

LED Array Light Sources (Page 1 of 2)



Features

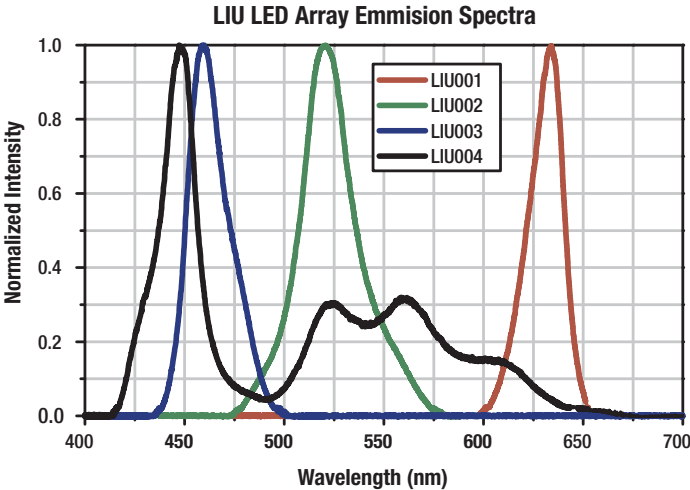
- LED Array Comprised of 20 High-Brightness LEDs
- Longer Lifetime than Traditional Light Sources (Up to 100,000 hrs)
- LED Array Output can be Modulated
- Fits Many Commercial Camera Illumination Units
- Compatible with the 30 mm Cage System

The LIU series of LED light sources are available in red, blue, green, or white LED arrays. Conveniently mounted in a Ø1.5" housing, these light sources can be used for a variety of applications. The housing can be readily secured into most optical mounts used in camera illumination units.

Each LED array light source unit consists of 20 individual LEDs that are mounted in an array on a printed circuit board. When operating at 100 mA, the red, green, and blue LED units have an output intensity of more than 600 µW/cm², while the white LED unit has an output intensity of greater than 1700 µW/cm². These intensities were measured at a distance of 100 mm from the LED array along the central axis.

Mounting Options

These LED light sources are conveniently mounted in a Ø1.5" housing that can be directly secured in most optical mounts used in camera illumination units. Alternatively, the Ø2" OD AD38 mounting ring can be used to secure these light sources in Ø2" mounts, such as the KS2, as shown in the image above. Additional mounting options include two threaded holes on the rear of each housing, one M4 and one 8-32, as well as grooves running the length of the housing that allow the LED unit to be placed in a 30 mm cage system. The LED unit will be suspended by the cage rods but not restrained from moving along the optical axis of the cage system.



ITEM #	COLOR	APPROXIMATE CENTRAL WAVELENGTH	INTENSITY*	MAX CURRENT	MAX VOLTAGE
LIU001	Red	630 nm	600 µW/cm²	120 mA	24 V
LIU002	Green	525 nm	600 µW/cm²	120 mA	24 V
LIU003	Blue	470 nm	600 µW/cm²	120 mA	24 V
LIU004	White	N/A	1700 µW/cm²	100 mA	24 V

*When measured at a distance of 100 mm from the LED along the control axis

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Power Supply and Cord Options

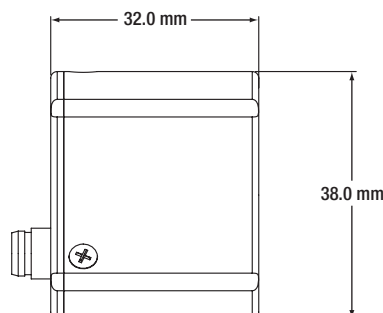
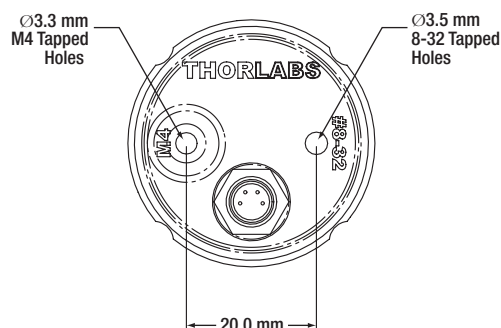
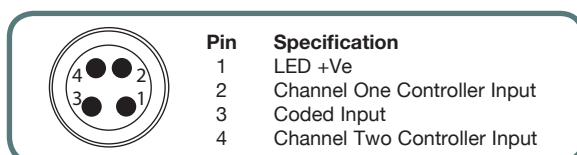
Each LED unit has a 4-pin power receptacle (M8 Straight Socket) on the rear of the housing and is shipped without a power cord. The LIU-PS is a 24 VDC power supply designed to power these light sources. This power supply is shipped with plug adapters that allow the unit to be plugged into the standard AC receptacles found in the USA, UK, and Europe. The PAA630 is a 2 m power cord with an M8 connector on one end that is compatible with the receptacle on these LED arrays and four bare wires on the other end. This allows easy connection to an existing power supply.



LIU-PS
DC Power Supply



PAA630
Power Cord, M8 Straight Socket



ITEM #	\$	£	€	RMB	DESCRIPTION
LIU001	\$ 149.00	£ 107.28	129,63	¥ 1,187.53	Red (630 nm) LED Array, 1.5" Outer Diameter
LIU002	\$ 152.00	£ 109.44	132,24	¥ 1,211.44	Green (525 nm) LED Array, 1.5" Outer Diameter
LIU003	\$ 156.00	£ 112.32	135,72	¥ 1,243.32	Blue (470 nm) LED Array, 1.5" Outer Diameter
LIU004	\$ 162.00	£ 116.64	140,94	¥ 1,291.14	White LED Array, 1.5" Outer Diameter
AD38	\$ 16.00	£ 11.52	13,92	¥ 127.52	Ø1.5" to Ø2.0" LED Mounting Ring
LIU-PS	\$ 58.00	£ 41.76	50,46	¥ 462.26	Power Supply for LED Array
PAA630	\$ 18.00	£ 12.96	15,66	¥ 143.46	2 m LED Light Source Power Cord, M8 Straight Socket

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Thorlabs' CCD-camera-based beam profilers offer true 2D analysis of the beam's power density distribution. This level of detail allows complex mode patterns to be identified while optimizing the laser systems.

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