



**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**

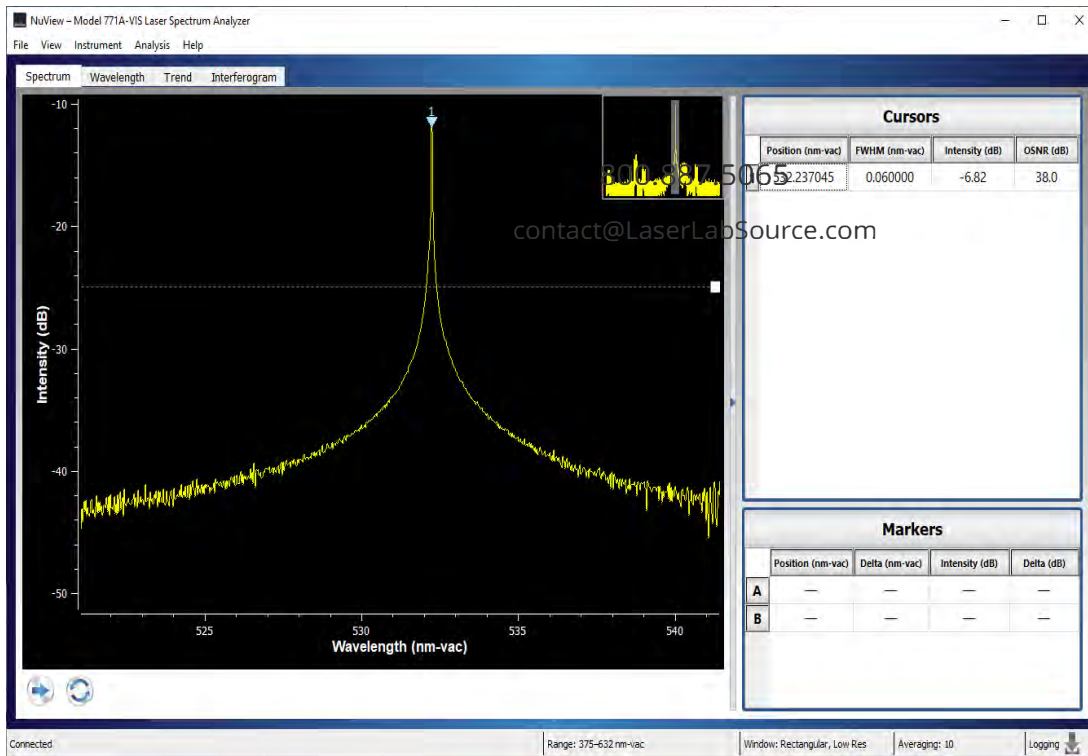
800.887.5065

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

1820 W. Lincoln Street  
Bozeman, MT, 59715



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



The DLA499131 / 532NM-LASER-MODULE is a turn-key, fiber-coupled 532nm DPSS green laser module which delivers up to 70mW 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 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.

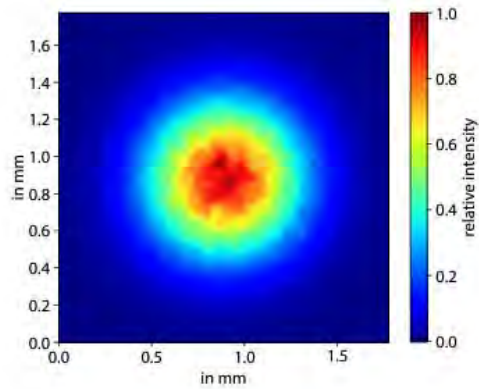
800.887.5065

contact@LaserLabSource.com

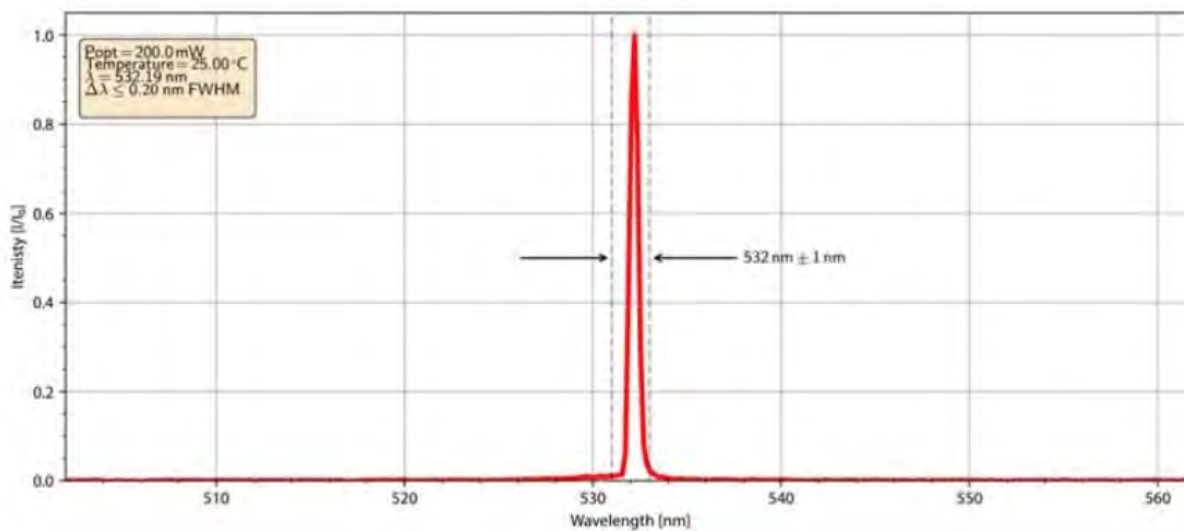
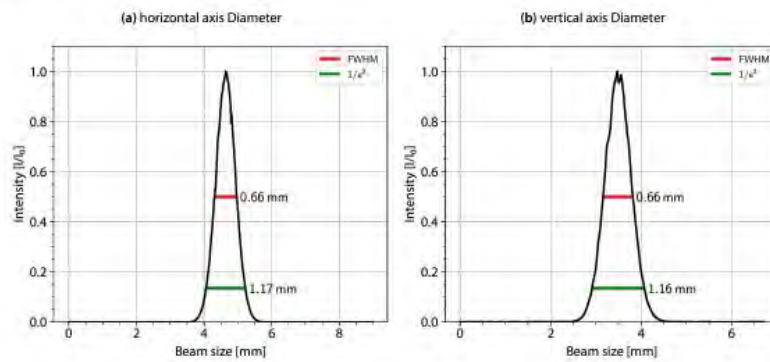
01/2023 V3.0

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 DIODE OUTPUT

- Wavelength: 532 nm ( $\pm$  1nm)
- User Adjustable Output Power Range: 0 ~ 70 mW
- Power Stability: 1% (10 hours)
- Beam Diameter: 1.1  $\times$  2.2 mm to 1.2  $\times$  4.3 mm (customized on request)
- Beam Alignment: < 5 mrad and < 0.1 mm (relative to base mount)
- Beam Mode: TEM00
- Polarization: Linear > 100:1
- Beam Alignment: < 5 mrad and < 0.1 mm
- Pointing stability: < 5  $\mu$ rad/K
- Temperature Control Accuracy: < 10 mK
- Warm-Up Time: 5 seconds
- Modulation: Analog & Digital External Modulation DC to 1.5 MHz
- Drive Mode: Active Current Control (ACC)
- Mode Field Diameter: 4.0 $\mu$ m  $\pm$ 0.5 $\mu$ m at 532nm

### GENERAL

- Dimensions: 63.5  $\times$  31.0  $\times$  32.5 mm (laser head)
- 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, (4 for laser output > 500 mW)

### USER CONTROL MODES (BY USB):

- Laser Output Power Set-Point (User Adjustable)
- Laser Temperature Set-Point (User Adjustable)
- Modulation

### FIBER AND CONNECTOR

- Polarization Maintaining (PM) Fiber
- FC/APC Connector

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)