

Optical Light Source Operation

SKYSHL handheld fiber optic light source can provide a highly stable light source for measuring fiber continuity and loss in the field, laboratory and manufacturing environment.

■ Safety

Do not look directly at the OLS port and connector of the device to avoid damage to your eyes. please set the OLS status to "OFF" or turn off the device when not using the device. The PC adapter is the default adapter of the device (APC connector is optional, please contact SKYSHL). It is recommended to wear goggles to protect your eyes.

■ Change the Wavelength

Press the **Laser** button to select light sources of different wavelengths, and the device will display the current wavelength and modulation type.

■ Modulation Mode Switch

The light source modulation mode can be switched to 0/270/1k/2kHz in sequence by pressing the **CW/TON** button.

Functions User Interface Introduction

OLS Modulation Mode

OLS Wavelength

OPM Wavelength Switch Display

OPM Loss Value

OPM Basic Reference Value

Automatic Shutdown Icon

VFL Status

Battery indicator



Technical Parameter

Optical Power Meter			
Wavelength Range(nm)	800~1700		
Detector Type	InGaAs		
Detection Range	φ0.3mm		
Measurement Range(dBm)	+70~-+8dBm	+50~-+26dBm	
Connector	2.5mm universal connector + FC or SC		
Display Resolution	0.01dBm		
Uncertainty	±5%		
Optical Light Source			
Wavelength(nm)	850/1300	1310/1550	850/1300/1310/1550
Light Components	FP-LD		
Output Power(dBm)	-6~-7		
Modulation	270Hz,1KHz,2KHz		
Fiber Type	SM,MM		
Connector	2.5mm universal connector + FC or SC		
Visual Fault Locator			
Output Power (mW)	1/5/10/20mW		
Connector	2.5mm universal connector + FC or SC		
Wavelength (nm)	650		
Spectrum Line Width	±10(20℃)(nm)		
Applicable Fiber	SM,MM		
Internal Modulation	CW, 2Hz		
General Parameter			
Working Temperature(℃)	-10~-+60		
Storage Temperature(℃)	-25~-+70		
Automatic Shutdown Time	10min		
Power Supply	3xAA batteries (Optional Rechargeable Battery)		
Working Time	about 12.5hours(for 3x1500mah)①		
Dimensions(mm)	76*177.5*40		
Power Supply	5V2A②		
Weight (KG)	0.275(Exclude Battery)		

Note:

①Working time is the time when OPM, VFL and OLS all work continuously.

②When the rechargeable battery is selected, the accessory contains a 5V2A charger.



Scan the QR code to download the product documents

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If there are any issues with the product, please contact the above email directly before leaving a review so we can take care of any issues immediately.



CAUTION

DO NOT LOOK DIRECTLY AT THE LASER

SKYSHL

Optical Power Meter Optical Light Source

UESER'S MANUAL



Shenzhen SKYSHL Technology CO.,Ltd.
Version:2.0

Foreword

- Thank you very much for purchasing SKYSHL products. This manual will explain how to configure and use our company's optical fiber tester. We promise that all products meet the quality standards announced by our company.
- In order to ensure the normal use of the instrument and personal safety during the use of the instrument, please read this manual carefully before use.
- The company is not responsible for instrument damage, personal injury or other losses caused by improper use.
- The company strives but does not guarantee the complete accuracy of the manual, and reserves the right to change the contents of the manual without prior notice.

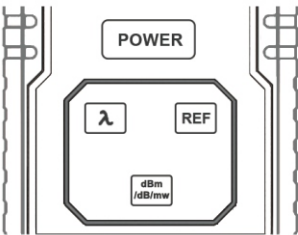
Safety Information

- Please keep the equipment clean. Do not place the instrument in an environment with dust and direct sunlight. Do not use organic solvents, acidic or alkaline solvents to clean the device body.
- This equipment contains high-precision electronic and optical components, please handle with care to avoid severe vibration.
- Do not squeeze or hit the LCD screen to avoid damage to the screen.
- Do not disassemble any parts of the instrument except those parts which are allowed to be replaced by the user as stated in this manual. Replacement parts and internal adjustment can only be carried out by Shenzhen SKYSHL Technology Co.,LTD. or by its authorized maintenance personnel.

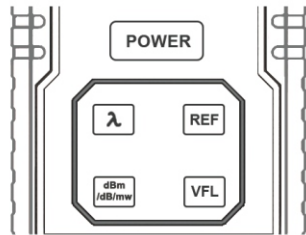
Features

- Optical power meter support 850nm,1300nm,1310nm,1490nm,1550nm and 1625nm six Calibrated wavelengths.
- Field-swappable connector adapters for maximum flexibility.
- The power meter has absolute power and link loss measurement functions.
- Large Color LCD screen,easy operation.
- Optical light source with multiple output wavelength combination at option: 850nm&1300nm;1310nm&1550nm;850nm/1300nm&1310nm/1550nm four wavelength output. (The wavelength can also be customized).
- CW,270Hz,1KHz,2KHz modulation output.

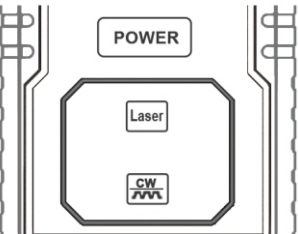
Meters Key Diagram



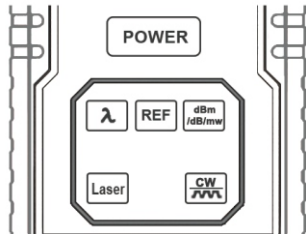
Optical Power Meter Series



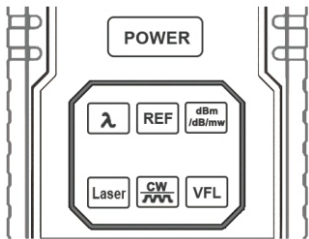
Optical Power Meter+VFL Series



Optical Light Source Series



Optical Power Meter+OLS Series



Optical Power Meter+OLS+VFL Series

Button Introduction

Button	Function introduction
POWER	Turn on and off the device button (press button and hold 3 seconds) and auto power off function settings (short press to cancel auto power off/activate auto power off).
λ	Wavelength switching button; 850/1300/1310/1490/1550/1625 nm wavelength can be switched on OPM.
Laser	Switchable 850/1300/1490/1310/1550nm wavelength in OLS(850/1300nm;1310/1550nm;1310/1490/1550nm;850/1300/1310/1550nm).
dBm/dB/mW	Power meter unit switching button, can switch units such as dB/dBm/nW/mW.
REF	OPM reference value measurement setting button, short press REF button to confirm, short press dBm/dB/mW button to cancel.
VFL	VFL status switching key to control the VFL OFF (closed) / 0Hz(continuous light status)/2Hz(fixed frequency light status).
CW	OLS switching light source modulation mode button, can switch to 0/270/1k/2kHz.

Operating Instructions

Power Operation

- **Turn on the tester**
Press and hold the **POWER** button for 4seconds to turn on the device
- **Turn off the tester**
Press and hold the **POWER** button for 3seconds to turn off the device when in working mode.
- **Activate automatic shutdown function**
Short press the **POWER** button when in working mode, the automatic shutdown icon will appear at the bottom left of the screen.

Item	Icon	Description
Normal Battery		The device can operate normally.
Low Battery		The device is about to shut down.
External Power Supply		External power supply status
Auto Shutdown		The device automatically shuts down after 10min.

- **Disposable alkaline batteries replacement**
Please turn off the tester before replacing the battery, and open the battery cover on the back, and place the battery according to the battery polarity.
- **Lithium battery charging(Optional)**
If the tester is powered by a lithium battery,we will provide a 5V 2A charger, which can be connected to the USB interface to charge the tester.

Optical Power Meter Operation

Optical power meter can be used for absolute optical power measurements as well as for relative loss measurements in optical fibers.
There are a few things you should do to prepare before using a fiber optic power meter. First,reate a worksheet to document your testing data. Next,prepare documents showing how and where all your cables are installed.

- **Choose Calibration Wavelength**
The test wavelength list of the power meter include the following six calibration wavelengths:850/1300/1310/1490/1550/1625nm
Press the **λ** button to select the calibration wavelength.
- **Choose Unit**
The tester provide three units--dBm/dB/mW.
Press the **dBm/dB/mW** button to select the unit.
- **Set Reference Value**
Press the **REF** button to set the current measurement value as the reference value.the measured value of the optical power meter will subtract the REF value after setting the REF value, so that the tester only displays the loss value of the fiber.

Visual Fault Locator operation

Visual fault locator is used for the measurement in single mode or multi-mode fibers.
■ **Warning:**Please do not look directly at the red light emitted by the tester to avoid damage to your eyes! And be sure to follow safety precautions. It is recommended to wear goggles to protect your eyes.

Item	Description
OFF	Closed
0Hz	Continuous light status
2Hz	Flashing light status

Press the **VFL** button to switch the status of VFL. Please keep VFL in the "OFF" status when not using the VFL function.