



# Electro Optical Components, Inc.

5460 Skylane Boulevard, Santa Rosa, CA 95403

Toll Free: 855-EOC-6300

[www.eoc-inc.com](http://www.eoc-inc.com) | [info@eoc-inc.com](mailto:info@eoc-inc.com)



## 633nm Narrow Linewidth Laser System



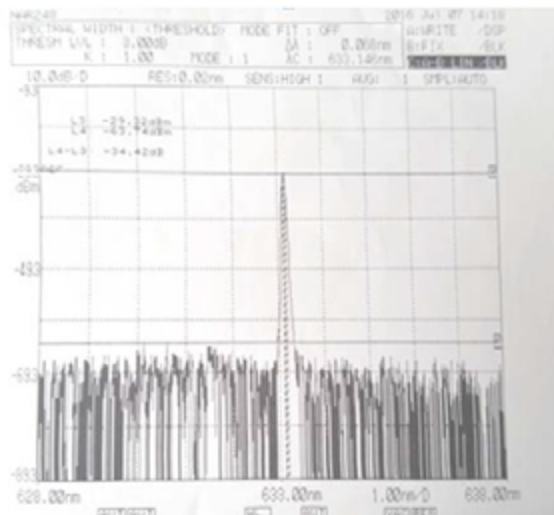
633nm is currently one of the most widely used standard wavelengths, Reallight latest 633nm narrow linewidth laser system uses Volume bragg gratings (VBG) locking wavelength to ensure excellent spectral and power stability. Compared with He-Ne laser it also has a small structure, power continuously adjustable and other advantages, which make it easy to replace traditional He-Ne laser in many fields. Both free space and fiber pigtailed output are available.

### Key Features

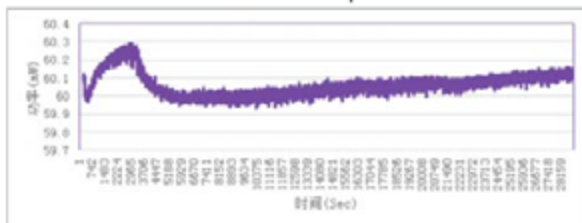
- Narrow linewidth < 0.07nm (FWHM)
- Excellent wavelength stability  $\pm 0.005$  nm @ 8H
- Temperature Stabilized Spectrum (< 0.007nm/°C)
- Built-in TEC, excellent power stability  $\pm 1%$  @ 8H
- Contains PC control, short circuit protection functions

### Applications

- Confocal Microscope
- Raman spectroscopy
- Fluorescence spectrum
- Laser Particle Analyzer
- HeNe Replacement



633nm Laser Spectrum

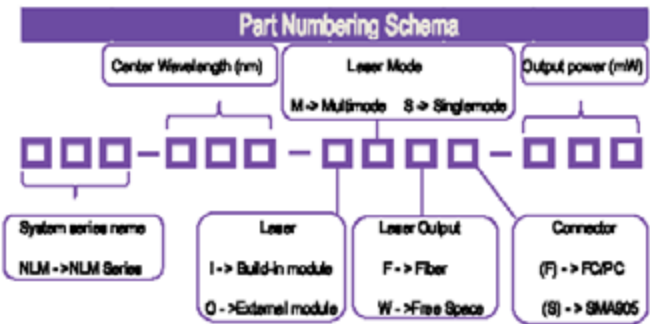


633nm Power Stability @ 8h

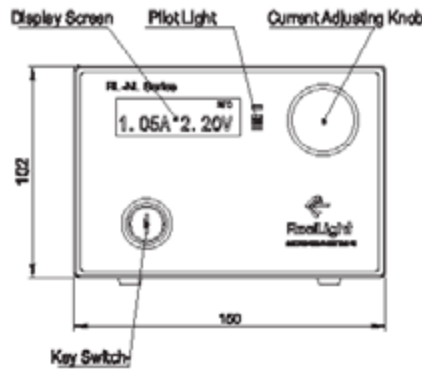
Optical Parameters		
System Model	NLM-633-BF	NLM-633-OSW
Output Power(mW)	20-50 (Singlemode, Multimode)	
Wavelength Tolerance(nm)	$\pm 0.5$	
Linewidth (nm)	< 0.1	
Wavelength Stability	$\pm 0.005$ nm @ 8H	
Power Stability	$\pm 1.0%$ @ 8H	
SMR	40dB	
Beam Diameter	-	1.3x0.7mm
Beam Divergence	-	< 1.5 mrad
System Parameters		
Adjustability% Full Power	0-100%	
Warm up Time	15min	
Modulation Input	1 KHz TTL or analog signal 0-5V	
Control Interface	USB, BNC	
Connector	SMA905, FCPC	Free Space
Output Fiber	105 $\mu$ m, 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	Power Supply 150X102X200 mm Laser Head 45X35X70 mm	

## Ordering Information

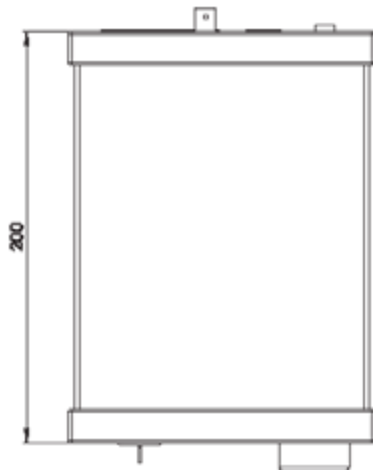
NLM Series Model List			
Wavelength(nm)	Power (mW)	Part Number	Connector
633	20	NLM-633-IS(F)-020	SMA905
	50	NLM-633-IM(F)-050	FC/PC
	50	NLM-633-OSW-050	Free Space



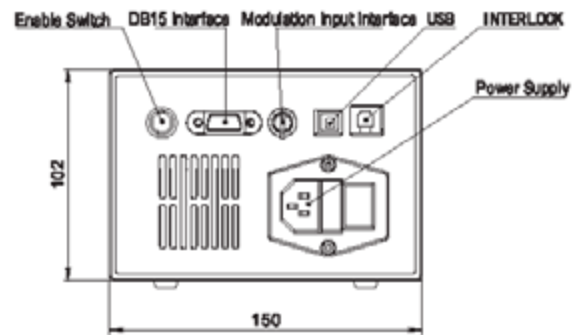
## Mechanical Specifications



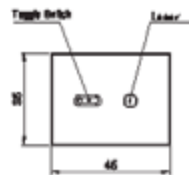
Power supply Front view



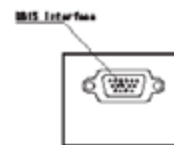
Power supply Top view



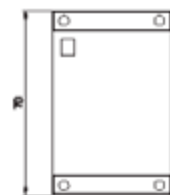
Power supply Back view



Laser Front view



Laser Back view



Laser Top view



Unit: mm