

AO-V-355/1W/3W/5W



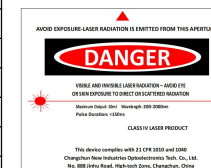
LD PUMPED ALL-SOLID-STATE
AOM Q-SWITCHED LASER

All solid state AOM Q-switched laser at 355 nm has the features of high peak power, high repetition rate, and short pulse duration, which is used in scientific research, biology, instrumentation, 3D marking, laser marking, sub-surface engraving and so on.

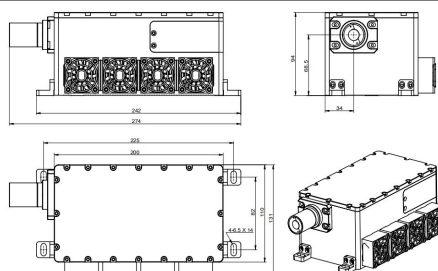


SPECIFICATIONS

Wavelength (nm)	355±1			
Operating mode	Actively			
Average power (W)	1@1kHz	3@5kHz	3@30kHz	5@30kHz
	Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz)			
Single pulse energy (μJ)	>1000@1Hz-1kHz	>600@5kHz	>100@30kHz	>160@30kHz
Rep. rate ¹	1Hz-10kHz		20-200kHz	20-200kHz
Pulse duration (ns) ²	~12@1kHz	~15@5kHz	~12@30kHz	~15@30kHz
Peak power (kW)	~80@1kHz	~40@5kHz	~10@30kHz	
Power stability (rms, 4 hours ± 3°C)	<2%, <1%			
Transverse mode	TEM ₀₀			
Beam Circularity (%)	>90			
Beam divergence, full angle (mrad)	<3.5			
Beam diameter at the aperture (1/e ² , mm)	~0.8			
M ²	<1.2			
Polarization ratio	>100:1 Horizontal			
Beam height from base plate (mm)	68.5@Air Cooled 40@Water Cooled			
Warm-up time (minutes)	<10			
Cooled method	Air cooled or Water cooled			
Operating temperature (°C)	10-35			
Power supply (100-240VAC)	PSU-AOM			
Expected lifetime (hours)	>10000			

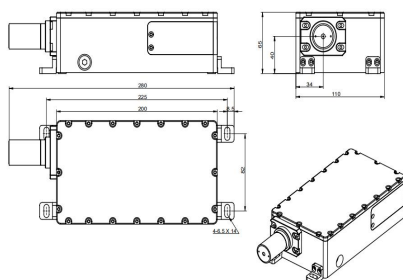


LASER HEAD (Air Cooled)



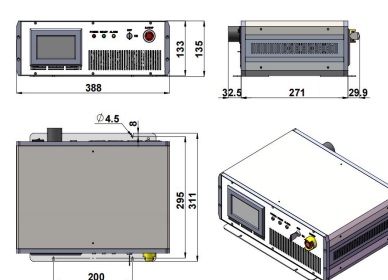
274 (L) × 131 (W) × 94 (H) mm³, 3.65 kg

LASER HEAD (Water Cooled)



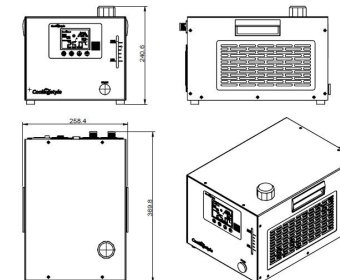
280 (L) × 110 (W) × 65 (H) mm³, 3.0 kg

POWER SUPPLY



388 (L) × 311 (W) × 135 (H) mm³, 9.6 kg

WATER CHILLER(WCH-580)



369.8 (L) × 258.4 (W) × 240.6 (H) mm³, 10.5 kg

1 Other rep.rate range available on request.

2 Pulse width not tunable, the value varies with different frequency.

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