TriBrer®

OPTICAL FIBER IDENTIFIER USER'S GUIDE

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.

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.

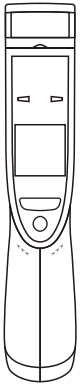
Storage

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

※This manual is just for reference, all is subject to the final products.

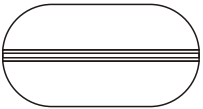
Check the accessories

Standard Edition



Host

User's Guide

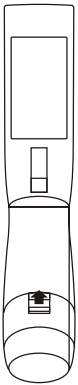


Packet

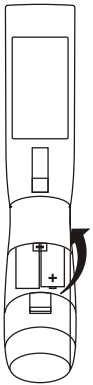
Description

1	LED light
2	LED light
3	Top view direction indicator
4	LCD
5	Button(O)
6	Button(+)
7	Trigger Switch
8	Side view direction indicator
9	Power button(or Return button)
10	Battery slot
11	VFL and OPM

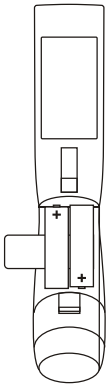
Install the battery



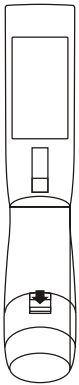
1.Pull the battery cover



2.Install the battery



3.Push the battery cover



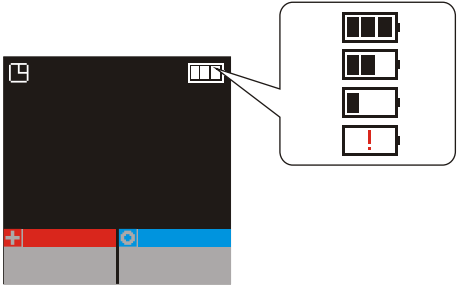
4.Complete

Summarize

The user's guide describes the use of OFI, OPM and VFL function modules.

When operating, please select corresponding button " " 、 " " according to the interface prompts.

Power Indicator



Four levels indication of power detection

Full power

More power

Less power

Low power

On/off-Power button

Under the closed status, press and hold " ⏻ " button for 2 seconds to turn on the device and enter the main menu. Under the open status, press and hold " ⏻ " button for 2 seconds to turn on the device.

On/off-Trigger

No matter on or off, pulling the trigger can immediately open the fiber Identifier function, except under the "instrument set" menu.

Pull the trigger to the end to start the measurement.

Release the trigger and the light will turn on. The results will keep for a time or return to the previous interface. The lights will stay closed whenever the trigger is pressed to the end.

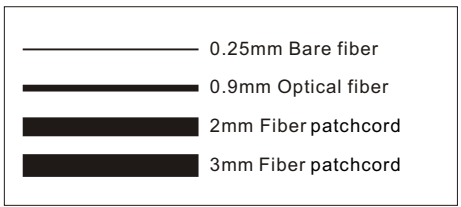
OFI-Measurable fiber

1.Can measure 250um/900um/2mm/3mm SM and MMfiber.

2.Use microbending technique, lossless fiber.

3.Can measure all kinds of diameter fiber without changing the clip head.

Note: due to the manufacturing process is different, not all the fiber patchcord can be measured.



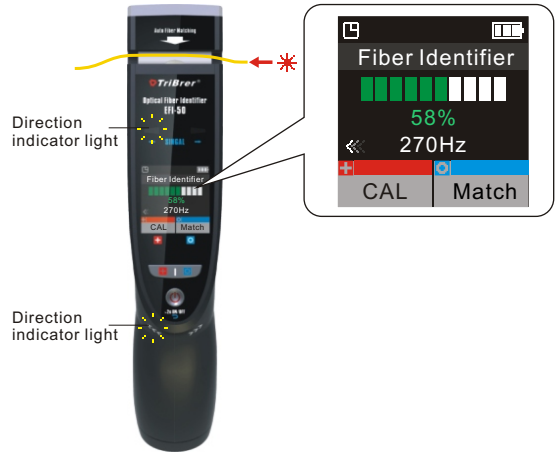
Indication of measurable fiber

OFI-Signal and Carrier

When there is a single directional signal in the fiber, the OFI can judge the direction and indicate through the indicator light and the interface. For multimode fiber, the OFI cannot identify the direction.

OPM intensity shows by indicator bar. When the signal is strong, the indicate bar of optical power intensity shows red and full, and the direction lights will double flash. Please loosen the trigger and turn off the flash.

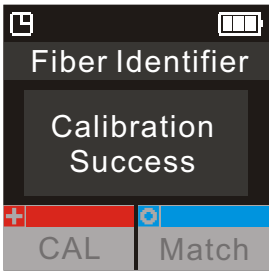
When the 270Hz/1KHz/2KHz carrier signal is detected, the buzzer will beep.



OFI-Ambient light calibration

Both the OFI and Find the fiber can be calibrated. Measurement error can be reduced in the use of the environment. When no fiber, pull the trigger in the end and press [CAL] to start the calibration, 1s display the results, the buzzer will beep. After 2s, exits the ambient light calibration.

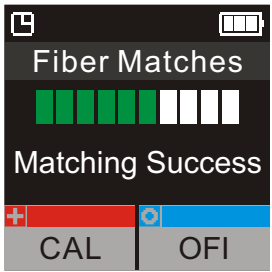
When calibration failed, prompted the reason and please recalibrate.



OFI-Fiber Matches

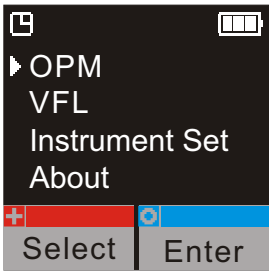
Only operate the instrument with this function

Press [Match] to enter the fiber matches function. When the optical fiber is connected to the signal generator and pull the trigger in the end with fiber into, the device starts to test. When find the corresponding fiber, the interface will display matches success, otherwise matches failed.



OPM

Select the " OPM " at the main menu and press [Enter] to enter this function.



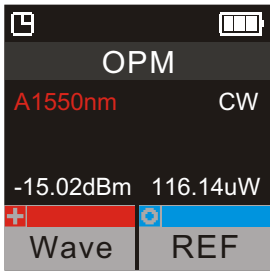
OPM-Wavelength

Only operate the instrument with this function

Measuring optical signals at different wavelengths, need to choose the corresponding to measure the OPM. If the wavelength of measuring and the select of the OPM do not match, the measurement will be meaningless.

In open, press [Wave] to switch Wavelength and Wavelength ID, the OPM will in turn switch to the measuring state, and displayed.

This series of OPM has a circular order about wavelength: 850nm/1300nm/1310nm/ 1490 nm/1550 nm/1625 nm/Wavelength ID.



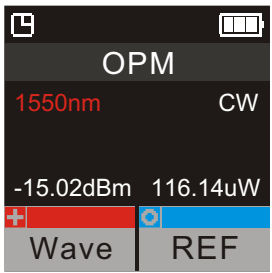
OPM-Display unit

dBm The actual power's log

mW/uW The actual power's absolute value

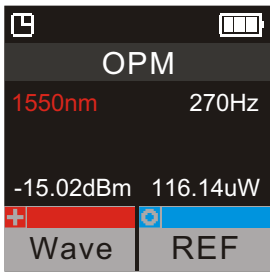
1mW=1000uW,1uW=1000nW

The relationship between mW and dBm is: 10 lg (mW)=(dBm)



OPM-Frequency

When the input light is stable light, it displays "CW", when there is a carrier signal, displays the real-time frequency, when detecte 270Hz/ 1KHz/2KHz frequency, the buzzer will beep. This can be turned off, no display after closing.

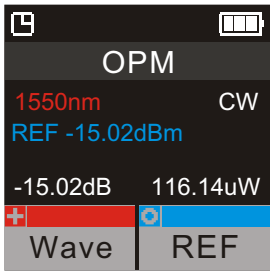


OPM-REF

The REF is used to remove the attenuation that does not calculate in actual line loss before measuring.

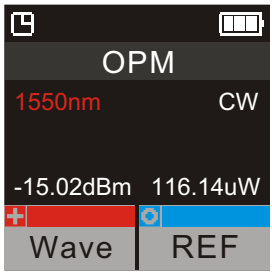
[REF] button is used to set or check the REF. Press the button briefly, then display "REF" and set dBm value. Press for 2 seconds or more to save the current value as a new REF value. The value shows the relative power value of the dB, and shows the relative difference(dB).

Each wavelength can set REF.



OPM-Measuring power value

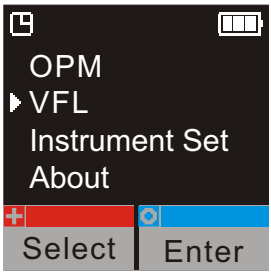
The measured dBm and uW values are displayed at the bottom of the interface.
when set the REF, the absolute power value of the dBm will become dB relative power value and the uW value remains unchanged.
Optical power<Lower limit of detection: display “LOW”.
Optical power>Upper limit of detection: display “HIGH”.



VFL

Only operate the instrument with this function

Press [Select] to select " VFL " ,then press [Enter] to enter the function.

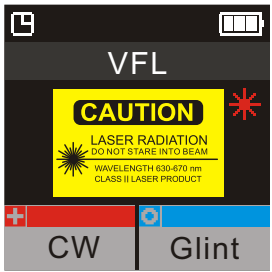


VFL

Only operate the instrument with this function

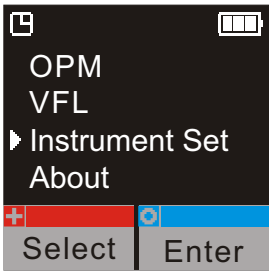
Select " VFL " and press [Enter] to enter, then open the dust cap and the device will send a steady laser.

Press [Blink], the red light and the " ✳ " blink at the frequency of 2Hz. Press the [CW] to keep on.



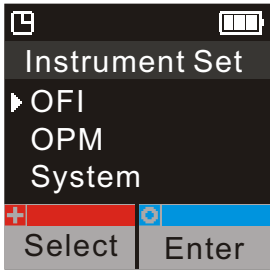
Instrument Set

Press [Select] to select " Instrument Set ", then press [Enter] to enter the function.



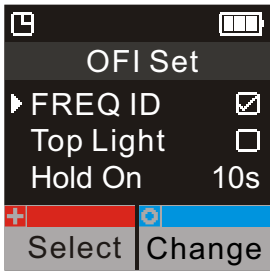
Instrument Set

The " OFI " , " OPM " and " System " can be setup in Instrument Set.



Instrument Set-OFI Set

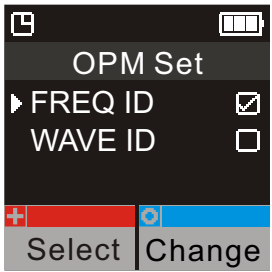
In " OFI Set " , press [Select] to switch function options, press [Change] to set up the relevant functions.



- FREQ ID: when open it, the frequency value is displayed with a sound prompt.
- Top Light: include ambient light and fiber optic light, on or off together. When the trigger is released, open the light.
- Hold On: can be set OFF or 1~10s. If choose to close, and in the Fiber Identifier function, release the trigger, will quit this function.

Instrument Set-OPM Set

In " OPM Set " , press [Select] to switch function options, press [Change] set up the relevant functions.



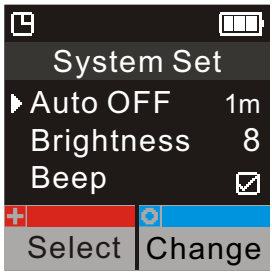
- FREQ ID：when open it, the frequency value is displayed with a sound prompt.

  .

- WAVE ID：when open it, switch wavelength in " OPM Set " will include Wavelength ID, otherwise does not.

Instrument Set-System Set

In " System Set " , press [Select] to switch function options, press [Change] set up the relevant functions.

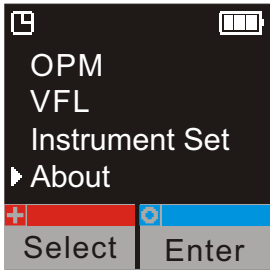


- Auto OFF: time selectable OFF or 1~10 min, when open the auto off function, the clock icon is displayed. If no operating at the set time, the buzzer short beats three times and shutdown.
- Brightness: optional 1~10 level.
- Beep: can be set on / off. Close all voice when selected off.

About

Only operate the instrument with this function

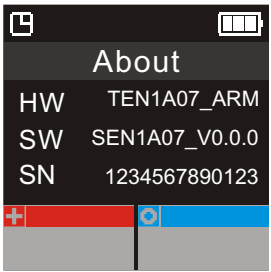
Press [Select] to select " About ", then press [Enter] to enter the function.



About

Only operate the instrument with this function

Enter the " About " to view instrument information.



Meter Maintenance and Calibration

General maintenance

Optical fiber connect the adapter should avoid contacting with hard objects and keep clean.

Should be stored in a dry and ventilated place to avoid moisture.

When unuse for long time, should remove the batteries before storage.

Fault and solution

Failure name	Failure Cause	Solution
Cannot boot	Check the battery has power or not	Check the batteries are installed correctly
Immediately shutdown after booting	Check the battery has power or not	Replace or recharge the batteries
Can display, but all operations are invalid	The instrument program is disordered	Reboot