



AO-532A & 355A

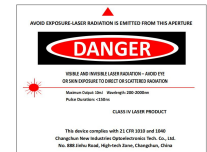
LD PUMPED ALL-SOLID-STATE
AOM Q-SWITCHED LASER

All solid state AOM Q-switched laser at Daul wavelengths 532 nm and 355nm has the features of high peak power 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)	532±1		355±1			
Operating mode	Actively					
Average power (mW)	500@1kHz	1000@2kHz	500@1kHz	1000@2kHz		
	2000@5kHz	2500@10kHz	2000@5kHz	2000@10kHz		
Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz)						
Single pulse energy (μJ)	>500@1kHz	>500@2kHz	>500@1kHz	>500@2kHz		
	>400@5kHz	>250@10kHz	>400@5kHz	>200@10kHz		
Rep. rate ¹	1-10kHz					
Pulse duration (ns) ²	~12@1kHz	~13@2kHz	~17@5kHz	~13@1kHz	~13@2kHz	~19@5kHz
Peak power (kW)	~40@1kHz	~38@2kHz	~20@5kHz	~38@1kHz	~38@2kHz	~20@5kHz
Power stability (rms, 4 hours ± 3°C)	<3%, <2%, <1%					
Transverse mode	TEM ₀₀					
Beam Circularity (%)	>90					
Beam divergence, full angle (mrad)	~3.5		~2			
Beam diameter at the aperture (1/e ² , mm)	~0.8		~0.8			
M ²	<1.2					
Polarization ratio	>100:1 Vertical		>100:1 Horizontal			
Beam height from base plate (mm)	79					
Warm-up time (minutes)	<10					
Cooled method	Air cooled					
Operating temperature (°C) ³	10-35					
Operating voltage (VDC)	12V/25A					
Expected lifetime (hours)	>10000					



<p>LASER HEAD (Driver Integrated)</p> <p>372 (L) × 180(W) × 120.5 (H) mm³, 10 kg</p>	<p>POWER SUPPLY PSU-12 (100-240VAC) optional</p> <p>199 (L) × 99 (W) × 50 (H) mm³, 0.9 kg</p>	<p>POWER SUPPLY PSU-12-P⁴ (100-240VAC) optional</p> <p>210 (L) × 150 (W) × 112.3 (H) mm³, 2.75 kg</p>
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- 1 Other rep.rate range available on request.
- 2 Pulse width not tunable, the value varies with different frequency.
- 3 Robust environmental adaptability with customizable wide-temperature.
- 4 Parameters can be adjusted.(on/off, Rep. Rate, etc.)