

NLMO Series Single Mode Narrow Linewidth Laser



Key Features

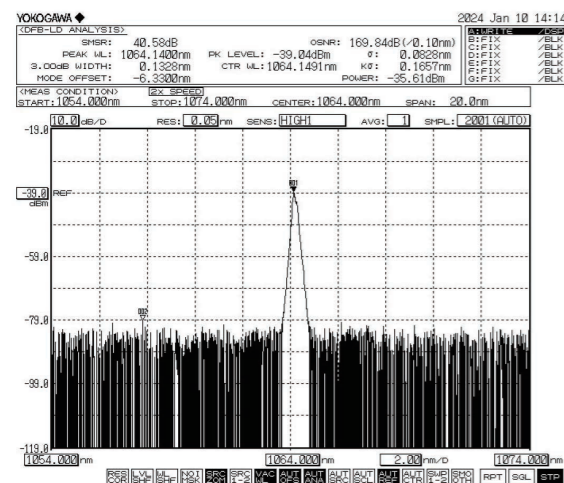
- ◆ Excellent wavelength stability $\pm 7\text{pm}@4\text{h}$
- ◆ Power stability $< \pm 2\%$
- ◆ Low power consumption, typical $< 5\text{W}$
- ◆ Compact design, easily integrated

Applications

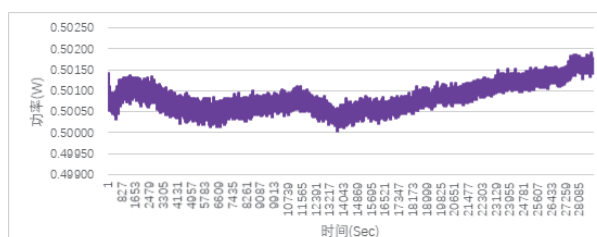
- Raman spectroscopy
- Laser-induced fluorescence

Technical Specifications

Optical Parameters		
Center Wavelength (nm)	785	1064
Output Power (mW)	100	350
Wavelength Tolerance (nm)	± 0.5	
Linewidth (nm)	< 0.1	
Wavelength Stability	$\pm 7\text{pm}@4\text{h Typ.}$	
Power Stability	$\pm 2\% @4\text{h Typ.}$	
SMSR	40dB	
System Parameters		
Adjustability % Full Power	0~100%	
Warm up Time (min)	15	
Control Interface	PH2.0-10P , USB	
Supply Voltage	5VDC/2A	
Power Consumption	$< 5\text{W Typ.}$	
Storage Humidity	0~80% RH	
Storage Temperature ($^{\circ}\text{C}$)	0~55	
Operating Temperature ($^{\circ}\text{C}$)	10~35 (heat sink is required)	
Weight (g)	< 150	
Dimensions (mm)	76.2 \times 63.5 \times 22	



785nm laser spectrum (SMSR>40dB)

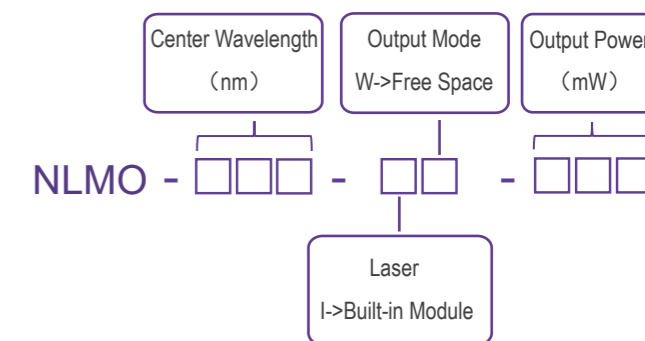


785nm power stability@4h

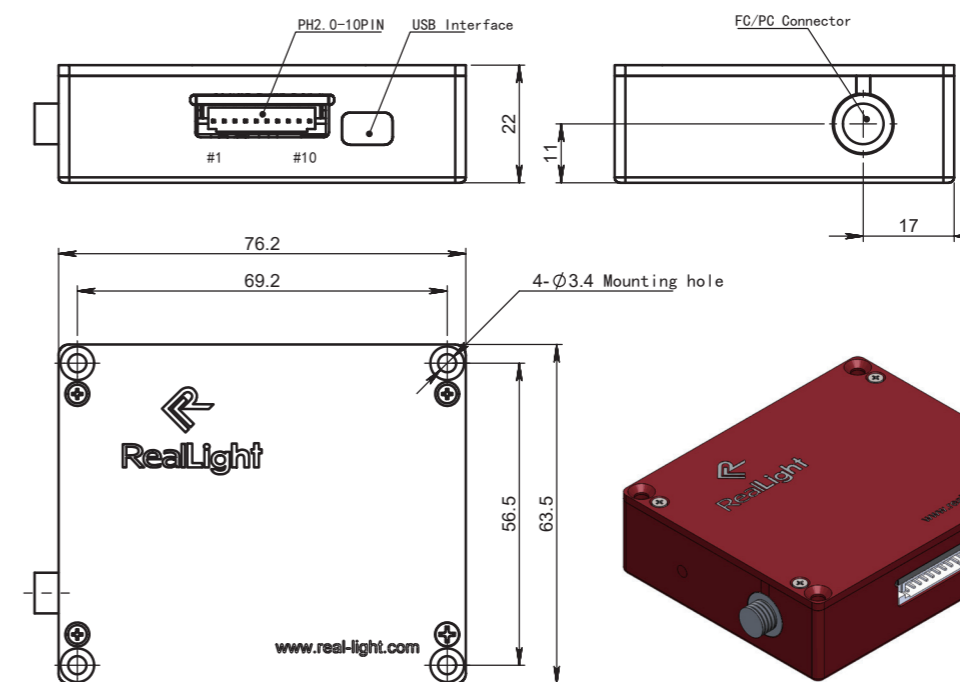
Ordering Information

Wavelength (nm)	Output Power (mW)	Part Number
785	100	NLMO-785-IW-100
1064	350	NLMO-1064-IW-350

Part Numbering Schema



Mechanical Drawings (mm)



Pin Descriptions		
PIN	Function	Description
1	NC	NC
2	VSET_ENABLE	Set to low-level to control power through PIN8, high-level or suspend to disable LD
3	GND	Input Power Ground
4	RTV	Rt signal level, 1.25V for 25 $^{\circ}\text{C}$
5	GND	Input Power Ground
6	+5V	5VDC/2A
7	LASER ENABLE	Set to high-level to enable the laser, low-level or suspend to disable LD
8	Power Control	Apply 0-1.2V to control output power (0-100% full power adjustability)
9	GND	Signal Ground
10	PDV	PD feedback signal, 0.5V for 100mW/350mW

