

SLED/ SLD Broadband Light Source



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Our broadband light sources include free-space SLD light sources and SM/ PM fiber-pigtailed SLD modules based on single transverse-mode SLD emitters, covering wavelength range from 830 nm to 1610 nm.

Custom performance characteristics and configurations are available upon request.

Features

- Max output power up to 10mW (Higher power can be customized)
- Free-space or single-mode fiber output
- TTL/Analog modulation up to 100 kHz

Applications

- Spectral domain optical coherence tomography (SD-OCT)
- Fiber optic gyroscopes (FOGs)
- Optical sensing



中国长春新产业光电技术有限公司
Changchun New Industries Optoelectronics Tech. Co., Ltd

System specifications

Wavelength (nm)	830、840、850、880、1050、1060 1290、1300、1310、1320、1450、1470 1480、1545、1550、1580、1600、1610
Wavelength tolerance (nm, typical)	±20
Output power after fiber (mW)	10
Power stability (rms, over 4hours)	<2%, <1%, <0.5%
Output mode	Free-Space Output with optional single-mode fiber coupling
Operation mode	CW
Transverse mode	TEM00
Beam diameter at the aperture (1/e ² , mm)	~1.0
Beam divergence, full angle (mrad)	<1.5
M ²	<1.2
Expected lifetime (hours)	10,000

Electrical specifications

Power supply	PSU-A-D	PSU-III-FDA
Input voltage	100-240VAC	85-264VAC
Modulation	TTL modulation Analog modulation	
Modulation frequency (kHz)	TTL/ Analog up to 100kHz	TTL/Analog up to 30kHz

Environmental conditions

Operating temperature	10°C to 35°C
Storage temperature	-20°C to +80°C
Humidity	< 90 %, non-condensing

KEYNOTES

*All testing data under the conditions of temperature 25°C.

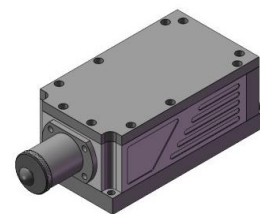
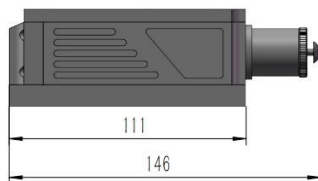
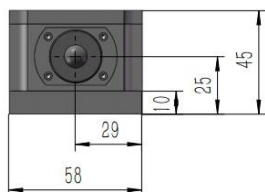
Mechanical specifications

Dimensions of laser head	146 x 58 x 45mm ³	
Dimensions of power supply	PSU-A-D (162 x 144 x 70mm ³)	PSU-III-FDA (171 x 130 x 62.2mm ³)
Material	Aluminum	

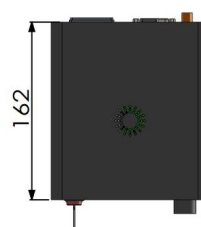
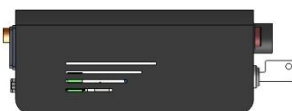
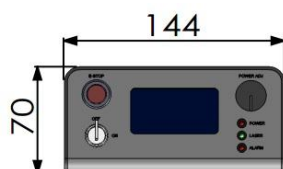


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Dimensions of laser head (mm)



Dimensions of power supply: PSU-A-D (mm)



Dimensions of power supply: PSU-III-FDA (mm)

