

Compact Infrared 1550 nm Single Mode CrystaLaser®

High reliability High stability Single longitudinal mode Circular beam

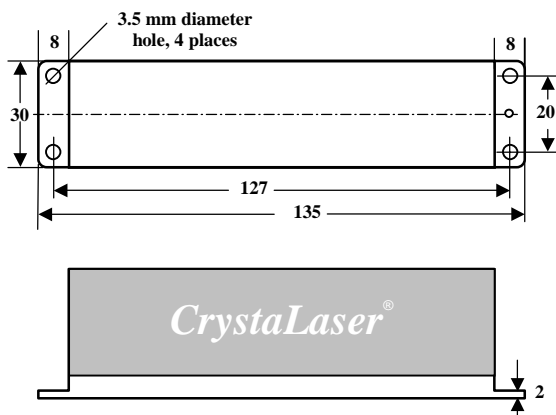
SPECIFICATIONS

Wavelength	Option ± 1 nm available	TEM ₀₀ mode, Model No.	SLM version, Model No.
1550 ± 5 nm		DL1550-080 80 mW	DL1550-800-S 800 mW
		DL1550-050 50 mW	DL1550-500-S 500 mW
1550 ± 5 nm	SM Fiber coupled		DL1550-025-SF 25 mW
Longitudinal mode		Multiple	Single
Spectrum linewidth		1 nm, typical	< 0.0001 nm
Coherence length		< 0.3 mm	> 20 meters
Output noise (rms, 10Hz-50MHz)		< 0.5 %	< 0.5 %
Output stability over 24 hours (rms)		< 1 %; Option: ultra-stable version < 0.25%	2 % Option: ultra-stable version < 0.5%
Modulation options		TTL 200Hz, 50kHz, 20MHz, 100 MHz, 200MHz; Analog control, Analog modulation	TTL on/off option
Transverse mode		Circular beam, single mode, TEM ₀₀ , M ² = 1.1 - 1.3	
Beam diameter (1/e ²)		1.2 mm	Option: 0.7X - 3X laser beam expanders are available to change beam size and divergence. e.g. 0.8 mm beam with 2.5 mrad divergence; or 2.5 mm beam with 0.8 mrad divergence
Beam divergence		1.8 mrad	
Beam pointing stability		< 0.005 mrad/°C	
Polarization ratio		100:1; Vertical linear polarization	
Operation temperature		5 °C to 40 °C, internal TEC temperature-stabilized	
Warm-up time		< 30 seconds	
Operation voltage		90-250 VAC or 12VDC OEM version 11-16VDC	
Dimensions and weight of laser head		3 x 3.6 x 13.5 cm ³ (1.2 x 1.4 x 5.3 in ³), 0.3 kg (0.6 lb)	
Dimensions and weight of power supply		Standard AC: 5 x 14 x 15 cm ³ (2 x 5.5 x 6 in ³), 0.5 kg (1 lb); CL-2005 power display AC: 5 x 16 x 15 cm ³ 12 VDC OEM version: Integrated inside the laser head.	

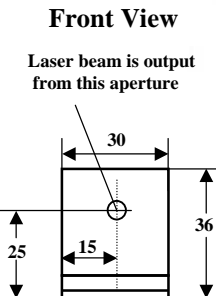
Applications: Flow cytometry, Fluorescence, Confocal microscopy, Raman Spectroscopy

Fiber coupling option: Single mode and multi-mode fiber delivery.

CL-2005 power supply option: Power adjustable and power digital display.



All dimensions in mm



Front View
Laser beam is output from this aperture



Made in the USA