

## LS-BB1 Fiber Coupled Broadband Light Source Kit



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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:** Frequency 0.12 Hz–1 kHz  
Duty cycle 0–100%

**Pulse trigger:** Pulse width: 500µs–4000ms  
Delay: 4µs–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.