

Optical Fiber Identifier

LNT-OF-C



MODELS

LNT-OF C

Choice Optical Fiber Identifier

Warning:

To reduce the risk of fire or electric shock, do not expose the equipment to rain or humid environments. To prevent electric shock, do not open or disassemble the housing. Repairs and services should be performed by qualified personnel.

Laser Safety:

The laser is harmful to the eyes, do not disassemble the housing or look directly into the laser output port. Avoid direct eye exposure to the laser beam.

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Precautions for Use

Avoiding condensation:

Sudden changes in temperature should be avoided as much as possible. Do not use the device immediately after moving it from a cold environment to the warm environment or when the surrounding temperature rises quickly as condensation could form inside the device.

If the device experiences a sudden temperature change, stop using and let it acclimate for at least one hour before powering it on.

Storage:

When the device is stored for a long time without being used, it should be charged to a medium state of charge. Storing the battery at a very high or very low state of charge for prolonged periods may reduce battery life and performance.

Operational Instructions

1. **Power On/Off:** Press the power button briefly to turn on the device. All indicator lights (except the Bluetooth indicator) will illuminate for approximately 1 second and then turn off, indicating that the device has entered the normal testing mode.

Press and hold the power button for 2 seconds to turn off the device.

2. **Testing:** The device can test optical fibers with core diameters of 3mm, 2mm, 0.9mm, 0.25mm, etc.

The device is factory-calibrated with a 2mm patch cord as the standard. It tests the accuracy of power and direction at -5dBm and -35dBm, as well as the recognition of 270Hz, 1KHz, and 2KHz frequencies around -20dBm.

When testing with a 3 mm patch cord, the measured power value may be slightly higher than with a 2 mm patch cord; however, the overall results should be comparable.

When testing with a 0.9mm patch cord, a greater power deviation may occur. Depending on the clamping position and tightness, the reading may vary by 2 indicator levels.

For 0.25mm optical fibers, gently pinch the exposed optical fiber on both sides of the fixture and push inward to perform the test.

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Indicator Lights



Meaning of each indicator light on the panel:

- **Left LED:** Illuminates when the light in the optical fiber is from right to left.
- **Right LED:** Illuminates when the light in the optical fiber is from left to right.
- **270Hz, 1KHz, 2KHz LEDs:** The illumination of any of these LEDs indicates that the corresponding frequency of light is present in the optical fiber.

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- **dBm LED:** Illuminates to indicate the optical power in the fiber. For example, the illumination of the LED at the -20 position indicates that the optical power in the fiber is $\geq -20\text{dBm}$.
- **Battery LED:** Has three colors: green, yellow, and red. It lights up green when the voltage is $> 3.63\text{V}$, yellow when the voltage is between 3.63V and 3.4V , and red when the voltage is between 3.4V and 3.3V . The device will automatically shut down when the voltage is below 3.3V .
- The device will automatically shut down after 1 hour of being turned on by default.