LASER COMPONENTS, INC.

Blue 457 nm CW Lasers

8,000 mW Output

Low Divergence,Low Noise

Diode Pumped,Compact, Air-Cooled

System Specifications		BL457-8000
Wavelength		457 nm
Output Power		8,000 mW
Beam Diameter[1]		4.0 mm
Transverse mode		Near TEM_{01}
Beam divergence[2]		＜2.0 mrad
M^2 factor		$M^2 \leqslant 2.0$
Point stability[3]		＜0.05mrad
Polarization ratio		＞100:1
Power stability[4]		< 3%; 5%; 10% @ 4 hours
Noise of Amplitude (rms, 1~20MHz)		< 5% or N/A
Beam Height		94 mm
Warm-up time		< 15 minutes
TTL / Analog Modulation		Optional (2KHz ~ 30 KHz)
Expected lifetime		10,000 hours
Warranty time		1 year
Operating temperature		10-35℃
Power supply		80-260 VAC
Dimensions (L×W×H)	Laser Head Power Supply	333 × 140 × 125 mm 300 × 162 × 134 mm
Weights	Laser Head Power Supply	6.1 Kg 5.2 kg

Note:

All specifications at 457 nm unless otherwise noted.All performance specifications guaranteed at specified output power only.

1 $1/e^2$ at exit port.

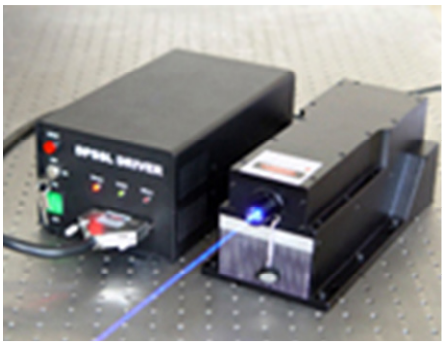
2 Full-angle divergence.

3 Measured as far-field x and y positions over a 25°C to 35°C temperature change.

4 Measured over 4 hours after 15 minute warm-up.

457nm

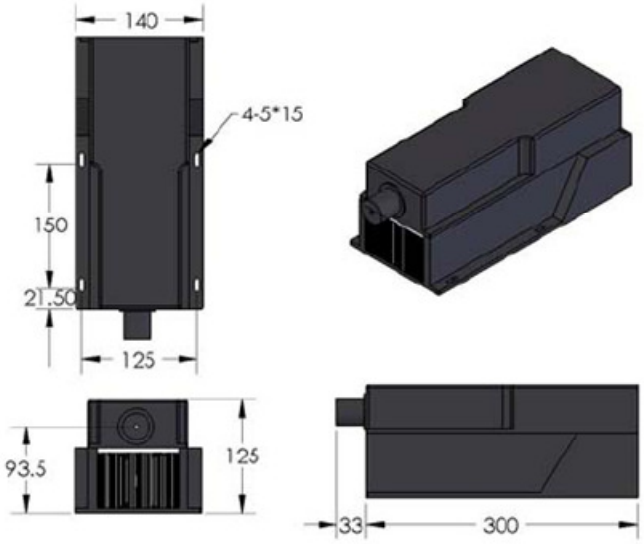
CW Blue Lasers



This 457nm CW Blue Laser is a Diode-Pumped Solid-State (DPSS) 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.

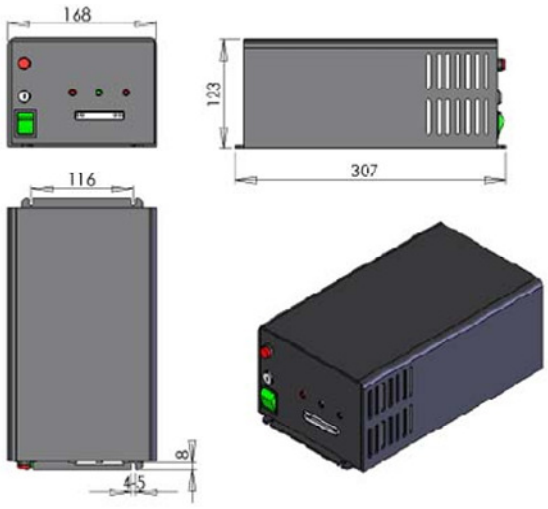
Laser Head

333(L)×140(W) ×125(H) mm^3, 6.1 kg



Laser Power

300 (L) ×162(W) ×134(H) mm^3, 5.2 kg



All Dimensions are in mm

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 BL™ systems. For full details on warranty coverage, please refer to the Service and Support section at www.LaserLabComponents.com, or contact your local Sales or Service Representative.