

1. Power on/off

Short press button to turn on the device, Press and hold this button to turn off the device after turning it on.

2. Set automatic shutdown time

Press and hold the device while it is in shutdown mode Key, The display screen displays all fields, Short press or Key Adjustable automatic shutdown time, The display screen shows OFF, indicating that the automatic shutdown function is turned off, When displaying 10min/30min/60min, it will automatically shut down in sequence of 10 minutes, 30 minutes, and 60 minutes. This setting has a shutdown memory, so there is no need to repeat the setting for the next startup.

3. Wavelength switching

Short press Key, Can switch the current working wavelength, Wavelengths such as 1310/1550/1490/1625/1650/850/1300/980/1270/1577nm can be obtained sequentially. The working wavelength has a shutdown memory, so there is no need to repeat the setting for the next startup.

4. Set reference power

1) Long press Key, The current optical power can be set as the reference power, At the same time, the second line of the display screen displays the REF character and the set reference power (dBm). The third line displays the relative power (dB).



2) Short press Key, The display modes of "reference power (dBm)+relative power (dB)" and "linear power (mW)+absolute power (dBm)" can be switched. After turning on, the default display mode is linear power (mW)+absolute power (dBm).

5. Save data

1) Long press button for about 2 seconds to save the current power. The second line of the display screen will flash with the SAVE No. character and the saved data number, indicating successful saving.

2) Short press the button to enter or exit the data viewing interface. Short press or on the data viewing interface to switch up and down to save records, Long press or to quickly switch up and down to save records.

3) Steps for deleting data:
Short press enter the data viewing interface, Press and hold the and buttons simultaneously for 2 seconds before the display screen displays DEL characters. At this point, short press the button to delete all saved data, and the display screen will display "---" if there is no saved data. Short press the button when displaying DEL characters to return to the data viewing interface without deleting the data.

Note: Deleting data will delete all saved records and does not support single deletion.

6. Network cable testing

1) Short press Key, Enter network cable sequence testing mode, The display screen displays the icon. Insert the device network cable interface into the tested network cable, and insert the other end of the network cable into the device's built-in remote module. The LED lights 1 to 8 below the display screen and the LED lights of the remote module light up sequentially. The channel at both ends that lights up indicates which channel is connected, and the one that does not light up indicates that it is not connected.

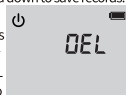
2) Short press the button again to exit the network cable test mode.

3) Long press the button to enter the network line finding test mode, and the display screen will display the icon. At this time, the line finding instrument (optional) can be used to find the tested network cable.

7. Red light control (optional function)

1) Short press the button to turn on or off the backlight of the display screen, long press the button to turn on the red light, and then short press the button to switch the red light status to 1Hz/2Hz/off.

2) Long press the button while the red light is on and flashing to directly turn off the red light.



8. Flashlight control

Short press the button to turn on or off the flashlight.

9. User calibration



1) Press and hold the and buttons simultaneously for about 2 seconds to enter the user calibration mode. The second line of the display screen displays the CAL character, and the value displayed after the CAL character is the current calibration value.

2) Short press the button to switch calibration wavelength.

3) Short press the or button to adjust the calibration value, step by 0.05dB, and adjust the range from -6.00dB to +6.00dB.

4) Short press to save the calibration value.

5) Press and hold the and buttons simultaneously for about 2 seconds without saving and exit calibration mode.

10. Wavelength ID mode

1) Long press the button to enter the wavelength ID recognition mode. The wavelength position on the display screen displays the character "--- nm ID", indicating that a valid wavelength ID has not been recognized. If there is a wavelength ID or TWINS signal light inserted into the jumper of the optical power meter interface, the wavelength position on the display screen will display the recognized wavelength.

2) Press and hold the button again to exit the wavelength ID recognition mode.

Note: The wavelength ID function can only be used in conjunction with our company's light source.

11. Restore factory settings

Press and hold the and buttons simultaneously for about 2 seconds, and the display screen will display RST characters. Short press the machine to restore factory settings. After all segments of the display screen are fully displayed for 0.5 seconds, return to normal optical power measurement mode; Short press to not restore factory settings and return to normal optical power measurement mode.



Optical power meter version function:

- 1) 10 wavelength power measurement:
1310/1550/1490/1625/1650/850/1300/980/1270/1577nm;
- 2) Reference: reference power can be set, relative power display;
- 3) Frequency identification: 270Hz/330Hz/1KHz/2KHz;
- 4) Save data: 500 pieces;
- 5) Wavelength ID identification: 1310/1550/1490/850/1300nm can be identified, TWINS mode identification;
- 6) Flashlight;
- 7) The automatic shutdown time can be set: off/10/30/60 minutes;
- 8) User self-calibration support;
- 9) Network cable-to-wire test: 8 LEDs correspond to the display;
- 10) Network cable search test: with a cable search device;
- 11) Red light: 2mW/10mW/30mW/50mW.

Note: The instrument functions may vary depending on the selected model.

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

Configuration list

No.	Name	Quantity	Remarks
1	Host	1	
2	instruction manual	1	
3	certificate of conformity	1	
4	Sling	1	
5	AAA battery	3	Dry battery selected
6	Lithium battery	1	Lithium battery selected
7	Line finder	1	With RJ45 Cable Tracking function
8	VFL ceramic core	1	With VFL function

Technical specifications

OPM	
Wave range	800nm~1700nm
Connector	Universal
Detector type	InGaAs
Power range	-70dBm~+6dBm -50dBm~+26dBm
Uncertainty	±5%
Standard wave	850/980/1270/1300/1310/1490/1550/1577/1625/1650nm
Display resolution	Linear display:0.1%, Logarithmic display:0.01 dBm
Identified frequency	CW, 270Hz, 330Hz, 1kHz, 2kHz
Storage	500
Wavelength recognition	Support
VFL	
Wavelength	650nm±30nm
Output power	2mW/10mW/30mW/50mW
Mode	CW/1Hz/2Hz
Connector	Universal
RJ45 Cable Sequence(standard). RJ45 Cable Tracking	
Test Range	≤300m
Others	
Power Supply	3 AAA batteries/Lithium batteries: 3.7V/700mAh
Interface	Type-C
Battery duration	≥120h(OPM)
Automatic shutdown time	OFF/10/30/60min
Operating temperature	-10°C~+50°C
Storage temperature	-40°C~+70°C
Relative humidity	0~95% No condensation
Dimensions	122mmx73mm x28mm
Weight	About 170g

Certificate
of Quality

QC: 011

Mini-OPM Series Instructions

