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LS-WL1 Laser Driven White Light Source Kit



Fiber Coupled Laser-Driven White Light Source



Stock #23-881 [CONTACT US](#)

⊖ 1 ⊕ €3,415⁰⁰

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General

LS-WL1 **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–200 kHz
Duty cycle 0–100%

Pulse trigger: Pulse width: 10 μ s–4000ms
Delay: 4 μ s–4000ms
(Width + Delay \leq 4000ms)

Direct mode: Analog/digital modulation to 100 kHz

Note: All modes allow output setting of 1–100%

Physical & Mechanical Properties

Dimensions (mm):

125 x 110 x 60

Weight (kg):

0.45

Optical Properties

Wavelength Range (nm):

440 - 750

Electrical

Output Power (mW):

500mW from 1mm fiber (0.5NA)

Voltage (V):

12

Power Consumption (W):

20 @ 100% Power

Hardware & Interface Connectivity

Connector:

SMA

Computer Interface:

RS232 via USB

Regulatory Compliance

RoHS 2015:

[Compliant](#)

Certificate of Conformance:

[View](#)

Reach 233:

[Compliant](#)

Product Details

- Extremely High Luminance with Output Power up to 500mW
- Light Coupling with 50 μ m – 1mm Core Diameter Multimode Fibers
- User-Friendly GUI for Remote Control via USB or RS-232
- 450 – 700nm Wavelength Range

Fiber Coupled Laser-Driven White Light Source utilizes a 450nm laser pumped stable ceramic phosphor converter to produce a highly efficient and extremely bright light source with output power up to 500mW from a 1mm fiber. Featuring a broad 450 – 700nm spectral output, this light source can achieve switching frequencies up to 200kHz to act as a high-frequency stroboscope. The switching frequency and duty cycle can be controlled either via the jog-wheel or through the user-friendly software interface. Fiber Coupled Laser-Driven White Light Source's highly efficient optical coupling is suitable for use with multimode fibers of 50 μ m to 1mm and an NA up to 0.50. The high-power white light is up to 100X higher luminance than white LEDs, has a 10,000 hour lifetime through highly efficient cooling, and features simple control via USB or RS-232. This light source is ideal for biomedical and imaging applications including excitation for fluorescence or chemical surface processing, high speed spectroscopy, and high-resolution microscopy.

Note: Software, power supply, USB cable, and 1mm core fiber are included.

Technical Information



