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NOYAFA NF-8209S

NOYAFA NF-8209S Network Cable Tester User Manual

Model: NF-8209S | Brand: NOYAFA

1. Introduction

The NOYAFA NF-8209S is an advanced network cable tester designed for comprehensive cable testing and troubleshooting. It integrates multiple functions including cable length measurement, PoE detection, NCV voltage testing, port flashing, and various scanning modes to efficiently identify and resolve network cable issues. This manual provides detailed instructions for the safe and effective use of your device.



Figure 1: NOYAFA NF-8209S Network Cable Tester

2. Safety Information

Please read and understand all safety warnings and operating instructions before using this device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not use the device if it appears damaged or is not functioning correctly.
- Avoid using the device in wet environments or during thunderstorms.
- Do not attempt to repair or modify the device. Refer all servicing to qualified personnel.
- Keep the device away from children.
- Ensure proper battery handling and charging procedures are followed.

3. Package Contents

Verify that all items listed below are included in your package:

- NF-8209S Main Tester (Emitter)
- NF-8209S Receiver
- Remote Identifier
- RJ45 Interface Network Cable
- RJ11 Interface Telephone Line
- RJ45 Alligator Clip Wire
- Type-C Charging Cable
- Earphones
- Toolkit Bag
- User Manual



Figure 2: Included Accessories and Components

4. Product Overview

The NF-8209S consists of a main tester (emitter) and a receiver, designed for various network cable testing functions. Key features include:

- **Cable Length Test:** Measures cable length from 1 to 500 meters.
- **Scanning Modes:** Normal, Anti-interference, and PoE modes for accurate wire tracing.
- **Port Flashing:** Locates network ports on hubs/switches by flashing indicators.
- **PoE Test:** Detects PoE voltage, PSE type (af/at standard), and power-supplying pins.
- **NCV Voltage Test:** Non-Contact Voltage detection for electrical safety.
- **Continuity Test:** Identifies cable crossovers, short circuits, and breaks in STP/UTP LAN cables.
- **Crystal Head Crimp Test:** Verifies proper crimping of RJ45 connectors.
- **Built-in LED Light:** For use in low-light environments.
- **Rechargeable Battery:** 1400mAh lithium battery with Type-C charging.



Figure 3: Labeled Components of the NF-8209S

5. Setup

5.1 Charging the Device

The NF-8209S features a built-in 1400mAh rechargeable lithium battery. Use the provided Type-C charging cable to charge the main tester and receiver.

- Connect the Type-C cable to the charging port on the device and to a standard USB power adapter (not included).
- The battery indicator on the display will show charging status.
- A full charge ensures longer operation time.



Figure 4: Charging the NF-8209S

5.2 Powering On/Off

Press and hold the power button on the main tester or receiver to turn the device on or off.

6. Operating Instructions

The NF-8209S offers various testing modes accessible through its intuitive interface.

6.1 Cable Length Measurement

This function allows you to measure the length of network cables (Cat5, Cat6, etc.) up to 500 meters.

1. Connect one end of the network cable to the RJ45 port on the main tester.
2. Navigate to the 'Length' mode on the main tester's display.
3. The device will automatically measure and display the cable length.
4. No calibration is required for accurate measurements.



Figure 5: Cable Length Measurement in progress

6.2 Scanning Modes (Wire Tracing)

Use the receiver to trace cables and locate them within bundles or walls. Three scanning modes are available:

- **Normal Mode:** Standard cable tracing.
- **Anti-interference Mode:** Reduces noise and interference for more accurate tracing in complex environments.
- **PoE Mode:** Specifically designed for tracing cables with Power over Ethernet.

1. Connect the network cable to the RJ45 port on the main tester.
2. Select the desired scanning mode on the main tester.
3. Use the receiver to scan along the cable path. The signal strength indicator on the receiver will help pinpoint the cable.
4. Adjust the sensitivity knob on the receiver for optimal tracing.



Figure 6: Dual Mode Cable Scan in action



Figure 7: Anti-Interference Scanning

6.3 PoE Test

This function identifies Power over Ethernet (PoE) presence and characteristics.

1. Connect the network cable to the RJ45 port on the main tester.
2. Select the 'PoE' mode.
3. The device will display information such as voltage, PSE type (IEEE 802.3af/at standard), and which pins are supplying power.

Video 1: Demonstration of NF-8209S network cable testing functions, including PoE detection.

6.4 Port Flashing

Quickly locate the corresponding network port on a hub or switch.

1. Connect one end of the network cable to the main tester.
2. Connect the other end to a port on the hub/switch.
3. Select the 'Flash' mode on the main tester.
4. The corresponding port indicator on the hub/switch will flash, allowing for easy identification. This function supports 10M/100M/1000M hubs/switches.

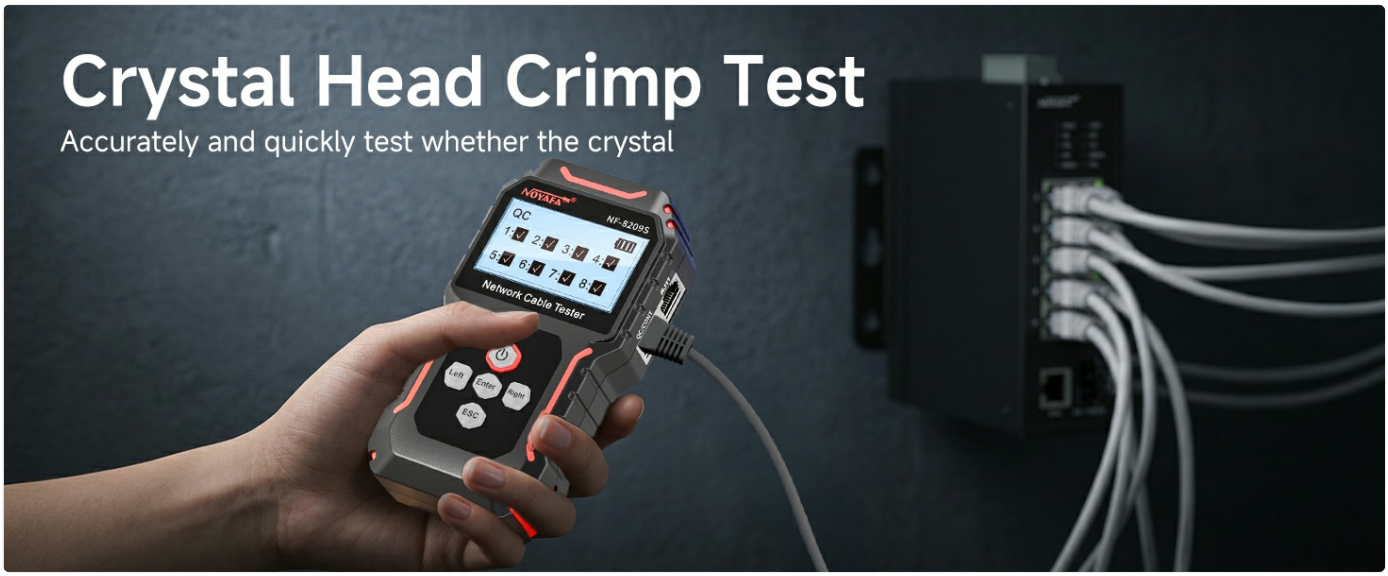


Figure 8: Port Flashing & Link Test

6.5 NCV Voltage Test

Detects the presence of AC voltage without direct contact, enhancing safety.

1. Select the 'NCV' mode on the receiver.
2. Bring the tip of the receiver close to the suspected voltage source (e.g., electrical outlet, live wire).
3. The receiver will indicate the presence of AC voltage (50V-1000V) through visual and/or audible alerts.



Figure 9: NCV (Non-Contact Voltage Detection)

6.6 Continuity Test / Wiremap

Tests the physical state of STP and UTP LAN cables for opens, shorts, and crossovers.

1. Connect one end of the network cable to the RJ45 port on the main tester.
2. Connect the other end to the remote identifier.
3. Select the 'CONT' (Continuity) mode on the main tester.
4. The display will show the wiremap, indicating any faults such as open circuits, short circuits, or crossed pairs.



Figure 10: Continuity Test

6.7 Crystal Head Crimp Test

Verifies the quality of RJ45 connector crimping.

1. Connect the crimped RJ45 connector to the designated port on the main tester.
2. Select the 'QC Test' mode.
3. The device will analyze the crimp and indicate if it is properly made.

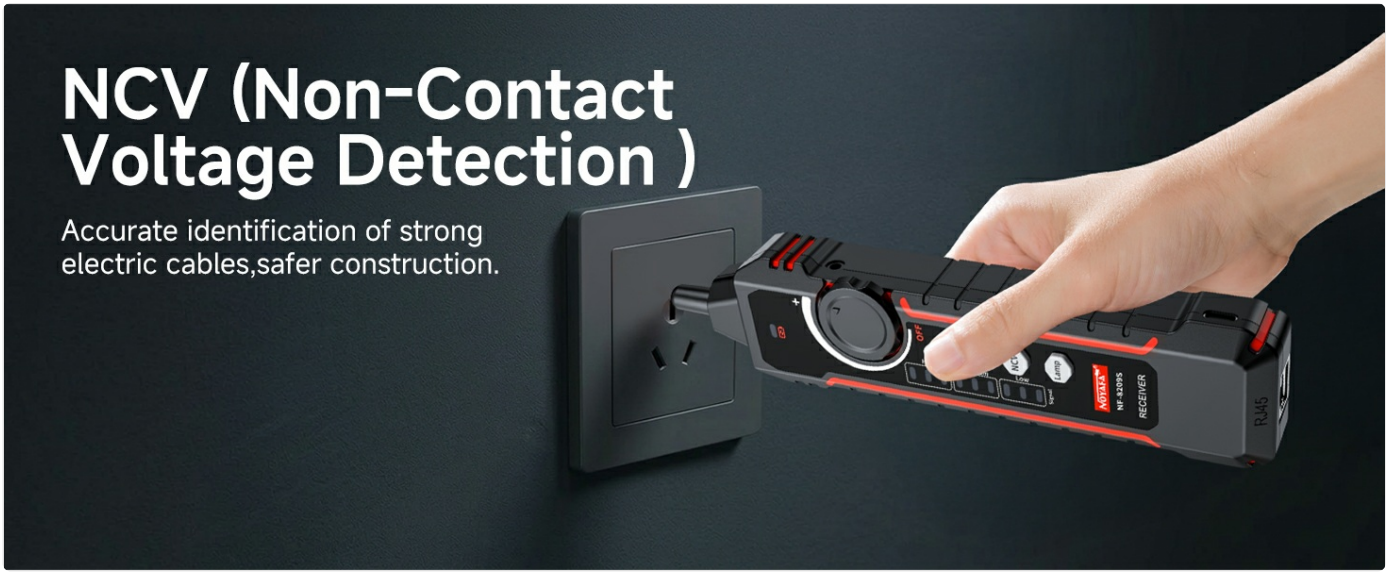


Figure 11: Crystal Head Crimp Test

7. Maintenance

7.1 Cleaning

- Wipe the device with a soft, dry cloth.
- Do not use abrasive cleaners or solvents.

7.2 Storage

- Store the device in a cool, dry place away from direct sunlight.
- If storing for an extended period, ensure the battery is partially charged and recharge periodically to maintain battery health.
- Keep the device and accessories in the provided toolkit bag for protection.

8. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on	Low battery; Device fault	Charge the battery; Contact support if issue persists.
Inaccurate cable length measurement	Cable damage; Incorrect connection	Inspect cable for damage; Ensure secure connection to main tester.
Cannot trace cable effectively	High interference; Incorrect mode; Low receiver sensitivity	Switch to Anti-interference or PoE mode; Adjust receiver sensitivity; Ensure main tester is transmitting.
PoE test shows no power	No PoE source; Faulty PoE device/cable	Verify PoE source is active; Test with a known working PoE cable/device.

9. Specifications

Feature	Detail

Feature	Detail
Brand	NOYAFA
Model	NF-8209S
Power Source	Battery Powered (1400mAh Lithium)
Cable Length Measurement Range	1-500 meters
Compatible Cables	Cat5, Cat6, Ethernet Cable, RJ45 Network Cable, Telephone Line
PoE Test	Voltage, PSE Type (af/at), Power Pins
NCV Voltage Detection	50V-1000V AC
Operating Temperature	32 °F to 122 °F (0 °C to 50 °C)
Item Weight	500 g
Dimensions	5 x 3.5 x 9 inches
Certifications	CE, FCC, ISO 9001, RoHS

10. Warranty and Support

NOYAFA products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your product packaging or visit the official NOYAFA website. Keep your purchase receipt as proof of purchase for warranty claims.

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