EO-532-N/0.1-0.8mJ

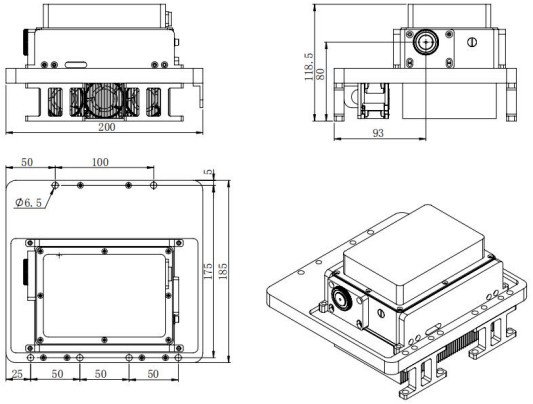
HIGH ENERGY DIODE PUMPED ALL-SOLID-STATE Q-SWITCHED LASER

High energy diode pumped all solid state Q-switched laser at 532nm 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, glass carving, micro-processing, scientific research, and so on.

SPECIFICATIONS

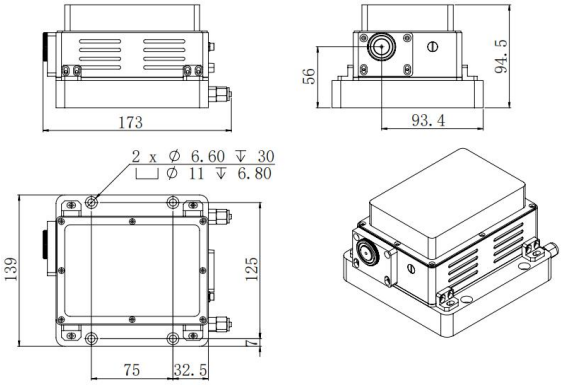
Wavelength (nm)	532±1			
Operating mode	Actively			
Single pulse energy (mJ)[1]	0.1-0.4@1kHz	0.1-0.4@5kHz	0.1-0.2@20kHz	0.1-0.8@3kHz
Pulse duration (ns)	<6@1kHz	<6@5kHz	<7@20kHz	<11@3kHz
Rep. rate	1Hz-1kHz	1-7kHz	1-25kHz	1-3kHz[2]
Power stability (rms, 4 hours ±3℃)	<2%, <1%			
M^2	<1.5			<2
Pointing stability over temperature (urad/℃)	<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 (℃)	15-30			
Power supply (24VDC)	PSU-EO-N (24V/13A)			
Expected lifetime (hours)	>10000			

LASER HEAD (EO-532-N-I)[4]

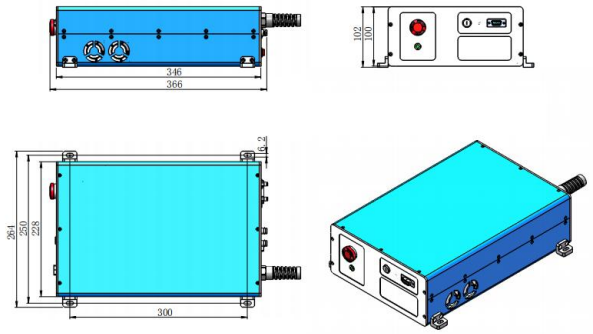
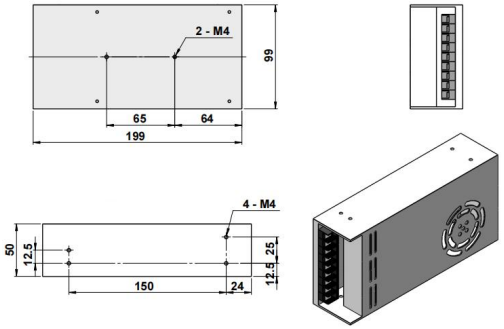
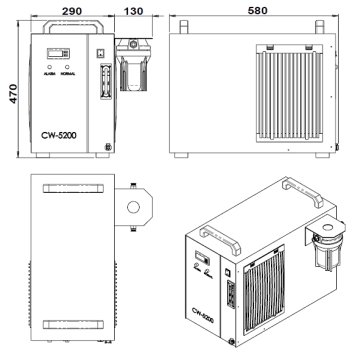


200(L)×185(W)×118.5(H)mm³, 5.7kg

LASER HEAD (EO-532-N-II)[5]



173(L)×139W)×94.5(H)mm³, 3.8kg

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).