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› [Cruiser](#) /

› Cruiser NF-8601 Multi-Functional Network Cable Tester User Manual

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Model: NF-8601

1. INTRODUCTION

The Cruiser NF-8601 is a multi-functional network cable tester designed for comprehensive cable testing and analysis. It integrates various functions such as PoE PING testing, cable tracing, length measurement, breakpoint detection, and voltage detection. This device is an essential tool for network technicians and professionals, providing accurate and efficient solutions for network maintenance and installation.

2. SAFETY INFORMATION

- **High Voltage Warning:** Do not connect the device to high voltage lines to prevent damage to the unit and potential injury.
- **Sharp Parts:** Handle the device with care as it may contain sharp parts. Store it in a safe place to avoid accidental harm.
- **Correct Port Usage:** Always connect cables to the correct ports as indicated on the device. Incorrect connections can lead to inaccurate readings or damage.
- **Read Manual:** Thoroughly read this user manual before operating the device to ensure proper and safe usage.

3. PACKAGE CONTENTS

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

- NF-8601 Emitter (Main Unit)
- NF-8601 Receiver
- NF-8601 Remote Identifier (Wiremap)
- Charger (1 set)
- Adapted Telephone Line (1 set)
- Adapted Network Cable (1 set)
- Cable Clips (1 set)
- Micro USB Charger Wire (1 set)
- Toolkit/Carrying Case (1 set)



Figure 3.1: All components of the Cruiser NF-8601 kit, including the main unit, receiver, remote, cables, charger, and user manual, neatly organized within the carrying case.

4. PRODUCT OVERVIEW

The NF-8601 system consists of three main components: the Emitter (main unit), the Receiver, and the Remote Identifier (Wiremap). Each component plays a crucial role in the various testing functions.



Figure 4.1: The Cruiser NF-8601 Emitter (left, with LCD screen), Receiver (middle, handheld), and Remote Identifier (right, small unit).

4.1 Emitter (Main Unit)

The Emitter is the primary control unit, featuring a 2.8-inch LCD color screen for clear display of test results. It includes ports for RJ45, RJ11, and BNC cables, along with control buttons for navigation and function selection.



Figure 4.2: Detailed view of the RJ45 (MAIN), RJ11, and BNC ports located on the top of the NF-8601 Emitter unit.

4.2 Receiver

The Receiver is a handheld unit used for tracing cables and detecting signals emitted by the Emitter. It features indicator lights for power, charging, NCV (Non-Contact Voltage), and scan functions, along with a rotary dial for sensitivity adjustment.

4.3 Remote Identifier (Wiremap)

The Remote Identifier is a compact unit used in conjunction with the Emitter for wiremap testing of network and telephone cables. It helps identify short circuits, open circuits, cross-overs, and reverse connections.

5. SETUP

Before using the NF-8601, ensure the device is adequately charged and all necessary cables are prepared.

1. **Charging the Device:** Connect the provided micro USB charger wire to the Emitter unit and plug the charger into a power

outlet. The device uses a 3.7V lithium battery. Ensure it is fully charged before initial use.

2. **Power On:** Press and hold the power button on the Emitter unit to turn it on. The LCD screen will illuminate.
3. **Cable Preparation:** Have the cables you intend to test (RJ11, RJ45, BNC) ready. Use the adapted telephone line and network cable provided if needed.

6. OPERATING INSTRUCTIONS

The NF-8601 offers a variety of testing modes. Navigate through the menu using the directional and OK buttons on the Emitter.

6.1 PoE PING Testing

This function allows you to test Power over Ethernet (PoE) status and perform PING tests on network cables.

1. Select 'PoE PING' from the main menu on the Emitter.
2. Connect the network cable to the RJ45 MAIN port on the Emitter.
3. The device will display PoE voltage, polarity, and standard (e.g., 802.3af/at).
4. For PING testing, enter the IP address of the target device and initiate the test.

6.2 Cable Tracing (Hunting)

Use this function to locate a specific cable among a bundle of unknown cables (RJ11, RJ45, BNC).

1. Connect one end of the target cable to the appropriate port (RJ11, RJ45, or BNC) on the Emitter.
2. Select 'Scan' or 'Hunt' mode on the Emitter.
3. Use the Receiver to scan along the cable bundle. The Receiver will emit an audible tone, which will be loudest when it is near the target cable.

6.3 Port Flash Function

This feature helps visually identify the connected LAN cable on a switch or router without needing the Receiver.

1. Connect the network cable to the RJ45 MAIN port on the Emitter.
2. Select 'Port Flash' mode on the Emitter.
3. Observe the port lights on the connected switch or router. The port connected to the Emitter will flash, allowing for easy identification.

6.4 Scanning Cable on PoE Switch

The NF-8601 is capable of scanning cables connected to a PoE switch without causing damage to the switch.

1. Connect the network cable from the PoE switch to the RJ45 MAIN port on the Emitter.
2. Select the appropriate scanning mode. The device is designed to safely interact with PoE environments.

6.5 Locating Faults and Wiremap Testing

This function identifies short circuits, open circuits, cross-overs, and reverse connections for RJ11, RJ45, and BNC cables.

1. Connect one end of the cable to the Emitter's corresponding port (RJ11, RJ45, or BNC).
2. Connect the other end of the cable to the Remote Identifier (Wiremap unit).
3. Select 'Wiremap' or 'Fault Test' mode on the Emitter.
4. The LCD screen will display the wiring status, indicating any faults such as opens, shorts, crosses, or reverses.
5. For 2-core cables, the device can also locate the exact short circuit location.

6.6 Cable Length Measurement

Measure the length of network, telephone, and coaxial cables accurately.

1. Ensure the cable is disconnected from all other devices.
2. Connect one end of the cable to the Emitter's appropriate port.
3. Select 'Length Test' mode. The device will display the cable length in meters or feet.

6.7 Voltage Detecting Function

Detect the presence of voltage in cables.

1. Select 'Voltage Detect' mode.
2. Use the Receiver's NCV function or connect the cable to the Emitter (if applicable) to detect voltage.

6.8 Memory and Storage

The NF-8601 can save up to 160 groups of test data and export them to a computer.

1. After a test, select the 'Save' option to store the results.
2. To export data, connect the Emitter to a PC using the micro USB cable. The device will appear as a storage device, allowing you to transfer saved data (in .txt format).

7. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your NF-8601.

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in its carrying case in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** Recharge the lithium battery regularly, even if the device is not in frequent use, to maintain battery health. Avoid fully discharging the battery for extended periods.
- **Port Protection:** Keep the RJ45, RJ11, and BNC ports free from dust and debris. Use protective caps if provided.

8. TROUBLESHOOTING

If you encounter issues with your NF-8601, refer to the following common problems and solutions:

- **Device does not power on:**
 - Ensure the battery is fully charged. Connect the charger and wait for a few minutes before attempting to power on again.
 - Check the power button for any physical damage or obstruction.
- **Inaccurate cable length measurement:**
 - Ensure the cable is completely disconnected from all other devices before testing.
 - Verify that the cable type setting (if applicable) matches the cable being tested.
 - Check for any damage to the cable or connectors.
- **No signal detected during cable tracing:**
 - Ensure the Emitter is in 'Scan' or 'Hunt' mode and the cable is properly connected.
 - Adjust the sensitivity dial on the Receiver.

- Check the Receiver's battery level.

- **Wiremap shows errors (short, open, cross):**

- Inspect the cable and connectors for visible damage.
- Ensure both ends of the cable are securely connected to the Emitter and Remote Identifier.
- Test with a known good cable to verify the device's functionality.

If problems persist, contact Cruiser customer support for further assistance.

9. SPECIFICATIONS

Model Number	NF-8601
Power Source	Battery Powered (1 Lithium Ion battery included)
Display	2.8 inches LCD Color Screen
Supported Cable Types	RJ11, RJ45, BNC
Data Storage	160 groups of data (exportable to PC in .txt format)
Package Dimensions	12.48 x 9.13 x 2.68 inches
Item Weight	1.42 Pounds
Manufacturer	NOYAFA

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact the seller directly. You may also visit the official Cruiser store for additional resources and contact details:

[Visit the Cruiser Store on Amazon](#)

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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