

# Diode pumped 473 nm blue CrystaLaser®

High reliability    High stability    TEM<sub>00</sub> mode    Ultra-compact

## Specifications

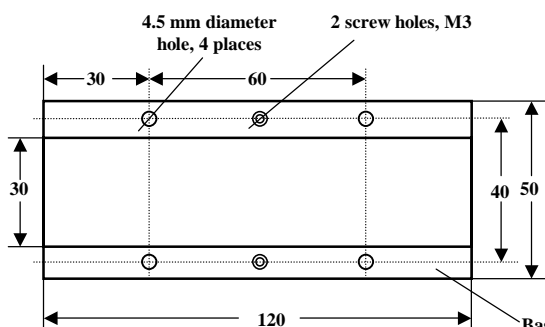
Wavelength	473 nm					
Laser version	Standard version		Low noise version		Single longitudinal mode	
Model No. and output power	CL-473-150	150 mW	DL-473-070-L	70 mW	DL-473-020-S	20 mW
	CL-473-100	100 mW	DL-473-050-L	50 mW	DL-473-010-S	10 mW
	CL-473-075	75 mW	DL-473-020-L	20 mW		
	CL-473-050	50 mW	DL-473-010-L	10 mW		
	CL-473-025	25 mW				
	CL-473-010	10 mW				
	CL-473-005	5 mW				
Longitudinal mode	Multiple		Multiple		Single	
Output noise (rms, 10Hz - 50MHz)	< 2% from 1Hz-5 kHz ~ 30% around 500 KHz		< 0.5 %		< 0.5%	
Linewidth	0.1 nm, nominal		1 nm		< 0.0001nm	
Beam diameter (1/e <sup>2</sup> )	0.7 mm		1.1 mm		1.1 mm	
Beam divergence	1 mrad		0.65 mrad		0.65 mrad	
Output stability (rms)	2% over 2 hours		1% over 8 hour, Ultra-stable option 0.25% 24 hours		2% over 2 hours	
Transverse mode	Single mode, TEM <sub>00</sub> , M <sup>2</sup> < 1.2					
Beam pointing stability	< 0.005 mrad/°C					
Polarization ratio	Vertical 100:1					
Operation temperature	10 °C to 35 °C					
Warm-up time	1 minute					
Operation voltage	90-250 VAC or 12 VDC option; Typical power consumption 12 W					
Dimensions and weight of laser head	3x3x12 cm <sup>3</sup> (1.2x1.2x4.7 in <sup>3</sup> ) with a fixed 6 mm thick plate, 0.3kg (0.6 lb)					
Dimensions and weight of power supply	Standard AC: 5x14x15 cm <sup>3</sup> (2x5.5x6 in <sup>3</sup> ), 0.5 kg (1 lb);				CL-2005 AC: 5x16x15 cm <sup>3</sup> DC: 8.5x3.5x12.7 cm <sup>3</sup> (3.3x1.4x5 in <sup>3</sup> ), 0.2 kg (0.5 lb) option	

**Applications:** Fluorescence  
Neuroscience,  
Confocal Microscopy,  
Raman Spectroscopy

**Options:** TTL modulation;  
Analog laser output power control;  
Fiber delivery system;  
Upgrade to CL2005 power supply with  
power adjustable and digital display



**Top View**



**Front View**

