SLD-xxxx

SLD Light Source

Specifications

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• Preparations before use

This machine is warranted from any failure in normal operation as the machine is fully inspected mechanically and electrically before shipment from the factory. As soon as you receive the cargo, unpack and make certain that the machine is not damaged in transit.

1. Included Items

If any missing items are found upon inspection, contact us immediately.

We recommend that the carton box and the inner corrugated boards should be kept with care to avoid damage in case of reuse for transfer to another location.

2. Acceptance Inspection

(1) Mechanical movement check

As to external appearance, movement of the switch, the pump on button, the adjust dial, and connectors, carry out inspection under the condition of being the power supply off to look for possible damage or trouble caused in transit.

(2) Operation check

When no trouble is found upon mechanical movement check, carry out operation test to check functions, followed by the instructions of Operation Manual.

(3) Upon finding damage or anomalies

If, during acceptance inspection, damage to the machine or anomalies in connection with the specifications is found, contact us immediately with details of the trouble.

• Optical Specifications

- Single-Peak Type -

Product No. Benchtop / Module		Center wavelength (nm)	Output power (mW)	Spectral band width typ.(nm)	Laser class (Max. output power)	Optical isolator, Connector
SLD-0830-01[*1*2] / SLD-Md0830-01[*3]		830 ± 50	≥ 1	15	Class 3R (2mW)	w/o Isolator, FC/APC standard
SLD-0970-01[*1*2] / SLD-Md0970-01[*3]		970 ± 20	≥ 1	20	Class 3R (6mW)	
SLD-1045-01[*1] / SLD-Md1045-01[*1]		1045 -25/+10	≥ 1	70	Class 3R (6mW)	
SLD-1275-05 / SLD-Md1275-05		1275 ± 20	≥ 5	60	Class 1 (15mW)	w/ Isolator , FC/PC standard
SLD-1310 / SLD-Md1310	-18	1310 ± 20	≥ 18	30	Class 1 (80mW)	
	-18-W			52		
	-36	1310 ± 20	≥ 36	25		
	-36-W			40		
SLD-1350-10 / SLD-Md1350-10		1350 ± 20	≥ 10	40	Class 1 (20mW)	
SLD-1400-12 / SLD-Md1400-12		1400 ± 20	≥ 12	30	Class 3R (20mW)	
SLD-1430-12 / SLD-Md1430-12		1430 ± 20	≥ 12	40	Class 3R (20mW)	
SLD-1480-12 / SLD-Md1480-12		1480 ± 20	≥ 12	40	Class 3R (20mW)	
SLD-1550 / SLD-Md1550	-13	1550 ± 20	≥ 13	35	Class 3R (20mW)	
	-13-W			75		
SLD-1620-06 / SLD-Md1620-06		1620 ± 20	≥ 6	55	Class 1 (10mW)	
SLD-1650-08 / SLD-Md1650-08		1650 ± 20	≥ 8	45	Class 1 (10mW)	

*1: Available built in isolator option, Its power specification is ≥ 0.5mW when the isolator is installed.

*2: The case size of built-in isolator option is multi-peak type.

*3: Unavailable built in isolator

- Multi-Peak Type -

Benchtop Only	Output power (mW)	Spectrum Power Density (dBm/nm)	Laser class (Max. output power)	Optical isolator, Connector
SLD-1070-10 [*1]	≥ 10	≥ -20 @1050 to 1130 nm	Class 3B (50mW)	w/o Isolator, FC/APC standard
SLD-1550/1650-10	≥ 10	≥ -20 @1520 to 1670 nm	Class 3R (50mW)	w/ Isolator , FC/PC standard
SLD-1310/1400/1480/1600-10	≥ 10	≥ -30 @1260 to 1620 nm	Class 3R (50mW)	
SLD-1310/1430/1550/1690-10	≥ 10	≥ -35 @1250 to 1750 nm	Class 3R (50mW)	

*1: Unavailable built in isolator

- Common Specifications -

Laser structure	Super Luminescent Diode
Optical fiber	Single Mode Fiber (Refer to “Final Test Inspection Records”)

CAUTION

***1: These products do not have an optical isolator in its output line. It cannot eliminate the problem stems from unexpected external reflection. Do not place any high-reflective substances like metal at an output end, and any high-reflective optical devices on the optical path. This might cause not only the output power instability but also the serious damage to the unit.**

・Common Specifications for Benchtop-Type

- Physical / Environmental Specification -

Size (mm) *1 / Weight	Single-Peak Type : 66(H)×160(W)×230(D) / ≤ 2 kg Multi-Peak Type : 88(H)×260(W)×350(D) / ≤ 5 kg
Operation / Storage Temperature	0 to 40 °C / -10 to 60 °C
Power Supply	AC 100 to 240V (50/60Hz)

*1 : Not including protrusions

- Option -

No. - 011	FC / PC optical connector
No. - 012	FC / Angled PC optical connector
No. - 013	SC / PC optical connector
No. - 014	SC / Angled PC optical connector
No. - 141	Optical power control (Display: Optical power or Forward current)

- Standard Attached Items -

This instrument	1 unit
Specifications (by these presents)	1 copy or CD
Operation Manual	1 copy or CD
Final Test Inspection Record	1 copy or CD
Spare fuse	1 pcs (stored in the AC inlet)
Power cord	1 pcs

・Common Specifications for Module-Type

- Physical / Environmental Specification -

Monitor function	Output power / Device current / Device temperature
Alarm function *1	Output power / Device current
Control function	Light-emitting device operation is shut down by TTL level L
Operation / Storage Temperature	0 to 40 °C / -10 to 60 °C
Power Supply	DC 5.1 to 5.4 V / ≤ 2.5 A
Size (mm) *2 / Weight	18(H)×120(W)×90(D) / ≤ 0.5 kg

*1: Output power alarm：Decline of the output power (normal:H / alarm:L）

Pumping LD current alarm：Excess of the pump-LD current (normal:H / alarm:L）

*2 : Not including protrusions

* Refer to attached ”Final Test Inspection Records” for detail of pin assigns & threshold values of alarm

* Some models do not have the output power monitor/alarm. Refer to attached ”Final Test Inspection Records” for detail

- Option -

No. - 012	FC / Angled PC optical connector
No. - 013	SC / PC optical connector
No. - 014	SC / Angled PC optical connector

- Standard Attached Items -

This instrument	1 unit (attached flat cable)
Specifications (by these presents)	1 copy or CD
Operation Manual	1 copy or CD
Final Test Inspection Record	1 copy or CD