

# 1064nm Narrow Linewidth Laser



## DESCRIPTION

Narrow linewidth laser system is our special product. This series of products are compact in structure, portable and convenient. The core technologies such as short cavity method, VBG wavelength locking, directional optical feedback, built-in semiconductor refrigeration, etc. are used to realize narrow linewidth, stable power and stable spectral output of laser.

## FEATURES

- Line width <0.1nm
- Frequency stability better than  $\pm 0.005\text{nm}@8\text{H}$
- Side mode rejection ratio is better than 40dB (60dB optional)
- Portable operation, temperature drift  $<0.007\text{nm} / ^\circ\text{C}$ , VBG wave lock
- Built-in TEC, power stability is better than  $\pm 1.5\%$
- Including host computer control, emergency stop switch, short circuit protection and other functions

## APPLICATION

- Raman spectroscopy
- Fluorescence spectrum detection
- Holographic detection
- Up-conversion material

## PARAMETERS

Model	CL1064-MIF(S)-500mW-NLM014	CL1064-MIF(FP)-500mW-NLM015	
Optical Parameter	Central Wavelength (nm)	1064	1064
	Output Power (mW)	500	500
	Wavelength Tolerance (nm)	$\pm 0.5$	$\pm 0.5$
	Line Width (nm)	<0.1	<0.1
	Wavelength Stability	$\pm 0.005\text{nm}@8\text{H Typ.}$	$\pm 0.005\text{nm}@8\text{H Typ.}$
	Power Stability	$\pm 1.5\%@8\text{H Typ.}$	$\pm 1.5\%@8\text{H Typ.}$
	Side Mode Rejection Ratio (dB)	40	40
	Power Adjustment Range	0~100%	0~100%
	Preheat Time (min)	15	15
	Modulation Input	1kHz TTL Or Analog signal 0-5V	1kHz TTL Or Analog signal 0-5V
System Parameter	Control Interface	USB, BNC	USB, BNC
	Fiber Interface	SMA905	FC/PC
	Adaptive Optical Fiber	105um,0.22NA	105um,0.22NA
	Power Input	100V-240V 50/60Hz	100V-240V 50/60Hz
	System Power Consumption (W)	<7	<7
	Storage Temperature ( $^\circ\text{C}$ )	-10~60	-10~60
	Storage Humidity	0~80%	0~80%
	Operating Temperature ( $^\circ\text{C}$ )	10~35	10~35
	System Weight (Kg)	2.5	2.5
	System Size (mm)	150 x 102 x 200	150 x 102 x 200

## OUTLINE SIZE(mm)

