



# Electro Optical Components, Inc.

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## Dual Wavelength Narrow Linewidth Laser System



Dual wavelength narrow linewidth laser system is Reallight's speciality product, it provides two wavelengths from one single fiber. 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

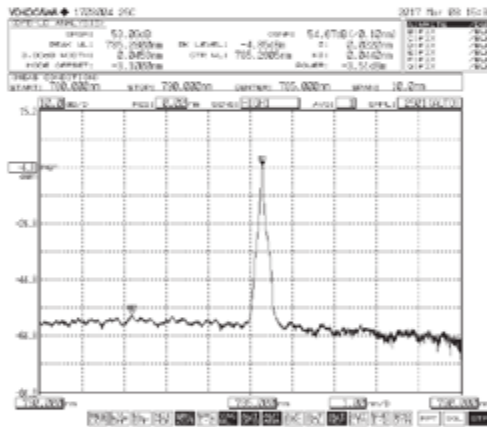
- Narrow Linewidth <math>< 0.1\text{nm}</math> (FWHM)
- Excellent wavelength stability  $\pm 0.005\text{ nm}@8\text{H}$
- Dual wavelength output from single fiber
- Temperature Stabilized Spectrum ( $< 0.007\text{nm}/^\circ\text{C}$ )
- Excellent power stability  $\pm 1\%$
- Contains PC control, emergence stop button, short circuit protection functions

### Standard Wavelengths

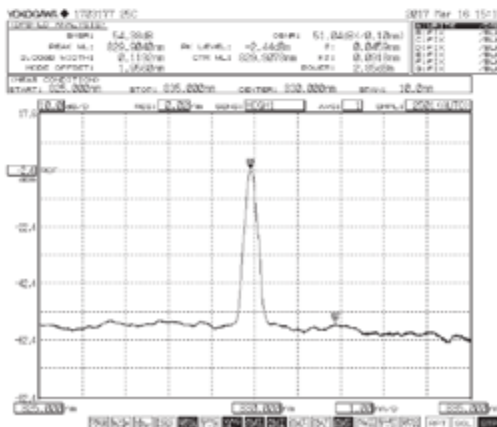
- 784 / 785nm      • 785 / 830nm
- 785 / 1064nm

### Applications

- Confocal Microscope      Raman spectroscopy
- Super resolution microscopy      Bioinstrumentation

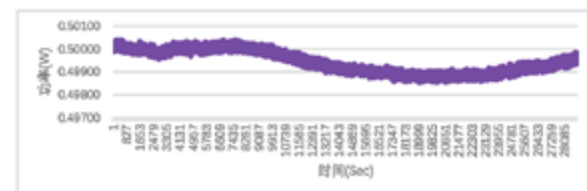


785nm Laser Spectrum



830nm Laser Spectrum

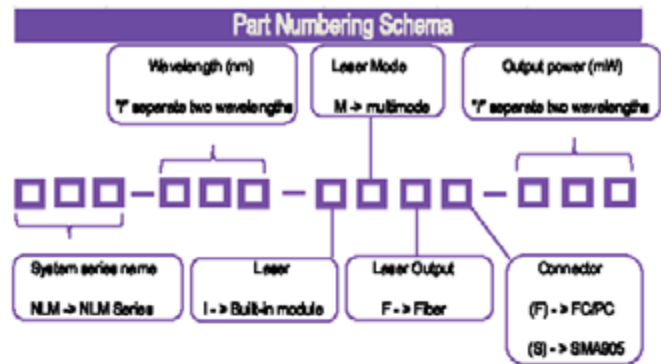
Optical Parameters			
Center Wavelength(nm)	784/785	785/830	785/1064
Output Power(mW)	>500 (each wavelength)		
Wavelength Tolerance(nm)	$\pm 0.5$ (each wavelength)		
Linewidth (nm)	<math>< 0.1</math> (each wavelength)		
Wavelength Stability	$\pm 0.005\text{ nm}@8\text{H}$		
Power Stability	$\pm 1.0\% @8\text{H}$		
SMSR	40dB		
System Parameters			
Adjustability%full Power	0~100%		
Warm up Time	15 min		
Modulation Input	1 KHz TTL or analog0~5V		
Control Interface	USB,BNC		
Connector	SMA905, FC/PC		
Output Fiber	105 um, 0.22 NA		
Supply Voltage	100-240VAC,50/60Hz		
Power Consumption	<math>< 7\text{ W}</math>		
Storage Temperature	$-10\text{--}60^\circ\text{C}$		
Storage Humidity	0~80% RH		
Operating Temperature	$10\text{--}35^\circ\text{C}$		
Weight	2.5 Kg		
Dimensons	150X102X200 mm		



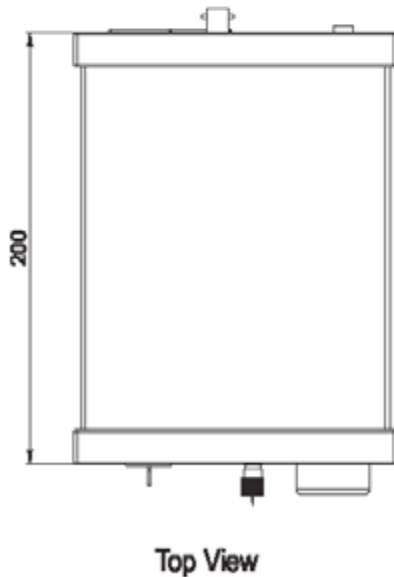
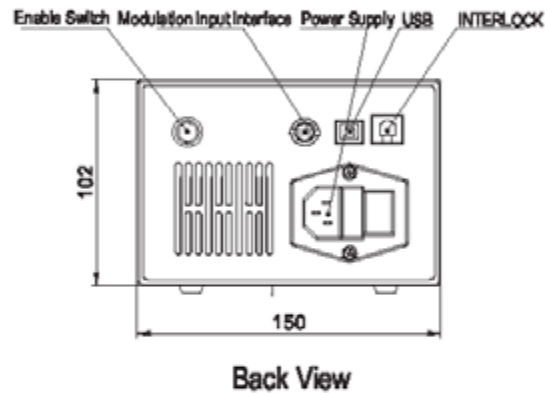
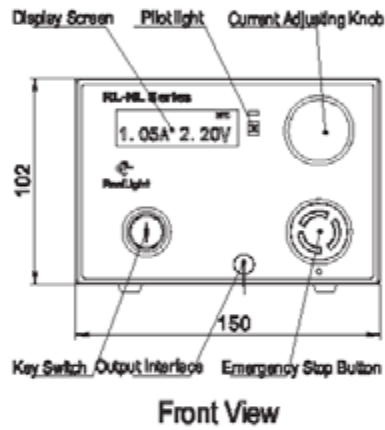
785nm Power Stability@8H

## Ordering Information

NLM Series Model List			
Wavelength(nm)	Power (mW)	Part Number	Connector
784/785	500/500	NLM-784/785-IMF(S)-500/500	SMAG05
784/785	500/500	NLM-784/785-IMF(F)-500/500	FCPC
785/830	500/500	NLM-785/830-IMF(S)-500/500	SMAG05
785/830	500/500	NLM-785/830-IMF(F)-500/500	FCPC
785/1064	500/500	NLM-785/1064-IMF(S)-500/500	SMAG05
785/1064	500/500	NLM-785/1064-IMF(F)-500/500	FCPC



## Mechanical Specifications



Unit: mm