

Diode Pumped Infrared 1313/1319/1342 nm CrystaLaser®

High reliability High stability Single longitudinal mode Ultra-compact

SPECIFICATIONS

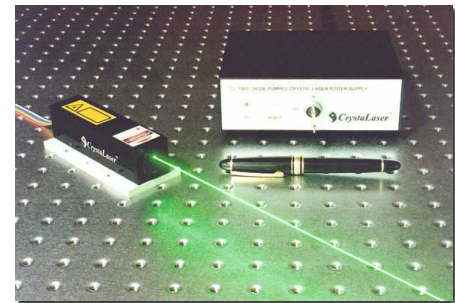
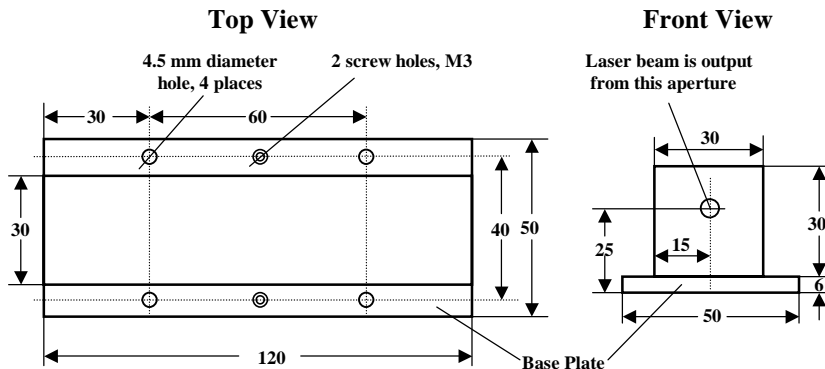
Wavelength	Standard version, Model No.		SLM version, Model No.	
1313 nm Vertical polarization	CL1313-1W0 1 W	CL1313-300 300 mW	CL1313-150-S 150 mW	CL1313-050-S 50 mW
	CL1313-500 500 mW	CL1313-100 150 mW	Power 5 - 50 mW available	
1319 nm Vertical polarization	CL1319-1W0 1 W	CL1319-300 300 mW	CL1319-150-S 150 mW	CL1319-075-S 75 mW
	CL1319-500 500 mW	CL1319-100 150 mW		
1342 nm Horizontal polarization	CL1342-1W5 1.5 W	CL1342-300 300 mW	CL1342-200-S 200 mW	CL1342-075-S 75 mW
	CL1342-1W0 1 W	CL1342-150 150 mW	CL1342-150-S 150 mW	
	CL1342-500 500 mW	CL1342-075 75 mW		
Longitudinal mode spectrum	Multiple		Single; frequency tunable option available	
Coherence length	1 - 5 mm		> 300 meters	
Linewidth	0.3 nm, nominal		< 10 ⁻⁵ nm	
Modulation options	TTL 1k, 3k, 10 kHz, 50kHz; Analog modulation		TTL on/off option	
Output stability (rms)	< 1.5% over 24 hours; ultra-stable option: 0.5% or 0.25% over 24 hours			
Transverse mode	Single mode, TEM ₀₀ , M ² = 1.0 - 1.1			
Beam diameter (1/e ²)	0.3 mm	Option: 2X - 5X laser beam expanders are available to change beam size and divergence		
Beam divergence	6 mrad	e.g. 0.6 mm beam with 3 mrad divergence; or 1 mm beam with 2 mrad divergence		
Beam pointing stability	< 0.005 mrad/°C			
Polarization ratio	100:1; 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