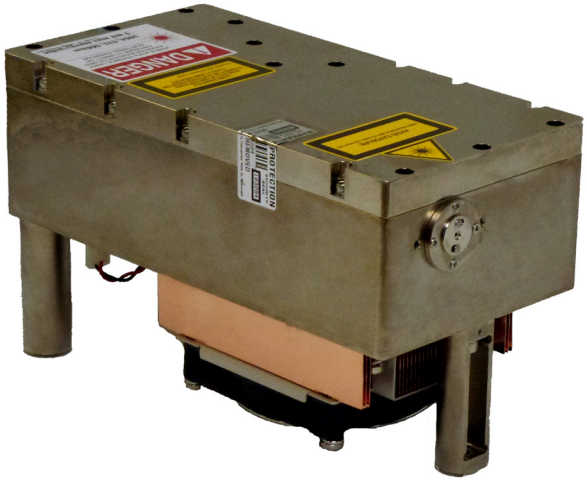
DC-351 Series

Nd:YLF UV Lasers



DC-351 Series Features

- 351 nm Wavelength
- Compact, Rugged, Air-Cooled Design
- Patented Intracavity UV Generation
- Pulse Repetition Rates from Single Shot to 10 kHz
- TEM_{00} Beam with Typical $M^2 < 1.2$
- RS232 Computer Control
- External TTL Triggering

As the first company to pioneer intracavity harmonic generation technologies and introduce the very first intracavity UV lasers in 1996, Photonics Industries remains an industry leader in producing efficient, simple, low cost of ownership (COO) lasers. Its DC Series offers high UV pulse energies with the best mode quality in the market.

Owing to key patented technologies, intracavity harmonic generation is inherently a more efficient harmonic conversion that provides better pulse to pulse stability and mode quality as well as a much simpler, more compact laser configuration. In addition to its patented intracavity UV generation, the end-pumped geometry of Photonics Industries' DC Series lasers results in even better mode quality and field replaceable pump diodes, for the lowest COO possible.

*For higher power UV models please see the DS Series.

Photonics Industries International, Inc.

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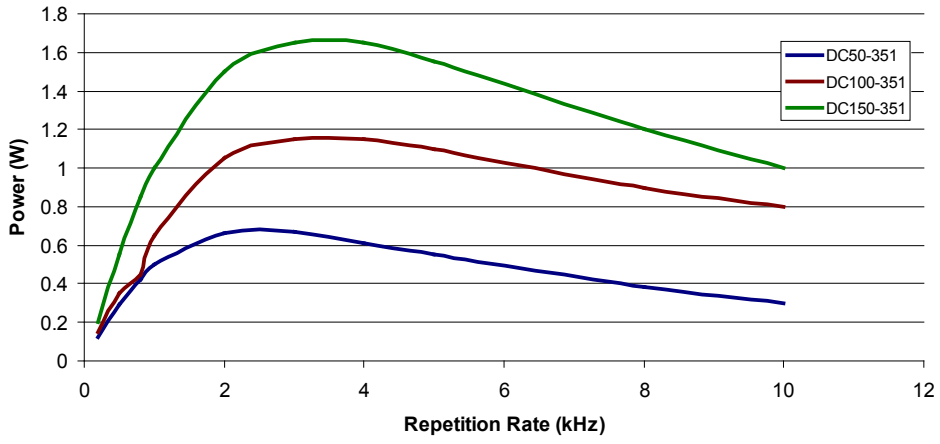
DC-351 System Specifications

Technology			Air-Cooled	
Model		DC50-351	DC100-351	DC150-351
Wavelength (nm)			351	
Average Power @ 3 kHz		500 mW	1 W	1.5 W
Pulse Energy @ 1 kHz		~0.25 mJ	~0.5 mJ	~1 mJ
Pulse Width @ 1 kHz (nominal)		~25 ns	~25 ns	~20 ns
Repetition Rate			1 Hz 10 kHz	
Pulse to Pulse Instability			<3% rms	
Polarization Ratio			Horizontal; 100:1	
4σ Beam Diameter @ exit			~ 0.4 mm	
Beam Divergence (Full Angle Far Field)			<2 mrad	
Beam Circularity			~85%	
Spatial Mode			TEM_{00} - M^2<1.2	TEM_{00} - M^2<1.5
Beam Pointing Stability			<25 urad	
Beam Position Accuracy			< 2.5 mm and < 1° from nominal	
Long Term Instability (8 hr ± 1° C)			±2%	
Interface			RS 232 / GUI / External TTL Triggering	
Maximum Heat Load (laser head)		<200 W		
Warm Up Time			<5 min from standby	
			<20 min from cold start	
Electrical Requirement			50 to 60 Hz or 100 V to 240 V	
Dimensions	Laser Head		4 in x 4.75 in x 8.66 in	
(W x H x L)	Controller		11.5 in x 3.5 in x 9.5 in	14.75 in x 3.5 in x 11 in
Weight	Laser Head		6.5 lbs	
	Controller		10 lbs	
Relative Humidity			Non-condensing, 90% Max	
Umbilical Length			3 m	
Ambient Temperature			15° to 35°C (59° to 95°F) Operating Range	

Performance Curve



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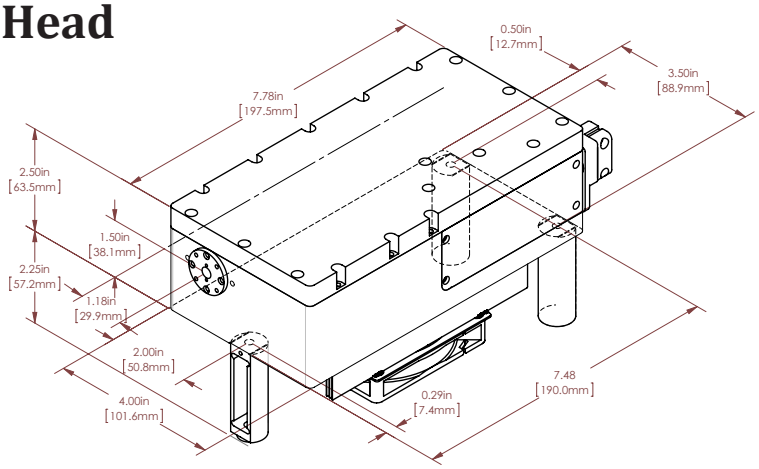
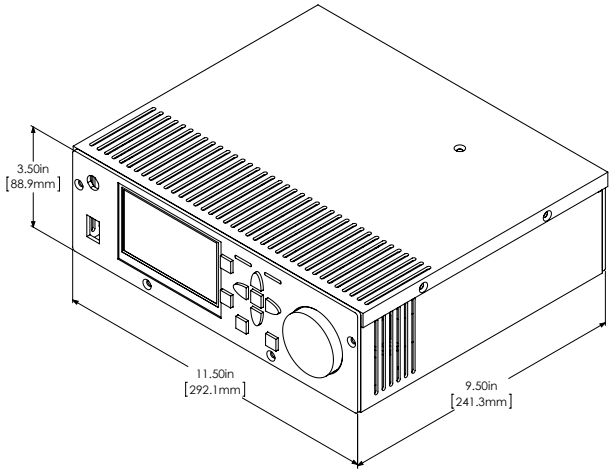
Dimensional Drawings

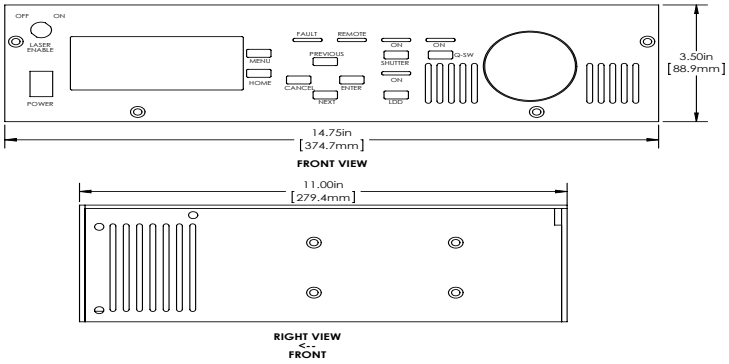
DC-351 Laser Head



DC50, DC100-351 Controller



DC150-351 Controller



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