

DC & DS Series

266nm Nd:YVO₄ Deep-UV Lasers



Features

- 266nm Wavelength
- Compact, Rugged Design
- TEM₀₀ Beam with M² < 1.2
- Pulse Rates from Single Shot to 150 kHz
- RS232 Computer Control
- External TTL Triggering
- Low Power Air-Cooled
- High Power Closed Loop Chiller

Optional Features

- Pulse Energy Control to Vary Output from 10% to 98%
- Beam Expander from 2 mm up to 10 mm
- Output Power Monitor

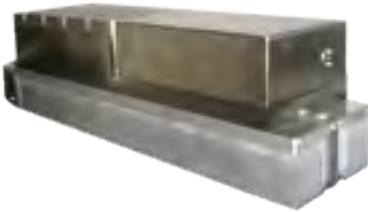
Applications

- LCD Repair
- Wafer Marking
- Lidar
- Solar Cell Scribing/ Production
- Stereo lithography–Rapid Prototyping
- Mass Spectrometer
- MALDI-TOF
- Semiconductor Processing
- Interferometry
- Non-Contact Inspection
- Fluorescence
- Holography Micro-Marking
- Laser Marking, Scribing
- Via Hole Drilling
- Laser Singulation
- OPO, Ti: Sapphire Pumping
- High Speed PIV
- Laser Micromachining
- Rapid Prototype-Stereo Lithography
- Fiber Bragg Grating Manufacturing



266nm System Specifications

DC Series - 50mW to 500mW



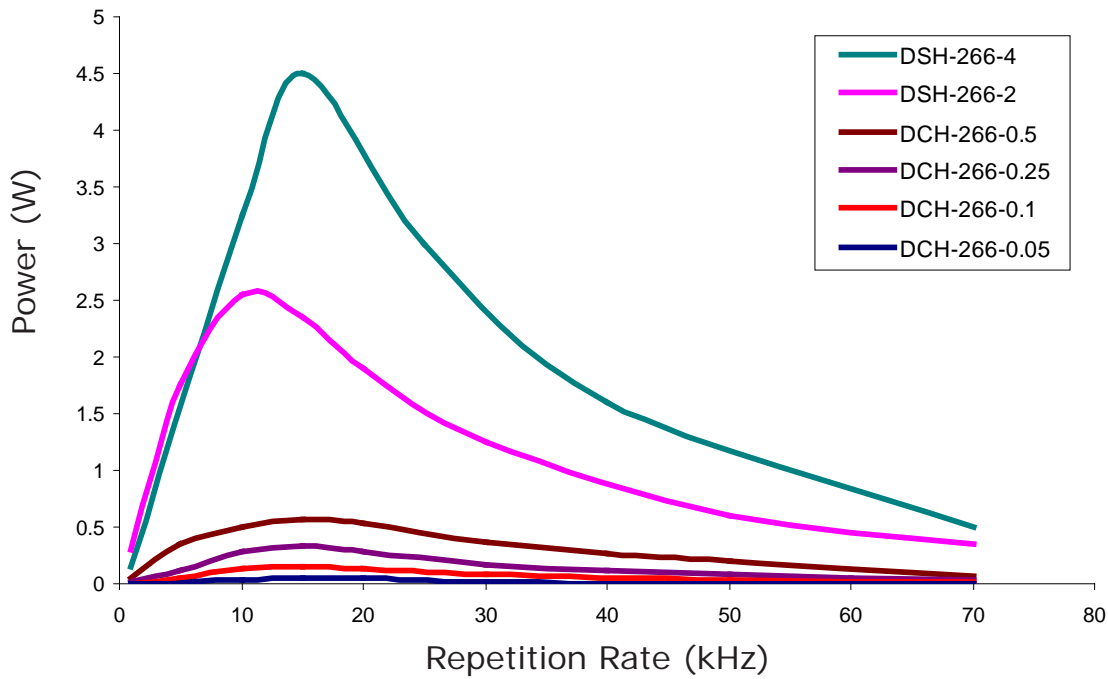
Model	DCH-266-0.05	DCH-266-0.1	DCH-266-0.25	DCH-266-0.5
Average Power @ 15 kHz	50 mW	100mw	250mW	500mW
Pulse Width @ 15 kHz (nominal)	15ns	10ns	10ns	10ns
Pulse Energy @ 15 kHz	3.3uJ	6.6uJ	16.6uJ	33.3uJ
Beam Mode	TEM ₀₀ - M ² < 1.5			
Beam Diameter @ exit (nominal)	0.4mm			
Divergence (nominal)	<2.5mRad			
Polarization Ratio	100:1 Horizontal			
Pulse-to-Pulse Instability	<4% rms			
Long-Term Instability (8h +/-3deg.C)	+/- 5%			
Pointing Stability	< 25 urad			
Pulse Repetition Rate	1 Hz to 100 kHz			
Laser Head (WxLxH)	102mm, 432mm, 114mm			
Controller Dimensions (WxLxH)	356mm, 311mm, 89mm			
Electrical Requirement	100 to 120V, 200 to 240 V @ 50/60 Hz			
Relative Humidity	Non condensing, 90% Max			
Ambient Temperature	15° to 35°C (59° to 95°F) Operating Range			
Umbilical Length	3 meter (10 feet)			

*DCH-266-0.5 includes a cooling plate. Please contact the factory for dimensions.

DS Series - 2W to 5W

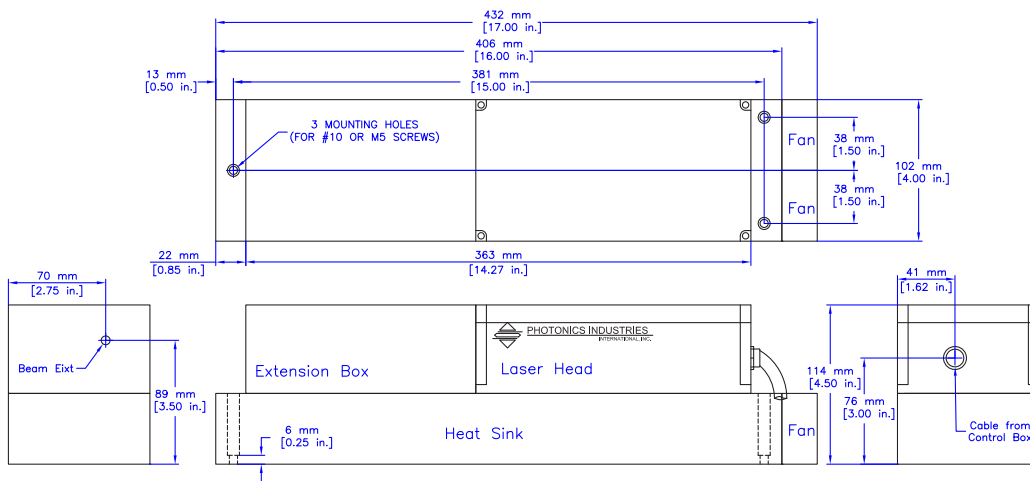
	DSH-266-2	DSH-266-4	DSH-266-5
Wavelength	266 nm	266 nm	266 nm
Average Power @ 15 kHz	2 Watts	4 Watts	5 Watts
Pulse Width @ 15 kHz (nominal)	20 ns	15 ns	10 ns
Pulse Energy @ 15 kHz	0.13 mJ	0.26 mJ	0.4 mJ
Beam Mode	TEM ₀₀ - M ² < 1.3		
Polarization Ratio	100:1 Horizontal		
Beam Diameter @ exit (nominal)	1.0 mm		
Beam Divergence	<1.2 mrad		
Pulse-to-Pulse Instability	3% rms		
Long-Term Instability (8h +/-3C)	+/- 10%		
Pointing Stability	< 25 μrad		
Pulse Repetition Rate	Single shot to 70 kHz		
Laser Head (WxLxH)	203.2mm, 762mm, 152.4mm		
Controller Dimensions (WxLxH)	356mm, 311mm, 89mm		
Electrical Requirement	100 to 120V, 200 to 240 V @ 50/60 Hz		
Relative Humidity	Non condensing, 90% Max		
Ambient Temperature	15° to 35°C (59° to 95°F) Operating Range		
Umbilical Length	3 meter (10 feet)		

Performance Curve

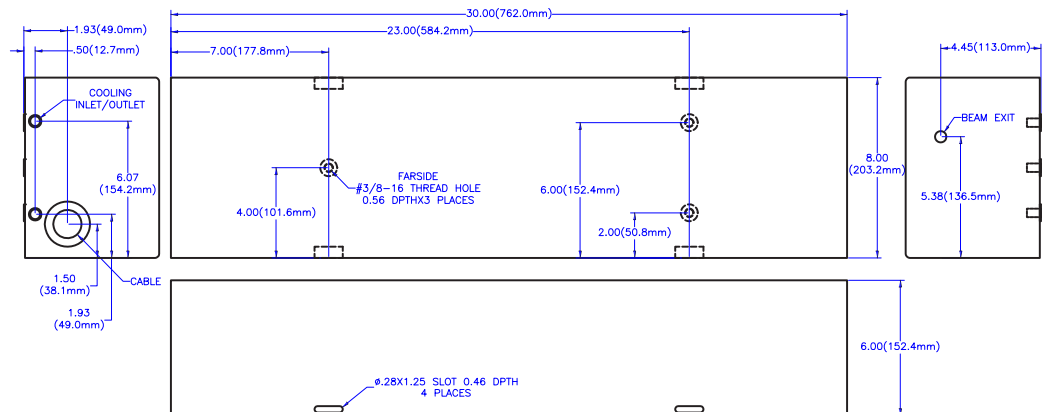


Dimensional Drawings

DC Laser Head

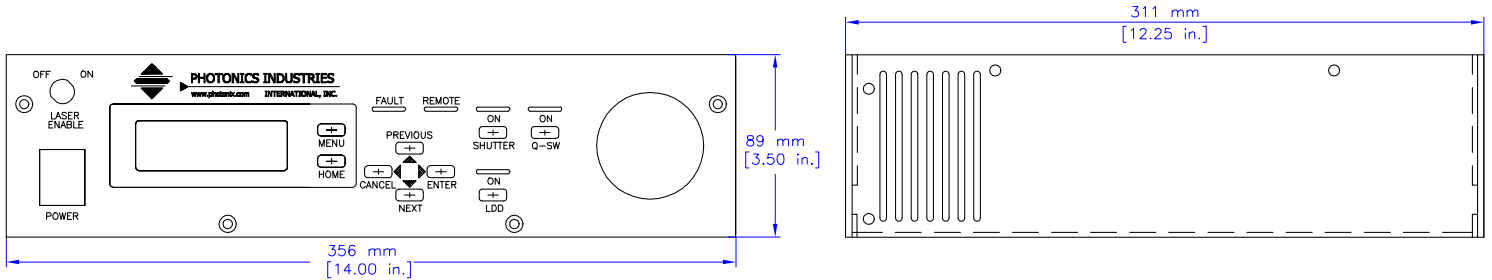


DS Laser Head

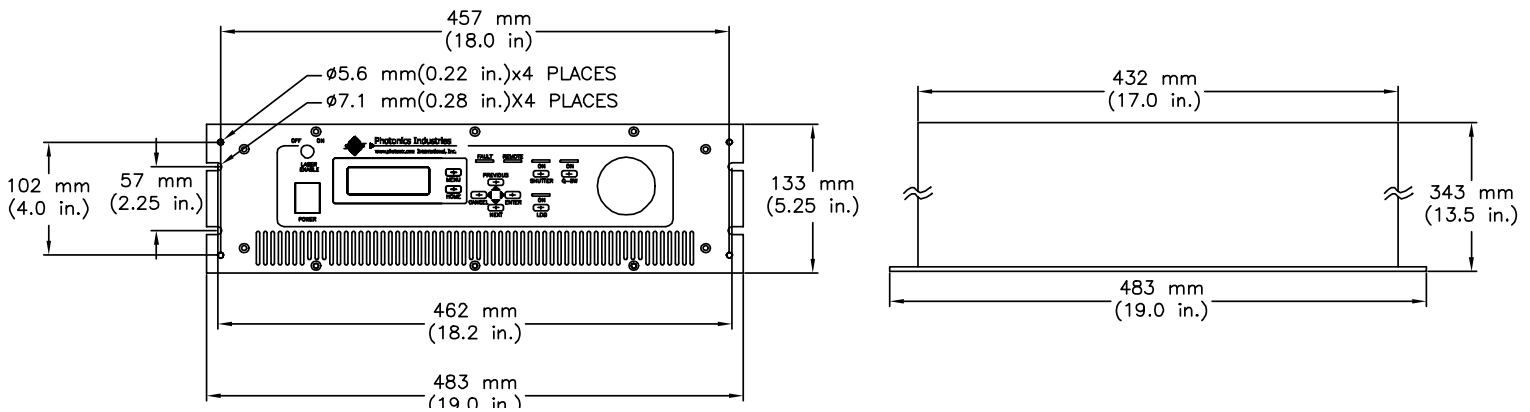


Dimensional Drawings

DC/DS Controller



High Power DS Controller



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7,346,092; 7,082,149; 7,079,557; 6,999,483; 6,980,574; 6,961,355; 6,842,293; 6,762,405; 6,690,692; 6,587,487; 6,584,487; 6,366,596;
6,327,281; 6,356,578; 6,246,707; 6,229,839; 6,108,356; 6,061,370; 6,028,620; 5,936,938; 5,898,717 and Pending Patents

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