

Choice Dual XG-PON/ GPON Power Meter

Installation Instructions



MODELS

LNT-OPM-CX

Choice Dual XF-PON / GPON Power Meter

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 a 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:

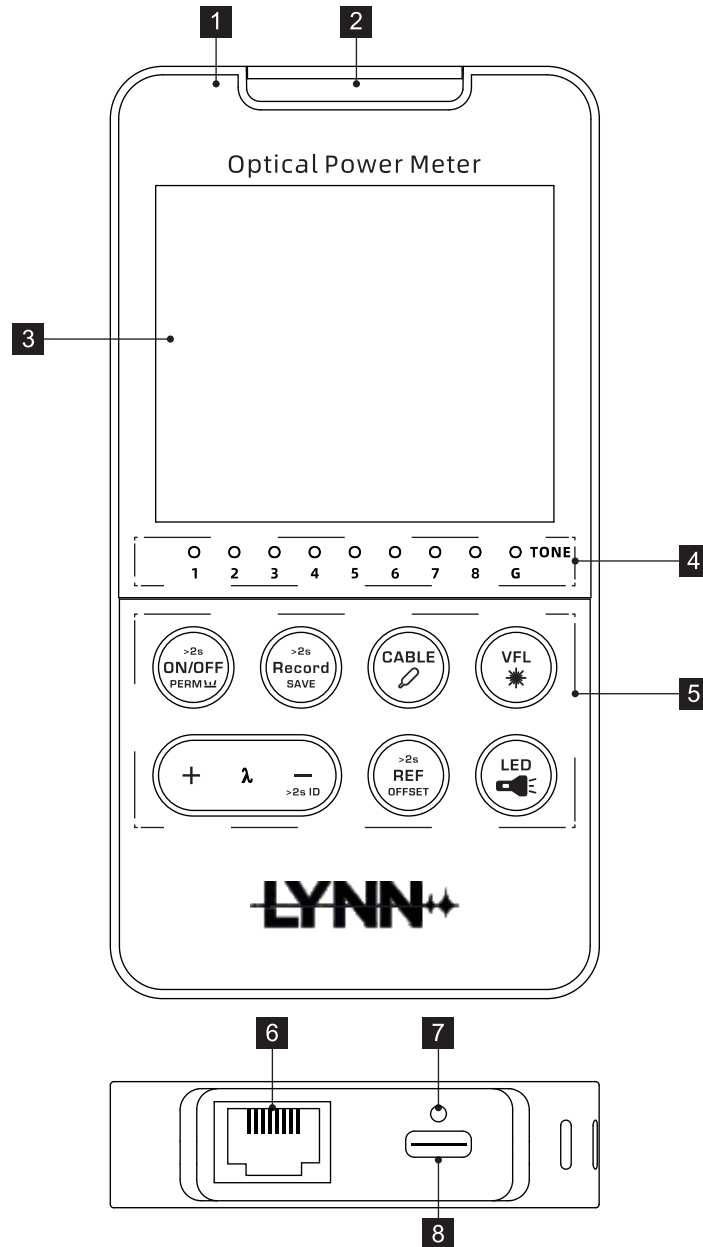
When the device is stored for a long time without being used, it should be charged to a medium state of charge. Storing the battery at a very high or very low state of charge for prolonged periods may reduce battery life and performance.

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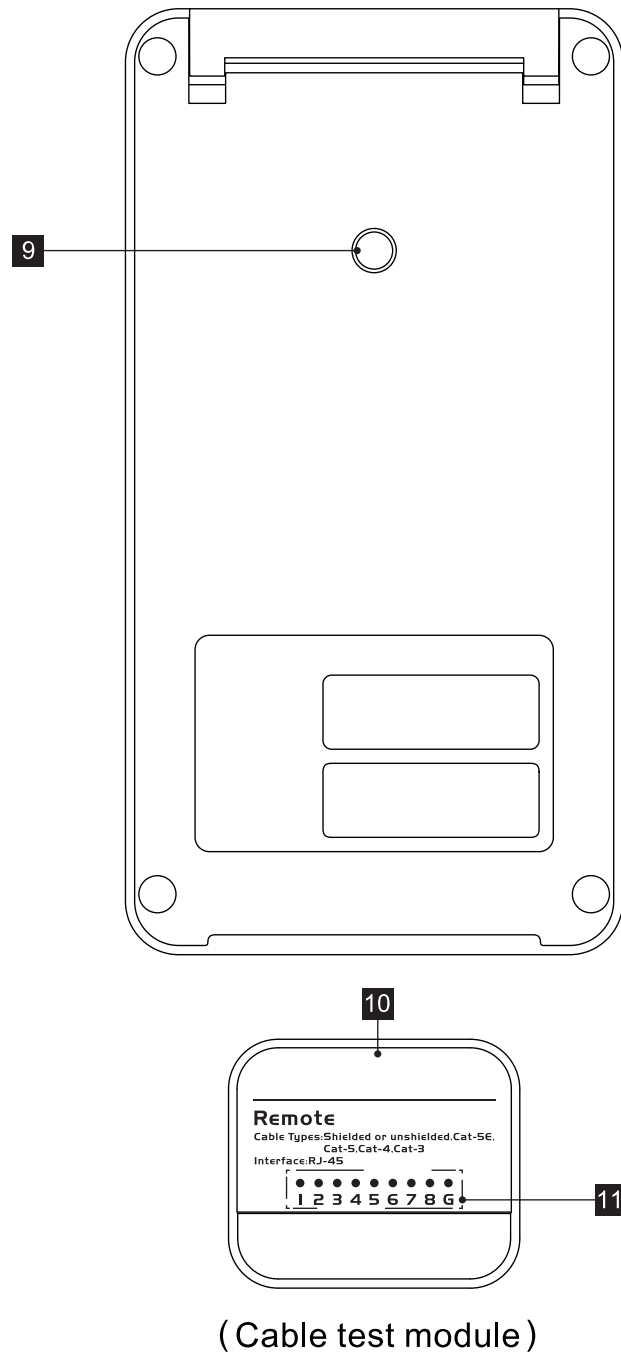
Buttons



- | | |
|-------------------------|------------------------------|
| 1 OPM connector | 2 VFL connector |
| 3 LCD | 4 RJ45 test indicator |
| 5 Function key | 6 RJ45 connector |
| 7 RJ45 connector | 8 Charging indicator |

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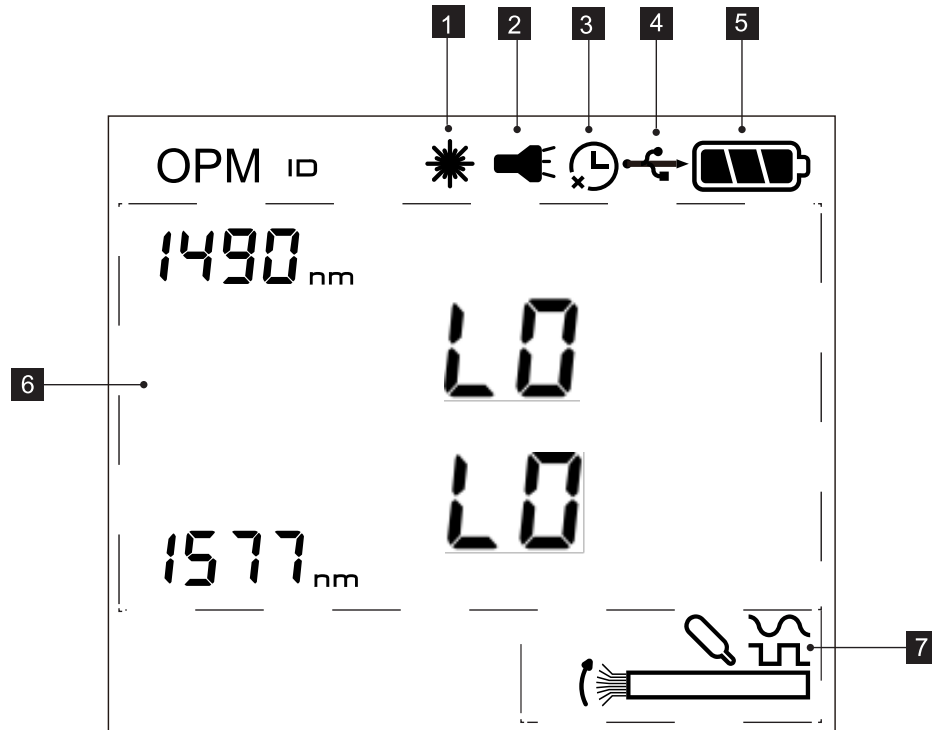
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- 9 LED light
- 10 RJ45 connector
- 11 RJ45 test indicator

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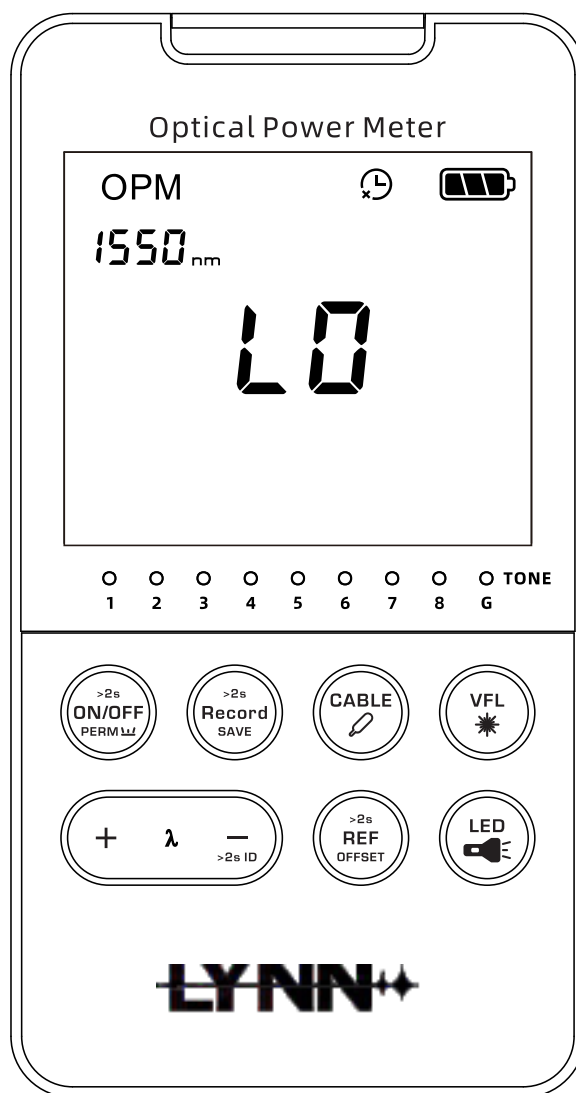
- | | |
|-------------------------|-----------------|
| 1 VFL | 2 LED light |
| 3 Power saving function | 4 Data transfer |
| 5 Battery indicator | 6 OPM |
| 7 Cable test | |

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Power On/Off, Auto Power Off



Press the “on/off” key to turn on the device, press this key for 2 seconds then it will turn off.

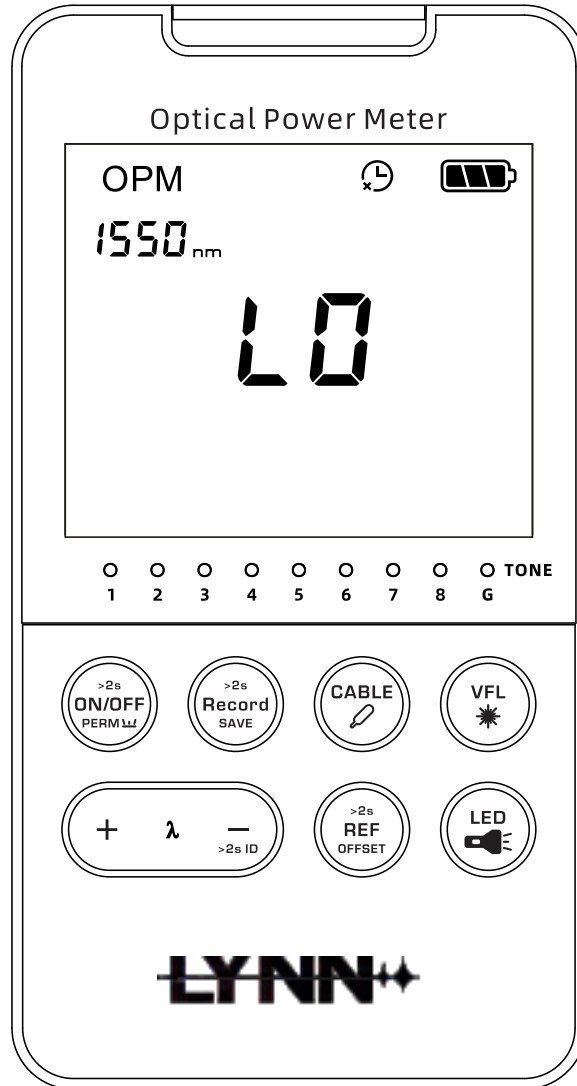
This device has a power-saving function, if there is no operation after normal start-up for 10 minutes, the device will automatically turn off. If you need to block this feature, and ensure the device stays in working condition at all times, press and hold "on/off" button, two seconds later the upper right side of the meter screen will display “” indication, this means the power saving function is disabled.

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Backlight



In the power-on state, short press the "on/off" button to control the on and off of the backlight.

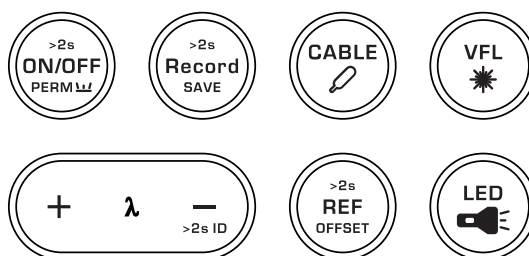
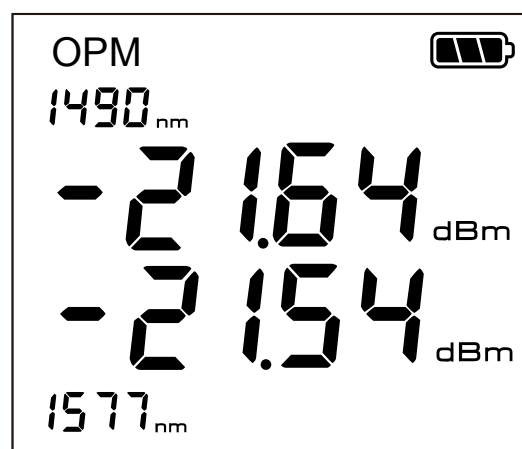
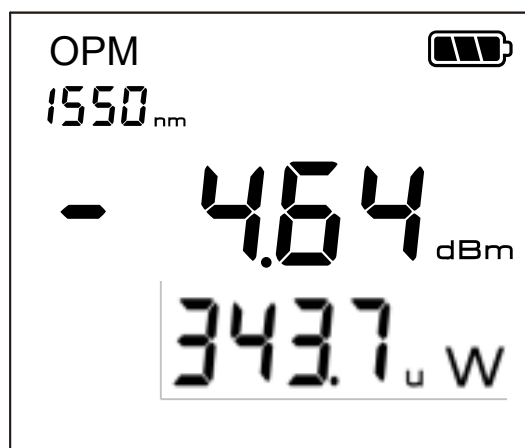
The backlight is used to illuminate the instrument display at night or in dark places.

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OPM – Wavelength Select



This device supports the dual - wavelength test mode of the wavelength-selective power meter and the single-wavelength test mode of the ordinary power meter. After the meter is turned on, press the "+" or "-" key, and it will cycle through the dual-wavelength mode and the 10 single calibrated wavelengths in sequence.

The calibration measurement wavelength of this series of optical power meters is:

Dual-wavelength mode: 1490 / 1577nm

Single-wavelength mode: 1270nm, 1286nm, 1300nm, 1310nm, 1342nm, 1490nm, 1550nm, 1577nm, 1625nm, 1650nm.

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OPM – Wavelength/Frequency Identification



The wavelength/frequency identification functions need to be combined with the matching OLS to work properly. The frequency can be automatically identified when measured using the matching OLS. "WAVE ID" can automatically identify the corresponding wavelength to match the OPM. Long press " $\overline{\text{ID}}$ " to turn on the wavelength identification function. At the same time "ID" is displayed next to the wavelength of the OPM, indicating that the current OPM has turned on the WAVE ID function. Long press again to exit WAVE ID mode. Turn off the machine and save the current wavelength identification settings.

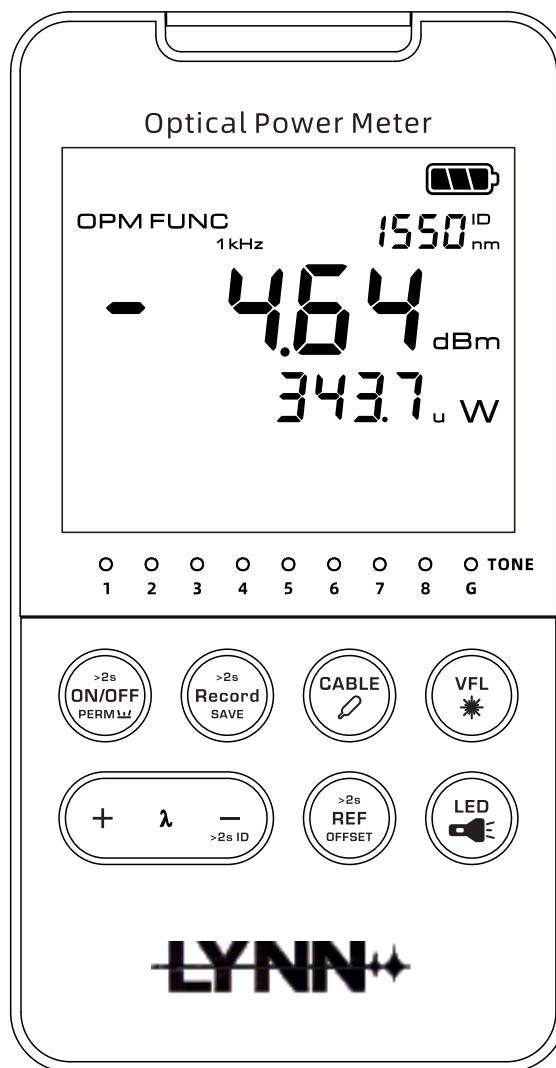
** In the dual – wavelength mode, the WAVE ID and frequency identification function is invalid.*

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OPM – Unit Select



dBm: Logarithmic power representing the actual measured power.

nW/uW/mW: 1mW=Represents the absolute value of the measured power.

$$10\log(\text{mW}) = (\text{dBm})$$

$$1\text{mW} = 1000\text{uW}, 1\text{uW} = 1000\text{nW}$$

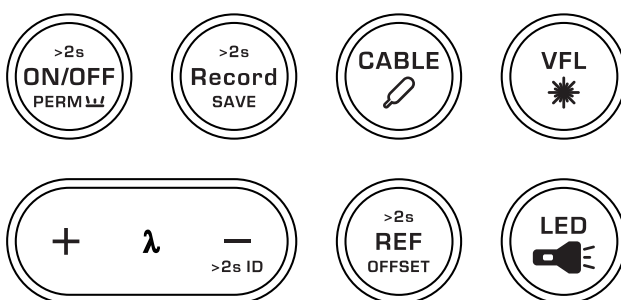
**Only "dBm" in dual-wavelength mode.*

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OPM – Unit Select



The setting of the reference value is generally used to remove the attenuation value that is not calculated in the actual line loss before measuring the actual line, or to compare the difference with the set standard power.

“” is used to switch units or set reference values. Short press this key and the screen will display the actual measured relative difference (dB) and the set new reference value.

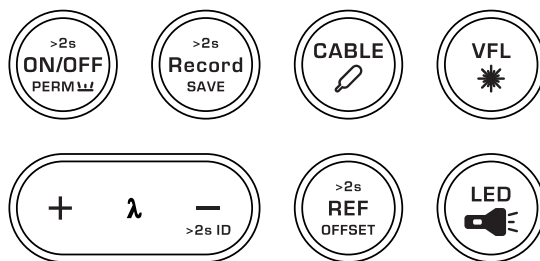
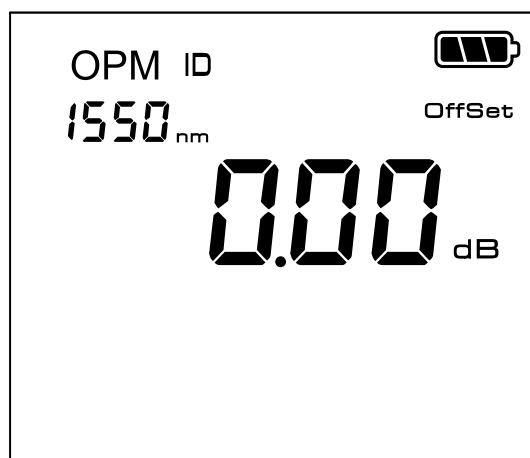
**In the dual - wavelength mode, the REF function is invalid.*

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OPM – Offset Settings



Long press “” to enter the offset setting interface.

Short press “” to adjust the setting offset. Short press “” to confirm and exit offset setting.

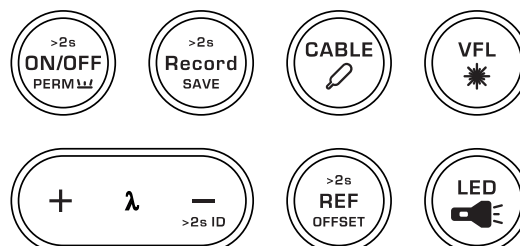
**For the two wavelengths of 1490 nm and 1577 nm in the dual-wavelength mode, their offsets are set respectively in their corresponding single-wavelength modes. The set results are equally effective in both the single-wavelength and dual-wavelength test modes.*

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OPM – Data Storage



The instrument has a data storage function, which can store the current measurement wavelength and measurement data into the instrument. The data is saved in dBm units.

Long press “” to store the current measurement information.

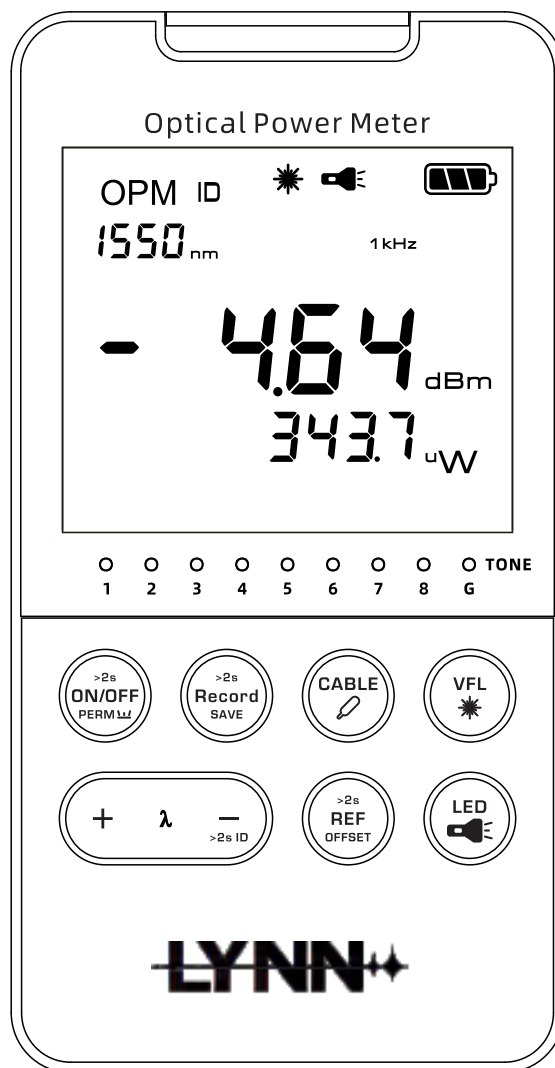
The absolute power information display position flashes three times and then disappears after the data serial number disappears, indicating that the storage is successful. Short press “” to enter the stored data viewing interface, short press “” to browse data up and down, and long press to quickly browse. The data sequence number increases gradually. The maximum number of pieces of data that can be stored is 1,000. After that, it will be overwritten one by one starting from the first piece. Short press again to exit the stored data viewing interface.

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Data Storage



Short press “” to control the switching and flashing of the VFL. Short press once to change the working status of the **VFL**: CW $\rightarrow$ Flashing $\rightarrow$ OFF. The red laser is output from the VFL outlet port in the middle.

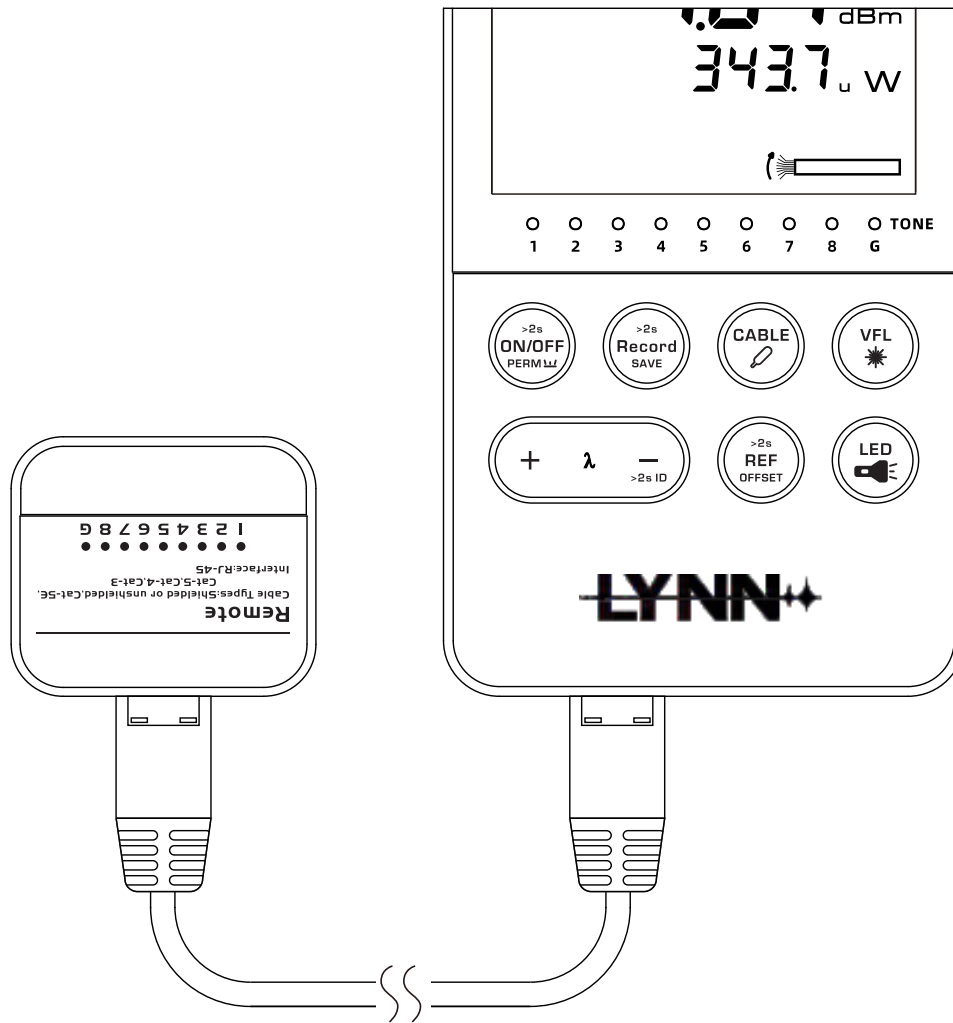
Long press “” to control the on and off of the LED light.

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Cable Test



Short press “” to enable the cable test function, and the icons in the network cable test information area will be displayed in sync status.

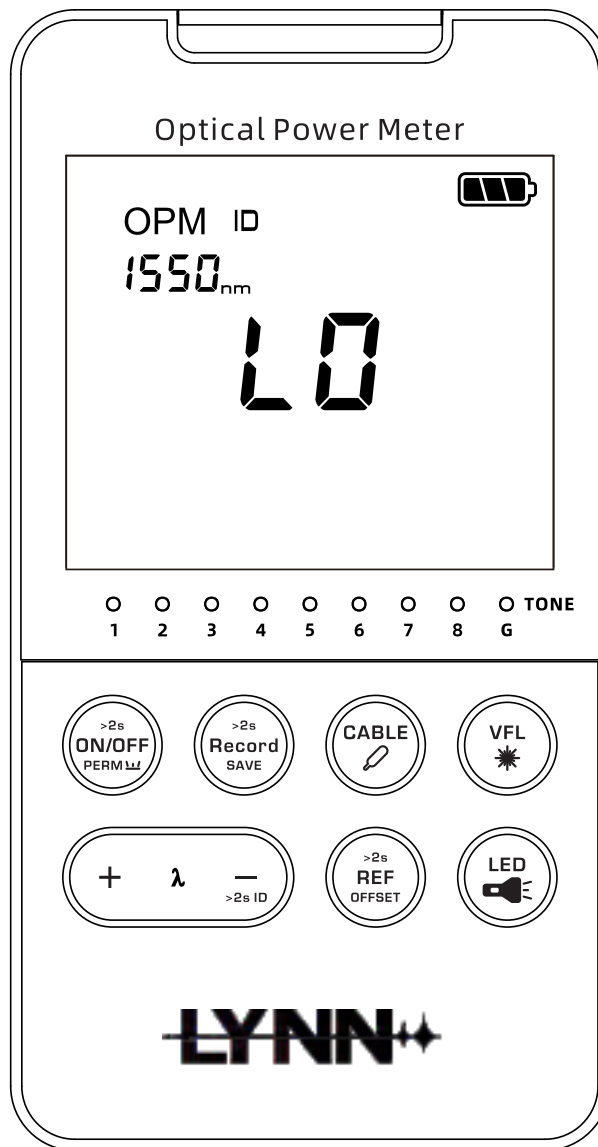
Connect both ends of the network cable to the host and module respectively. You can judge whether the network cable is qualified based on the lighting status of the host UI and module indicators.

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Battery Indicator



There are four levels of power detection instructions:

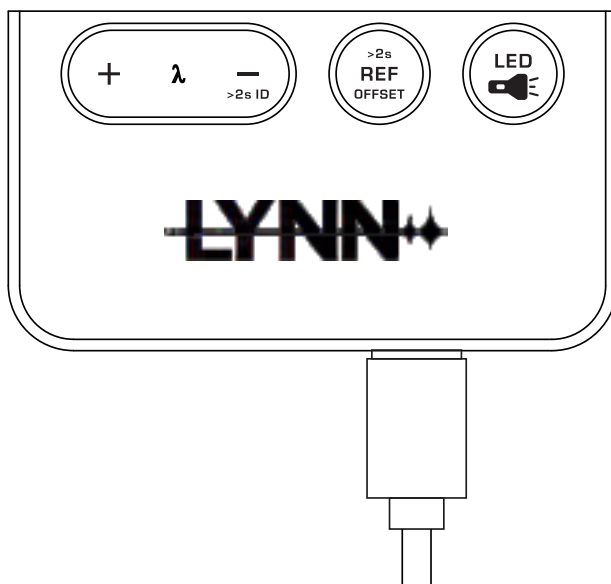
-  Indicates sufficient power
-  Indicates more power
-  Indicates low battery
-  Indicates low battery, please charge as soon as possible

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Battery Charge



This instrument has a charging function. When the indicator on the instrument indicates that the battery is low, you should shut down and charge in time. Long-term undervoltage will shorten the life of the rechargeable battery.

Use the recommended power adapter and cable to connect to the Type-C interface. The battery remaining indicator will flash during charging. When charging is completed, the battery remaining indicator will stop flashing.

At this point, the battery has finished fast charging and can be used directly. If charging is not stopped at this time, the device will continue to enter the trickle charging state, using a small current to replenish the naturally discharged power, but it should not exceed 48 hours.

**Recommended power adapter specification: 5V/1A*