#### VFL and LED Flashlight



After power on, long press 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
\$\text{\text{VFL}}	Increase 0.05dB
dB	Reduce 0.05dB
Ċ	Save
λ	Switch Wavelength

# **Common Troubleshooting Solutions**

	Possible Reasons	
LCD display is weak	Insufficient Power Supply	Replacement Battery
Boot-up cannot be displayed	Insufficient power supply or other	Reboot or replace batteries
Abnormal optical power values	lloint failure dirty	Reconnect Connector and Clean Sensor

**Specifications** 

800~1700nm		
Universal joint		
InGaAs		
-70~+10dBm	-50~+26dBm	
±5%		
850/980/1270/1300/1310/1490/1550/1577/ 1625/1650nm		
Linear display: 0.1%, Logarithmic display: 0.01dBm		
270Hz、300Hz、1kHz、2kHz		
VFL (optional)		
650nm±30nm		
2mw/15mw/30mw/50mw		
CW/1Hz/2Hz		
Universal joint		
RJ45 Cable Sequence (standard), Cable Tracking (Optional) Test Distance 300m		
300m		
2 AAA Batteries/ Lithium Battery(Optional)		
Micro USB		
≥120h (OPM)		
10min		
-10℃~+50℃		
-40°C∼+70°C		
0~95% No condensation		
120*70*25mm		
130g		
	Ur -70~+10dBm 850/980/1270/13 16 Linear display: ( 270Hz, 3 VFL (optional) Cross 2 mw/15 Cross 2 mw/15 Cross 2 AAA Batteries/ 2 AAA Batteries/	

# **Standard Configuration**

Optical Multi Meter, User Manual, 2 AAA Batteries, Lithium Battery (optional), Box



OPTICAL MULTI METER
SS103 Series



### **Appearanceand 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
- ② O:Power key, turn on/off automatic shutdown function
- ⑧ ♣/VFL: turn on/off back light, turn on/off VFL
- (ii) RJ45 network port: RJ45 sequence/tracking test
- (ii) PRESS button: press to take out the RJ45 sequence remote tester
- (2) Remote tester: RJ45 cable sequence test
- (4) LED key: turn on/off flash light
- (15) REF key: set the current power as the reference power
- (6) Micro USB:connect the power bank to supply power or charge

#### Power ON/OFF and Automatic Shutdown

After pressing  $\circ$ D 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  $\circ$ D icon dis appears, the automatic shutdown will be cancelled.



## **Set Reference Optical Power**



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 losstest) 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.

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

## Switch the wavelengt

In the interface of OPM, short press the  $\lambda$  key to switch the measurement wavelength. Ten different wavelengths can be selected: 1310nm, 1550nm, 1577nm, 1490nm, 1625nm, 1650nm, 350nm, 1270nm, 300nm 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, "F" displays on the upper left corner of the screen, enter the cable tracking mode, and short press the dB key to exit.