

LS-BB1 Fiber Coupled Broadband Light Source Kit



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S\$4,039^{.00}

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Note: This item requires accessories for use | [Learn More](#)

Product Downloads

General	
LS-BB1	Model Number:
1 - 100%	Intensity Control Option:
>10,000	Lamp Lifetime (hours):
Note: Software, power supply, USB cable, and 1mm core fiber are included.	

Operating Modes:	
Constant output:	CW
Stroboscope:	Frequency0.12 Hz–1 kHz Duty cycle 0–100%
Pulse trigger:	Pulse width: 500μs–4000ms Delay: 4&mu,s–4000ms (Width + Delay <= 4000ms)
Direct mode:	Analog/digital modulation to 2 kHz
Note:	All modes allow output setting of 1–100%

Physical & Mechanical Properties	
Dimensions (mm):	130 x 106 x 56
Weight (kg):	0.45

Optical Properties	
Wavelength Range (nm):	420 - 900

Electrical	
Output Power (mW):	20mW from 1mm fiber (0.5 NA)
Voltage (V):	12

Hardware & Interface Connectivity	
Connector:	SMA
Computer Interface:	RS232 via USB

Regulatory Compliance	
RoHS 2015:	Compliant
Certificate of Conformance:	View
Reach 233:	Compliant

Product Details

- 420 - 900nm Illumination with Converted LED
- Up to 20mW Output Power from a 1mm Multimode Fiber
- Light Coupling with [50μm – 1mm](#) Core Diameter Multimode Fibers
- Ideal for Spectroscopy Applications

The Fiber Coupled Broadband LED Light Source utilizes a VIS/NIR phosphor converter to convert the output of a 450nm LED chip into a broad 420 – 900nm spectrum. This light source provides highly efficient coupling with SMA connected multimode fibers with diameters of 50μm to 1mm and a numerical aperture (NA) up to 0.50, and features an output up to 20mW with a 1mm, 0.5 NA fiber. Featuring a built-in microprocessor, this light source can also be operated as a free-running stroboscope with an adjustable duty cycle and frequency up to 1kHz. The Fiber Coupled Broadband LED Light Source is a powerful alternative to halogen light sources and is ideal for VIS/NIR spectroscopy applications such as protein characterization, oxygen monitoring in marine ecosystems, and respiratory gas analysis. This light source can be controlled manually with the multifunctional rotating knob, directly via programming through a serial RS232 interface or with the provided user-friendly software interface.