



USER'S GUIDE

Handheld measuring instrument

Optical power meter

English

Optical laser source

English

Optical multi meter

English

USER'S GUIDE

Handheld measuring instrument

Optical power meter

English

Optical laser source

English

Optical multi meter

English

USER'S GUIDE

Optical Power Meter

English

WARNING

Any undefined change or modification of this manual will deprive you of the right to operate the equipment.

To reduce the risk of fire or electric shock, do not expose the equipment to rain or humidity.

To prevent electric shock, please do not open the shell, and it must be repaired by qualified personnel.

NOTE

As the laser is harmful to the eyes, don't look directly at the laser outlet and don't attempt to disassemble the cabinet.

PRECAUTIONS FOR USE

Using the battery:

The equipment can use a disposable alkaline battery or rechargeable battery, and can not be mixed with different types or different capacity batteries. Only rechargeable batteries can be charged.

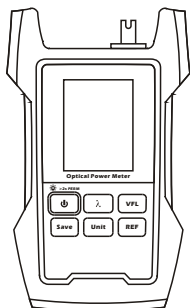
Avoiding condensation:

Sudden changes in temperature should be avoided. Do not use the device immediately after moving the device from the cold area to the hot area, or when the room suddenly heats up, because the device may have condensation phenomenon. If the temperature changes abruptly, stop using it and take out the battery, and the power can be switched on after at least an hour.

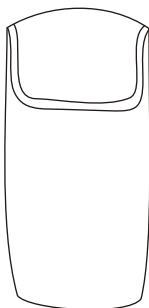
Storage:

When the device is not used for a long time, please take out the battery to avoid the damage caused by battery leakage.

Standard



Host



Bag

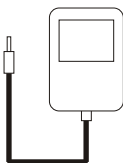


Manual

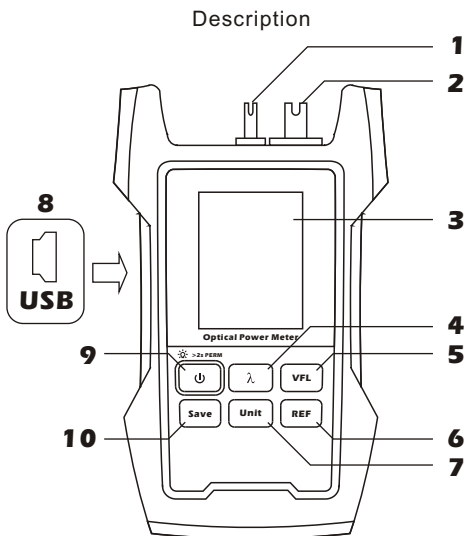


FC/SC Adapter

Optional



Charging



1-VFL connector(optional)

2-OPM connector

3-LCD

4-OPM wavelength shift/WAVE ID key

5-VFL on/off key

6-Reference check/set key

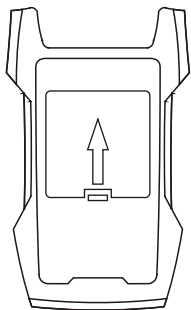
7-Unit shift key

8-USB

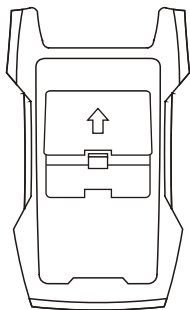
9-Power/backlight key

10-Data save/recall key

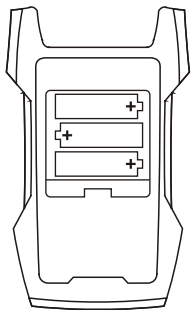
Install the Batteries



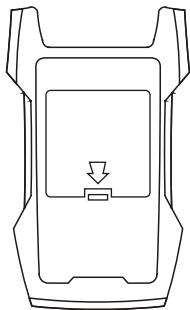
1. Press and push up



2. Open the lid

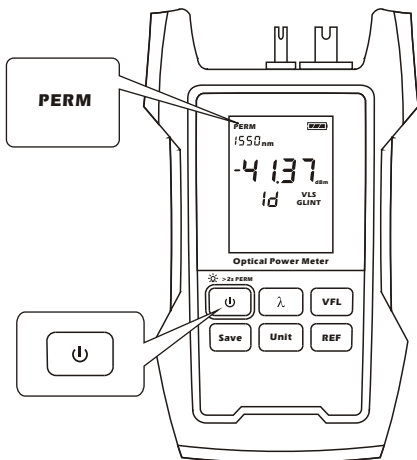


3. Install the batteries



4. Push down and press

Power On/Off, Auto Power Off

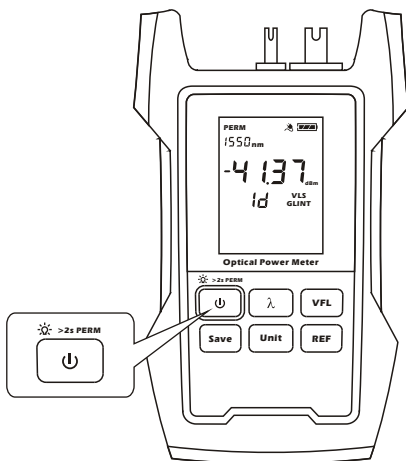


Press the powerkey to turn on the device with auto power off. (After 10 minutes no key pressed, it will auto power off.)

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

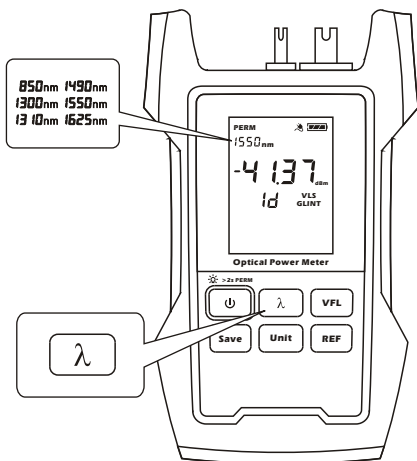
Also press it for 2 seconds to shut the device.

Backlight



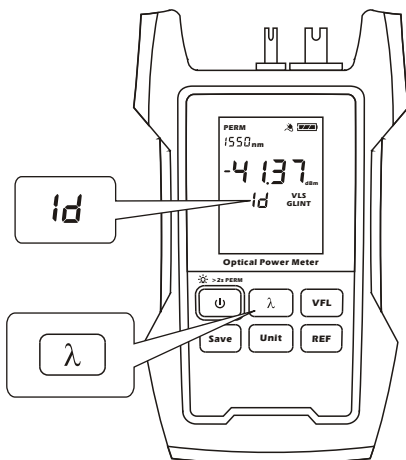
When the device power on, press the power key to turn on or turn off the backlight.

Wavelength Select



When testing, you must select the right wavelength. Press the " λ " key for shifting the wavelength from: 850nm, 1300nm, 1310nm, 1490nm, 1550nm, 1625nm.

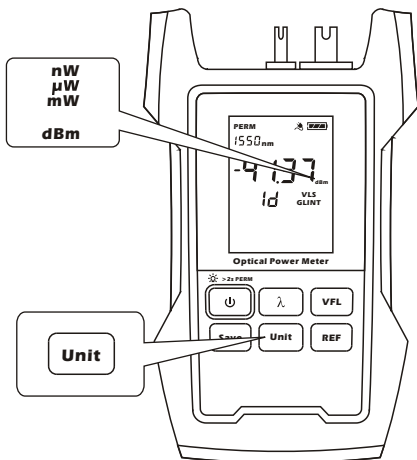
WAVE ID(optional)



Long press " λ " to turn on the WAVE ID and display " **Id** " at the sametime.

Long press again to exit the WAVE ID.

Unit Select



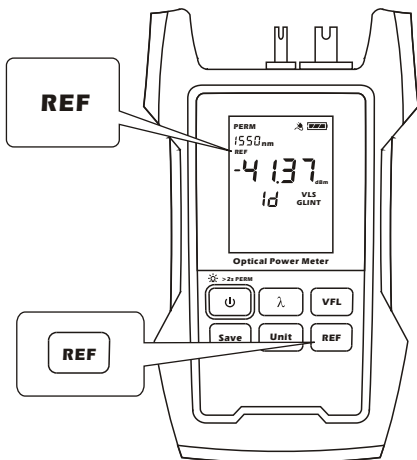
Press the "**Unit**" key for shifting the unit from: dBm, mW/uW, after pressing "**REF**", it shifts to dB. After power off, the current unit will be saved.

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

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

dB: $(\text{dB})=\text{REF}-\text{dBm}$

Reference



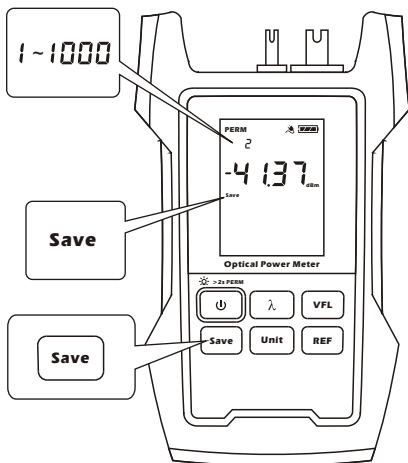
Press " **REF** "key to check the reference value you set last time.

And if keep pressing for 2 seconds, you can store the current dBm as a new reference value. Then it automatically shift to dB.

$$\text{dB} = \text{REF} - \text{dBm}$$

You can store the REF value for each wave.

Data Storage

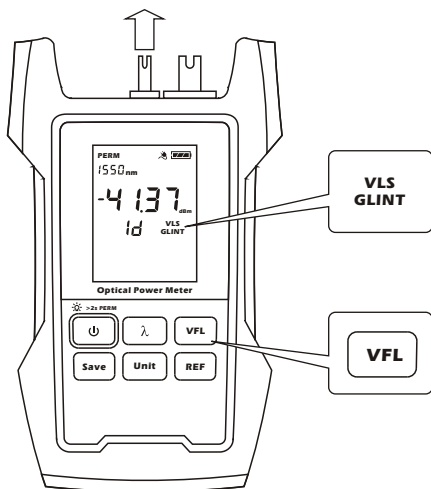


Short press " **SAVE** " key to check the data storage.

Press " λ " and " **Unit** " to change previous/next record.

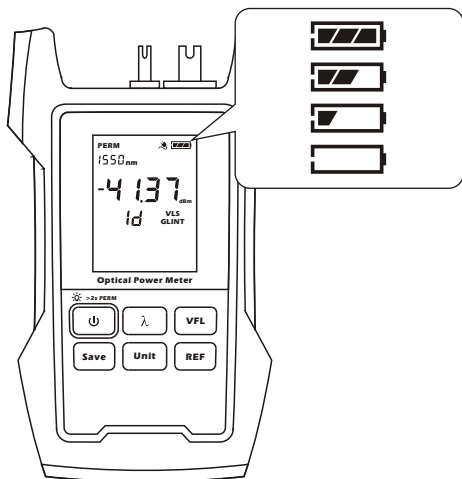
Long press " **SAVE** " key to save current value.

Visual Fault Locator (optional)



The device can be built in an optional VFL module, press the VFL key to shift the conditions: on->glint->off

Battery Energy Detect



Sufficient power



More power



Less power



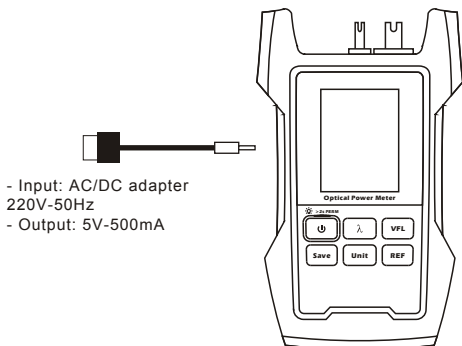
Insufficient battery power

Battery Charge

When you use rechargeable batteries and the meter indicates insufficient power, it should be turned off and charged. Long time undervoltage will cause the life of the battery to be shortened.

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 48 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.



Detailed

	T	C
Measuring range	-70~+10dBm	-50~+26dBm
Calibrated wavelengths	850nm,1300nm,1310nm,1490nm,1550nm,1625nm	
Resolution	+10~-60dBm(0.01dB) -60~-70dBm(0.1dB)	+26~-40dBm(0.01dB) -40~-50dBm(0.1dB)
Accuracy	$\pm 0.2\text{dB}$	
Linearity	$\pm 2\%$	
PD Type	InGaAs	
Connector	FC (or SC) & 2.5mm UPP	
Date storage	Yes	
Optical Fiber Type	SM 9/125um	
VFL part	Optical Fiber Type: SM, MM	
Wavelength	650nm	
Output power	1mW (3-5km) or 10mW (8-10km)	
Connector	2.5mm UPP	
Auto power off	Yes	
Power supply	AA x3	
Battery life	~200H	
Operating temp	-10 ~ +50°C,0-90%RH	
Storage temp	-20 ~ +60°C,0-90%RH	
Size(H*W*D)	170mm*97mm*38mm	
Weight	380g	