



AO-U-xxx-DP series

LD PUMPED ALL-SOLID-STATE ACOUSTO-OPTIC Q-SWITCHED LASER

All solid state acousto-optic Q-switched laser has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in material processing, measure, scientific research and so on.



SPECIFICATIONS

Wavelength (nm)	213±1	303±1	320±1	607±1	639±1	721±1
Operating mode	Acousto-optics Q-switched					
Max average power (mW)*	1-5@15kHz	1-3@5kHz	1-40@5kHz	1-400@5kHz	1-700@5kHz	1-200@5kHz
Single pulse energy (μJ)	0.3@15kHz	0.6@5kHz	1-8@5kHz	1-80@5kHz	1-140@5kHz	1-40@5kHz
Pulse duration (ns)	~12@15kHz	~18@5kHz	~13@5kHz	~35@5kHz	~18@5kHz	~20@5kHz
Peak power(kW)	~0.02@15kHz	~0.03@5kHz	~0.6@5kHz	~2.2@5kHz	~7.7@5kHz	~2@5kHz
Rep. rate (kHz)	1-15			1-30		
Power Stability (rms,over 4 hours)	<5%			<5%,<3%		
Transverse mode	Near TEM ₀₀					
Beam Diameter at the aperture 1/e ² (mm)	<2.0					
Beam divergence,full angle (mrad)	<2.0					
Warm-up Time (minutes)	<10					
Beam height from base plate (mm)	99.5					
Operating temperature(°C)	10~35					
Cooled method	Water cooled					
Expected lifetime (hours)	5000			10000		
Power supply	12V DC (Photoelectric integrated)					
Warranty	1 year					

Average power (mW)= Single pulse energy (μJ) Rep. rate(kHz)

LASER HEAD	Water Chiller
<p>320.5 (L) × 296 (W) × 135 (H) mm³, 16.8kg</p>	<p>345 (L) × 248 (W) × 215 (H) mm³, 11.0 kg</p>