

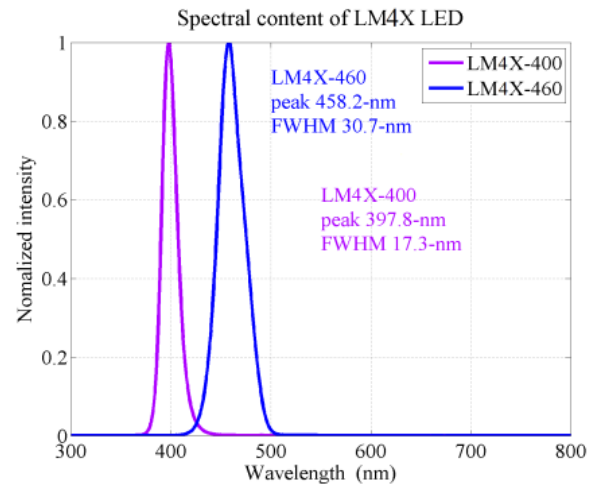
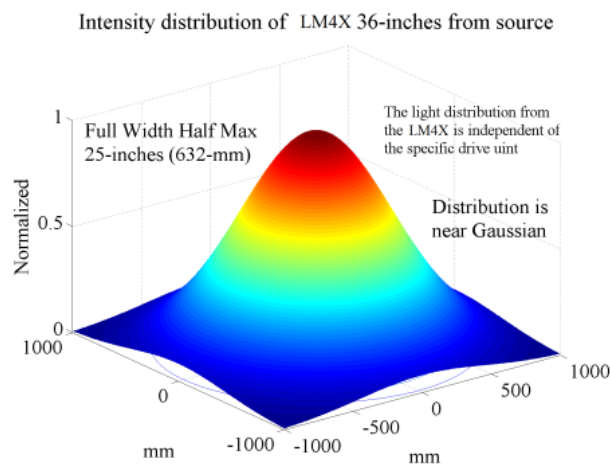
Lifetime 4-inch Air-Cooled LED Light Source

(Product ID: LM4X-DMHP-XXX)

The lifetime 4-inch, air-cooled LED light source provides uniform, stable illumination, for pressure and temperature sensitive paint measurements. The LED is designed for lifetime acquisition systems. The system is overdriven, giving it a higher peak power per pulse than the continuous LED equivalent. Pulse width and frequency are set by sending an external TTL signal to the BNC trigger input. Because it is overdriven, the duty-cycle is limited to 5%. The maximum pulse width is limited to 1-ms. A governor circuit in the system prevents the system from exceeding 5% duty cycle, which could damage the LED. The maximum pulse width is limited to 1-ms. These units supersede the LM2X-DMHP-XXX LEDs as they offer a 3X increase in power, 5X faster rise and fall times for pulsed operation, and increased temperature range of operation. The light distribution from the unit is approximately Gaussian for distances greater than 18-inches [45-cm] from the source. The units are available in 400-nm and 460-nm, however other wavelengths are available upon request.



Ordering information: LM4X-DMHP-XXX (LED head with short-pulse/high-power driver -XXX denotes wavelength)



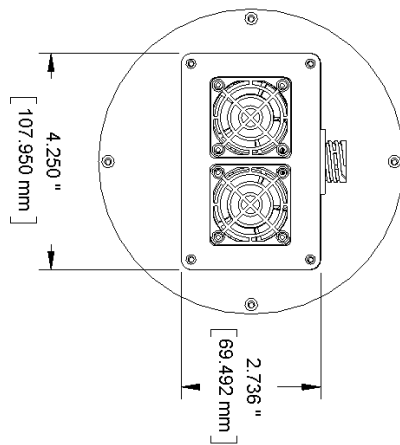
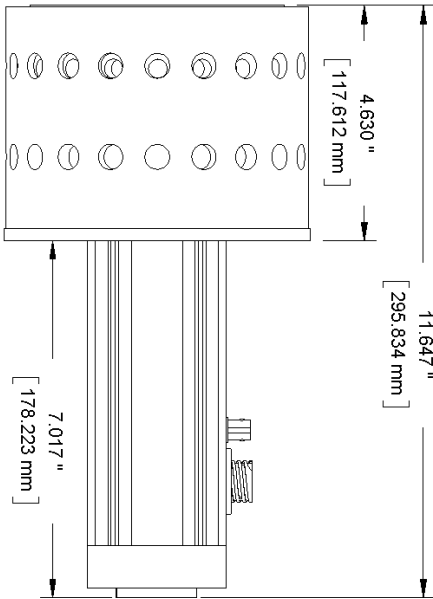
SPECIFICATIONS

Optical Power	3.0 W
Input	36V --- 5A
Stability	~0.2 % per hour after warmup
Wavelength	400-nm, 460-nm
Rise time (10% - 90%)	< 500 ns
Fall time (90% - 10%)	< 500 ns
Maximum Duty Cycle	5%
Operating Temperature	-10°C to 60°C
FWHM	+/- 18-nm
ECCN	EAR99

Innovative Scientific Solutions, Inc.
7610 McEwen Road, Dayton, OH 45459
Phone (937) 630-3012, Fax (937) 630-3015

email: issi-sales@innssi.com
web: www.innssi.com

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LM4X-DMHP-XXX