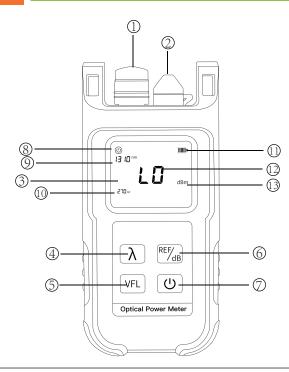


#### External and key function description



- (1) OPM interface: connect the fiber under test to test the fiber loss.
- ② VFL interface: connect to the optical fiber under test, test the onoff of the optical fiber
- 3 Display: display test results and other information
- λ key: 7 test wavelengths that can switch the optical power
- (5) VFL key: start red light detection function
- (a) REF/dB key: Short press the dB unit to switch, press uW/dBm/dB once to enter the last cleared data, long press until the screen displays REF, set the current optical power as the reference value, and enter the relative optical power test mode. The display will show the reference value that set before.
- On/off key: turn the device on or off (8) Automatic shutdown
- (9) Wavelength

(1) Frequency

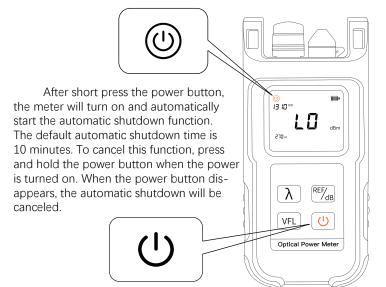
Battery power

Numerical value

(13) Unit

# 9 Power

### Power on/Auto power off



# 3 Optical power reference value setting

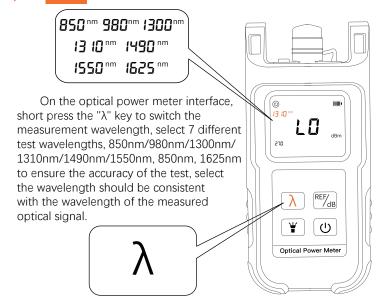


Insert the fiber which is under test into the OPM interface. After booting, enter the optical power meter interface, short press the "REF" key to set the current power value as the reference power, which can achieve relative optical power test (insertion loss test) or absolute power test, enter the relative power test mode at the bottom of the screen Display insertion loss (dB). The screen displays the reference value; short press the "dB" key to switch between linear power and absolute power display. The units of linear power, absolute power, and relative power are nW, dBm, and dB respectively.

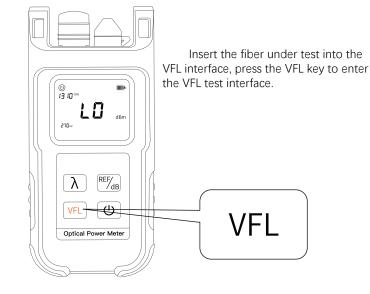
- P absolute power = 10lgP linear power / 1mW
- P relative power = P absolute power-
- P reference power

REF/dB

## 4 Optical power wavelength switching



# 5 VFL function





### Calibration function description

Press the VFL+REF keys at the same time to enter the calibration mode, and Cal will be displayed at the bottom of the screen. The next operation is only valid in the calibration mode. Enter key for downward adjustment, REF/dB key for upward adjustment. After adjustment, press VFL to save.

Keypad	Function
REF/dB	Add 0.1dB
λ	Reduce 0.1dB
VFL	Save
Ú	Shut down



#### Common fault solutions

Fault prompt	Possible Causes	Solutions
LCD display is weak	Low battery	Replacement battery
Unable to boot display	Low battery or other	Reboot or replace battery
The optical power value is abnormal	Connector failure/dirty	Reconnect the connector or clean the sensor



#### Products introduction

This power meter is a combination of optical power meter and VFL. Among them, the optical power module can be used to measure the optical power in mw, dB, dBm within the wavelength range of 850~1700nm, with high display resolution. There are seven wavelengths calibration points at 850nm, 980nm, 1300nm, 1310nm, 1490nm, 1550nm and 1625nm. It can display both linear and non-linear optical power at the same time, which can be used for direct measurement of optical power and relative measurement of optical link loss. The VFL module provides 650nm visible laser output, the test distance can reach 10km, and the output power can reach 1mW/10mW/20mW. It is suitable for single-mode or multi-mode fiber measurement and can identify optical jumpers, jumper boards, distribution frames, and connectors fault at the place. The instrument has a continuous backlight display function, a large LCD display, making the measurement work more conveniently and quickly, it is the construction of cable television systems, optical fiber communications and other fields Indispensable equipment for maintenance.



### Products features

- Two in one compact and convenient.
- 2.5mm universal connection is suitable for FC/SC/ST connector.
- Testing wavelength 850-~1625nm.
- Testing range -70~+10dBm / -50~+26dBm.
- Resolution 0.01db.
- High-quality imported laser head, penetrating. distance up to 10 kilometers.
- Waterproof keys suitable for various outdoor environments.
- Soft rubber shell protection, 2m fall prevention.









FC. ST LC(选配)

### Specification

Power testing mode			
Wavelength range (nm)	800~1700		
Probe type	InGaAs		
Power testing range (dBm)		-70~+10dBm/-50~+26dBm	
Accurancy		±0.2dB	
Fiber type	SM/MM		
Standard wavelength (nm	850、980、1300、1310、1490、1550、1625		
Connector	FC/SC/ST		
Display resolution	Line	ear display 0.1% logarithmic display: 0.01dBm	
VFL testing mode			
Working wavelength		650nm±10nm	
Light source		FP-LD laser	
Output power		1mW、10mW、20mW	
Connector		2.5mm FC/PC universal adapter	
Working mode		CW continuous light or modulated light	
Modulation frequency		2Hz	
Working temperature (°C)		-20~+75	
Storage temperature (°C)		-40~+85	
Automatic shutdown time (min)		10	
Battery keeps working (h)		100 hours (backlight off state)	
Power supply		3 AA batteries	
Weight		300g	

#### Use environment

 Operating environment altitude: areas below 2000m above sea level



### Tips



- 1) Do not store this product in high temperature, strong light and strong magnetic fields, and do not place it in other harsh environments such as fire sources.
- 2) Improper use of the product may easily cause the product itself or may endanger personal property safety.
- 3) If consumers violate the product manual and improperly use it, the personal and property damage caused by it will bear all the consequences, and the company will not bear any legal responsibility.
- 4) Non-professionals are strictly prohibited from disassembling this product.
- 5) Avoid using electrical appliances or loads that exceed the output current of this product (the circuit will be protected and there will be no output).
- 6) Avoid strong physical effects, including knocking, throwing, trampling, squeezing, etc.

#### Standard kit

 Packing carton, optical power meter host, certificate, instruction manual.