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LS-WL1 Laser Driven White Light Source Kit



Fiber Coupled Laser-Driven White Light Source



Stock **#23-881** **5 In Stock**

- 1 +

S\$5,160^{.00}

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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: 10µs–4000ms Delay: 4µs–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

