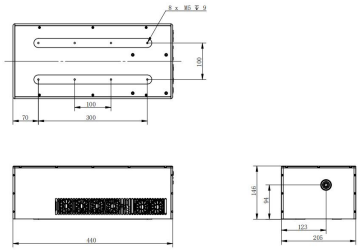
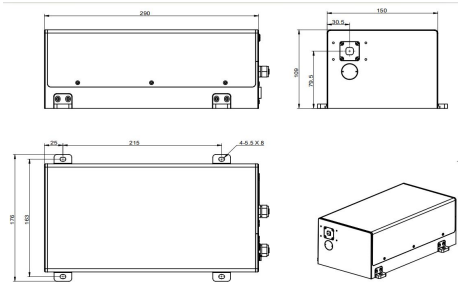
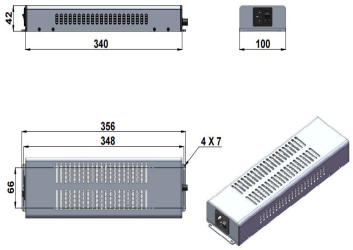
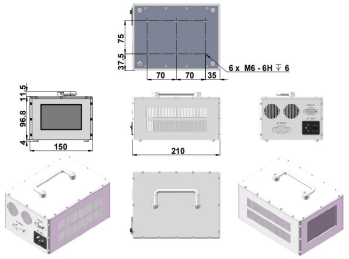
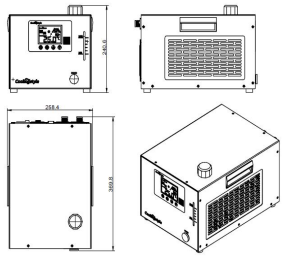
AO-K-560/300mW/500mW/2W/3W/5W

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

All solid state AOM Q-switched laser at a wavelength of 560nm has the features of high peak power and short pulse duration, which is used in Photoacoustic imaging, scientific research and so on.

SPECIFICATIONS

Wavelength (nm)	560±1				
Operating mode	Actively				
Average power (mW)	500@5kHz	300@1kHz	2000@5kHz	3000@20kHz	5000@100kHz
	Average power (W) = Single pulse energy (mJ) * Rep. rate (kHz)				
Single pulse energy (uJ)	>100@5kHz	>300@1kHz	>400@5kHz	>150@20kHz	>50@100kHz
Rep. rate[1]	1-10kHz			20-50	30-100
Pulse duration (ns)[2]	~13@5kHz	~5@1kHz	~10@5kHz	~5@20kHz	~5@100kHz
Peak power (kW)	~8@5kHz	~60@1kHz	~40@5kHz	~30@20kHz	~10@100kHz
Power stability (rms, 4 hours ± 3°C)	<5% ,<3%,<2%				
Beam divergence, full angle (mrad)	<4				
Beam diameter at the aperture ($1/e^2$, mm)	~1				
Polarization ratio	>100:1, Vertical				
Beam height from base plate (mm)	94	79.5			
Warm-up time (minutes)	<10				
Cooled method	Air cooled (AO-K-560-I)	Water cooled (AO-K-560-II)			
Operating temperature (°C)	15-35				
Operating voltage (VDC)	24V/20.9A				
Expected lifetime (hours)	>10000				

LASER HEAD (Driver Integrated) (AO-K-560-I)	LASER HEAD (Driver Integrated) (AO-K-560-II)	POWER SUPPLY PSU-24 (100-240VAC) optional	POWER SUPPLY PSU-24-P[3] (100-240VAC) optional	WATER CHILLER (WCH-580)
				
440 (L) ×205(W) ×146(H) mm³	**290 (L) ×176(W) ×109(H) mm³**	**356(L) ×100 (W) ×42 (H) mm³, 2.2kg**	**210 (L) ×150 (W) ×112.3 (H) mm³, 2.75 kg**	**369.8 (L) ×258.4(W) ×240.6 (H) mm³, 10.5 kg**

1 Other rep.rate range available on request.

2 Pulse width not tunable, the value varies with different frequency.

3 Parameters can be adjusted.(on/off, Rep. Rate, etc.)

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