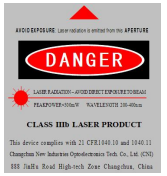
UV-FN series

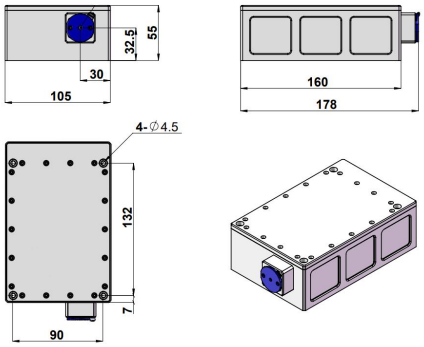
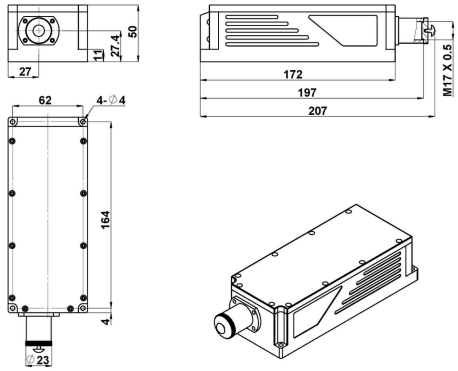
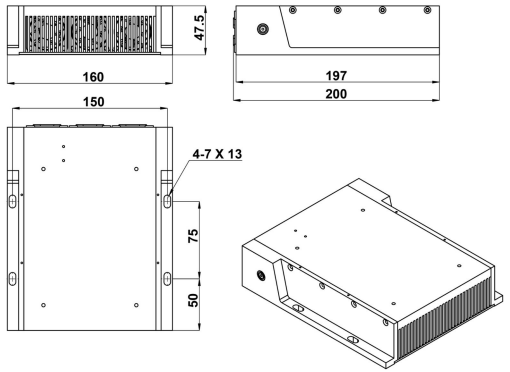
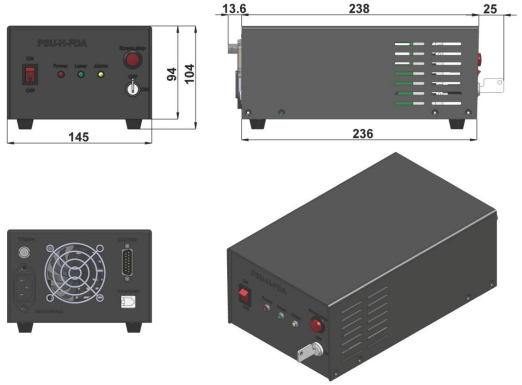
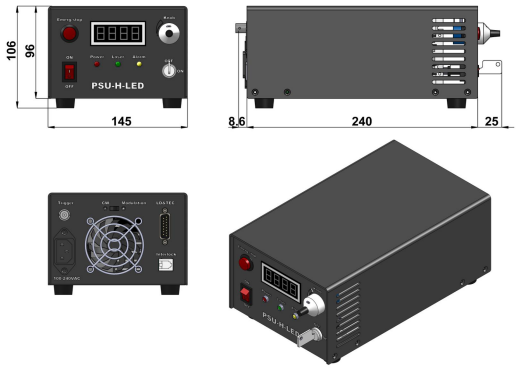
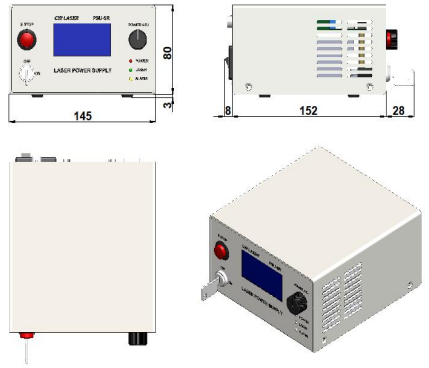
LD PUMPED ALL-SOLID-STATE UV LASER



All solid state UV laser is made features of high output power stability, good beam profile, ultra compact, long lifetime, low cost and easy operating, which is widely used in collimation, laser medical treatment, scientific experiment, optical instrument, etc.

SPECIFICATIONS

Wavelength (nm)	261±1	273±1	304±1	320±1	335±1	349±1	355±1	360±1	365±1
Operating mode	CW								
Output power (mW)[1]	1-10	1-5	1-30	1-200	1-60	1-150	1-50	1-150	1-100
Power stability (rms, 4 hours±3°C)	<3%, (<2% optional)			<3%, <2%, <1%			<5%, <3%, (<2% optional)	<3%, <2%, <1%	
Transverse mode	TEM_{00}								
M^2	<3.0		<2.0	<1.5					
Beam diameter at the aperture ($1/e^2$, mm)	<1.0								
Beam divergence, full angle (mrad)	<1.2								
Polarization ratio	>100:1, Vertical (Horizontal optional)						>50:1(>100:1 optional) Vertical (Horizontal optional)	>100:1, Vertical (Horizontal optional)	
Warm-up time (minutes)	<10								
Pointing Stability(μrad) (over 2 hours after warm-up and ±3°C)	<50								
Pointing Stability Over Temperature(μrad/°C)	<8								
Beam height from base plate (mm)	32.5/ 27.4								
Operating Temperature (°C)	10-35								
Modulation option	DC-1kHz; TTL and Analog optional								
Power supply (100-240VAC)	PSU-H-FDA	PSU-H-FDA/ PSU-H-LED/PSU-SR					PSU-H-FDA	PSU-H-FDA/ PSU-H-LED/PSU-SR	
Expected lifetime (hours)	>10000								

LASER HEAD (UV-FN-261/ 273/ 304/ 320/ 335/ 349/ 360/ 365)[2]	LASER HEAD (UV-FN-355)[2]	HEATSINK (TC-02-FS-L) optional
		
178(L)×105(W)×55(H) mm³, 2.5kg	**197(L)×70(W)×50(H) mm³, 1.5 kg**	**200(L)×160(W)×47.5(H) mm³, 2.0 kg**
POWER SUPPLY (PSU-H-FDA)[3]	POWER SUPPLY (PSU-H-LED)[4]	POWER SUPPLY (PSU-SR)[4]
		
276.6(L) ×145(W) ×103.6(H) mm³, 2.3 kg	**273.6 (L) ×145(W) ×106 (H) mm³, 2.3 kg**	**188(L) ×145(W) ×83(H) mm³, 1.2kg**

1 Any power level can be selected in this range.

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

3 Fixed output power.

4 Output power adjustable 10-100%; RS232 control optional.