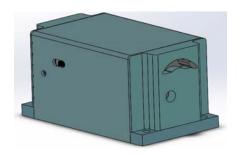


Free Space Diode Module



Key Features

- Plug & Play
- · High power stability
- LD Current Full Protection
- LD Temperature Stabilized
- High Speed Modulation
- Low noise
- Excellent beam profile
- USB or Local control

Applications

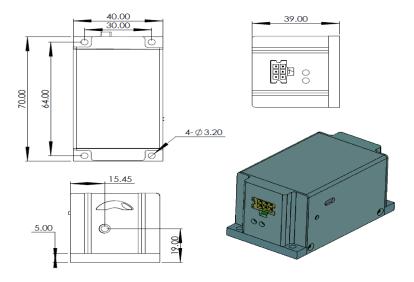
- Confocal Microscopy
- Biomedicine Research
- Inspection & Metrology
- Analytical Instruments
- Holography
- Basic R&D

The free space laser module is a temperature stabilized diode laser. It integrated thermoelectric cooler, modulation, protection electronics in a compact package.

Module features very low M^2 value Gauss beam output with excellent beam pointing stability at a wide temperature dynamic range. The special designed electrical driver enable this optical engine has the lowest power consumptions compare to the similar product in the industry.

This component does not comply with the Federal Regulations (21 CFR Subchapter1) as administered by the Center for Devices and Radiological health. Purchaser acknowledges that his/her products must comply with these regulations before they can be sold to a customer. The output light from this product is harmful to a human body even if it is invisible. Avoid looking at the output of this product directly, or through a lens during operation. Observance of operation should be through a TV camera or related equipment. Refer to IEC 825-1 and 21 CFR 1040.10-1040.11 as a radiation safety standard for laser products.

Dimensions Diagram



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Specifications

Optical Performance	Condition	Min	Тур	Max	Unit		
Wavelength	T=25 °C	Refer to wavelength list			nm		
Output Power	T=25 °C, CW	Refer to wavelength list			mW		
Mode		TEM00					
Noise(RMS)	10 ~ 20MHz			0.3	%		
Power stability	8hrs @ T=25 °C		1		%		
Polarization Extinction Ratio	Vertical	20			dB		
Collimated Beam Parameters							
M2				~1.1			
Beam size	1/e ²	~2.0			mm		
Beam divergence	Full angle			1	mrad		
Electronics							
Power Supply		5 / 12			V		
Power Consumption			3	10	W		
Current(TEC)				2	А		
Current(LD)				500	mA		
Temperature Stability			0.2		°C		
Control	Local / USB						
Power setting	0% ~ 100% output						
Environmental Conditions							
Storage Temperature		0		50	°C		
Operation Temperature		10		40	°C		
Operation Humidity	Non condensing						
Dimensions	105mmX69mmX39mm						

^{*}The mechanical tolerance should be +/-0.2mm on all package dimensions unless otherwise custom specified

Wavelength List

Wavelength	Power(mW)	Wavelength	Power(mW)	Wavelength	Power(mW)	Wavelength	Power(mW)
375nm	50	488nm	20, 60, 150	655nm	20	808nm	50,100
395nm	100	495nm	50	660nm	50,100	830nm	50, 100
405nm	100, 250,400	505nm	50	670nm	10	840nm	50
415nm	100	515nm	50,120	685nm	40	850nm	50, 100
421nm	100	520nm	50,80	690nm	20	880nm	10
445nm	80,400	633nm	100	705nm	30	905/915nm	100, 200
456nm	50, 100	638nm	40,100,150	730nm	30	940nm	200,300
473nm	100, 250	640nm	40, 100	785nm	50,100,200	980nm	100, 200

Ordering Information

For more information of our products, please contact factory directly or your local distributor via E-mail or phone.

