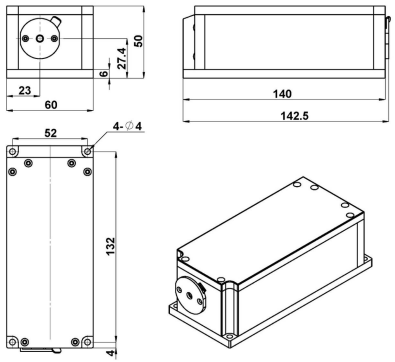
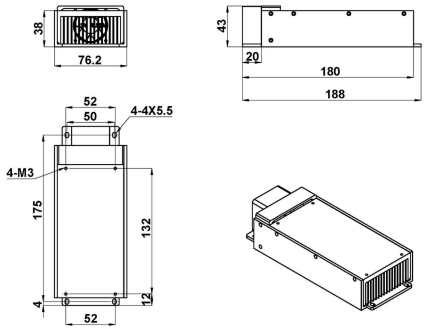
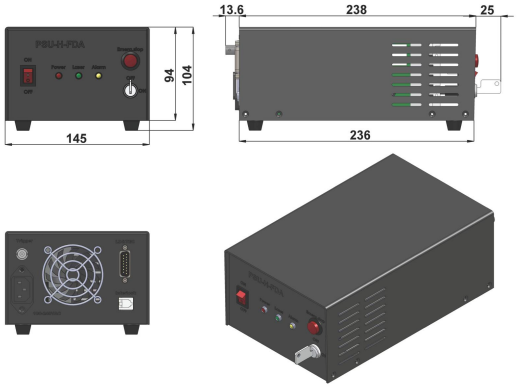
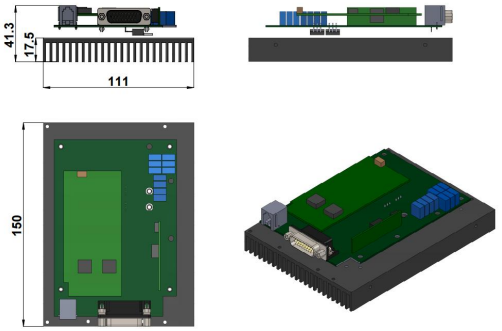
MLL-U series (400-570nm)

LD PUMPED ALL-SOLID-STATE LOW NOISE LASER

The ultra-low-noise laser features an ultra-compact design, a long lifetime, and high stability and reliability. It is widely used in scientific experiments, medical measurements, instrumentation, spectral analysis, and more.

SPECIFICATIONS

Wavelength (nm)	457±1	473±1	532±1		550±1	561±1
Operating mode	CW					
Output power (mW)[1]	1-350	1-100	300-500	500-1500	1-100	80-200
Power stability (rms, 4 hours ±3°C)	<3%, <2%, <1%			<3%, <2%	<2%, <1%, (<0.5% optional)	<3%, <2%, <1%
Spectral line width (nm)	<0.1, <0.003					
Transverse mode	TEM_{00}					
Noise of amplitude (rms, 20Hz-20MHz)	<1%		<1%, <0.5%	<1%	<1%, <0.5%	
M^2	<1.5	<1.2				
Beam diameter at the aperture ($1/e^2$, mm)	<1.0					
Beam divergence (mrad)	<1.5					
Polarization ratio	>100:1, Vertical (Horizontal optional)					
Warm-up time (minutes)	<5					
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)	27.4					
Operating temperature (°C)	10-35					
Power supply (100-240VAC)	PSU-H-FDA					
Operating voltage (VDC)	PSU-SR-OEM (12V/25A)					
Expected lifetime (hours)	>10000					

LASER HEAD[2]	HEATSINK (optional TC-04-FS)
	
142.5(L)×60(W)×50(H)mm³, 1.0kg	**188(L)×76.2(W)×43(H) mm³, 0.65kg**
POWER SUPPLY (PSU-H-FDA)[3]	**DRIVER (PSU-SR-OEM)[3]**
	
276.6(L) ×145(W) ×103.6(H) mm³, 2.3kg	**150(L) ×111(W) ×41.3(H) mm³, 0.8kg**

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.