

SpitLight 600 and 1000 OPO



Features

- * Pulse to pulse tunable OPOs with wavelength ranges from 410 to 2500 nm and repetition rates up to 30 Hz
- * High OPO pulse energies up to 180 mJ
- * Stable mechanical and optical setup in a compact monolithic housing containing both laser and OPO
- * SpitLight Software including full Laser control, OPO wavelength calibration and Remote Client Interface for easy Software integration
- * Many integrated options available like energy monitor, spectrometer, fiber coupling, fast attenuation, low divergence output or OPO harmonic generation (210 - 660 nm)

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Model		SpitLight 600 OPO Broadband	SpitLight 600 OPO Midband	SpitLight 1000 OPO Broadband	SpitLight 1000 OPO Midband
Laser Parameters	Repetition Rate	1-30 Hz (following specifications are for 10 Hz)			
	Energy	Pulse Energy @ 532 nm		> 600 mJ	
		Pulse Energy @ 355 nm		> 320 mJ	
Beam Parameters	Pulse Width	4 - 7 ns			
	Beam Diameter	6.5 mm		8 mm	
OPO	Tuning Range (532 nm pumped)	680-980 nm (signal) 1180-2400 nm (idler)	670-1090 nm (signal) 1050-2500 nm (idler)	680-980 nm (signal) 1180-2400 nm (idler)	670-1090 nm (signal) 1050-2500 nm (idler)
	Tuning Range (355 nm pumped)	410-680 nm (signal) 740-2500 nm (idler)	420-709 nm (signal) 709-2300 nm (idler)	410-680 nm (signal) 740-2500 nm (idler)	420-709 nm (signal) 709-2300 nm (idler)
	Wavelength Shifting Time	< 30 ms (full span)			
	Line Width	10-250 cm ⁻¹	down to 5 cm ⁻¹	10-250 cm ⁻¹	down to 5 cm ⁻¹
	Signal Output Energy @ 750 nm (532 nm pumped)*	> 100 mJ	> 80 mJ	> 150 mJ	> 120 mJ
	Signal Output Energy @ 450 nm (355 nm pumped)*	> 60 mJ	> 50 mJ	> 85 mJ	> 70 mJ
Operating Parameters	Warranted Lamp Lifetime	> 40,000,000 shots**			
	Electrical Supply	230 ± 10% (single phase), 2,5 kW		400 ± 10% (3 phase), 2,5 kW	
	External Cooling Water (optional water-air cooling)	8 l/min, 2-6 bar, < 16 °C			
Weights	Laser Head	30 kg			
	Power Supply	50 kg		60 kg	
Dimensions	Laser Head (L x W x H)	800 x 317 x 125 mm			
	Power Supply (L x W x H)	560 x 400 x 425 mm			

InnoLas follows a policy of continuous product improvement. All specifications are subject to change without notice. All specifications at 1064 nm unless otherwise noted.

InnoLas Laser GmbH is DIN EN ISO 9001 certified.

* typical tuning curves are available on our homepage

** min. 80% energy for > 40,000,000 shots or one year after installation – whichever comes first

