

EO-1064-N/1-1.5mJ

HIGH ENERGY DIODE PUMPED ALL-SOLID-STATE Q-SWITCHED LASER

High energy diode pumped all solid state Q-switched laser at 1064nm has the features of high single pulse energy, short pulse duration, and high peak power, which is widely used in radar, topography measurement, marking, ranging, micro-processing, scientific research, and so on.

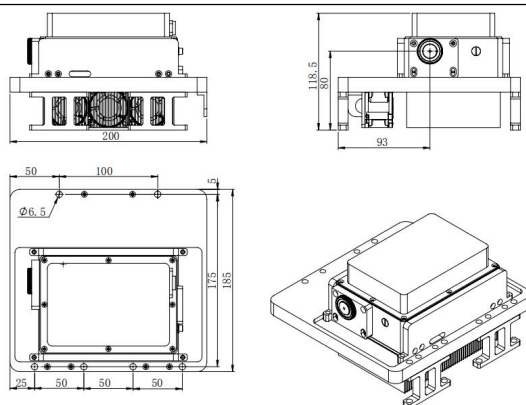


SPECIFICATIONS

Wavelength (nm)	1064±1			
Operating mode	Actively			
Single pulse energy (mJ) ¹	0.8@1kHz	0.8@5kHz	0.3@20kHz	1.5@3kHz
Pulse duration (ns)	<7@1kHz	<7@5kHz	<8@20kHz	<12@3kHz
Rep. rate	1Hz-1kHz	1-7kHz	1-25kHz	1-3kHz ²
Power stability (rms, 4 hours ±3°C)	<2%, <1%			
M ²	<1.5			<2
Pointing stability over temperature (urad/°C)	<20			
Beam divergence, full angle (mrad)	<3			
Beam diameter (mm)	~1			
Beam height from base plate (mm)	80, 56 ³			
Warm-up time (minutes)	<15			
Cooled method	Air cooled or water cooled			
Operating temperature (°C)	15-30			
Power supply (24VDC)	PSU-EO-N (24V/13A)			
Expected lifetime (hours)	>10000			

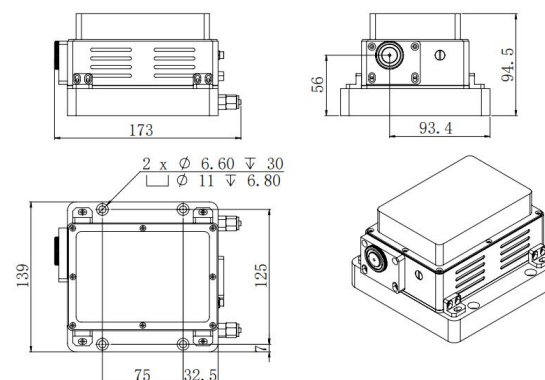


LASER HEAD (EO-1064-N-I)⁴



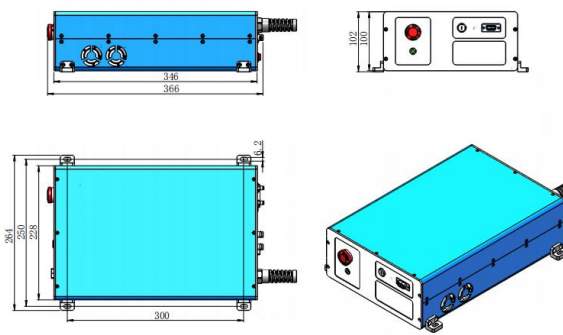
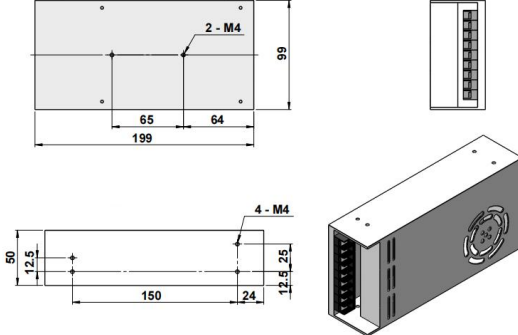
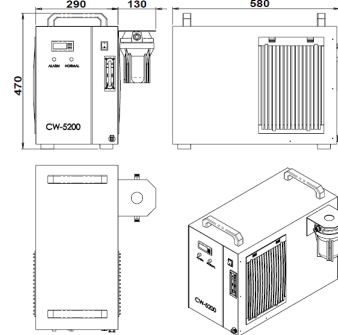
200(L)×185(W)×118.5(H)mm³, 5.7kg

LASER HEAD (EO-1064-N-II)⁵



173(L)×139(W)×94.5(H)mm³, 3.8kg

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DRIVER (PSU-EO-N)	POWER SUPPLY (100-240VAC) optional	WATER CHILLER (WCH-1500)
 366(L)×264(W)×102 (H)mm³, 6.5kg	 580(L) ×290(W) ×470(H) mm³, 0.95 kg	 580(L) ×290(W) ×470(H) mm³, 24 kg

1 The output power and energy varies with different frequency; Higher energy can be customized.

2 Frequency is adjustable, adjust the step size to 1kHz. One fixed value between 1k-3kHz.

3 Beam height from base plate is 80mm at air cooled, 56mm at water cooled.

4 Air cooled (all power).

5 Water cooled (all power).