

VFL and LED flashlight



After power on, long press the * /VFL key to turn on the VFL, short press to flash and turn off.

Press the power button to control the flashlight turn on and off.

Calibration instructions

At the same time, press the LED+ REF key to clear the user's calibration value, and the screen will full display "-" to restore default value; press the LED+VFL to enter the calibration mode, and "Cal" will be displayed in the upper left corner of the screen. The following operations are only valid in the calibration mode.

key	Function
* /VFL	Increase 0.05dB
dB	Reduce 0.05dB
⏻	SAVE
λ	Switch wavelength

Common Troubleshooting Solutions

Fault hint	Possible reasons	Settlement
LCD display is weak	Insufficient power supply	Replace Battery
Boot-up cannot be displayed	Insufficient power supply or other	Reboot or replace batteries
Abnormal optical power values	Joint failure, dirty	Reconnect Connector and Clean Sensor

Specifications

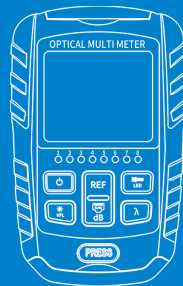
Optical power meter	
Wavelength range	800~1700nm
Connector	Universal joint
Detector type	InGaAs
Power test range	-70~+6dBm -50~+26dBm
Uncertainty	±5%
Standard wavelength	850/980/1270/1300/1310/1490/1550/1577/1625/1650nm
Display resolution	Linear display: 0.1%, logarithmic display: 0.01dBm
Recognizable frequency	270Hz, 330Hz, 1kHz, 2kHz
VFL(optional)	
Wavelength	650nm±30nm
Output power	2mw/15mw/30mw/50mw
Mode	CW/1Hz/2Hz
Connector	Universal joint
RJ45 cable sequence (standard), cable tracking (optional)	
Test distance	300m
Others	
Power Supply	2 AAA batteries /Lithium battery, 3.7V/700mAh(optional)
Port	Type C
Battery duration	≥120h (OPM)
Automatic shutdown time	10min
Working temperature	-10°C~+50°C
Storage temperature	-40°C~+70°C
Relative humidity	0~95% No condensation
Dimension	110mmx68mmx27mm
Weight	130g

Standard configuration

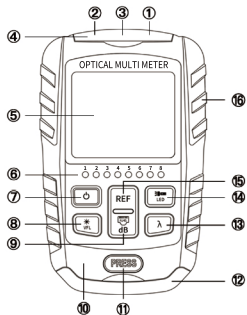
OPM host, OPM &VFL all-in-one machine (optional), certificate, operation manual, two AAA batteries, lithium batteries (optional), data line(optional), universal joint, packaging carton
Note: the rated charging voltage of lithium battery is 5V/1A.



Optical Multi Meter Series Instructions



Appearance and Ports



- 1 OPM port: connect to the fiber, test the optical power
- 2 VFL port: connect to the fiber, find the fault point in short distance
- 3 LED light: flashlight lighting
- 4 Dust cover: cover to protect the optical port when no testing
- 5 Display screen: display test results and other information
- 6 Indicators: cable tracking light
- 7 \odot : Power key, turn on/off automatic shutdown function
- 8 \ast /VFL: turn on/off backlight, turn on/off VFL
- 9 RJ45/dB: turn on/off RJ45 sequence, switch absolute power display
- 10 RJ45 network port: RJ45 sequence/tracking test
- 11 PRESS button: press to take out the RJ45 sequence remote tester
- 12 Remote tester: RJ45 cable sequence test
- 13 λ : switch the test wavelength of the power meter
- 14 LED key: turn on/off flashlight
- 15 REF key: set the current power as the reference power
- 16 Type C port: connect the power bank to supply power or charge

Power on/off and automatic shutdown

After pressing \odot briefly, the meter will turn on and start the automatic shutdown function. The default automatic shutdown time is 10 minutes. If you want to cancel the function, press and hold the power key for two seconds, and the \odot icon disappears, the automatic shutdown will be cancelled.



Set reference optical power



Pabs.p = 10lglin.p / 1mW
Prel.p = Pabs.p - Pref.p

After power on, enter the interface of OPM, press REF to set the current power as the reference power, switch the relative optical power test (insertion loss test) and absolute power test. In the relative power test mode, the insertion loss (dB) and the **reference** value is displayed simultaneously. Short press "dB" to switch linear power and absolute power display. The units of **linear power**, **absolute power** and **relative power** are W, dBm and dB respectively.

Switch the wavelength

In the interface of OPM, short press the λ key to switch the measurement wavelengths. Ten different wavelengths can be selected: 1310nm, 1550nm, 1577nm, 1490nm, 1625nm, 1650nm, 850nm, 1270nm, 1300nm and 980nm. In order to ensure the accuracy of the test, the selected wavelength must be consistent with the measured optical signal.



RJ45 cable sequence and analog cable tracking



In the test interface of OPM, long press the dB key to display the word "RJ45" on the screen. At this time, enter the RJ45 cable sequence test, connect one end of the network cable to the RJ45 port in the bottom, and connect the other end to the **remote** tester. Short press the dB key to exit. Long press the dB key again, " \ast " displays on the upper left corner of the screen, enter the cable tracking mode, and short press the dB key to exit.