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Narrow Linewidth Laser System



Narrow linewidth laser system is a featured product series of Reallight 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 <math>< 0.1\text{nm}</math> (FWHM)
- Excellent wavelength stability $\pm 0.005\text{nm}@8\text{H}$
- SMSR is better than 40dB
- Temperature Stabilized Spectrum ($< 0.007\text{nm}/^\circ\text{C}$)
- Built-in TEC, excellent power stability $\pm 1\%$
- Contains PC control, emergency stop button, short circuit protection functions

Standard Wavelengths

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

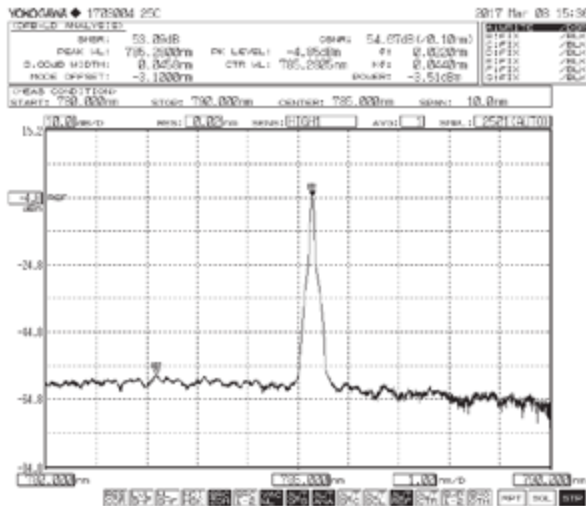
Applications

Raman spectroscopy

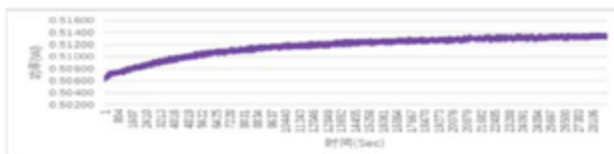
Fluorescence spectrum

Holographic

Up-conversion materials



785nm Laser Spectrum

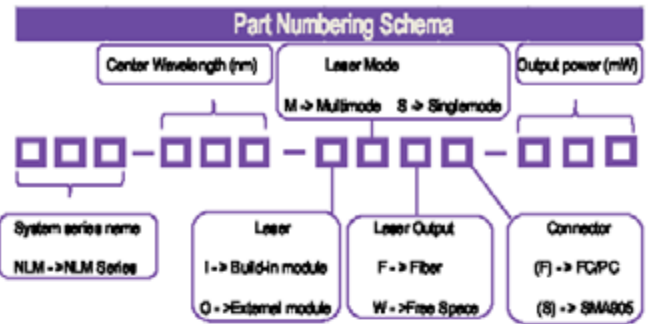


785nm Power Stability@8H

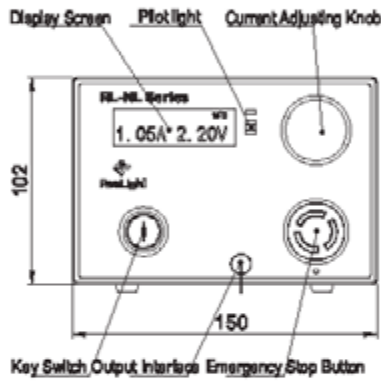
Optical Parameters					
Center Wavelength(nm)	532	785	830	976	1064
Output Power(mW)	50	500	500	500	500
Wavelength Tolerance(nm)	± 0.5				
Linewidth (nm)	< 0.1				
Wavelength Stability	$\pm 0.005\text{ nm}@8\text{H}$				
Power Stability	$\pm 1.0\% @8\text{H}$				
SMSR	40dB				
System Parameters					
Adjustability%full 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	105 μm , 0.22 NA				
Supply Voltage	100~240VAC,50/60Hz				
Power Consumption	$< 7\text{ W}$				
Storage Temperature	$-10\sim 60\text{ }^\circ\text{C}$				
Storage Humidity	0~80% RH				
Operating Temperature	$10\sim 35\text{ }^\circ\text{C}$				
Weight	2.2 Kg				
Dimensions	150X102X200 mm				

Ordering Information

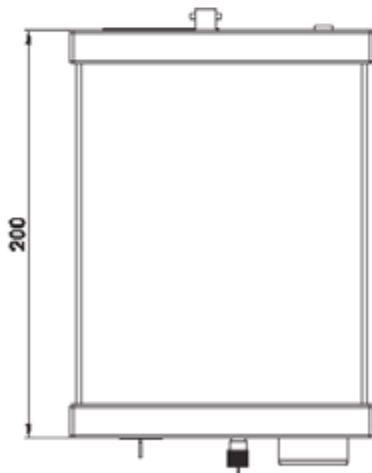
NLM Series Model List			
Wavelength(nm)	Power (mW)	Part Number	Connector
632	50	NLM-632-IMF(S)-050	SMA905
	50	NLM-632-IMF(F)-050	FC/PC
786	500	NLM-785-IMF(S)-500	SMA905
	500	NLM-785-IMF(F)-500	FC/PC
830	500	NLM-830-IMF(S)-500	SMA905
	500	NLM-830-IMF(F)-500	FC/PC
978	500	NLM-976-IMF(S)-500	SMA905
	500	NLM-976-IMF(F)-500	FC/PC
1084	500	NLM-1064-IMF(S)-500	SMA905
	500	NLM-1064-IMF(F)-500	FC/PC



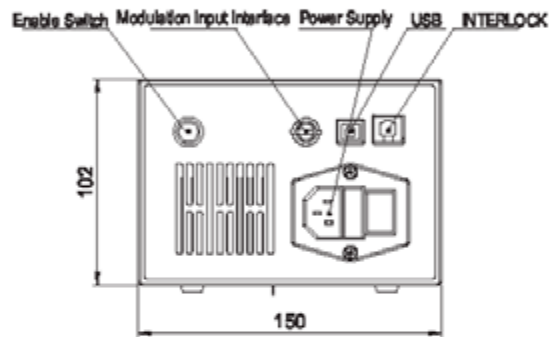
Mechanical Specifications



Front View



Top View



Back View



Unit: mm