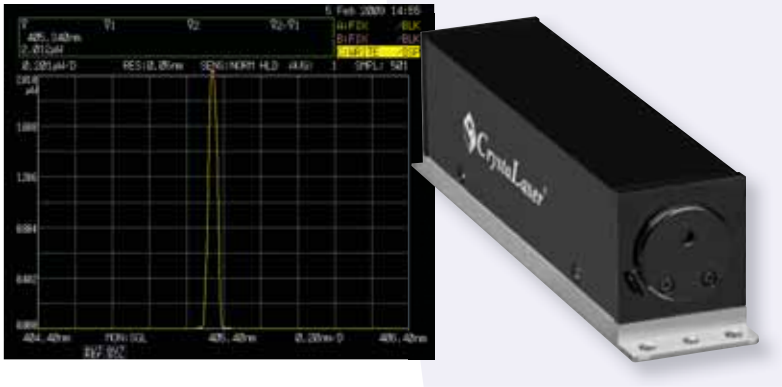
DIRECT SERIES

Compact Stabilized Solid State Lasers



Features:

Wavelength 375 nm to 1550 nm, power up to 1W
Low noise and SLM • Excellent pointing stability and power stability • Ultra compact OEM package
High speed modulation up to 200 MHz
Free space and fiber delivery system

Applications:

Holographics • Flow cytometry • Fluorescence Microscopy • Confocal microscopy • Raman Spectroscopy

CW Violet-Blue Lasers

Wavelengths (+/- 5 nm)	375 nm, 405 nm, 445 nm		
Laser version	SLM version	Low noise version	Multi-mode version
375 nm output power (mW)	15, 10 , 5	16, 10, 5	30
405 nm output power (mW)	40, 30, 20, 10	100, 50, 25, 10	1000, 300
445 nm output power (mW)	30, 20, 10	40, 30, 10	1000, 400
Beam diameter (1/e2)	1.2 mm	1.2 mm	1.2:2.5 mm
Beam divergence, full angle	0.6 mrad	0.6 mrad	0.7:1.2 mrad
Transverse mode,	Circular, M^2~1.2	Circular, M^2<1.2	Multi-mode, M^2 <3
Output noise, rms	< 1% (10 Hz - 50 MHz)	< 0.5% (10 Hz - 50 MHz)	< 1% (10 Hz - 50 MHz)
Longitudinal mode	Single	Multiple	Multiple
Linewidth	< 10^{-5} nm	0.8 nm	1 nm, nominal
Coherence length	> 50 m	--	--
Power stability, rms	1% over 8 hours; Ultra-stable options: 0.5% or 0.25% over 24 hours		
Beam pointing stability	< 0.02 mrad at constant temperature		
Polarization	Linear; Ratio 100:1, Vertical		

CW Blue Lasers

Wavelengths	473 nm, 488 nm		
Laser version	SLM version	Low noise version	Basic version (Part of Crystal Series - DPSS)
473 nm output power (mW)	10, 5	15, 10, 5	150, 100, 75, 50, 25, 10
488 nm output power (mW)	10, 5	20, 15, 10, 5	--
Beam diameter (1/e2)	1.2 mm	1.2 mm	0.7 mm
Beam divergence, full angle	0.7 mrad	0.7 mrad	1 mrad
Transverse mode	Circular, M^2 ~1.2	Circular, M^2 ~ 1.2	TEMoo, M^2 < 1.2
Output noise, rms	< 1% (10 Hz - 50 MHz)	< 1% (10 Hz - 50 MHz)	2% (0 - 10 kHz), ~30% at 300 kHz
Longitudinal mode	Single	--	--
Linewidth	< 10^{-5} nm	0.8 nm	1 nm, nominal
Coherence length	> 100 m	--	--
Power stability, rms	< 2% over 8 hours; Ultra-stable options: 0.5% or 0.25% over 24 hours		
Beam pointing stability	< 0.02 mrad at constant temperature		
Polarization	Linear; Ratio 100:1, Vertical; > 300:1 option available		

CW Red and Infrared Lasers

Wavelengths (+/-3 nm)	638	642	655	658	690	785	808	830	852	914	980	1550
Low noise version, max. power (mW)	30	100	70	100	50	120	120	100	120	200	500	500
SLM version, max. power (mW)	25	30		50	30	120	120		120	100	100	80
Transverse mode	Circular beam, M^2 < 1.2											
Beam diameter (1/e2)	1 mm, nominal											
Beam divergence, full angle	1 mrad, nominal											
Output noise rms	< 0.5% (10 Hz - 20 MHz)											
Linewidth	SLM version: <10^{-4} nm; Low noise version: 1nm											
Coherence length	SLM version: >5 m; >100 m option available; Low noise version: Not specified											
Power stability, rms	< 2% over 8 hours; Ultra-stable options: 0.5% or 0.25% over 24 hours											
Beam pointing stability	< 0.01 mrad at constant temperature											
Polarization	Linear; Ratio >100:1, >300:1 option available											

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THE CLEAR SOLUTION