



AO-S-xxx-H series (500-1000nm)

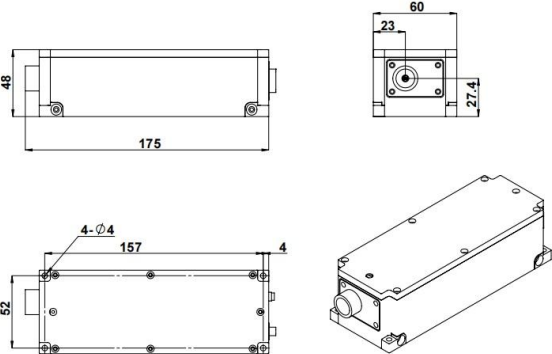
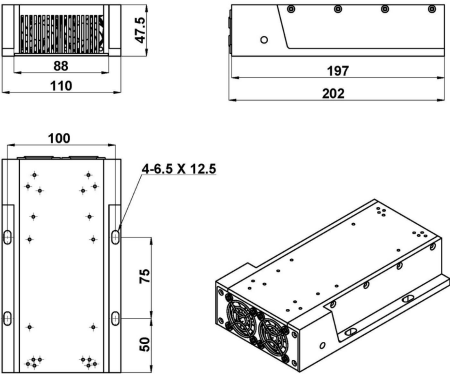
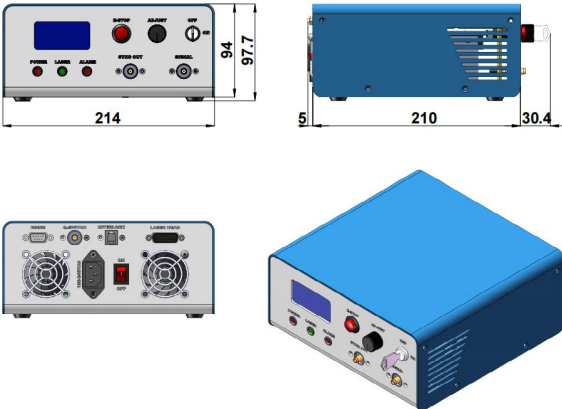
LD PUMPED ALL-SOLID-STATE ACOUSTO-OPTIC Q-SWITCHED LASER

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)	523.5±1	526.5±1	532±1		671±1
Operating mode	Actively				
Max average power (mW) ¹	1-300	1-300	1-1000		1-350
Single pulse energy (μJ)	1-100 (100uJ@1kHz;50uJ@5kHz)	1-100 (100uJ@1kHz;60uJ@5kHz)	1-250 (250uJ@1kHz;100uJ@10kHz)	1-30 (15uJ@10kHz;20uJ@50kHz;5 uJ@100kHz)	1-50 (50uJ@1kHz;45uJ@5kHz)
Pulse duration ²	~8ns@1kHz:~14ns@5kHz	~10ns@1kHz:~17ns@5kHz	~10ns@1kHz:~25ns@10kHz	~5ns@10kHz;~14ns@50kHz;~62ns@100kHz	~23ns@1kHz:~27ns@5kHz
Peak power(kW)	0.007-12.5	0.005-10	0.04-25	0.01-3.84	0.008-2.19
Rep. rate (kHz) ³	0.001-50		0.001-10	10-100	0.001-50
Power Stability (rms,over 4 hours)	<3%, <2%,<1%				
Transverse mode	TEM ₀₀				
M ²	<1.5				
Beam Diameter at the aperture 1/e ² (mm)	<1.0				~1.2
Beam divergence, full angle (mrad)	<1.5				
Polarization ratio	>100:1, Vertical (Horizontal optional)				>100:1, Horizontal (Vertical optional)
Warm-up Time (minutes)	<10				
Beam height from base plate (mm)	27.4				
Operating temperature(°C)	10-35				
Power supply (100-240VAC)	PSU-AOM-DL				
Expected lifetime (hours)	>10000				

LASER HEAD ⁴	HEATSINK(OPTIONAL TC-02-FS)	POWER SUPPLY ⁵
 175 (L) × 60 (W) × 48 (H) mm³, 1.0 kg	 220 (L) × 110 (W) × 47.5 (H) mm³, 1.25 kg	 245.4 (L) × 214 (W) × 97.7 (H) mm³, 3.2 kg

1. Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz)
2. Pulse width not tunable, the value varies with different frequency and power.
3. Frequency is adjustable between 1-xxx Hz.
4. The laser head needs to be used on a heat sink with good heat dissipation.
5. Output power adjustable 10-100%; RS232 control optional.