

AO-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)	303±1	320±1	607±1	639±1	721±1
Operating mode	Acousto-Optics Q-switched				
Max average power (mW)*	1-10@5kHz	1-30@5kHz	1-400@5kHz	1-700@5kHz	1-650@5kHz
Single pulse energy (μJ)	1-2@5kHz	1-6@5kHz	1-80@5kHz	1-140@5kHz	1-130@5kHz
Pulse duration(varies from power and repetition.)	~20ns@5kHz		~22ns@5kHz	~15ns@5kHz	~18ns@5kHz
Peak power(kW)	~0.1	~0.3	~3.6	~9.3	~7.2
Rep. rate (kHz)	1-10kHz		1-30kHz		
Power Stability (rms,over 4 hours)	<5%, <3%				
Transverse mode	TEM ₀₀				Near TEM ₀₀
Beam Diameter at the aperture 1/e ² (mm)	~1.5				
Beam divergence, full angle (mrad)	<2.0				
Warm-up Time (minutes)	<10				
Operating temperature(°C)	10~35				
Cooled method	Water Cooled				
Expected lifetime (hours)	10000				
Warranty	1 year				

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