



User's Manual

SUN-LS100 Series

Fiber Optic Light Source

English

Table:SUN-UM-TE-LS005

Version:A/0



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1. Overview

Sun Telecom's SUN-LS100 series of handheld light source provides 1~4 output wavelengths to meet specific requirements and other wavelengths according to customer's needs. It provides highly stable output power and wavelengths and has a function of power saving. It is a cost-effective testing solution for the fiber optic network together with an optical power meter.

Features

- Laser output with high-stability, multi-wavelength and single/multi mode
- Large LCD display
- Switch button for changing operating wavelength and easy to operate
- Long working hours
- Standard FC port or customizable FC/SC/ST interchangeable port
- Auto power off after 10 minutes without operation
- Low battery voltage detection

2. Specifications

Parameters	Specification
Wavelengths (nm)	850/1300/1310/1490/1550/1625, up to 4 selectable wavelengths
Fiber Type	SM/MM
Emitter Type	FP-LD
Output Power (dBm)	-7~-6
Modulation Frequency CW (Hz)	270/330/1K/2K
Optical Port	FC port (default) or FC/SC/ST interchangeable port (customized)
Power Supply	3*AA 1.5V batteries
Battery Life (Hours)	45
Operating Temperature (°C)	-10~60
Storage Temperature (°C)	-25~70

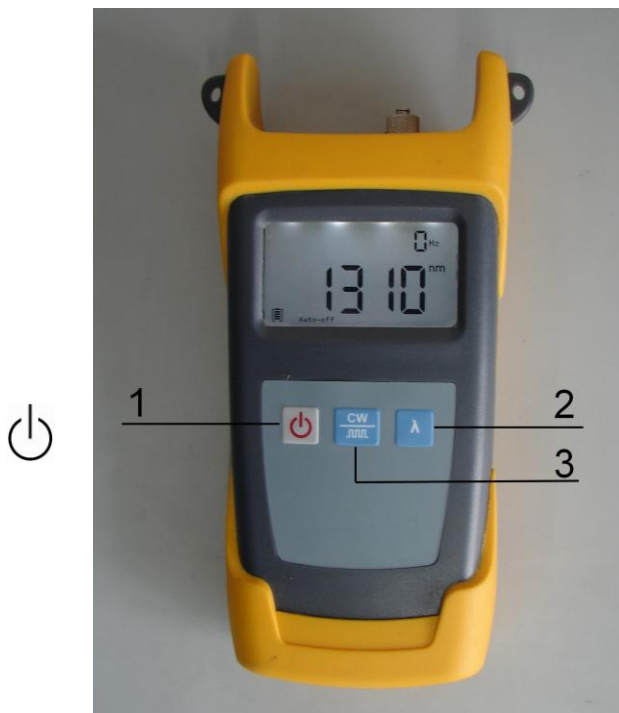
Dimensions (mm)	192(L) x 102(W) x 50(H)
Weight (g)	310 (without battery)

3. Standard Accessories


No.	Product	Unit	Quantity
1	Light Source	set	1
2	AA 1.5V Battery	pieces	3
3	Soft Bag	piece	1
4	Power Adapter	piece	1
5	User's Manual	piece	1

4. Function

Function Instructions






- (1) “ ” Power Supply Switch: Press it to turn on or off the unit. Auto Shut Off Selection: Press this key shortly to turn on or off the auto shut off function. Under this situation, the unit will automatically shut off after ten minutes idle time.
- (2) “λ” Wavelength Selection: Press this key to switch the wavelength and display it in the middle of the LCD screen.
- (3) “” Switch the modulation: Press this key to switch modulation between the continuous light and modulated light. The frequency of modulated light is 650nm (CW, 2HZ), 13/15(270Hz, 1KHz, 2KHz) and it will displayed on the top right corner of the LCD screen where will show 0Hz under the continuous light mode.

5. Operation

1.1. Turn on/off the unit

Press “” key to turn it on, then the LCD screen display the following information:

- (1) When using the AC adapter, the AC adapter’s mark will be showed on the central left screen and lighted.
- (2) The battery mark is showed on the left bottom screen and will be lighted when using the battery. The capacity in the mark will decrease with battery power. Please replace the battery when the mark is empty.
- (3) The “auto-off” mark is showed on the bottom screen. The auto off function is lighted and valid after the unit turned on. The unit will automatically shut off after ten minutes idle time.
- (4) The wavelength is showed in the middle of the screen, the unit is nm.
- (5) The frequency is showed on the top left screen, the unit is Hz.

Press “” again to turn off the light source.

6. Maintenance

- (1) Clean the optical connector and adapter regularly.
- (2) Use the regulated optical connector for the test.



- (3) Shut off the power and cover the dust-proof cap after your test.
- (4) Select the power supply within the required voltage range when using AC adapter.
- (5) Please take out the battery when it is not in operation for a period of time.

7. Troubleshooting

Problems	Possible reasons	Solution
Faint display on the LCD screen	The battery power is low	Charge or replace the battery.
Fail to turn the unit on	Low battery power or the battery is put wrongly	Replace the battery. Re-put the battery
Optical power is not stable after the unit turned off.		Use it after 15 minutes warm-up.

8. Notice

- Ensure the connector is clean when tested.
- Do not plug in the power supply when install the battery.
- Do not look into the laser beam when test.
- Please charge the battery before using and do not charge it in the unit.
- Please cover the dust-proof cap when it is not in operation.



9. Warranty and service

Caution: Repair it in the field is Forbidden.

18 months warranty for Our Light Source

9.1 We warrant that the Light Source will be free from defects in material and workmanship for 18 months. Should the device fail at any time during this warranty period, we will, at its sole discretion, replace, and repair or refund the purchase price of the product. The worth of the repair or replace will not be higher than purchasing price of this unit.

9.2 If the problems occurred can not be solved by the trouble shooting methods, please contact us or the local distributor directly.

9.3 This warranty is limited to defects in our production, workmanship or material; we will repair or replace the unit free of charge. This warranty only applies to the unit under normal operation without any damage or wrong operation.

The warranty does not include the following problems:

- (1) Repair the unit by yourself without our official authorization.
- (2) Wrong operation or accident,

9.4 As to the freight cost caused by repair or replaces the unit under warranty; it will be shared by the customer and us.

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