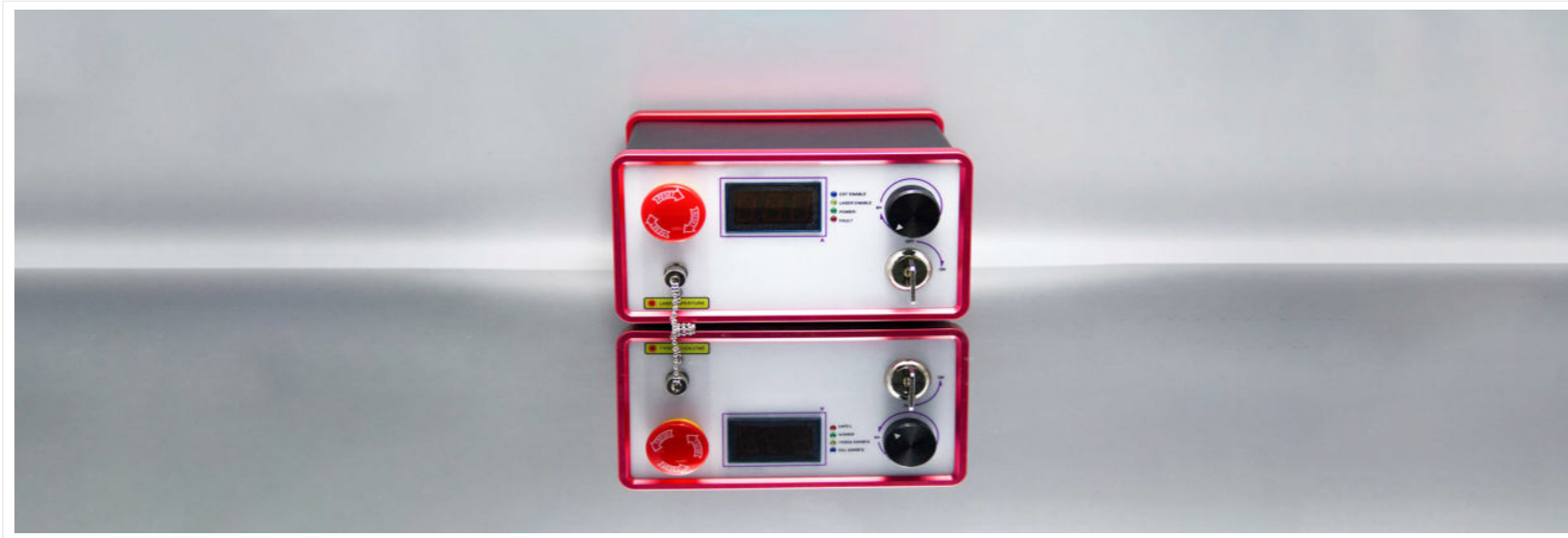


785 nm Dual Wavelength Narrow Linewidth Laser System of NLDM Series



DESCRIPTION

The special dual wavelength narrow linewidth laser system of our company in the top view can provide two kinds of wavelength narrow linewidth fiber coupling output. The laser adopts the core technologies such as wavelength locking of body Bragg grating (VBG), directional optical feedback and built-in semiconductor refrigeration module to realize the narrow linewidth, stable power and stable spectral output of the system.

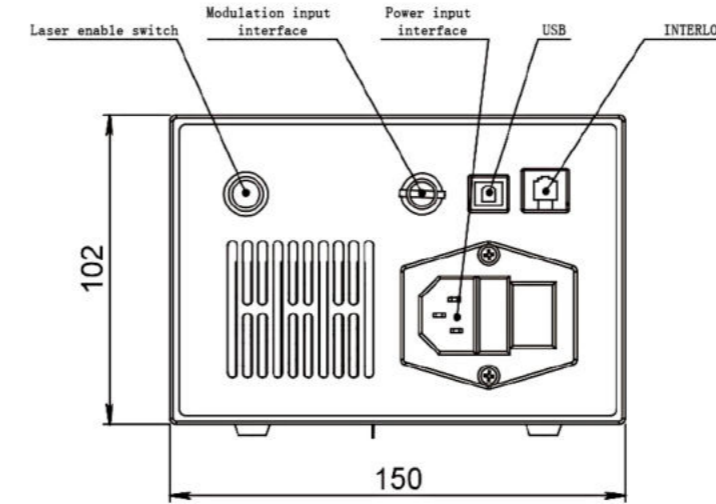
FEATURES

- Both wavelengths can achieve line width $<0.1\text{nm}$
- Frequency stability better than $\pm 0.005\text{nm}@8\text{H}$
- Constant two-wavelength frequency interval, supporting differential calculation methods
- Temperature drift $<0.007\text{nm}/^\circ\text{C}$, VBG wave lock
- Built-in TEC, power stability is better than $\pm 1.5\%$
- Including host computer control, emergency stop switch, short circuit protection and other functions

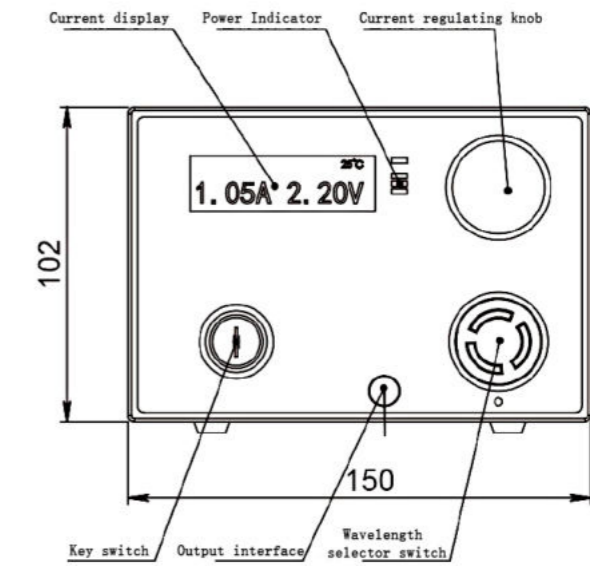
APPLICATIONS

- Confocal microscopy
- Raman spectroscopy
- Super-resolution microscopy
- Biological detection

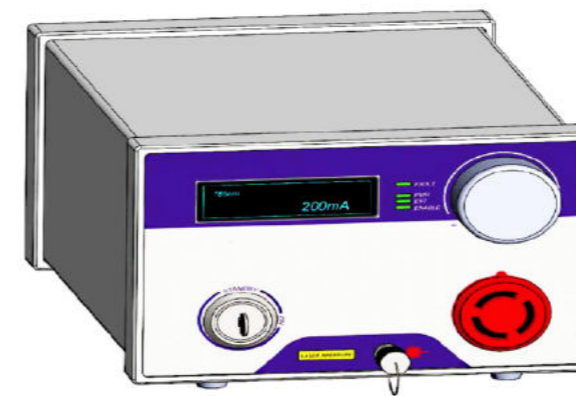
OUTLINE SIZE(mm)



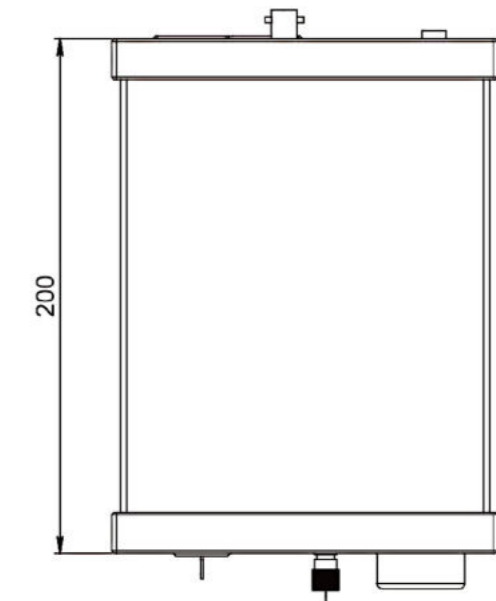
Rear View



Front View



Unit: mm

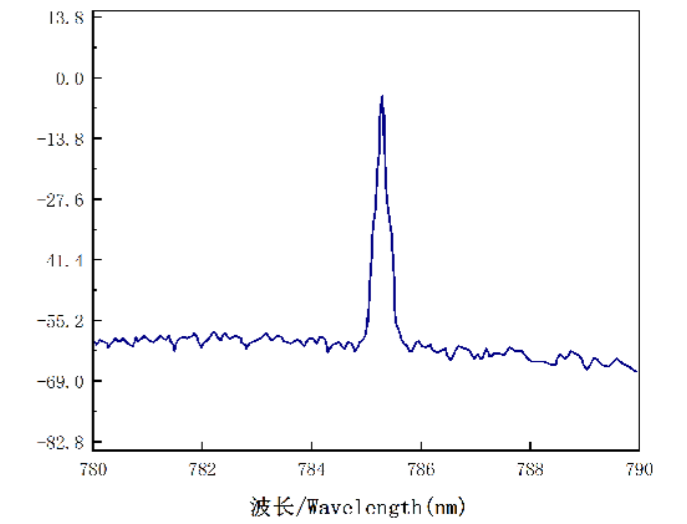


Top View

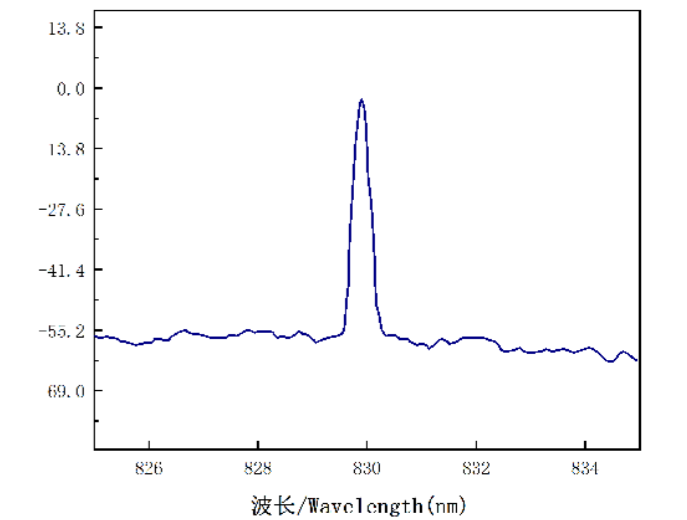


PARAMETER

Model	CL784-785-MIF(FP)-500-500mW-NLDM001	CL785/830-MIF(FP)-500/500mW-NLDM002	L785/1064-MIF(FP)-500/500mW-NLDM003	
Central Wavelength (nm)	785/784	785/830	785/1064	
Output Power (mW)	> 500 (each wavelength)	> 500 (each wavelength)	> 500 (each wavelength)	
Wavelength Tolerance (nm)	± 0.5	± 0.5	± 0.5	
Optical Parameter	Line Width (nm)	<0.1	<0.1	<0.1
	Wavelength Stability	± 0.005nm @ 8H Typ	± 0.005nm @ 8H Typ	± 0.005nm @ 8H Typ
	Power Stability	±1.0%@8H	±1.0%@8H	±1.0%@8H
	Side Mode Rejection Ratio (dB)	40	40	40
	Power Adjustment Range	0~100%	0~100%	0~100%
Preheat Time (Min)	15	15	15	
Modulation Input	1KHz TTL or Analog signal0-5V	1KHz TTL or Analog signal0-5V	1KHz TTL or Analog signal0-5V	
Control Interface	USB, BNC	USB, BNC	USB, BNC	
Fiber Interface	FC/PC	FC/PC	FC/PC	
Adapted Fiber	105μm, 0.22NA	105μm, 0.22NA	105μm, 0.22NA	
System Parameter	Power Input	100-240VAC, 50/60Hz	100-240VAC, 50/60Hz	100-240VAC, 50/60Hz
	System Power Consumption (W)	<7	<7	<7
	Storage Humidity (RH)	0~80%	0~80%	0~80%
	Storage Temperature (°C)	0~60	0~60	0~60
	Operating Temperature (°C)	10~35	10~35	10~35
	System Weight (Kg)	2.5	2.5	2.5
	System Size (mm)	150 × 102 × 200	150 × 102 × 200	150 × 102 × 200



785nm激光光谱图 (边模抑制比>40dB)
785nm laser spectrum (Side mode suppression ratio> 40dB)



830nm激光光谱图 (边模抑制比>40dB)
830nm laser spectrum (Side mode suppression ratio> 40dB)

