



AO-S-xxx-H 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)	261±1	263±1	266±1
Operating mode	Acousto-Optics Q-switched		
Max average power (mW)*	1-15	1-15	1-20
Single pulse energy (μJ)	1-15	1-15	1-20
Pulse duration(varies from power and repetition.)	~9		
Peak power(kW)	0.1-1.6	0.1-1.6	0.1-2.2
Rep. rate (kHz)	0.001-1		
Power Stability (rms,over 4 hours)	<5%,<3%,<2%		
Transverse mode	Near TEM ₀₀		
M ² factor	<2		
Beam Diameter at the aperture 1/e ² (mm)	<1.5		
Beam divergence, full angle (mrad)	<1.5		
Polarization ratio	>100:1		
Warm-up Time (minutes)	<10		
Beam height from base plate (mm)	27.4		
Operating temperature(°C)	10~35		
Power supply (90-264VAC)	PSU-AOM-DL		
Expected lifetime (hours)	5000		
Warranty	1 year		

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

Note: The laser head needs to be used on a heat sink with good heat dissipation.

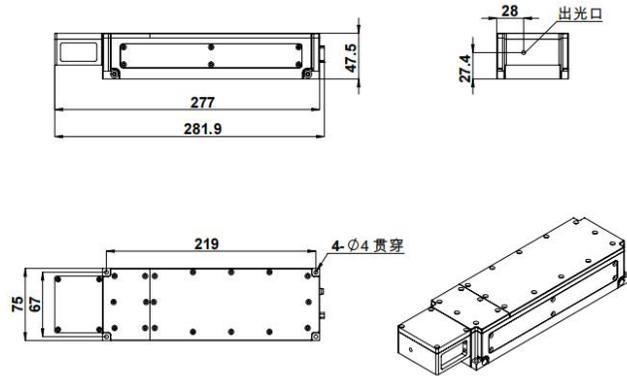


Wavelength (nm)	523.5±1	526.5±1	532±1	671±1
Operating mode	Acousto-Optics Q-switched			
Max average power (mW)*	1-300	1-300	1-1000	1-350
Single pulse energy (μJ)	1-100 (100uJ@1kHz:50uJ@5kHz)	1-100 (100uJ@1kHz:60uJ@5kHz)	1-250 (250uJ@1kHz:100uJ@10kHz)	1-30 (15uJ@10kHz;20uJ@50kHz;5uJ@100kHz)
Pulse duration(varies from power and repetition.)	~8ns@1kHz:~14ns@5kHz	~10ns@1kHz:~17ns@5kHz	~10ns@1kHz:~25ns@10kHz	~5ns@10kHz;~14ns@50kHz;~62ns@100kHz
Peak power(kW)	0.007-12.5	0.005-10	0.04-25	0.01-3.84
Rep. rate (kHz)	0.001-50		0.001-10	10-100
Power Stability (rms,over 4 hours)	<5%, <3%, <2%			
Transverse mode	Near TEM ₀₀			
M ² factor	<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			
Warm-up Time (minutes)	<10			
Beam height from base plate (mm)	27.4			
Operating temperature(°C)	10~35			
Power supply (90-264VAC)	PSU-AOM-DL			
Expected lifetime (hours)	10000			
Warranty	1 year			

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

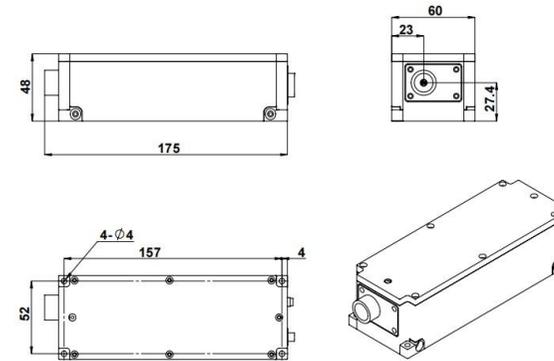
Note: The laser head needs to be used on a heat sink with good heat dissipation.

LASER HEAD (AO-S-261/ 263/ 266-H)



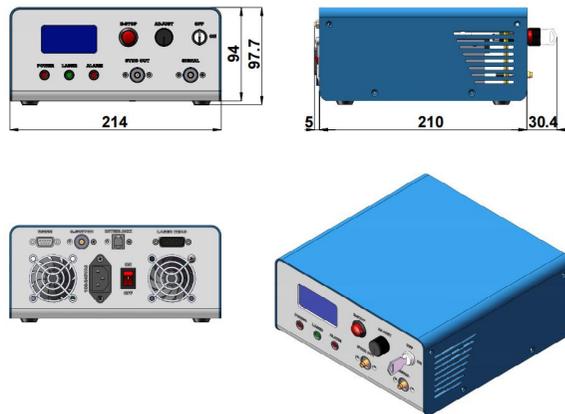
281.9 (L) × 75(W) × 47.5(H) mm³ 1.5kg

LASER HEAD (AO-S-523.5/ 526.5/ 532/ 1064-H)



175 (L) × 60(W) × 48(H) mm³ 1.0kg

POWER SUPPLY



245.4 (L) × 214(W) × 97.7(H) mm³ 3.2 kg