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Narrow Linewidth Laser System



Narrow linewidth laser system is a featured product series of ReallLight Technology. The system features compact Structure, portable design and uses Volume bragg gratings (VBG) locking wavelength perfectly, PD feedback and built-in semiconductor cooling element can help ensure excellent power stability and narrow spectral bandwidth output.

Key Features

- ◆ Narrow Linewidth<0.1nm (FWHM)
- ◆ Excellent wavelength stability±0.005nm@8H
- ◆ SMSR is better than 40dB
- ◆ Temperature Stabilized Spectrum (< 0.007nm/°C)
- ◆ Built-in TEC, excellent power stability ±1%
- ◆ Contains PC control, emergence stop button, short circuit protection functions

Standard Wavelengths

- 532nm
- 785nm
- 830nm
- 976nm
- 1064nm

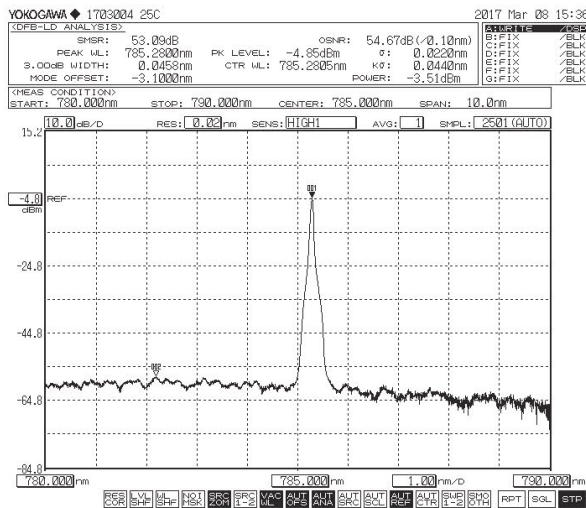
Applications

Raman spectroscopy

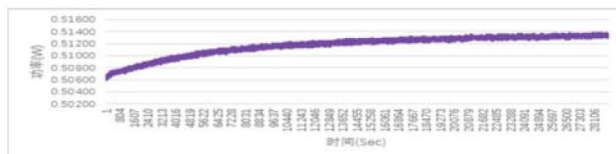
Fluorescence spectrum

Holographic

Up-conversion materials



785nm Laser Spectrum

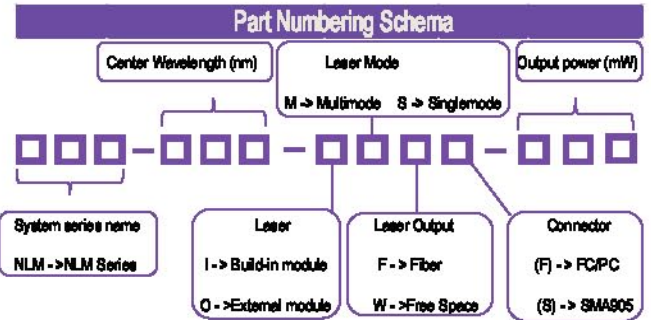


785nm Power Stability@8H

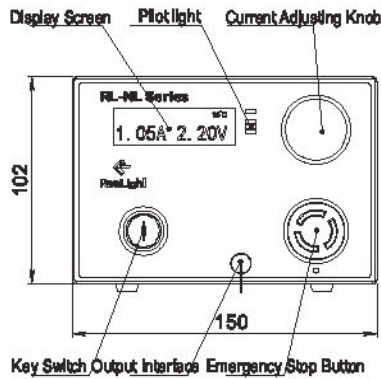
Optical Parameters					
Center Wavelength(nm)	532	785	830	976	1064
Output Power(mW)	50	500	500	500	500
Wavelength Tolerance(nm)	±0.5				
Linewidth (nm)	<0.1				
Wavelength Stability	±0.005 nm @8H				
Power Stability	±1.0% @8H				
SMSR	40dB				
System Parameters					
Adjustability%full Power	0~100%				
Warm up Time	15 min				
Modulation Input	1 KHz TTL or analog signal 0~5V				
Control Interface	USB,BNC				
Connector	SMA905 , FC/PC				
Output Fiber	105µm , 0.22 NA				
Supply Voltage	100~240VAC,50/60Hz				
Power Consumption	<7 W				
Storage Temperature	-10~60 °C				
Storage Humidity	0~80% RH				
Operating Temperature	10~35 °C				
Weight	2.2 Kg				
Dimensions	150X102X200 mm				

Ordering Information

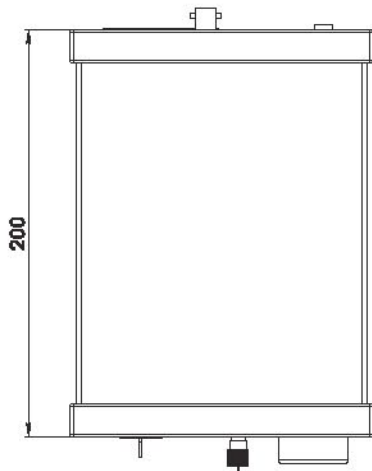
NLM Series Model List			
Wavelength(nm)	Power (mW)	Part Number	Connector
632	50	NLM-532-IMF(S)-050	SMA905
	50	NLM-532-IMF(F)-050	FC/PC
785	500	NLM-785-IMF(S)-500	SMA905
	500	NLM-785-IMF(F)-500	FC/PC
830	500	NLM-830-IMF(S)-500	SMA905
	500	NLM-830-IMF(F)-500	FC/PC
976	500	NLM-976-IMF(S)-500	SMA905
	500	NLM-976-IMF(F)-500	FC/PC
1064	500	NLM-1064-IMF(S)-500	SMA905
	500	NLM-1064-IMF(F)-500	FC/PC



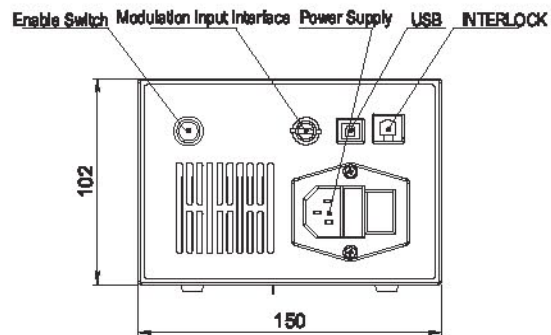
Mechanical Specifications



Front View



Top View



Back View



Unit: mm