

High Power Single Mode 1550nm Laser

(Up to 10W SM or 5W PM, Benchtop)



The HPSL High Power Single Mode Laser is a user-friendly benchtop unit that delivers up to 10W single mode and 5W polarization Maintain stable laser output at 1550nm. The output is in constant power (CW). The spectral width can be selected as broadband, 10nm, and 0.03nm. The output is a fiber as standard and high power connector or collimator are options. It has a front power control knob and USB computer interface. An emission switch adds safety.

Features

- Low Cost
- High Reliability
- High Power
- Single Mode
- USB
- Turn-Key Benchtop

Applications

- Lab
- OEM
- Sensor
- Instrumentation

Specifications

Parameters	Min	Typical	Max	Unit
Operation Wavelength	1545	1550	1575	nm
Operation Mode		CW		
Output Power *	0.2		10	W
Bam Quality	1.1	1.2	1.3	M2
Spectral Linewidth		4	40	nm
Polarization Extinction Ratio	18	26	35	dB
Output Power Adjust Range	10		100	%
Output Power Stability (within 48 hr)		± 2	± 5	%
Operating Temperature	-5		35	°C
Storage Temperature	-40		85	°C
Electrical Power Consumption			150	W
Power Input	110		120	VAC
Computer Interface	USB			
Package Dimension				

* PM output maximum is 5W



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Operation Manual

- Plug AC power
- Turn ON The Power Switch
- The Laser Can be Controlled By a Computer via The USB/GUI Interface
- Turn On The Emission Switch

For Manual Operation (option)

- Adjust The Output Power to Minimum by Turning The Knob All Way Counter Clockwise
- Increase The Out Put Power by Turning The Knob Clockwise

Special Feature

- To Modulator The Laser, Turn On The Modulation Switch at the Back, Input a 0-5V Modulation Signal Via The BNC Connector

Mechanical Dimension

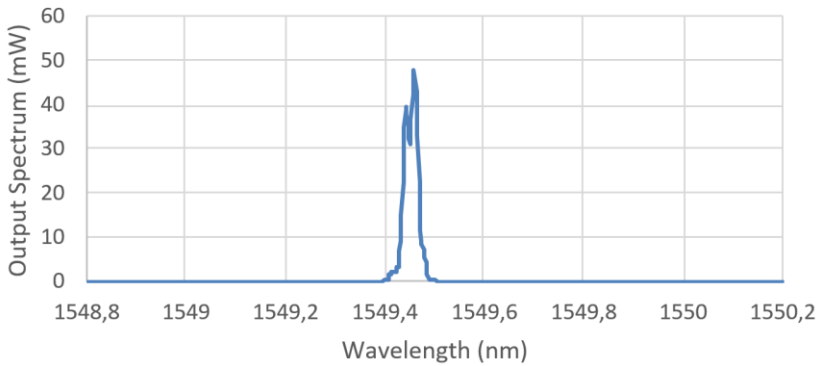
*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

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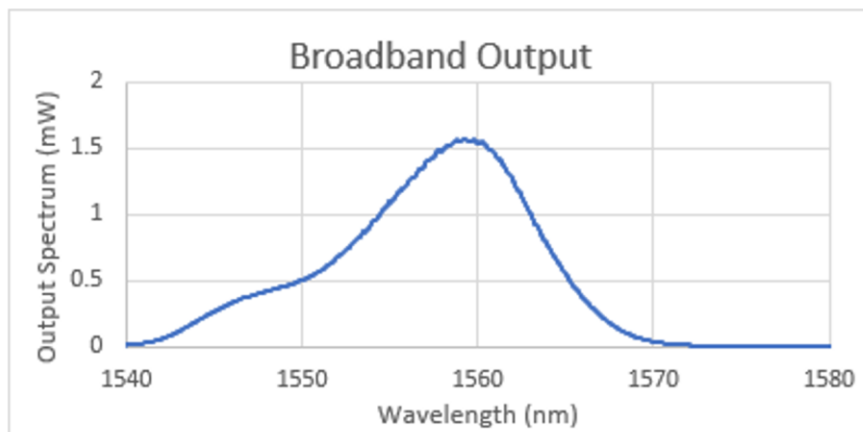
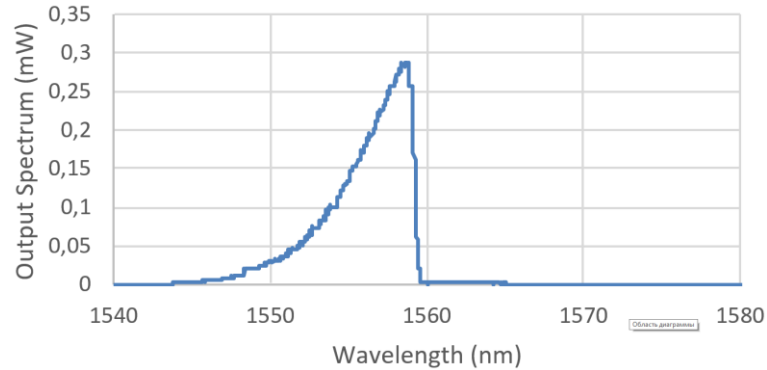
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Typical Spectrum

3dB Bandwidth: 0.032nm



3dB bandwidth: 4nm



Ordering Information

Prefix	Wavelength	Output Power	Mode ^[1]	Spectral Width	Power Supply	Interface	Output ^[2]	Front Control
HPSL	1550nm = 5	10W = 10 5W = 05 2W = 03 1W = 01 Special = 00	Random = 1 PMER18dB = 2 PMER25dB = 3 PMER30dB = 4	Broad = 1 4nm = 2 Special = 0	120-220V = 1	USB = 1 RS232 = 2	Bare Fiber = 1 FC/PC = 2 High-Power FC/PC = 2 Special = 0	Non = 1 Yes = 2 Special = 0

[1] PMER- Polarization Maintaining Extinction Ratio

[2] Regular FC/PC is temporary that will burn. High-Power FC/PC must mate with the same High-Power FC/PC (we make patch cable)

Red is Special Order

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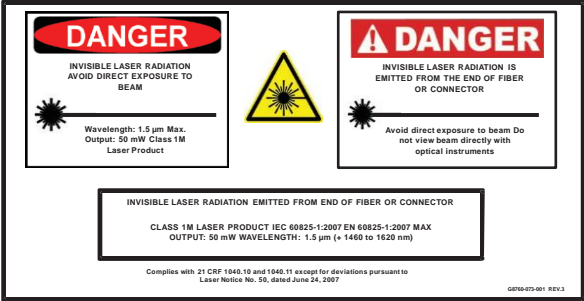
USB Command List

Laser Safety

This product meets the appropriate standard in Title 21 of the Code of Federal Regulations (CFR). FDA/CDRH Class 1M laser product. This device has been classified with the FDA/CDRH under accession number 0220191. All versions of this laser are Class 1M laser products, tested according to IEC 60825-1:2007 / EN 60825-1:2007. An additional warning for Class 1M laser products. For diverging beams, this warning shall state that viewing the laser output with certain optical instruments (for example eye loupes, magnifiers, and microscopes) within a distance of 100 mm may pose an eye hazard. For collimated beams, this warning shall state that viewing the laser output with certain instruments designed for use at a distance (for example telescopes and binoculars) may pose an eye hazard.

Wavelength = 1.3/1.5 μ m.

Maximum power = 30 mW.



*Caution - Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
 *IEC is a registered trademark of the International Electrotechnical Commission.



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Questions and Answers

Q: