

USER'S GUIDE  
OPTICAL LASER SOURCE

**English**

## WARNING

You are cautioned that changes or modifications not expressly approved in this document could void your authority to operate this equipment. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

## NOTE

As the laser is harmful to the eyes, do not attempt to disassemble the cabinet.



## CALSS I LASER PRODUCT

## Precautions for Use

### Use batteries

At the same time, can not use different style or different capacitance batteries. And only charge the rechargeable batteries.

### Avoiding condensation problems

As much as possible, avoid sudden temperature changes. Do not attempt to use the drive immediately after moving it from a cold to a warm location, to raising the room temperature suddenly, as condensation may form with in the drive. If the temperature changes suddenly while using the drive, stop using it and take out batteries for at least an hour.

### Storage

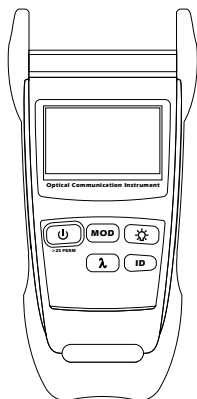
When long time no use, must take out the batteries to avoid destroying the device.

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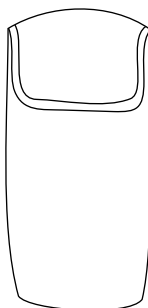
## First check the accessories

(If any accessory is short please relate with the dealer ASAP)

### Standard



Host



Bag

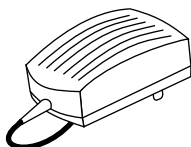


Manual

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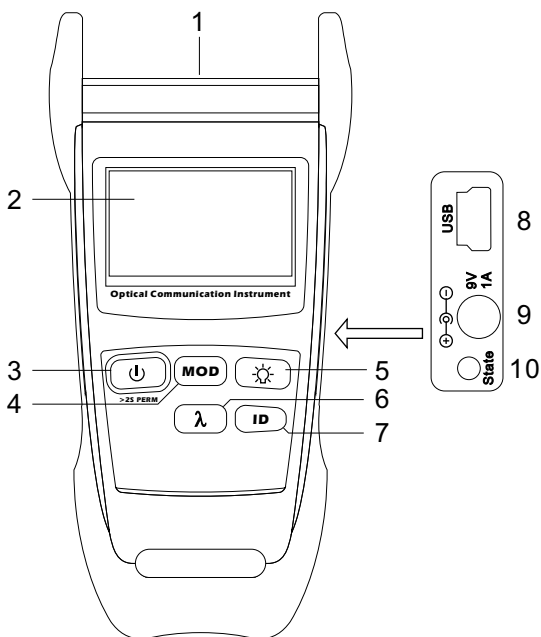
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### Optional



Chargeing

## Description



1-Fiber Adaptor

2-LCD

3-Power key

4-CW key

5-Backlight key

6-Wavelength shift key

7-Wavelength identification key

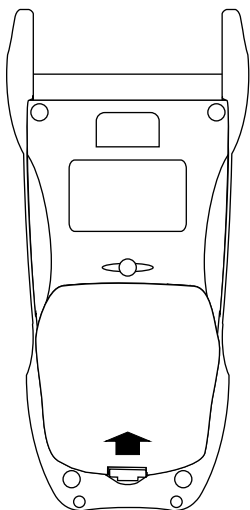
8-USB power supply

9-Battery charge jack

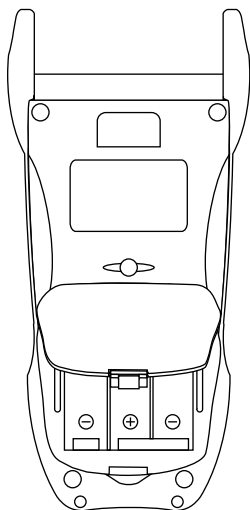
10-Led for battery charge

## Set batteries

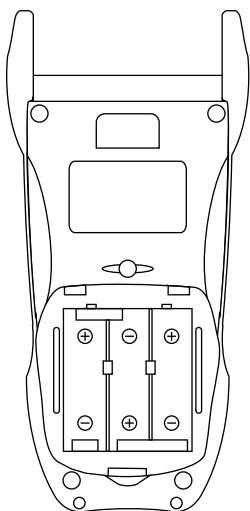
Warning: At the same time, can not use different style and different capacitance batteries.



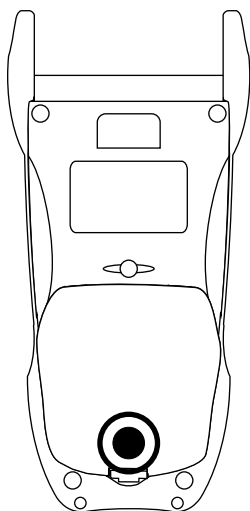
1. Press and push down



2. Open the lid



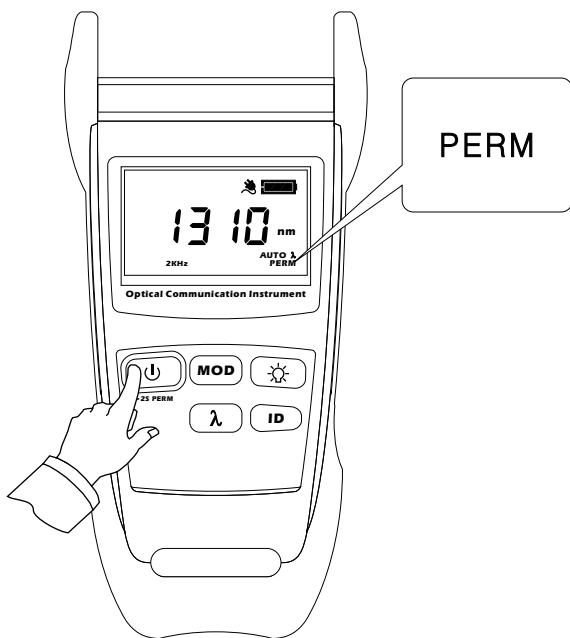
3. Place the batteries



4. Close the lid and push up

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## Power on/off, auto power off

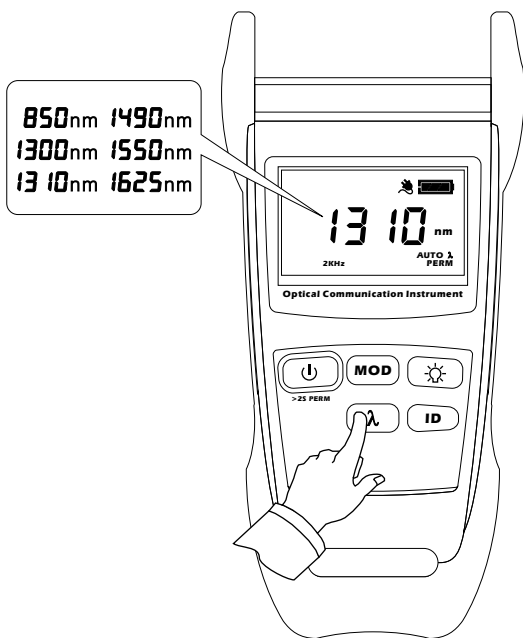


Press the Powerkey to turn on the device with auto power off. (After 10 minutes no key pressed, it will auto power off.)

Press Power key for 2 seconds when turn on the device, the autopower off will be cancelled, and the LCD will show "PERM".

Also press it to shut the device.

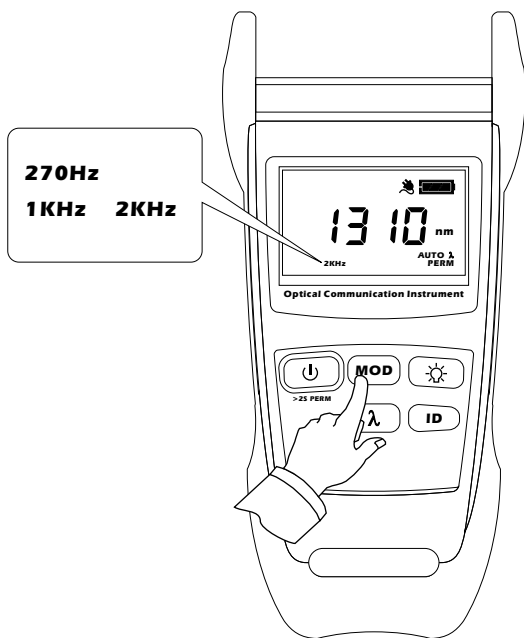
## Wave select



Press the “  $\lambda$  ” key to shift the wavelength.

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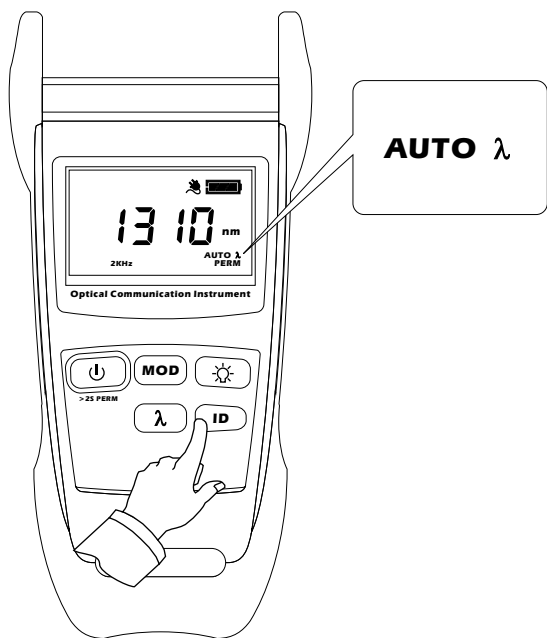
## Frequency select



Press the “ **MOD** ” key to shift from CW, 270Hz, 1KHz, 2KHz.



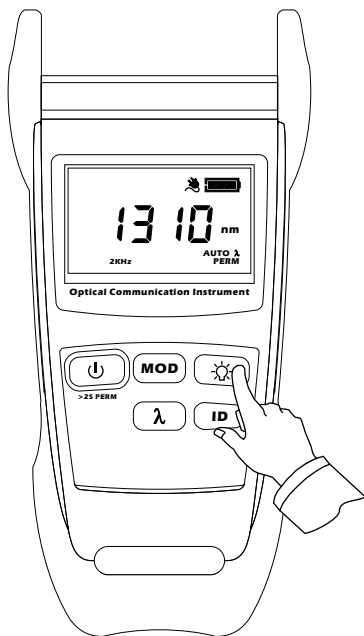
## Wavelength ID




Press “ **ID** ” to open the function of wavelength identification, on the LCD, it will displays “ID” , then the optical power meter which also has this function can identify the current wavelength in fiber, and the power meter will shift the wavelength automatically.

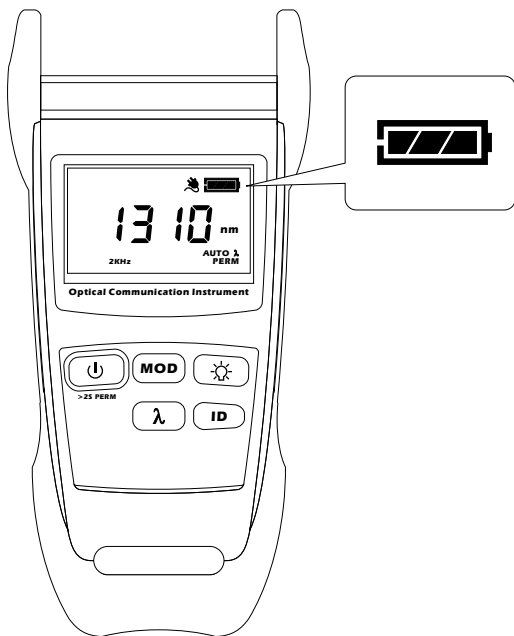
Press again this key to close the function.

## Backlight



 Turn on or turn off the backlight

## Battery energy detect



Remain 80%---100%



Remain 40%---80%



Remain 20%---40%



Remain less than 20%

If the energy is too low, the beep will be on and device will auto power off.

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## Battery charge

First you must use the rechargeable batteries. When the energy is less than 20%, you should charge the batteries. Long time low energy, the life of the batteries will be short. When charging, the battery indication on LCD will flash. After charging fully, the indication will stop flashing and show full. Don't charge for more than 24 hours. If charging while using the device, the time will be longer. The rechargeable batteries must be in device when you use the AC/DC adaptor for charging. And do not charge the non-rechargeable batteries, or the device will be destroyed and also lose the guarantee.

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## Maintenance and calibration

### Routine attention

- 1.Fiber-optical adapter should keep clean.
- 2.Please store the device in dry and ventilated place.
- 3.The long period no use ,please take out the batteries.

### Common malfunction

<b>Described</b>	<b>Malfunction cause</b>	<b>Handle way</b>
Can not turn on	No battery	Check battery setting
After turn on shut it immediately	Check battery capacities	Change battery
Can not charge	Use Non-rechargeable batteries	Change battery
Display the messy code	Reset is incorrect	Reset
Operation do not have reaction	Program is disorderly	Reset

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## Detailed

Suffix	M8:MM@850nm    M3:MM@1300nm S3:SM@1310nm    S4:SM@1490nm S5:SM@1550nm    S6:SM@1625nm
Output power	Type MM@>-10dBm    Type SM@>-6dBm
Spectral width	10nm
Laser type	LD
OP Adapter	FC/PC
Frequency	270Hz/1KHz/2KHz
Auto off	Yes
Power supply	Size AA Alkaline cell or NiMH cell
Battery life	>40H
Waterproof	A small amount of spilled
Operating temp	-10°C ~ +50°C <90%RH
Storage temp	-20°C ~ +60°C <90%RH
Size(H*W*D)	190mm*90mm*40mm
Weight	About 400g

Open power testing after 5 minutes

@1550nm,CW,20 C+/-3 C, Relative Humidity at 40%-60% with FC/PC adaptor.

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