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**NOYAFA NYF-NF8209S**

# NOYAFA NF-8209S Network Cable Tester User Manual

Model: NYF-NF8209S
Brand: NOYAFA

## 1. Introduction

The NOYAFA NF-8209S is a versatile and feature-rich network cable tester designed for professionals and DIY enthusiasts. It integrates multiple functions including continuity testing, PoE detection, cable length measurement, port flashing, and cable scanning. This manual provides detailed instructions for the safe and effective use of your device.

Figure 1.1: NOYAFA NF-8209S Network Cable Tester and its included accessories.

## 2. Safety Information

- Always read and understand all instructions before operating the device.
- Do not use the device in wet environments or near water.
- Ensure proper battery installation and charging. Use only the specified charging method (Type-C).
- Avoid direct contact with live electrical circuits when performing NCV tests.
- Keep the device away from strong electromagnetic fields.
- Do not attempt to disassemble or modify the device. Refer all servicing to qualified personnel.

## 3. Package Contents

Verify that all items are present in your package:

- NOYAFA NF-8209S Network Cable Tester (Emitter)

- NOYAFA NF-8209S Receiver
- RJ45 Interface Network Cable
- RJ11 Interface Telephone Line
- RJ45 Alligator Clip Wire
- Type-C Charging Cable
- Headphones
- User Manual
- Toolkit/Pouch
- Color Box Packaging

Figure 3.1: Included components of the NF-8209S kit.

## 4. Product Overview

The NF-8209S consists of two main units: the Emitter (main tester) and the Receiver (probe). Familiarize yourself with the various ports, buttons, and indicators on both units.

Figure 4.1: Detailed view of the Emitter and Receiver with labeled components.

## Key Features:

- **CONT (Continuity) Test:** Checks for open, short, cross, and other faults in STP/UTP LAN cables.
- **Length Measurement:** Accurately measures cable length up to 200 meters.
- **Scan Mode:** Digital and Analog modes for tracing cables.
- **PoE Test:** Identifies PoE voltage, PSE type (af/at standard), and pinout.
- **Port Flashing:** Locates network ports on switches/hubs by flashing their indicator lights.
- **QC Test:** Checks crystal head crimping quality.
- **NCV (Non-Contact Voltage) Test:** Detects AC voltage (50V-1000V).
- **LED Light:** Built-in flashlight for low-light conditions.
- **Type-C Charging:** Rechargeable lithium battery for extended use.

Figure 4.2: Overview of the NF-8209S's multi-functional capabilities.

## 5. Setup

### 5.1 Battery Installation and Charging

The NF-8209S features a built-in 1400 mAh rechargeable lithium battery. Before first use, ensure the device is fully charged.

1. Connect the provided Type-C charging cable to the charging port on both the Emitter and Receiver units.
2. Connect the other end of the Type-C cable to a standard USB power adapter (not included) or a computer USB port.
3. The charging indicator will show the charging status. Once fully charged, disconnect the cable.

Figure 5.1: Charging the NF-8209S units via Type-C.

## 6. Operating Instructions

### 6.1 Continuity Testing (CONT)

This mode tests for open circuits, short circuits, cross-overs, and other wiring faults in RJ45, CAT5, CAT5E, CAT6, CAT6A, RJ12, RJ11, CAT7, and CAT8 cables.

1. Connect one end of the network cable to the RJ45 port on the Emitter unit.
2. Connect the other end of the network cable to the RJ45 remote interface on the Receiver unit.
3. Turn on both the Emitter and Receiver.
4. Select the "CONT" mode on the Emitter. The display will show the wiring status, indicating any faults.

Figure 6.1: Continuity testing for open, short, and cross faults.

## 6.2 PoE NCV Test

This function determines which pins are supplying power, detects voltage, and identifies the PSE type (according to 802.3af/at standard). It also detects the presence of AC voltage (50V-1000V).

1. For PoE test: Connect the network cable to the RJ45 port on the Emitter. The device will automatically detect PoE presence and display details.
2. For NCV test: Hold the Receiver unit near an AC voltage source (e.g., power outlet, live wire). The NCV indicator will light up and an audible alert will sound if AC voltage is detected.

Figure 6.2: Performing a PoE test with the NF-8209S.

Figure 6.3: NCV function in use, detecting AC voltage.

## 6.3 Digital Cable Scan (Line Tracing)

The NF-8209S offers both normal (analog) and anti-interference (digital) scanning modes to accurately trace cables.

1. Connect the network cable to be traced to the RJ45 port on the Emitter.
2. Select the "SCAN" mode on the Emitter.
3. On the Receiver, select either "Normal Mode" for general tracing or "Anti-interference Mode" for environments with strong noise.
4. Use the Receiver's probe to trace the cable. The signal strength indicator and audible tone will guide you to the cable.

Figure 6.4: Dual-mode cable scanning in action.

## 6.4 Port Flashing

This feature helps locate the corresponding network port on a hub or switch by making its indicator light flash.

1. Connect the network cable to be identified to the RJ45 port on the Emitter.
2. Select the "Flash" mode on the Emitter.
3. Observe the indicator lights on the connected hub or switch. The port connected to the Emitter will flash at a distinct frequency, allowing for quick identification.

Figure 6.5: Using port flashing to identify a network cable on a switch.

## 6.5 Cable Length Test

Measure the length of network cables (RJ45) and detect breakpoints without calibration. The measuring range is 1-200 meters with up to 99% accuracy.

1. Ensure the cable is disconnected from any active network devices.
2. Connect one end of the cable to the RJ45 port on the Emitter.
3. Select the "Length" mode on the Emitter. The display will show the measured length and any detected breakpoints.

Figure 6.6: Cable length measurement function.

## 6.6 Crystal Head Crimping Test (QC Test)

This function verifies if the crystal head (RJ45 connector) is properly crimped to the cable.

1. Connect the crimped RJ45 cable to the RJ45 port on the Emitter.
2. Select the "QC Test" mode. The display will indicate if the crimping is successful or if there are issues.

## 6.7 LED Light

The Receiver unit includes an LED flashlight for use in dark or low-light environments.

- Press the "Lamp" button on the Receiver to turn the LED light on or off.

### 6.8 Adjustable Sensitivity Knob

The Receiver features an adjustable sensitivity knob to fine-tune the signal detection during cable scanning, allowing for more precise tracing in various environments.

- Rotate the knob on the Receiver to adjust the sensitivity (High, Medium, Low) as needed for optimal cable tracing.

## 7. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For long-term storage, charge the battery to approximately 50% every three months to maintain battery health.
- **Port Protection:** Keep the RJ45 and other ports free from dust and debris. Use the included caps if available.

## 8. Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Device does not power on. | Low battery or no charge. | Charge the device fully using the Type-C cable. |
| Inaccurate cable length measurement. | Cable connected to active network device; cable type not supported. | Ensure cable is disconnected from all devices. Verify cable type is supported (RJ45). |
| No signal during cable scan. | Low sensitivity; strong interference; cable not connected properly. | Increase receiver sensitivity. Switch to Anti-interference mode. Reconnect cable to Emitter. |
| PoE test not working. | No PoE power on cable; incorrect connection. | Ensure the connected port provides PoE. Verify cable is correctly inserted. |
| NCV not detecting voltage. | Voltage too low; not close enough to source. | Ensure voltage is within 50V-1000V range. Move receiver closer to the source. |

## 9. Specifications

| Feature | Detail |
|---|---|
| Model Number | NYF-NF8209S |
| Product Dimensions | 1.5 x 0.9 x 6.6 inches (Emitter); 1.5 x 0.9 x 7.8 inches (Receiver) |
| Item Weight | 0.2 Pounds (approx. 3.2 ounces) |
| Power Source | Battery Powered (Built-in 1400 mAh rechargeable lithium battery) |
| Color | Black |
| Cable Length Test Range | 1-200 meters (approx. 3-656 feet) |

| Feature | Detail |
| --- | --- |
| NCV Voltage Detection | 50V-1000V AC |
| Supported Cable Types | RJ45, CAT5, CAT5E, CAT6, CAT6A, RJ12, RJ11, CAT7, CAT8 |

## 10. 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 their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.
For further assistance, visit the NOYAFA Store on Amazon.

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### Related Documents

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| | NOYAFA NF-8209S Network Cable Tester Instruction Manual<br>Comprehensive instruction manual for the NOYAFA NF-8209S Network Cable Tester, detailing its features, operation, testing procedures for continuity, length, PoE, port flashing, QC, and NCV functions, along with technical specifications and troubleshooting FAQs. |
| | NOYAFA NF-8506 Ethernet Cable Tester User Manual<br>This user manual provides comprehensive instructions for operating the NOYAFA NF-8506 Ethernet Cable Tester, covering its functions, specifications, and packing list. It details various tests including continuity, cable tracking, port flash, cable length measurement, PoE test, Ping test, IP scan, and switch test. |
| | NOYAFA NF-8209S Network Cable Tester Instruction Manual<br>Comprehensive instruction manual for the NOYAFA NF-8209S Network Cable Tester, covering its features, operating instructions, technical parameters, and troubleshooting. |
| | NOYAFA NF-8209 Network Cable Tester User Manual<br>User manual for the NOYAFA NF-8209 Network Cable Tester, detailing its features, operation, specifications, and troubleshooting. |