

Diode Pumped Infrared 1047 nm CrystaLaser®

High reliability High stability Single longitudinal mode Ultra-compact

SPECIFICATIONS

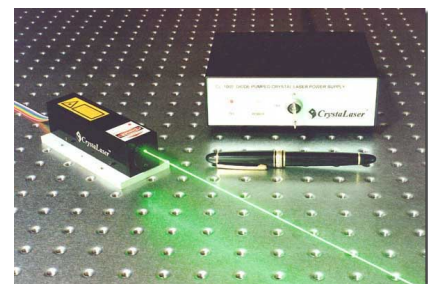
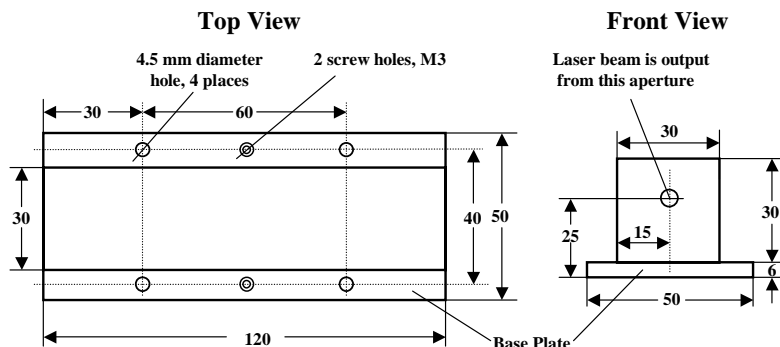
Wavelength	1047 nm			
Laser crystal	Nd:YLF			
Laser version	Standard version		SLM version	
Model No. and output power	CL1047-2W5	2.5 W	CL1047-300-S	300 mW
	CL1047-2W0	2 W	CL1047-150-S	150 mW
	CL1047-1W5	1.5 W		
	CL1047-1W0	1 W		
	CL1047-800	800 mW		
	CL1047-500	500 mW		
	CL1047-300	300 mW		
	CL1047-150	150 mW		
Longitudinal mode spectrum	Multiple			
Coherence length	1 - 5 mm		> 300 meters	
Linewidth	0.3 nm, nominal		< 10 ⁻⁵ nm	
Modulation options	TTL 1kHz, 3 kHz, 10 kHz, 50kHz Analog control, Analog modulation		TTL on/off option	
Output stability (rms)	< 1% over 24 hours; ultra-stable option: 0.25% over 24 hours			
Transverse mode	Single mode, TEM ₀₀ , M ² = 1.0 - 1.2			
Beam diameter (1/e ²)	0.4 mm	Option: 2X - 5X laser beam expanders are available to change beam size and divergence		
Beam divergence	4 mrad	e.g. 0.8 mm beam with 2 mrad divergence; or 2 mm beam with 0.8 mrad divergence		
Beam pointing stability	< 0.005 mrad/°C			
Polarization ratio	100:1; Horizontal linear polarization			
Operation temperature	10 °C to 35 °C			
Warm-up time	< 1 minute			
Operation voltage	90-250 VAC or 12VDC OEM version 11-16VDC; Typical power consumption: 10 W			
Dimensions and weight of laser head	3x3x12 cm ³ (1.2x1.2x4.7 in ³) with a fixed 6 mm thick plate, 0.3kg (0.6 lb) 7x3.6x18.5 cm ³ (2.8x1.4x7.3 in ³), 0.6 kg (1.3 lb) for lasers ≥ 2 W, type 2 size			
Dimensions and weight of power supply	AC: 5x14x15 cm ³ (2x5.5x6 in ³), 0.5 kg (1 lb) DC: 8.5x3.5x12.7 cm ³ (3.3x1.4x5 in ³), 0.2 kg (0.5 lb); option CL-2005 power display AC: 5 x 16 x 15 cm ³			

Fiber coupling option: Single mode and multi-mode fiber delivery.
 CL-2005 power supply option: Power adjustable and power digital display.

Made in the USA



Laser Head All dimensions in mm



Mechanical dimensions of the laser head and power supply of infrared laser are the same as the green laser.