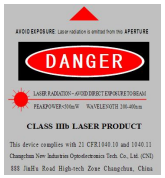
MLL-XS-561

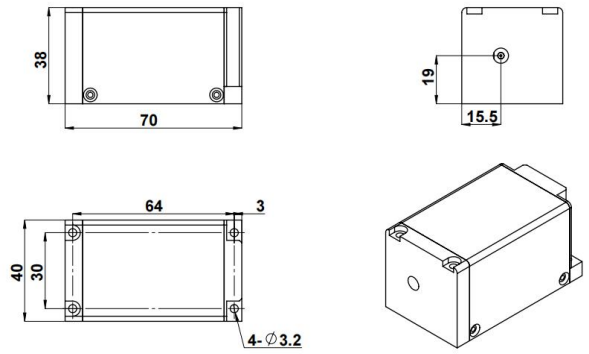
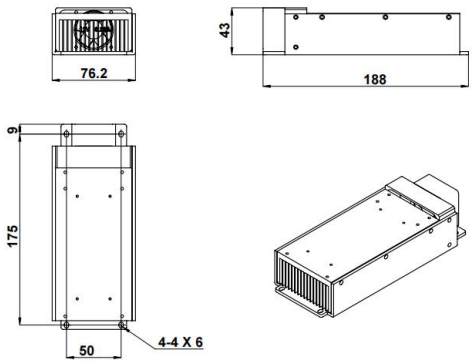
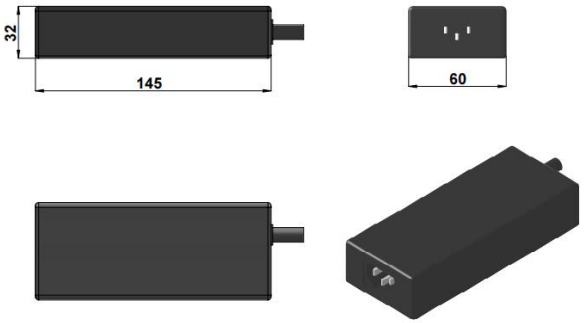


LD PUMPED ALL-SOLID-STATE LOW NOISE YELLOW GREEN LASER AT 561 nm

Low noise yellow green laser at 561 nm is made features of ultra compact, small size, wide operating temperature, good sealing, long lifetime, cost -effectiveness and easy operating, which is widely used in flow cytometry, scientific experiment, optical sensor, measurement, instrument, communication, spectrum analysis, etc.

SPECIFICATIONS

Model	MLL-XS-561
Wavelength (nm)	561±1
Operating mode	CW
Output power (mW)[1]	1-80
Power stability (rms, 4 hours ±3°C)	<2%, <1%
Transverse mode	TEM_{00}
Noise of amplitude (rms, 20Hz-20MHz)	<1% , (<0.5%,0.25% optional)
M^2	<1.2
Beam diameter at the aperture ($1/e^2$, mm)	~0.7
Beam divergence (mrad)	<1.0
Polarization ratio	>100:1, (Vertical ± 5 degree)
Warm-up time (minutes)	<5
Pointing stability (μrad) (over 2 hours after warm-up and ±3°C)	<50
Beam height from base plate (mm)	19
Operating temperature (℃)	10-35
Operating voltage (VDC)	12V/6.67A
Expected lifetime (hours)	>10000

LASER HEAD[2]	HEATSINK (optional TC-04-FS)	POWER SUPPLY (100-240VAC) optional
		
70(L) × 40(W) × 38(H) mm³	188(L)×76.2(W)×43(H) mm³, 0.65kg	145(L) × 60(W) × 32(H) mm³

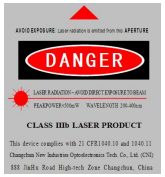
1.Any power level can be selected in this range.

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

MLL-S-561

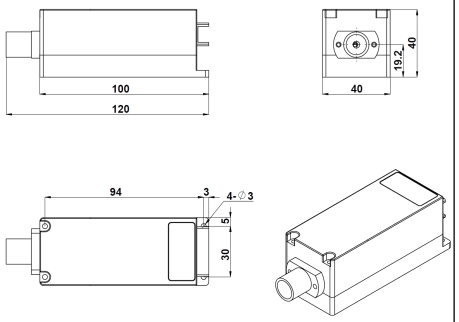
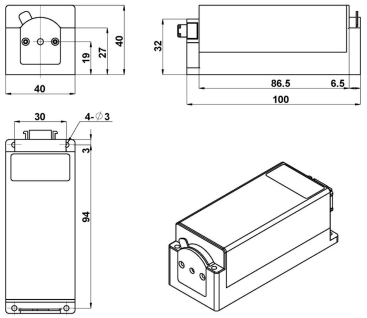
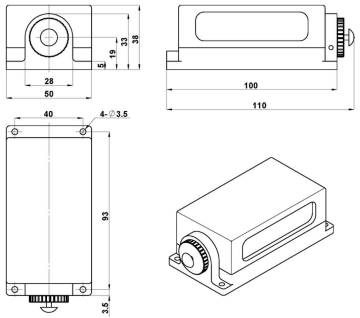
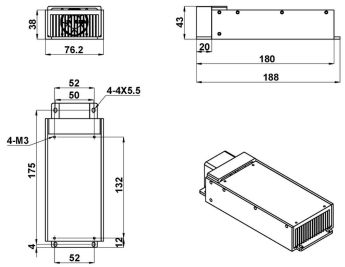
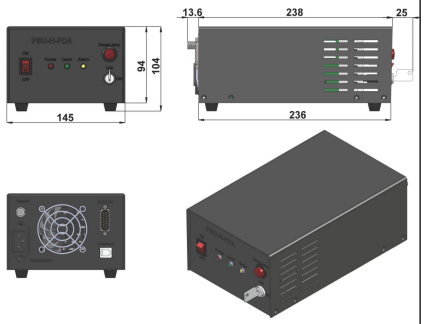
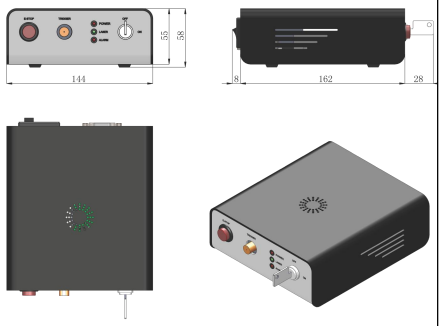
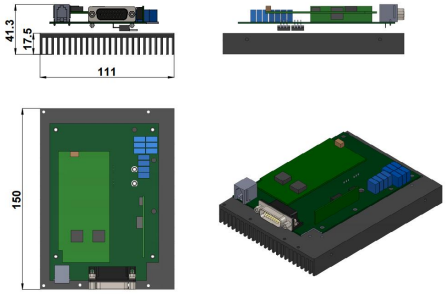
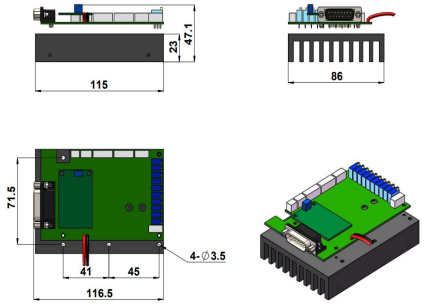
LD PUMPED ALL-SOLID-STATE LOW NOISE LASER

The all-solid-state laser features an ultra-compact design, a wide operating temperature range, excellent sealing, long lifetime, cost-effectiveness, and easy operation. It can operate at a low pressure of 0.02 kPa and is widely used in DNA sequencing, flow cytometry, cell sorting, optical instrumentation, spectral analysis, interferometry, measurement, holography, laser printing, chip inspection, physics experiments, and more.



SPECIFICATIONS

Model	MLL-S-561
Wavelength (nm)	561±1
Operating mode	CW
Output power (mW)[1]	1-80
Power stability (rms, 4 hours ±3°C)	<2%, <1%, <0.5%
Spectral line width (nm)	<0.1
Transverse mode	TEM_{00}
Noise of amplitude (rms, 20Hz-20MHz)	<1% , (<0.5% , ≤0.25% optional)
M^2	<1.2
Beam diameter at the aperture ($1/e^2$, mm)	<1.0
Beam divergence (mrad)	<1.5
Polarization ratio	>100:1, Horizontal (Vertical 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)	19
Power consumption (W)	<40
Shock tolerance (6ms)	7g laterally, 15g vertically
Max. heat dissipation of head (W)	/
IP rating	/
Operating temperature (℃)	10-35
Power supply (100-240VAC)	PSU-A-F
Power supply (VDC)	PSU-A-F-OEM (5V/5A)
Expected lifetime (hours)	>10000

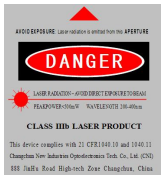
LASER HEAD (MLL-S-561)[2]	LASER HEAD (MLL-S-1064)[2]	LASER HEAD (MLL-S-1064-A)[2]	HEATSINK (optional TC-04-FS)
			
120(L) × 40(W) × 40(H) mm³, 0.37kg	100 (L) ×40 (W) ×40(H) mm³, 0.36kg	245.5(L)×88(W) ×74(H) mm³, 2.0kg	188(L)×76.2(W)×43(H) mm³, 0.65kg
POWER SUPPLY (PSU-H-FDA)[3]	**POWER SUPPLY (PSU-A-F)[3]**	**DRIVER (PSU-SR-OEM)[4]**	**DRIVER (PSU-A-F-OEM)[4]**
			
276.6(L) ×145(W) ×103.6(H) mm³, 2.3kg	198(L) × 144(W) × 58(H) mm³, 0.5kg	150(L) ×111(W) ×41.3(H) mm³, 0.8kg	115(L)×86(W)×47.1(H)mm³, 0.5kg

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.

MLL-S-561-AOM

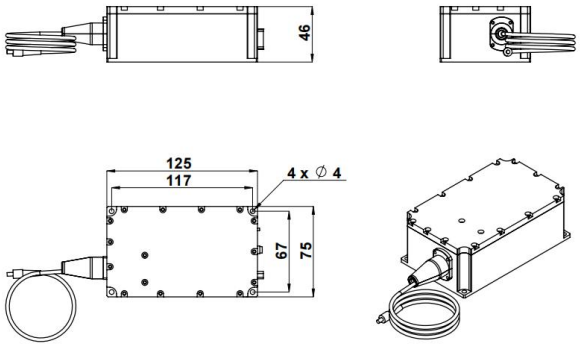
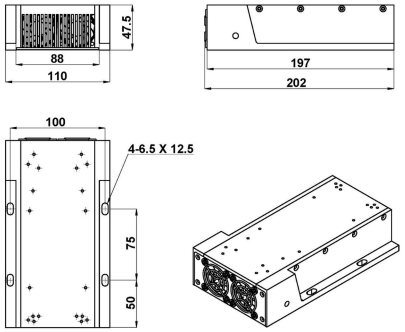
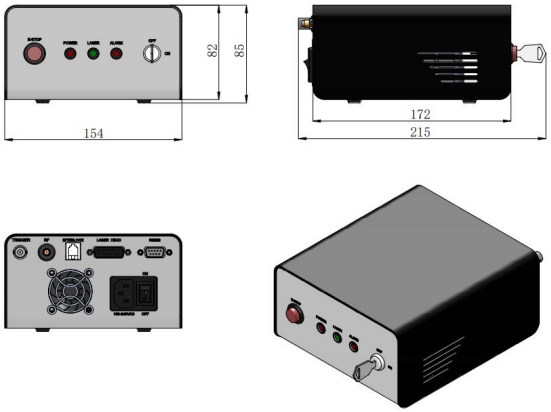
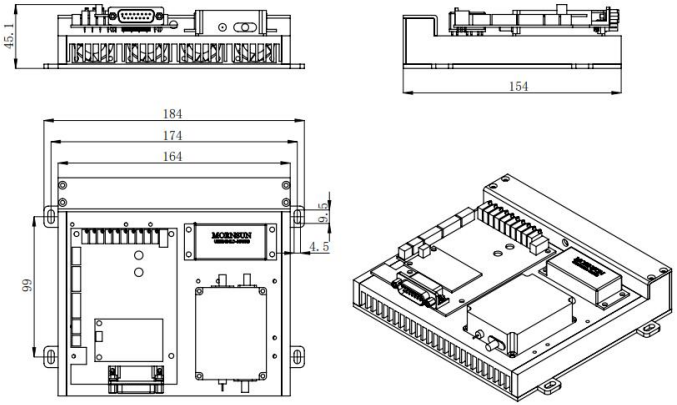


HIGH FREQUENCY MODULATED ALL-SOLID-STATE LASER

The modulation frequency of high frequency modulation laser system is up to 1MHz. It can be used in the field like laser graphic processing, laser digital communications, etc. It has the feature of high extinction ratio, coding easily, convenient use, etc.

SPECIFICATIONS

Model	MLL-S-561-AOM
Wavelength (nm)	561±1
Operating mode	CW
Output power (mW)[1]	1-40
Power stability (rms, 4 hours ±3°C)	<2%, <1%
Transverse mode	TEM_{00}(single mode fiber output)
Noise of amplitude (rms, 20Hz-20MHz)	<1%, (<0.5%,0.25% optional)
M^2	<1.2
Fiber connector	FC/APC
Fiber jacket	PVC(black)
Fiber length[2]	1m
Warm-up time (minutes)	<5
Operating temperature (℃)	10-35
Modulation optional	DC-1MHz;TTL or Analog optional
Power supply (100-240VAC)	PSU-A-F-AOM
Power supply (VDC)	PSU-A-F-AOM-OEM (24V/2A)
Expected lifetime (hours)	>10000

LASER HEAD[3]	HEATSINK (optional TC-02-FS)
	
125(L)×75(W) ×46(H) mm³	**202(L)×110(W)×47.5(H) mm³, 1.25kg**
POWER SUPPLY (PSU-A-F-AOM)	DRIVER (PSU-A-F-AOM-OEM)[4]
	
215(L) × 154(W) × 85(H) mm³	**184(L)×154(W)×45.1(H)mm³**

1.Any power level can be selected in this range.

2.Other lengths are available on request.

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