

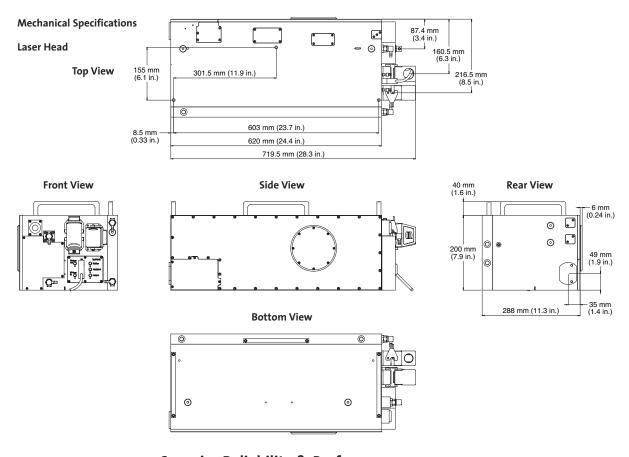
STACCATO

Ultra-Short Pulse Laser



Features

- 1.5 ps pulse duration
- >30 µJ
- High beam quality M² <1.3
- Superior stability
- Compact and rugged design
- For most demanding medical applications
- Low maintenance



Superior Reliability & Performance

STACCATO

Ultra-Short Pulse Laser

Optical Specifications		STACCATO
	Wavelength (nm)(center)	1030 ±2
	Average Power (W)	≥2.4 at 80 kHz
	Pulse Energy (µJ)	<u>≥</u> 30
	Pulse Duration t (FWHM, sech²)	1300 fs <t 2000="" <="" fs<="" th=""></t>
	Pulse Energy Stability (%)(Peak-to-Peak over 1000 Pulses)	<5 RMS (1σ)
	Pulse Repetition Rate of Amplifier (kHz)	80 ±0.5
	Pulse Repetition Rates after Pulse Picker (kHz)	80 divided by integers, single pulse
	Laser Beam Quality Parameter ¹ (M ²)	TEM00 (<1.3)
	Laser Beam Diameter¹ at Position -100 mm [(x+y)/2]	1.3 mm ±0.1 mm
	Laser Beam Circularity ¹ (%)(Asymmetry)	≥85 (<1.15)
	Beam Waist Astigmatism¹ (Z _{0x} – Z _{0y})/Average Z _R	<o.2 (2m="" exit)<="" from="" th=""></o.2>
	Laser Beam Position (Positional) Accuracy	<±o.5 mm from nominal
	Laser Beam Pointing (Angular) Accuracy	<5 mrad from nominal
	Laser Beam Pointing Drift ² (max. temp. drift 1°C/h)	<50 µrad + 50 µrad/°C ambient temp.
	Laser Beam Polarization Ratio	≥100:1 linear
	Laser Beam Polarization Direction	Horizontal, ±2°
	940 nm Pump Leakage Power (mW)	<10 avg.
	Amplified Pulse Energy to Unamplified Pulse Energy Ratio	<u>≥</u> 1000:1
	Amplified Pulse Energy to Pre-Pulse Energy Ratio	≥200:1
	Amplified Pulse Energy to Post-Pulse Energy Ratio	<u>></u> 50:1
	Average Power Stability (%)	±1.5 over 8 hours RMS (1σ)
	Day to Day Power Stability (%)(after warm-up)	<u><</u> 2
	Warm-Up Time, from warm start	≤30 minutes
Electrical Specifications	AC Connection	Inlet receptacle IEC 320-C14
·	Power Cable Connection	IEC 320-C13
	Supply Voltage (VAC)	230, 50 to 60 Hz
	Power Consumption (W)	<650
	Current Draw at 230VAC (A)	-
	Typical	1.9
	Maximum	2.8
	Fusing at 230VAC	F12A HRC (5 x 20 mm)
	Power Factor (Harmonic) Correction	PF <u>></u> 0.90 (EN61000-3-2)
	 With Ophir-Spiricon M2-200s (measured at 90/10 knife edged, 2m from exit). With Ophir-Spiricon SP620U and 3x beam reducer (measured at 90/10 knife edged, 1.0 m from exit). 	

Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent offers a limited warranty for all STACCATO lasers. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative.



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