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LS-WL1 Laser Driven White Light Source Kit

Fiber Coupled Laser-Driven White Light Source

Stock **#23-881** **2 In Stock**

- 1 + **£2,949**.00

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Product Downloads

General

Model Number:	LS-WL1
Intensity Control Option:	1 - 100%
Lamp Lifetime (hours):	>10,000

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: 10µs–4000ms
Delay: 4&mu,s–4000ms
(Width + Delay <= 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

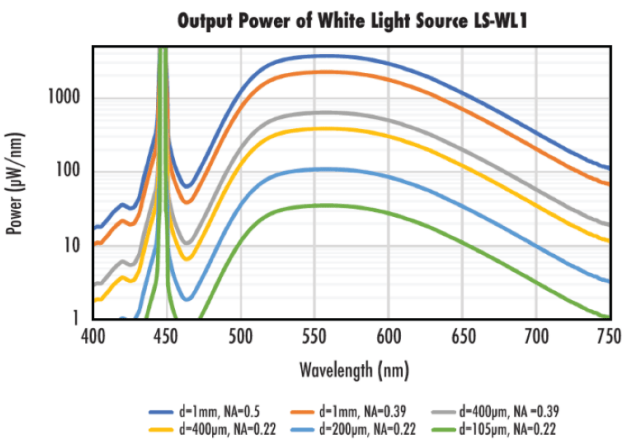
Product Details

- Extremely High Luminance with Output Power up to 500mW
- Light Coupling with 50µm – 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 50µm 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



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