPM port. Select "OPM" from the menu. You can switch units (dBm, dB, mW, µW, nW) and set reference values. The device will display the optical power reading.

Figure 6: Optical Power Meter interface displaying wavelength settings and power readings.

5. Visual Fault Locator (VFL)

The VFL function helps detect and locate fiber breaks, poor connections, fiber bends, or cracks by emitting a visible red laser light (10mW, 650nm). Connect the fiber optic cable to the VFL port. Select "VFL" from the menu. Observe the fiber for light leakage to identify faults. Note: For LC connectors, a separate converter head may be required.

Figure 7: Visual Fault Locator in action, highlighting its ability to detect fiber issues.

6. Cable Scan / Wire Tracing

This function allows quick tracing of UTP/STP cables. Connect the cable to be traced to the "SCAN" port of the transmitter. Use the receiver unit to scan along the cable path. The receiver will emit an audible beep when it detects the signal, helping to locate the target cable. Both digital and analog scan modes are available.

Figure 8: Cable Scan function for quickly tracing network cables.

7. Port Flash

The Port Flash function helps quickly identify the target port on a network switch or hub. Connect the transmitter to a port on the switch. Select "Flash" from the menu. The corresponding indicator light on the switch port will blink, allowing for easy identification of the connected cable.

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Video 2: Demonstration of the NOYAFA NF-8508's port flash function, showing how to locate a network port on a switch.

8. NCV (Non-Contact Voltage) Function

The receiver unit includes an NCV detection feature, allowing it to detect AC voltage in household wires without direct contact. This is useful for safety and quick voltage presence checks.

Maintenance

- Keep the device clean and free from dust and moisture. Use a soft, dry cloth for cleaning.
- Avoid exposing the device to extreme temperatures or direct sunlight.
- Store the device in its protective case when not in use to prevent damage.
- Regularly charge the battery to maintain its lifespan, even if the device is not frequently used.
- Do not attempt to disassemble or repair the device yourself. Refer to qualified service personnel for any repairs.

Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low battery or battery depleted.	Charge the device using the provided Type-C cable.
Inaccurate cable length measurement.	Incorrect cable type selected or damaged cable.	Ensure the correct cable type (CAT5/CAT6) is selected. Check cable for physical damage.
No PoE voltage detected.	PoE source is off, cable is faulty, or non-standard PoE.	Verify PoE source is active. Test cable continuity. Note that some non-standard PoE may not be fully detected.
VFL light is dim or not visible.	Fiber end is dirty or damaged, or VFL port is obstructed.	Clean fiber end and VFL port. Ensure proper connection.

Specifications

- **Model Number:** NF-8508
- **Cable Test Types:** CAT5, CAT6, RJ11, RJ45, BNC
- **Length Measurement Range:** Up to 200 meters
- **PoE Test:** 8-core automatic identification (mid-span/end-span), standard/non-standard equipment identification.
- **Optical Power Meter (OPM):** 850/1300/1310/1490/1550/1625nm wavelengths, -70 to +10 dBm range.
- **Visual Fault Locator (VFL):** 10mW, 650nm.
- **Power Source:** Battery Powered (3.7V 1500mAh Polymer Lithium Battery)
- **Connectivity:** RJ45, RJ11, Optical ports (SC/FC/ST interfaces supported with adapters, LC requires converter).
- **Dimensions (Transmitter):** 148 x 70 x 32 mm
- **Dimensions (Receiver):** 198 x 50 x 28 mm
- **Country of Origin:** China

Warranty and Support

For warranty information and technical support, please refer to the official NOYAFA website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims. A digital version of the user manual is available here.