

MDL-HD-442/8-16W



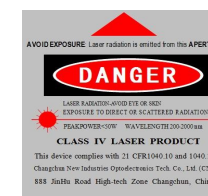
BLUE DIODE LASER AT 442nm

It features ultra compact design, long lifetime, cost-effectiveness and easy operation. They are widely used in laser projection, laser shows, biomedical applications, holography, metrology, etc.

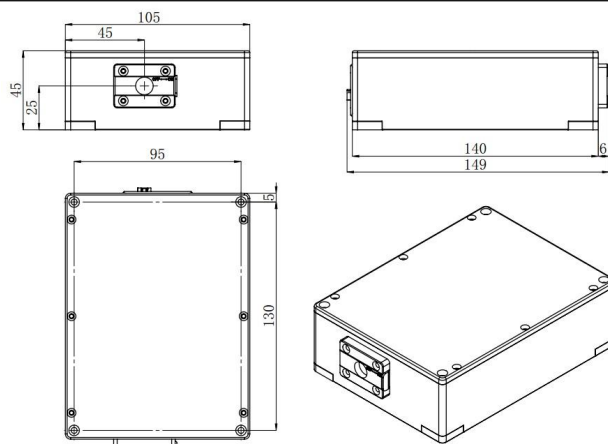


SPECIFICATIONS

Central wavelength (nm)	442±5	
Operating mode	CW	
Output power (W) ¹	8-16	
Power stability (rms, 4 hours ± 3°C)	<2%, <1%, <0.5%	
Transverse mode	Multimode	
Polarization direction	Horizontal+ Vertical	Horizontal/ Vertical
Beam diameter at the aperture (mm)	~2.0×2.5	~4.0×2.5
Beam divergence, full angle (mrad)	~3.3×3.8	~3.0×3.8
Warm-up time (minutes)	<5	
Beam height from base plate (mm)	25	
Operating temperature (°C)	25±3	
Power supply (100-240VAC)	PSU-N-FDA/PSU-N-LED	
Modulation option	DC-1kHz, 1kHz-10kHz, 10kHz-30kHz optional; TTL and Analog optional	
Expected lifetime (hours)	>10000	

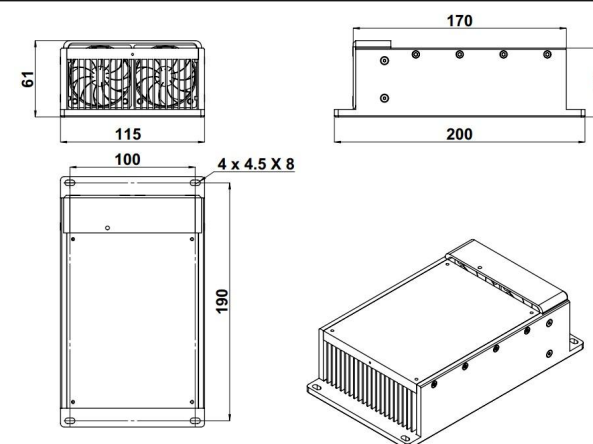


LASER HEAD²



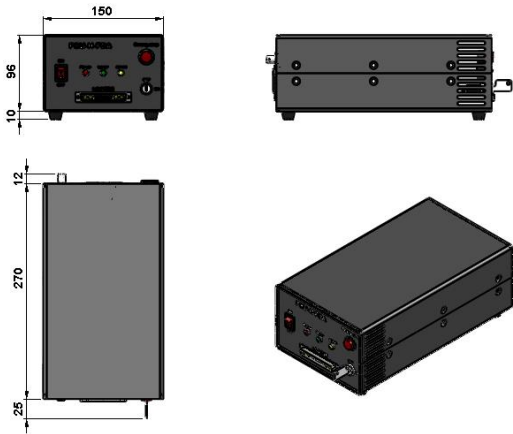
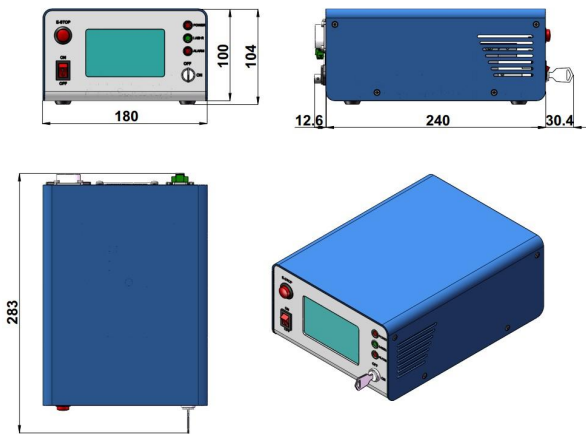
149 (L) × 105 (W) × 45 (H) mm³, 1.7kg

HEATSINK optional



200 (L) × 115 (W) × 61 (H) mm³, 1.4kg

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POWER SUPPLY (PSU-N-FDA) ³	POWER SUPPLY (PSU-N-LED) ⁴
 307 (L) × 150 (W) × 106 (H) mm³, 3.0kg	 283 (L) × 180 (W) × 104 (H) mm³, 2.5kg

- 1 Any power level can be selected in this range.
- 2 The laser head needs to be used on a heat sink with good heat dissipation.
- 3 Fixed output power; Modulation up to 30kHz.
- 4 Output power adjustable 10-100%; RS232 control optional; Modulation up to 30kHz.