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› YuqiaoTime NF-917 Multifunctional Optical Fiber Tester User Manual

YuqiaoTime NF-917

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Model: NF-917

INTRODUCTION

This manual provides detailed instructions for the safe and effective use of the YuqiaoTime NF-917 Multifunctional Optical Fiber Tester. The NF-917 is an all-in-one device designed for optical power measurement and red light fault location in fiber optic networks. It supports 10 wavelengths testing and features a 650nm red light source for continuity checks.

Please read this manual thoroughly before operating the device and retain it for future reference.

SAFETY INFORMATION

Observe the following safety precautions to prevent injury and avoid damage to the device:

- Do not expose the device to extreme temperatures, humidity, or direct sunlight.
- Avoid direct eye exposure to the red light source. The 650nm laser can be harmful to eyes.
- Use only the specified charging cable and power adapter.
- Do not attempt to disassemble or repair the device. Refer all servicing to qualified personnel.
- Keep the device away from water and other liquids.

WHAT'S IN THE BOX

Verify that all items are present upon unpacking:

- NF-917 Main Tester
- Type-C USB Cable

- Certification Card
- Battery Note Card
- Carry Bag
- User Manual (this document)
- Gift Box (packaging)



① Main tester

② Type-C USB cable

③ Certification card

④ Battery note card



⑤ Carry bag



⑥ User manual



⑦ Gift box

Image: The NF-917 package contents, showing the main tester unit, a Type-C USB charging cable, a certification card, a battery precaution note, a blue carry bag, a printed user manual, and the product's gift box packaging.

SETUP

1. Charging the Device

1. Connect the provided Type-C USB cable to the charging port on the NF-917.
2. Plug the other end of the USB cable into a compatible USB power adapter (not included) or a computer's USB port.
3. The battery indicator on the display will show charging status. Charge until the indicator shows a full

battery.

2. Attaching Connectors

The NF-917 supports 2.5mm general connectors, including FC and SC types, via interchangeable adaptor heads.

- Ensure the device is powered off before attaching or detaching connectors.
- Carefully align the desired FC or SC connector with the appropriate port (OP for Optical Power, RL for Red Light) and insert it firmly.
- Use the interface protective caps when ports are not in use to prevent dust and damage.

2.5mm General Connector

FC/SC connector supported, interchangeable adaptor heads



Image: The NF-917 device displaying its 2.5mm general connector ports, with separate insets showing how FC and SC fiber optic connectors are attached to the device.

Interface Protective Cap



Silicone Buttons



High-definition colour screen



Image: A close-up of the NF-917 highlighting its interface protective caps covering the fiber ports, the tactile silicone buttons for operation, and the clear, high-definition color display screen.

OPERATING INSTRUCTIONS

1. Powering On/Off

Press and hold the **Power button** (marked with a power symbol) to turn the device on or off.

2. Optical Power Meter Function (OP)

1. Connect the fiber optic cable to be tested to the **OP port**.
2. Press the **OP button** to activate the optical power meter.
3. Use the **Wavelength (λ) button** to cycle through the 10 available test wavelengths (850nm, 980nm, 1270nm, 1300nm, 1310nm, 1490nm, 1550nm, 1577nm, 1625nm, 1650nm). Select the appropriate wavelength for your measurement.
4. The measured optical power will be displayed on the screen in dBm.
5. Press the **REF button** to set the current power reading as a reference value for relative measurements.

Accurate Optical Power Meter

Measurement error within $\pm 0.3\text{db}$



Image: The NF-917 device showing a measurement of -70.00 dBm at a wavelength of 1310nm on its display, illustrating its function as an accurate optical power meter.

10 WAVELENGTHS TESTING



Input Protection



Overheat Protection



Wavelength Memory



Error $\leq 0.3\text{db}$

- ✓ 850nm
- ✓ 980nm
- ✓ 1270nm
- ✓ 1300nm
- ✓ 1310nm
- ✓ 1490nm
- ✓ 1550nm
- ✓ 1577nm
- ✓ 1625nm
- ✓ 1650nm



Image: The NF-917 device's screen showing a comprehensive list of the 10 wavelengths it supports for testing, ranging from 850nm to 1650nm, along with icons for input protection, overheat protection, wavelength memory, and error tolerance.

3. Red Light Source Function (RL)

The 650nm red light source is used for visual fault location and continuity testing.

1. Connect the fiber optic cable to be tested to the **RL port**.
2. Press the **RL button** to activate the red light source.
3. Observe the fiber for any visible light leakage, which indicates a break or fault. The red light can penetrate long-distance fibers for quick continuity detection.

Red Light Wavelength 650nm



Image: The NF-917 device connected to a yellow fiber optic cable, with the red light source active and emitting a visible 650nm red light from the end of the fiber, set against a data center background.



Image: The NF-917 optical fiber tester in operation, connected to a blue-tipped fiber optic cable, resting on a wooden surface against a grey wall, illustrating a common testing setup.

MAINTENANCE

- **Cleaning:** Regularly clean the optical ports and connector adaptors with a lint-free cloth and optical cleaning solution to ensure accurate measurements. Dust and debris can significantly affect performance.
- **Storage:** Store the device in its carry bag in a cool, dry place when not in use. Always use the protective caps on the optical ports.
- **Battery Care:** To prolong battery life, avoid fully discharging the battery frequently. Charge the device regularly, even if not in constant use.

TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
|---------|----------------|----------|

| Problem | Possible Cause | Solution |
|------------------------------------|---|---|
| Device does not power on. | Low or depleted battery. | Charge the device using the provided Type-C USB cable. |
| Inaccurate optical power readings. | Dirty optical ports or connectors; incorrect wavelength selected. | Clean optical ports and connectors. Ensure the correct wavelength is selected for the fiber being tested. |
| Red light not visible or weak. | Dirty RL port or connector; fiber break too far or severe. | Clean the RL port and connector. Check for severe fiber damage. |
| Display is blank or frozen. | Software glitch; low battery. | Perform a hard reset by holding the power button for 10-15 seconds. Charge the device. |

SPECIFICATIONS

| Feature | Detail |
|--------------------------------|---|
| Model Number | NF-917 |
| Functions | Optical Power Meter, Red Light Source (VFL) |
| Test Wavelengths | 850nm, 980nm, 1270nm, 1300nm, 1310nm, 1490nm, 1550nm, 1577nm, 1625nm, 1650nm (10 wavelengths) |
| Red Light Wavelength | 650nm |
| Connector Type | 2.5mm General Connector (FC/SC supported via interchangeable adaptors) |
| Measurement Error | Within $\pm 0.3\text{dB}$ |
| Power Source | Battery Powered (Type-C Charging Port) |
| Product Dimensions (L x W x H) | 6.5 x 4.33 x 4.72 inches |
| Item Weight | 1 Kilogram (2.2 Pounds) |
| Manufacturer | SHENZHEN NOYafa TECHNOLOGY Co., LIMITED |

WARRANTY

The YuqiaoTime NF-917 Multifunctional Optical Fiber Tester comes with a standard manufacturer's warranty against defects in materials and workmanship. Please refer to the warranty card included in your package for specific terms, conditions, and duration. Keep your proof of purchase for warranty claims.

SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact YuqiaoTime customer support. Contact information can typically be found on the manufacturer's website or on the packaging materials.

When contacting support, please have your product model (NF-917) and purchase details ready.