



**10-50mW TEM<sub>00</sub> Single Frequency Output**

**Low Divergence, High Stability, Low Noise**

**Diode Pumped, Compact, Air-Cooled**

System Specifications	SLM 671-10	SLM 671-30	SLM 671-50
Wavelength	671nm	671nm	671nm
Output Power	10mW	30mW	50mW
Beam Diameter at the aperture	0.5 mm	2.0 mm	2.0 mm
Transverse mode	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>
Longitude mode	Single	Single	Single
Beam divergence	<1.5 mrad	<1.5 mrad	<1.5 mrad
M <sup>2</sup> factor	M <sup>2</sup> ≤ 1.2	M <sup>2</sup> ≤ 1.2	M <sup>2</sup> ≤ 1.2
Spectral linewidth	<0.00005 nm	<0.00005 nm	<0.00005 nm
Coherent length	>50m	>50m	>50m
Polarization ratio	>100:1	>100:1	>100:1
Power stability	3% @ 4 hours	3% @ 4 hours	3% @ 4 hours
Noise of amplitude	<0.5% RMS	<0.5% RMS	<0.5% RMS
Warm-up time	5minutes	5minutes	5minutes
Expected lifetime	10000 hours	10000 hours	10000 hours
Warranty time	1 year	1 year	1 year

	Specifications	
Utility and Environmental Requirements	Power supply	90-260VAC
	Power Consumption	50W
	Operating temperature	10-35 °C
	Dimensions(L×W×H)	
	Laser Head	160×60×50mm
	Power Supply	194×160×90mm
	Weights	
Laser Head	0.38Kg	
Power Supply	1Kg	

# 671nm

## SLM CW Red Lasers



This 671nm CW Red Laser is a Diode-Pumped Solid-State (DPSS) Single Frequency Laser with Compacted, Rugged and Air-cooled geometry.

The laser system includes one Laser Driver and one Laser Head, they are connected with a cable for compliance with FDA regulations as an OEM laser product, and can be operated over a wide temperature range with a Low Noise and High Stability laser output.

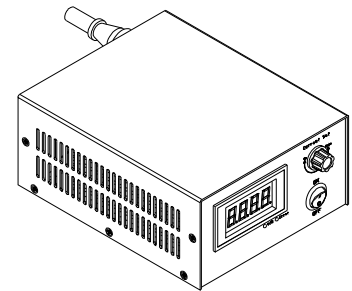
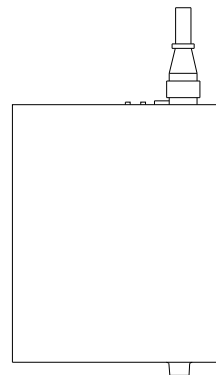
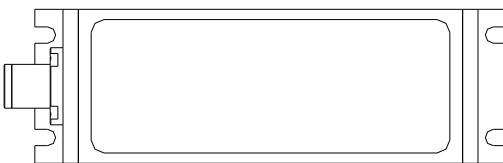
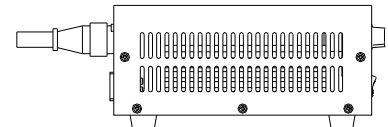
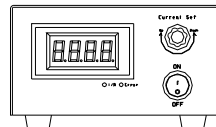
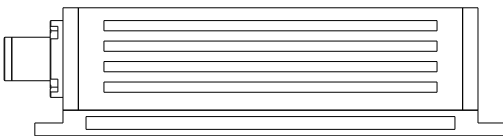
The DPSS laser features Thermal Electric Cooling (TEC) and produces a line polarized beam with a Transverse Mode of TEM<sub>00</sub>.

Further more, the Laser Driver provides Over-Temperature control

and Over-Current protection, and control for adjusting output power with external TTL or Analog modulation. The durable Laser Head is constructed of aerospace grade aluminum with bolt mounting slots on the base which works as a heat sink for excellent heat dissipation.

Laser Head

Laser Power



Laser Lab Components, Inc. (LLCI) follows a policy of continuous product improvement. Specifications are subject to change without notice.

LLCI offers a limited warranty for all SLM™ systems. For full details on warranty coverage, please refer to the Service and Support section at [www.LaserLabComponents.com](http://www.LaserLabComponents.com), or contact your local Sales or Service Representative.

