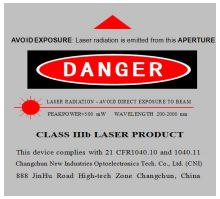
TUN-902-923/1-40mW

WAVELENGTH TUNABLE NARROW LINEWIDTH DIODE LASER

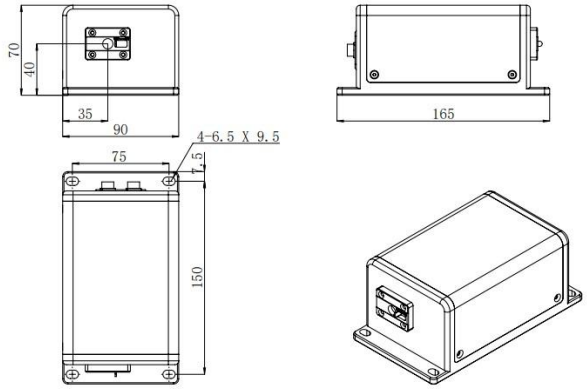
It is a high-end custom high stability, low noise, narrow linewidth, wavelength tunable product. Mainly used in scientific research and teaching, such as holographic imaging, Raman, atomic clock, coherent detection and so on. Currently it has a line width of less than 0.1nm and a tuning range of 21nm.

SPECIFICATIONS

Wavelength range of roughly tuning (nm) [1]	902-923
Operating mode	CW
Output power (mW)[2]	1-40
Power stability (rms, 4 hours ± 3°C)	<3%, <2%, <1%
Transverse mode	Near TEM_{00}
Spectral line width (nm)	<0.1
Frequency shift (pm) (over ±2°C and 1hrs)	<10
Coarse tuning accuracy (nm)	~0.1
Fine tuning range (GHz)[3]	>23 (65pm)
Fine tuning accuracy (nm)[3]	0.001
Beam diameter at the aperture ($1/e^2$, mm)	~3.0
Beam divergence, full angle (mrad)	<1.0
Polarization ratio	>50:1, (>100:1 optional) Vertical±5 degree
Warm-up time (minutes)	<5
Beam height from base plate (mm)	40
Operating temperature (°C)	20-30
Power supply (100-240VAC)	PSU-TUN
Parameters of customed power supply	Current : 0-270mA TEC: 7-12kΩ PZT voltage: 0-100V
Expected lifetime (hours)	>10000

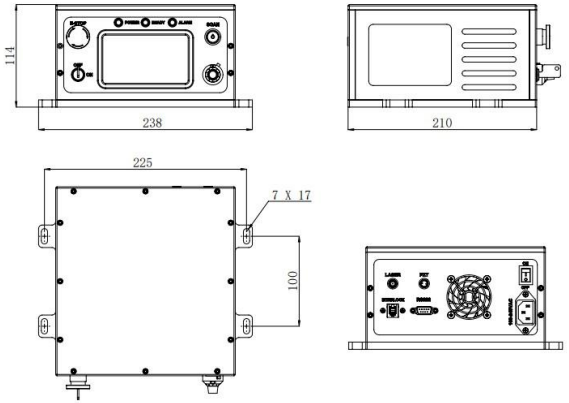


LASER HEAD



165 (L) ×90 (W) ×70 (H) mm³, 3.0kg

POWER SUPPLY[4]



210 (L) ×238 (W) ×114 (H) mm³, 4.0kg

1 The tuning range shifts with the center wavelength of the LD.

2 Any power level can be selected in this range.

3 Wavelength fine tuning is multi-parameter joint tuning, customer only needs to adjust the PZT voltage value to realize.

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