



**Narrow Linewidth  
532nm DPSS Laser**



**LASER DIODE SOURCE**  
part of the Laser Lab Source Group

[LaserDiodeSource.com](http://LaserDiodeSource.com) | [LaserLabSource.com](http://LaserLabSource.com) | [LaserDiodeControl.com](http://LaserDiodeControl.com)

**TECHNICAL SUPPORT & SALES IN NORTH AMERICA**

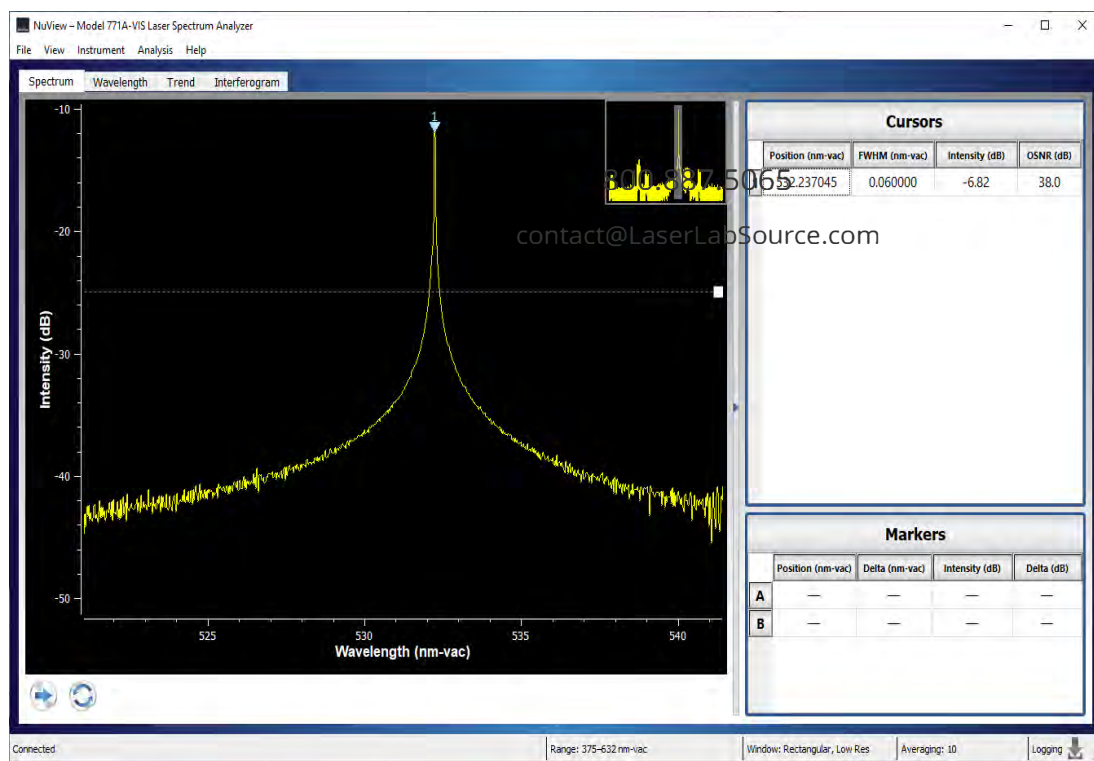
800.887.5065

[contact@LaserLabSource.com](mailto:contact@LaserLabSource.com)

1820 W. Lincoln Street  
Bozeman, MT, 59715



## 532nm High Beam Quality, Narrow Linewidth DPSS Laser



The DLA493173 / 532NM-LASER-MODULE is a turn-key, high beam quality 532nm DPSS green laser module which delivers up to 200mW of low noise laser output power. These narrow linewidth lasers offer excellent beam quality and are designed for demanding R&D and system applications that require low noise and high extinction ratio performance. They offer user adjustable output power, a USB interface (RS232 optional) with GUI control software. These modules are also offered at other maximum output powers. The standard model is 200mW.

The included PowerBox power supply module and the control software make set-up and operation of this laser quick and simple. The standard control interface is USB (RS232 optional). These lasers have a wide range of options including a mechanical shutter and a fiber coupled output adapter. All operating parameters can be set, monitored and controlled from your PC using the included L-tune laser control software. Labview and Python code libraries are also available. Please request the Operating Manual for a detailed description of the communication protocols.

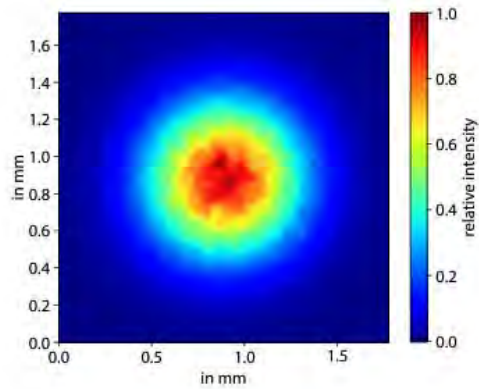
800.887.5065

contact@LaserLabSource.com

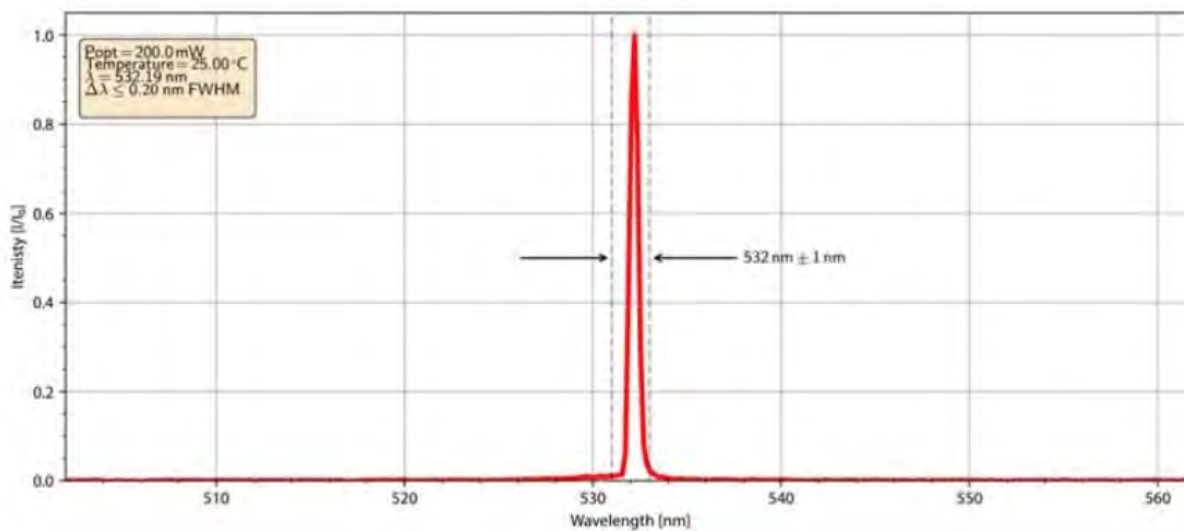
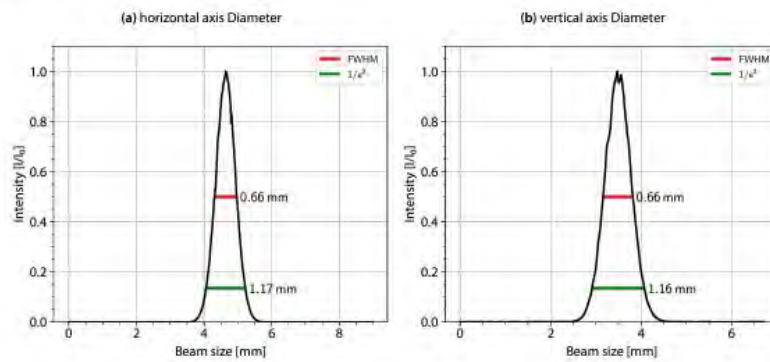
01/2023 V3.0

Wavelength: 532.19 nm  
Max. output power: 200.0 mW  
Measurement power for test report: 200.0 mW

### 3D-Beam profile



### 2D-Beam profile



800.887.5065

contact@LaserLabSource.com

## SPECIFICATIONS

### LASER OUTPUT SPECIFICATIONS

- Center Wavelength: 532 nm ( $\pm$  1 nm)
- Spectral Linewidth: < 0.2 nm
- User Adjustable Output Power: 0 - 200 mW
- Gaussian intensity profile: TEM00
- Linear Polarization: > 10:1
- Beam Alignment: < 5 mrad and < 0.1 mm (compared to base mount)
- Pointing Stability: < 5  $\mu$ rad/K
- Noise:  $\pm$  1 % (RMS)
- Power Stability:  $\pm$  2 % (8 hours)
- Beam Divergence: < 1.2 mrad
- Beam Diameter: Round Beam, 1.2 mm
- M<sup>2</sup> beam quality factor  $\sim$  1.1

### USB USER INTERFACE & SOFTWARE

- Control Interface: USB
- Control Software: L-Tune Software Included
- Control Software Interface: GUI Virtual Front Panel
- Also Included: LabView Integration Library, Python Integration Library

### OPTIONS

- Fiber Coupled Output (Request Model Number & Price)
- Opto-mechanical shutter
- Polarization > 10,000 : 1

### GENERAL SPECIFICATIONS

- Laser Head Dimensions: 63.5  $\times$  31.0  $\times$  32.5 mm (laser head)
- With PowerBox Control Unit Dimensions: 98.6  $\times$  31.0  $\times$  32.5 mm
- Weight 94 g (laser head)
- Weight 163 g (w/PowerBox)
- Operating Temperature: 0  $^{\circ}$ C to 45  $^{\circ}$ C (non-condensing)
- Storage Temperature: -25  $^{\circ}$ C to 70  $^{\circ}$ C
- CDRH Classification 3b

800.887.5065

contact@LaserLabSource.com

**Product Warranty:**

This product is offered with a 12 month warranty for all materials and workmanship, all parts and labor.



Advanced performance products  
for laser scientists and engineers.

---

[LaserDiodeSource.com](http://LaserDiodeSource.com) | [LaserLabSource.com](http://LaserLabSource.com) | [LaserDiodeControl.com](http://LaserDiodeControl.com)

---



800.887.5065

[contact@LaserLabSource.com](mailto:contact@LaserLabSource.com)

---

**Laser Lab Source**

a division of Research Lab Source Corporation | [www.LaserLabSource.com](http://www.LaserLabSource.com)