

LS-WL1 Laser Driven White Light Source Kit



Fiber Coupled Laser-Driven White Light Source



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

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1

+

£2,949⁰⁰

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Qty 1+	£2,949.00 each
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Product Downloads



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



