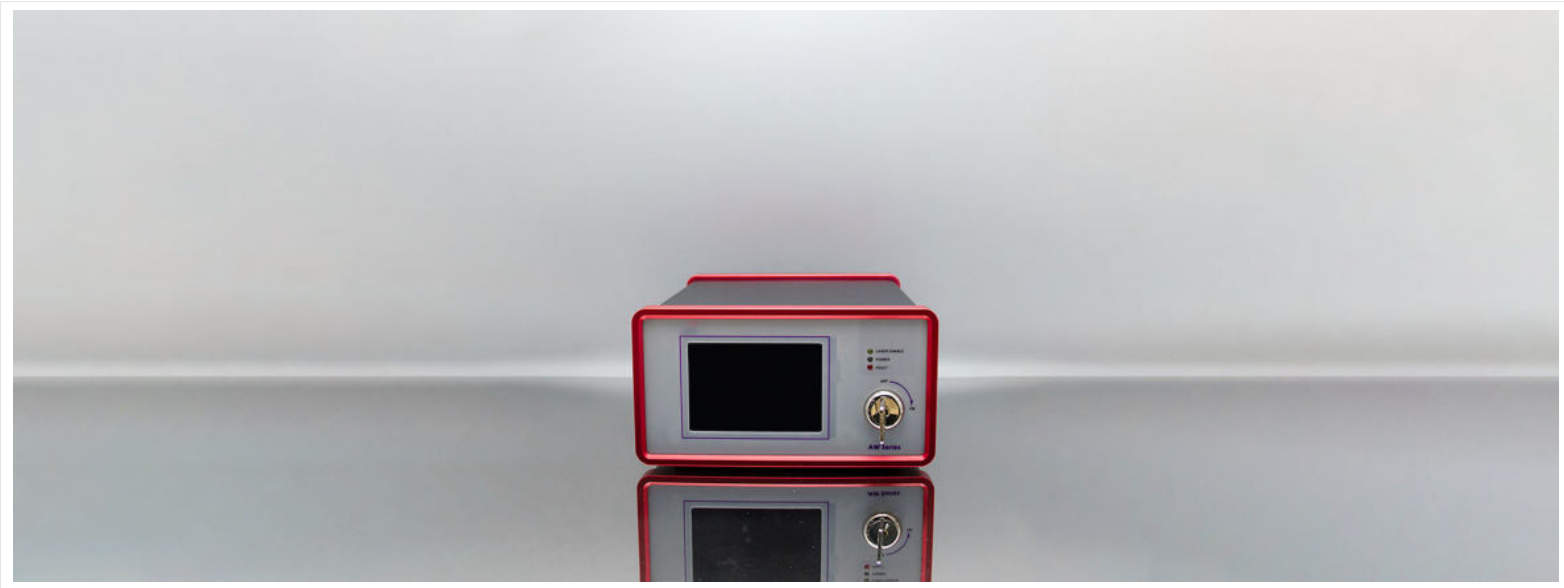


633nm Narrow Linewidth Laser System of NLM Series



DESCRIPTION

633nm is one of the most widely used standard wavelengths at present. The 633nm narrow linewidth semiconductor laser system introduced by our company adopts the volume Bragg grating (VBG) wave locking technology, which enables the semiconductor laser to achieve narrow linewidth and stable power output. It can replace the traditional He Ne exciter in many fields. At the same time, compared with the He Ne laser, it has the advantages of compact structure and continuously adjustable power, Two output modes, spatial collimation and fiber coupling, can be provided.

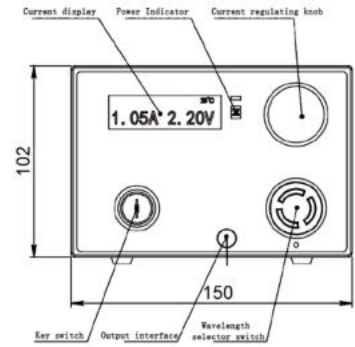
FEATURES

- Line width <0.07nm
- Frequency stability better than $\pm 0.005\text{nm}@8\text{H}$
- Temperature drift<0.007nm/°C
- Built-in TEC, power stability is better than $\pm 1\%$
- Including host computer control, emergency stop switch, short circuit protection and other functions

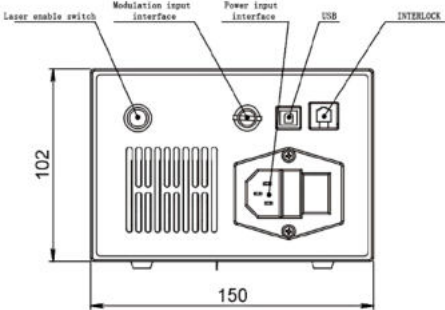
APPLICATIONS

- Confocal Microscopy
- Fluorescence Spectrum Detection
- Raman Spectrum Detection
- Particle Size Detection
- He-Ne Laser Replacement

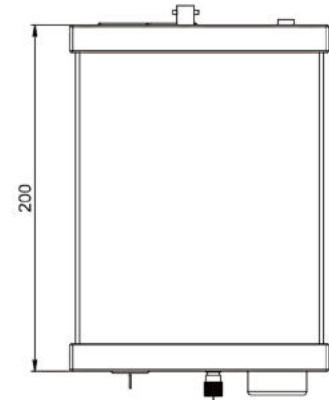
OUTLINE SIZE(mm)



Front View



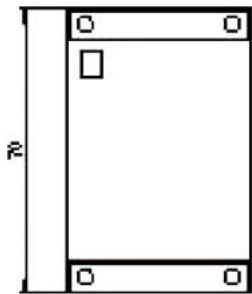
Rear View



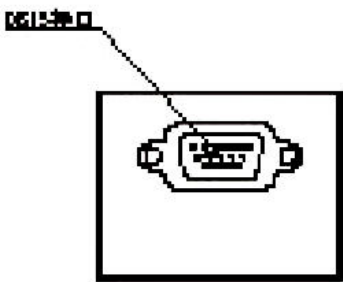
Top View



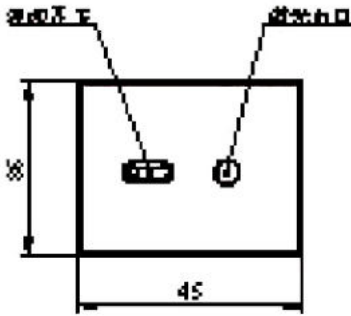
Unit: mm



Top view of laser head



Rear view of laser head



Frontal view of laser head



PARAMETER

Model		CL633-SIF(FP)-20mW-NLM003	CL633-MIF(FP)-50mW-NLM004	CL633-SOW-50mW-NLM005
Optical Parameter	Central Wavelength (nm)	633	633	633
	Output Power (mW)	20 (Single mode)	50 (Multimode)	50 (Multimode)
	Wavelength Tolerance (nm)	±0.5	±0.5	±0.5
	Line Width (nm)	<0.1	<0.1	<0.1
	Wavelength Stability	±0.005nm@8H	±0.005nm@8H	±0.005nm@8H
	Power Stability	±1.0%@8H	±1.0%@8H	±1.0%@8H
	Edge Mode Rejection Ratio (dB)	40	40	40
	Spot Diameter (mm)	/	/	1.3 × 0.7
	Beam Divergence Angle (mrad)	/	/	<1.5
	Power Adjustment Range	0~100%	0~100%	0~100%
System Parameter	Preheat Time (min)	15	15	15
	Modulation Input	1kHz TTLOr Analog signal0-5V		
	Control Interface	USB, BNC	USB, BNC	USB, BNC
	Fiber Interface	FC/PC	FC/PC	Spatial output
	Adaptive Optical Fiber	105μm, 0.22NA	105μm, 0.22NA	/
	Power Input	100V-240V 50/60Hz	100V-240V 50/60Hz	100V-240V 50/60Hz
	System Power Consumption (W)	<7	<7	<7W Typ.
	Storage Temperature (℃)	-10~60	-10~60	-10~60
	Storage Humidity	0~80%RH	0~80%RH	0~80%RH
	Operating Temperature (℃)	10~35	10~35	10~35
	System Weight (Kg)	2.2	2.2	2.2
	Laser Head Size (mm)	45 × 35 × 70	45 × 35 × 70	45 × 35 × 70
	Laser Power Size (mm)	150 × 102 × 200	150 × 102 × 200	150 × 102 × 200

CHARACTERISTICS OF 633NM NARROW LINEWIDTH LASER SYSTEM

