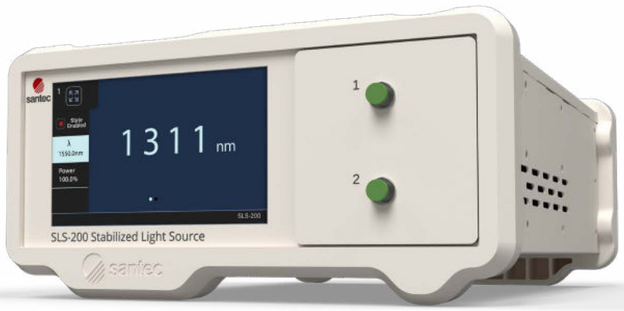
# Stabilized Light Source

## SLS-200




## Product Overview

The SLS-200 series of fixed light sources is a highly configurable system with many different options and customizations. The SLS-200 can be configured with up to 24 discrete lasers or LEDs. The system can also have a mix of difference source types, wavelengths, fiber types, and output power to accommodate any and all applications in one box.

### High Power Options for CPO Testing

Delivers high stability and precision, making it ideal for testing Co-Packaged Optics (CPO) and Photonic Integrated Circuits (PICs). Its reliable output ensures accurate measurements for advanced optical component characterization and system validation.

### Factory Configurable Wavelength Mix

Each SLS system is highly configurable. The system can have a mix of LED sources, laser sources, different fiber types and different output power levels. If a standard configuration does not fit the application, please contact a sales representative to discuss the possibility.

### Compact Benchtop System

The SLS systems come in a 1U half rack system with up to 8 discrete sources, a 2U half rack system with up to 16 ports of optical sources, or 2U full rack system with up to 48 outputs. If required the SLS system can be further expanded. This compact size allows for more working bench space for the technician.

### Features

- Factory configurable wavelength mix
- High power options (100, 200, 400mW) with adjustable output power.
- Customer definable launch conditions
- SCPI commands via USB or Ethernet
- Support common connector types
- LEDs, Lasers, SLED options available

### Applications

- CPO and PIC testing
- Optical alignment
- Environmental testing of IL for cables and optical components
- Real time IL monitoring

### Compliance

- Available with controlled launch conditions (EF, 70/70, 85/85, AS100 etc.)

### Support for Most Common Connector Types

The SLS systems accommodate standard connector types such as SC, LC, FC, ST, etc.

### USB and Ethernet Communication Interfaces

Integrate the SLS system into an automation process using the USB SDK or via ethernet commands to control the instrument.

## SLS Optical / Electrical Specifications

| Parameter | Specification | | |
|---|---|---|---|
| | DFB Laser | FP Laser | LED |
| Fiber Type (µm) | 9/125 | 9/125 | 50/125, 62.5/125 or 105/125 |
| Launch Condition | N/A | N/A | Available upon request |
| Nominal Wavelengths (nm) [1] | 1271 to 1611[2] | 1310 / 1490 / 1550 / 1625 | 850 / 1300 |
| Center Wavelength Accuracy (nm) | < 3 | < 15 | < 30 |
| Source Bandwidth (nm) | < 1 | < 10 | > 30 |
| Output Power (typ.) (dBm) | 0, 10, 13, 20, 23, 26 | 0 10 | -18 @ 850 nm<br>-21 @ 1300 nm |
| Source Stability (dB) [2] | ± 0.01[3] | | |
| Remote Interface | USB or Ethernet | | |
| Display | 5" touch screen | | |
| Input Voltage | 100-240 V AC, 50-60 Hz | | |
| Power Consumption (VA) | 60 maximum | | |

**Notes:**
[1] *Custom sources available upon request*
[2] *Selectable in 20 nm increments, smaller increments available upon request*
[3] *Over 1 hour with maximum temperature variation of 1 °C with TEC option*

## SLS Mechanical / Environmental Specifications

| Parameter | Specification | | |
|---|---|---|---|
| Chassis Type | 1U Half Rack | 2U Half Rack | 2U Full Rack |
| Unit Dimensions W x H x D (cm)[1] | 22.5 x 4.5 x 32.5 | 22.5 x 9 x 32.5 | 42.5 x 9 x 32.5 |
| Unit Weight (kg) | 6 | 8 | 12 |
| Shipping Box Dimensions W x H x D (cm) | 36.5 x 39 x 53 | | |
| Volumetric Weight (kg²) | 15 | | |
| Operating Temperature (°C) | 0 to 40 | | |
| Storage Temperature (°C) | -40 to 70 | | |
| Humidity (Non-condensing) | Maximum 95% RH from 0 to 40°C | | |

**Notes:**
[1] *Excluding removable rubber bezels, Add 1.5cm to W and 3.5cm to H*

## Ordering Scheme & Instructions

1. Configure SLS Stabilized Light Source

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| CHANNELS | |
|---|---|
| 01 | 01 channel |
| 24 | 24 channels |

| SOURCE TYPE | |
|---|---|
| FP | Fabry Perot |
| FP10 | 10 mW FP |
| DFB | Distributed feedback |
| DFB10 | 10mW DFB |
| LED | |

| WAVELENGTH | |
|---|---|
| 3 | 1310 |
| 5 | 1550 |
| 35 | 1310/1550 same port |
| 4 | 1490 |
| 6 | 1625 |
| 46 | 1490/1625 same port |
| 3456 | 1310/1490/1550/1625 same port |
| 8 | 850 |
| 83 | 850/1300 |
| 65 | 650 |
| Others available upon request | |

| FIBER TYPE | |
|---|---|
| 9 | 09 µm |
| 50 | 50 µm |
| 62 | 62 µm |
| 100 | 100 µm |
| 1000 | 1000 µm |

| CONNECTOR | |
|---|---|
| FA | FC/APC |
| FP | FC/UPC |
| SA | SC/APC |
| SP | SC/UPC |

| CHASSIS SIZE | |
|---|---|
| 2H | 2U half rack |
| 2F | 2U full rack |

## In the Box

**SLS-200 -** Stabilized Light Source - Switched Output

- SLS-200
- Power Cable
- Ethernet Cable
- USB Cable

EU Compliant UK Compliant RoHS Compliant


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