

cBLMD-series Compact Broadband Light Source Modules for OEM Applications

cBLMD-series Broadband Light Source Modules are compact, powerful and very wide spectrum light sources for high resolution OCT and other applications. Standard sources are based on a combination of two (-D) or three (-T) SLDs with different center wavelengths. The design of integrated SLD current and temperature controllers ensure excellent operation stability.

cBLMD modules are available with internal optical isolators and without them.

cBLMD design is also recommended for a single-SLD based light source modules if an SLD drive current of up to 600 mA (of up to 900 mA in custom models) is required, or digital control of the SLD is desirable.

cBLMD light source companion software allows control of output spectrum by changing of driving conditions of SLDs combined. **This spectrum control tool can be used to adjust the optical spectrum of the cBLMD light source to meet customer-specific application requirements.**

One-year warranty is provided for all cBLMD-series. Warranty may be extended for a longer time upon request.



Features

- Very wide emission spectra
- High optical power
- Compact design (dimensions of 190 x 110 x 31 mm)
- Optically isolated models available
- +12 V DC supply
- USB virtual serial port and TTL control
- Excellent stability
- Low noise
- Optional internal Variable Optical Attenuators – contact Superlum for more details

Physical Specifications

- Housing dimensions (W x D x H): 190 x 110 x 31 mm (7.48 x 4.33 x 1.22 inches)
- Weight: 950 g

Electrical Power Specifications

- +12 V DC, 2.5 A (max)



Main optical parameters of standard cBLMD light source modules are presented in the table below. Models containing 2 SLDs are titled as cBLMD-D. Models containing 3 SLDs are titled as cBLMD-T. An «-I» suffix to a model number indicates that the model contains an optical isolator.

Optical characteristics of standard models

Model number	Center wavelength (nm)	Spectral width, FWHM (nm)		Output power, SM (mW)	
		Min	Typ	Min	Typ
Min 2-SLD models					
cBLMD-D-840-HP-I	840 ± 10	90	100	9.0	10.0
cBLMD-D-860-G-HP2	860 ± 10	60	70	15.0	20.0
cBLMD-D-860-G-HP2-I	860 ± 10	60	70	10.0	12.0
cBLMD-D-880-HP-I	880 ± 10	95	100	6.0	7.0
cBLMD-D-890-HP1	890 ± 10	140	150	5.0	6.0
cBLMD-D-890-UBB-HP	890 ± 10	180 (6 dB)	190 (6 dB)	8.0	10.0
3-SLD models					
cBLMD-T-850-MP	850 ± 10	155	165	5.0	6.0
cBLMD-T-850-HP	850 ± 10	155	165	12.0	15.0
cBLMD-T-850-HP-I	850 ± 10	155	165	8.0	10.0
cBLMD-T-860-HP	860 ± 10	125	135	12.0	15.0
cBLMD-T-860-HP-I	860 ± 10	125	135	8.0	10.0
cBLMD-T-870-HP	875 ± 10	170	180	6.0	8.0

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