



MBD-266

Single Frequency Deep UV Source

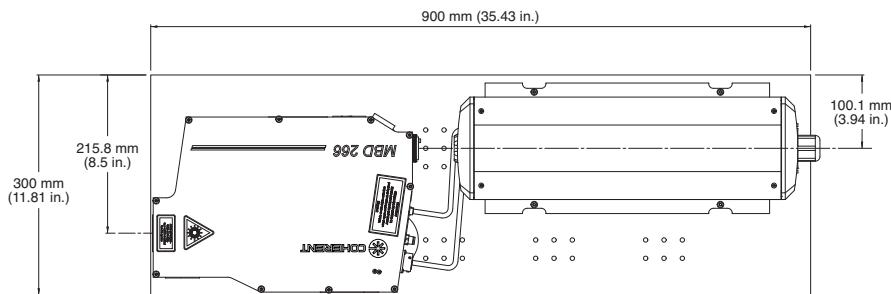


Features

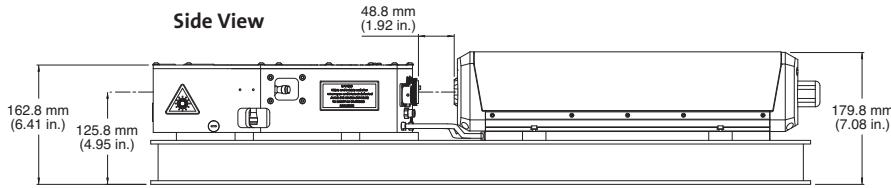
- Unique mechanical resonator
- Enhanced output power
- Precision crystal adjustment
- High efficiency frequency doubling
- MBD E-200 servo-control unit
- Efficient doubling of single frequency enabled by Verdi™
- Integrated Verdi pump laser
- Adjustable crystal shifter

Mechanical Specifications

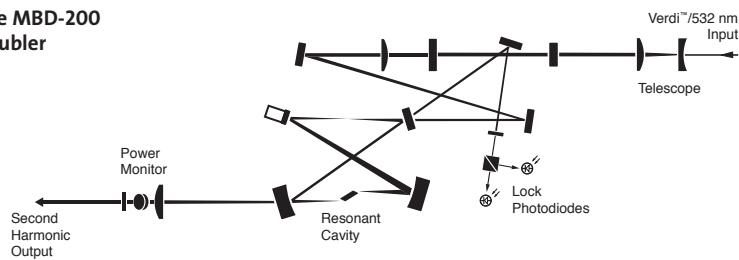
Top View



Side View



Optical Schematic of the MBD-200 Resonant Frequency Doubler



Superior Reliability & Performance

MBD-266

Single Frequency Deep UV Source

System Specifications¹	Pump	Verdi-2W
	Output Power (mW)	>200
	Wavelength (nm)	266
	Linewidth (MHz)	<10
	Power Stability (%)	±2 (over 2 hours, after 15-minute warm-up from standby)
	Noise (%) (rms)	<0.5 (in 4 Hz to 20 MHz detection bandwidth)
Typical Beam Parameters	Beam Diameter (mm)	0.8 ±10%
	Beam Divergence (mrad)	0.5 x 0.6 ±10%
	M ²	<1.1 x 1.3
Utility and Environmental Requirements	Operating Voltage (VAC)	90 to 250
	Max. Current (A)	15.5 at 85 VAC
	Power Consumption (kW)	1.3 maximum
	Frequency (Hz)	47 to 63
	Umbilical Length	3m
	Cooling	
	Optical Head	Closed-cycle chiller (supplied)
	Power Supply	Air-cooled
	Operating Temperature Range	15 to 30°C ambient
	Dimensions (L x W x H)	
	Laser Head – Optical Breadboard with Verdi Head and MBD-266 Module	900 x 300 x 175 mm (35.4 x 11.8 x 6.9 in.)
	Verdi Power Supply	525 x 485 x 195 mm (20.7 x 19.1 x 7.7 in.)
	MBD-266 Control Unit	325 x 270 x 160 mm (12.8 x 7.9 x 6.3 in.)

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

Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all MBD systems. 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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