

EO-1064-Subnano-Hi/1-4mJ/1-20W

**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 LIBS, Scanning imaging radar, OPO, laser ranging and so on.

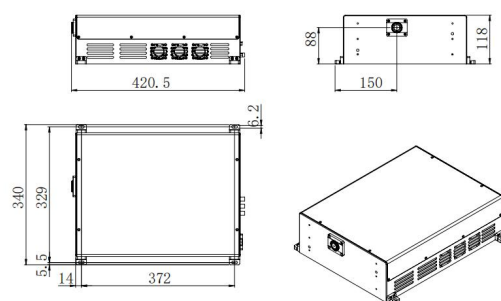


SPECIFICATIONS

Wavelength (nm)	1064±1nm	
Operating mode	Actively	
Single pulse energy (mJ) ¹	1-2@5kHz	2-4@5kHz
Average power (W)	10	20
Power stability (rms, 4 hours ±3℃)	<5%, <3%, <2%	
Pulse duration (ns)	<1.5ns@5kHz	1.5-2ns@5kHz
Rep. rate ²	10Hz-10kHz	
Beam diameter (mm)	~2mm	~2.5mm
Beam divergence, full angle (mrad)	<3mrad	
Cooled method ³	Air cooled or water cooled	
Warm-up time (minutes)	<15	
Operating voltage (VDC)	24V/21A	
Operating temperature (℃)	15-30	
Expected lifetime (hours)	>10000	
Fiber core diameter	1mm, 0.22NA	
Fiber connector	SMA905	
Fiber length(m) ⁴	1	
Fiber jacket	Metal	

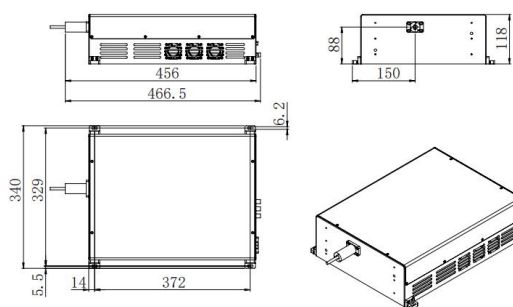


LASER HEAD (Driver integrated)
(EO-1064-Subnano-Hi-I)⁵



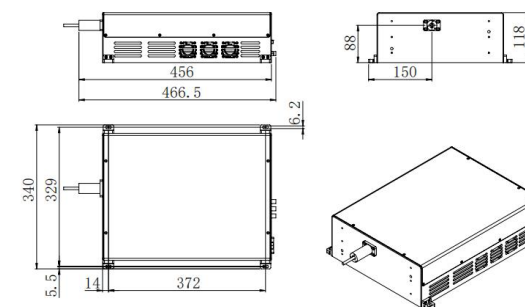
420.5(L)×340(W)×118(H)mm³, 19.5kg

LASER HEAD (Driver integrated)
(EO-1064-Subnano-Hi-II)⁶

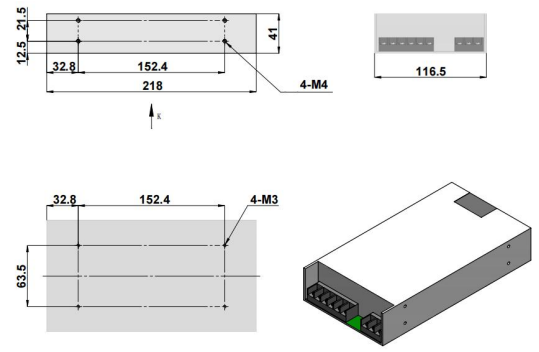
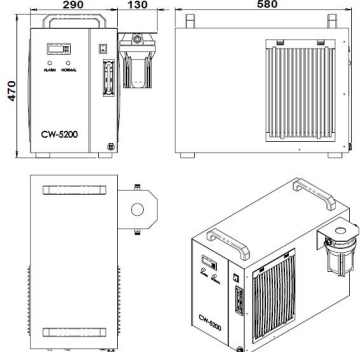


466.5(L)×340(W)×118(H)mm³, 19.6kg

LASER HEAD (Driver integrated)
(EO-1064-Subnano-Hi-III)⁷



466.5(L)×340(W)×118(H)mm³, 19.6kg

POWER SUPPLY (100-240VAC) optional	WATER CHILLER (WCH-1500)
 218(L)×116.5(W)×41(H)mm³, 1.1kg	 580(L) × 290(W) × 470(H) mm³, 24 kg

- 1 The energy and output power was measured at 5kHz, the value varies with different frequency .
- 2 One fixed value between 100Hz-10kHz. Repetition rate 100Hz-10kHz variable can be customized.
- 3 Air cooled ($\leq 1\text{kHz}$); Water cooled (all frequency).
- 4 Other lengths are available on request.
- 5 Air cooled and free space output.
- 6 Air cooled and fiber coupled output.
- 7 Water cooled and free space output.