USER'S GUIDE

Handheld measuring instrument

Optical laser source

English

WARNING

You are cautioned that changes or modifications not espressly approved in this document could void yout 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

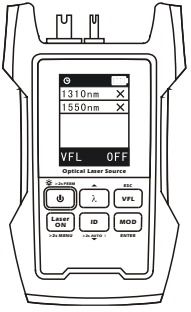
As much as possible, avoid sudden temperature changes. Do not attempt to use the drive immediately after moving it from a cold to a warm location, to raising the room temperature suddenly, as condensation may form with in the drive. If the temperature changes suddenly while using the drive,

Stop using it and take out batteries for at least an hour.

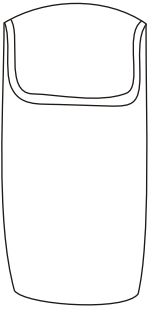
Storage

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

Standard



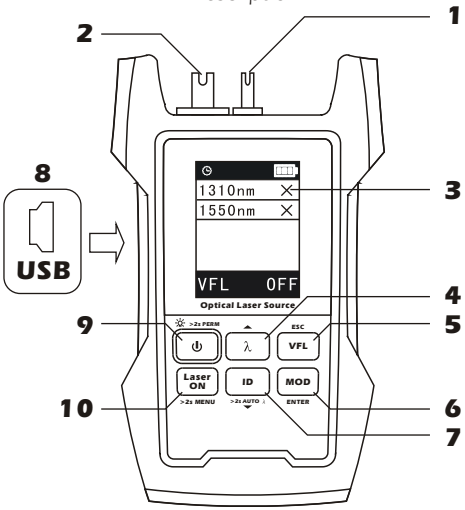
Host



Bag

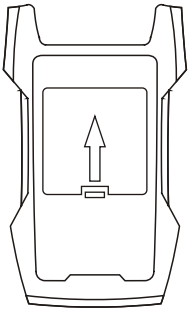
Manual

Description

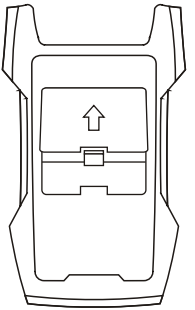


1-VFL connector
2-Laser Source connector
3-LCD
4-Laser source wavelength shifting key
5-VFL on/off key(ESC key)
6-Laser source modulation key(ENTER key)
7-Laser source wave ID key(Auto WAVE ID key)
8-USB
9-Power key
10-Laser source on/off key(Menu key)

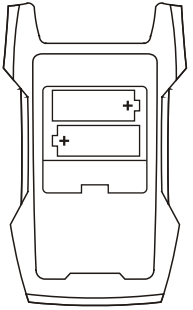
Installing the batteries



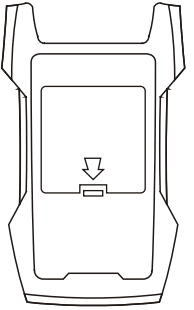
1.Press and pushup



2.Open the lid

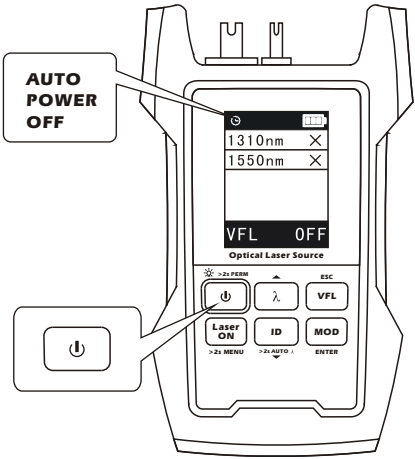


3.Installing the batteries



3.Push down and press

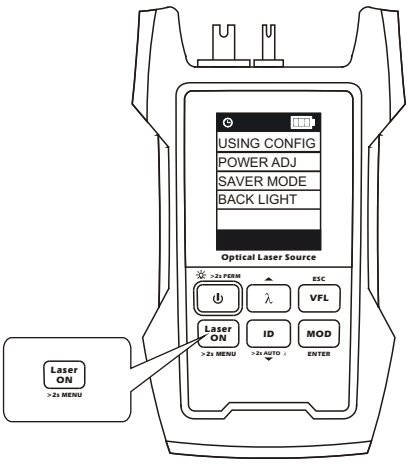
Power on/off, auto power off



Press " ⏻ " key to turn on the device. Press it again for 2 seconds to shut the device.

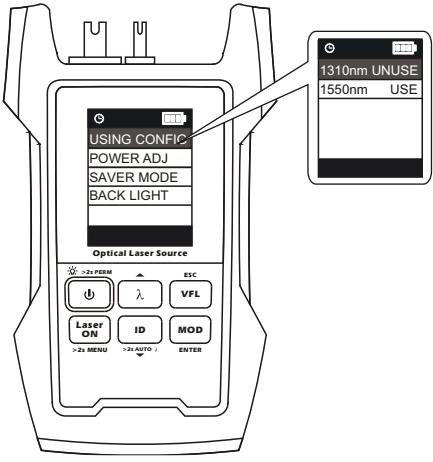
Device has power saving function. After 10 minutes no key pressing, the device will auto power off.

Setting menu



Long press " Laser ON >2s MENU " key, device will enter setting menu. Setting functions include USING CONFIG, POWER ADJ, SAVER MODE and BACK LIGHT. Press " λ " key or " ID >2s AUTO " key to select the function you needed.

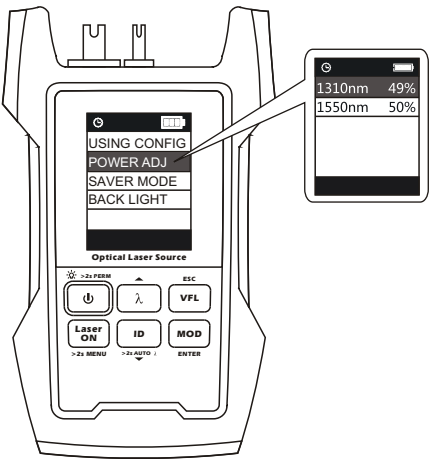
Setting- USING CONFIG



Move the cursor to USING CONFIG, then press ENTER key to enter it. Press " λ " key and " ID " key to select wavelength. Press ENTER key to set the selected wavelength USE or UNUSE status.

UNUSE: the wavelength will be skipped when operating.

Setting- POWER ADJ

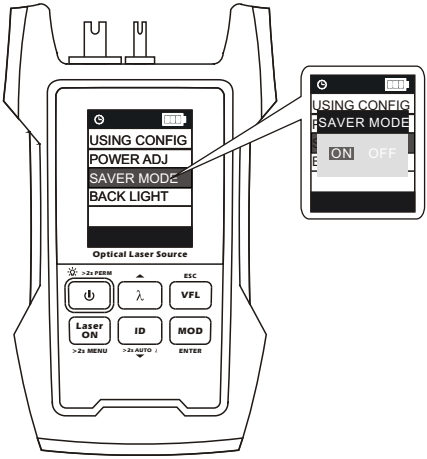


Move the cursor to POWER ADJ, then press ENTER key to enter it.

Press " Laser ON >2s MENU " key to select the wavelength.

Then press " λ " key or " ID >2s AUTO " key to adjust the output power.

Setting- SAVER MODE

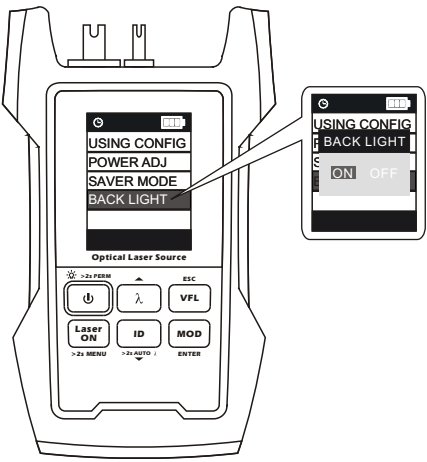


Move the cursor to SAVER MODE, then press ENTER key to enter it.

Press " Laser ON (>2s MENU) " key to select the saver mode ON or OFF. Then press " MOD (ENTER) " key to save the selection and back to the setting menu.

At ON status, and no key pressed in 10 min, the device will auto power off.

Setting- BACK LIGHT

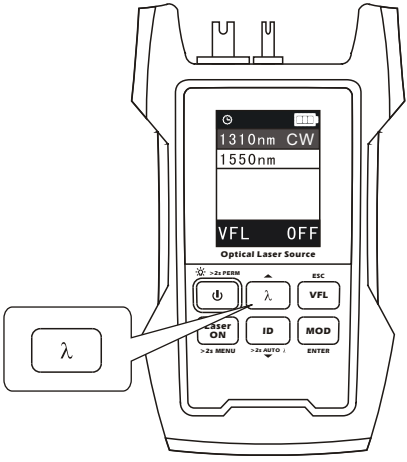


Move the cursor to BACK LIGHT, then press ENTER key to enter it.

Press " Laser ON (>2s MENU) " key to select the back light ON or OFF. Then press " MOD (ENTER) " key to save the selection and back to the setting menu.

At ON status, and no key pressed in 10 seconds, the LCD will auto off.

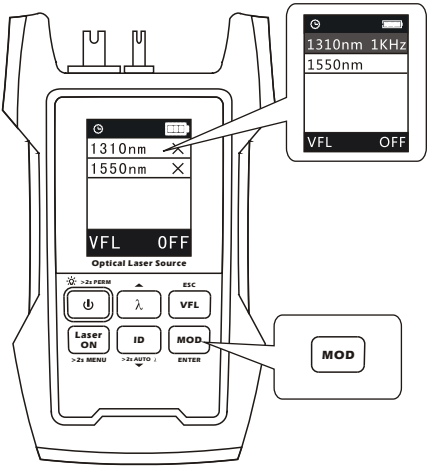
Wavelength selection



After turn on the device, press " Laser ON (>2s MENU) " key to turn on the laser and press " λ " key to shift the wavelength.

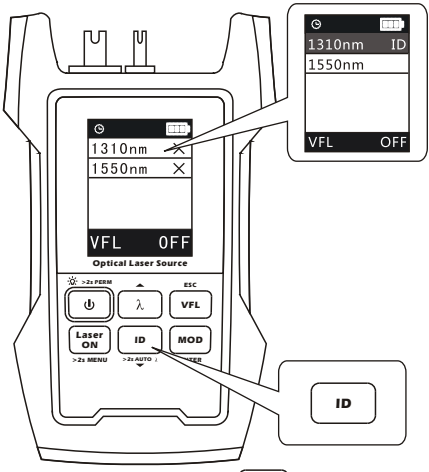
NOTE: UNUSE status wavelength will be skipped.

Modulation selection



After turn on the device, press " Laser ON (>2s MENU) " key to turn on the laser and press " MOD (ENTER) " key to shift the modulation between CW, 270Hz, 1KHz and 2KHz.

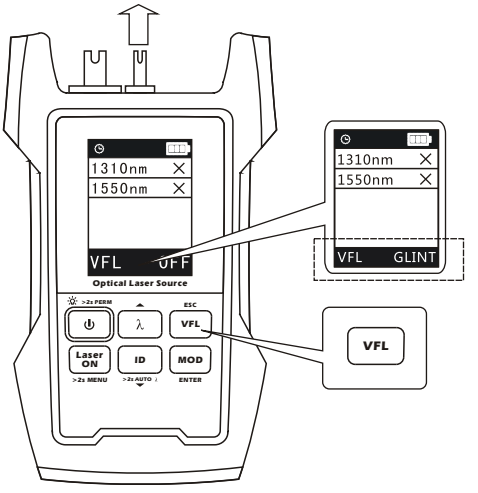
Wavelength ID



After turn on the device, press " Laser ON >2s MENU "key to turn on the laser and press " ID >2s AUTO " key to open the function of wavelength identification, it will show " ID " at the selected wavelength. Press " λ " key to select the laser source. Press " ID >2s AUTO " key for 2 seconds, the WAVE ID function will shift automatically between "USE" status wavelengths at 10 seconds interval cyclically. Press again " Laser ON >2s MENU " key to close WAVE ID function.

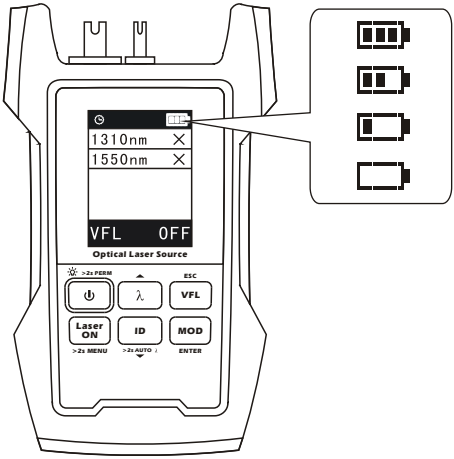
Optical power meter with WAVE ID function can detect and change to the same wavelength when it works with the laser source at WAVE ID function.

Visual Fault Locator (optional)



The device can build in a optional VFL module, press the VFL key to shift the conditions: CW-> GLINT->OFF.

Battery energy detect



Remain80%---100%

Remain40%---80%

Remain20%---40%

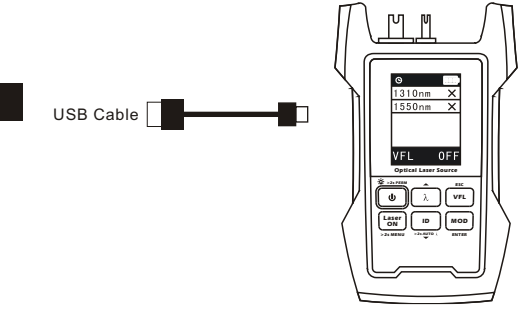
Remain less than20%

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

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.

The device is charged throw an USB cable. For the batteries of 1300mAh, do not charge for more than 10 hours. If you do not stop recharging when it charges fully, the device will continue the trickle charge state, using small current to supply natural discharge. But this process is not more than 48 hours. And do not charge the non-rechargeable batteries, or the device will be destroyed and also lose the guarantee.



Detailed	
Wavelength	1～5 wavelengths of 850/1300/1310/1490/1550/1625
Spectral width	850nm,1300nm,1310nm,1550nm@10nm 1490nm,1625nm@5nm
Output power	850nm>-10dBm 1300nm,1310nm,1550nm,1490nm,1625nm>-6dBm
Laser type	850nm,1300nm,1310nm,1550nm@FP 1490nm,1625nm@DFB
Short time Stabilization	±0.05dBm@60min
Long time Stabilization	±0.1dBm@8 Hours
Frequency	270Hz/1KHz/2KHz
OP Adapter	FC/PC (or Customize)
VFL part	
Wavelength	650nm
Output power	1mW or 10mW
Power supply	AA*3
Battery life	>50H
Chargeable	Yes
Water proof	Prevent small splash
Operate temp	-10℃～+50℃
Store temp	-20℃～+60℃
Humidity	<90% No dew
Size	168mm*95mm*38mm
Weight	330g

Testing condition:1550nm 23±2 ℃，40%～60% humidity,using standard optic fiber