

# Diode Pumped **Red 656 / 660 / 671 nm** CrystaLaser®

High reliability High stability Single longitudinal mode Ultra-compact

## SPECIFICATIONS

Wavelength	Standard version, Model No.				SLM version, Model No.			
671 nm Vertical polarization	CL671-300	300 mW	CL671-100	100 mW	CL671-250-S	250 mW	CL671-100-S	100 mW
	CL671-200	200 mW	CL671-050	50 mW	CL671-200-S	200 mW	CL671-050-S	50 mW
	CL671-150	150 mW			CL671-150-S	150 mW		
660 nm Vertical polarization	CL660-300	300 mW	CL660-100	100 mW	CL660-025-S	25 mW		
	CL660-200	200 mW	CL660-050	50 mW				
	CL660-150	150 mW						
656.5 nm Horizontal polarization	CL656-300	300 mW	CL656-100	100 mW	CL656-025-S	25 mW		
	CL656-200	200 mW	CL656-050	50 mW				
	CL656-150	150 mW						
Longitudinal mode	Multiple longitudinal mode				Single longitudinal mode			
Coherence length	0.5 - 3 mm				> 30 meters			
Spectrum linewidth	0.15 nm; nominal				< 10 <sup>-5</sup> nm			
Output stability (rms)	< 2% over 2 hours; Ultra-stable option: 0.5% or 0.25% over 24 hours							
Transverse mode	Single mode, TEM <sub>00</sub> , M <sup>2</sup> = 1.0 - 1.1							
Beam diameter (1/e <sup>2</sup> )	~ 0.3 mm		Option: 2X - 5X laser beam expanders are available to change beam size and divergence					
Beam divergence	~ 2.5 mrad		e.g. 0.7 mm beam with 1 mrad divergence; or 1.4 mm beam with 0.5 mrad divergence					
Beam pointing stability	< 0.005 mrad/°C							
Polarization ratio	50:1, >100:1 option available; vertical linear polarization							
Operation temperature	10 °C to 35 °C							
Warm-up time	< 2 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 <sup>3</sup> (1.2x1.2x4.7 in <sup>3</sup> ) with a fixed 6 mm thick plate, 0.3kg (0.6 lb) 7x3.6x18.5 cm <sup>3</sup> (2.8x1.4x7.3 in <sup>3</sup> ), 0.6 kg (1.3 lb) for lasers ≥ 400 mW, type 2 size							
Dimensions and weight of power supply	AC: 5x14x15 cm <sup>3</sup> (2x5.5x6 in <sup>3</sup> ), 0.5 kg (1 lb); Option CL-2005 power display AC: 5 x 16 x 15 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)							

**Fiber coupling option:** Single mode and multi-mode fiber delivery.  
**Modulation option:** TTL on/off, 1 kHz to 10 kHz; and Analog modulation option  
**CL-2005 power supply option:** Power adjustable and power digital display.

Made in the USA



### Laser Head All dimensions in mm

