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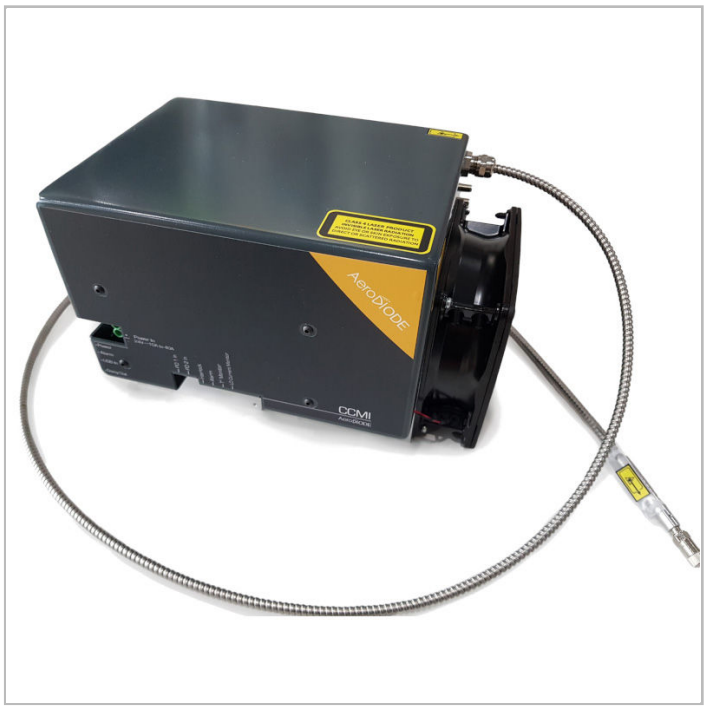
LASER LAB SOURCE

manufactured by AeroDIODE

808nm Diode Laser Source, 100W CW Multi-Mode Output



808NM 100W LASER DIODE SOURCE

- Output Power: 100 W
- Turn-Key, USB-Connected Operation
- Spectral Width (FWHM): 4.0 nm
- SMA Fiber Termination

Laser Lab Source
a division of Research Lab Source Corporation

www.LaserLabSource.com
phone: 800-887-5065

670 South Ferguson
Bozeman, MT 59718

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CW LASER SOURCE SYSTEM -- 808LD-5-4-2 / LASER-DIODE / CCMI

This 100 Watt, 808nm, CW source system is built around a highly reliable fiber-coupled laser diode. The system is preconfigured and pretested, and is delivered ready-to-run.

The CCMI laser source system features closed-case construction: the laser, heat-sink, and controller electronics are contained in an enclosed case to help protect the laser diode and direct the cooling air from the automatic fan. The source system is easily operated using the included GUI over USB interface, and multiple systems can be operated by the same computer.

LASER DIODE CONTROLLER SPECIFICATIONS

- Current Range: 0 - 21Amps
- Compliance Voltage Range: 0 - 36 Volts
- Current Stability: < 0.05%
- Laser Diode Set-Point Adjustment Resolution: 0.05 Amps
- Max. Modulation Rate: 100 kHz

TEC CONTROLLER

- Temperature Control Range (typ): 15 - 40°C
- Temperature Stability (typ): 10 mK
- TEC Power: > 150 Watts

MODULATION SPECIFICATIONS

- Pulse Duration: 10 µs to CW (External Source)
- Trigger: External Only
- Externally Adjustable CW Offset in Pulse Mode

USER INTERFACE AND POWER INPUT

- USB with GUI Software
- Includes Control Software Libraries : DLLs, Hexa, Labview VI
- Power Supply *: 24 VDC (input 110/230 VAC, 50/60 Hz)
- * Power Supply Not Included. Inquire for Recommendations.

DIMENSIONS

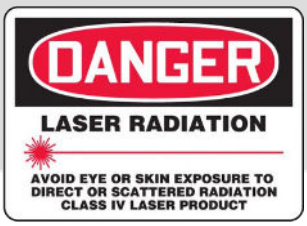
- 238 mm x 146 mm x 142.5 mm

LASER OUTPUT SPECIFICATIONS

- Wavelength: 808 nm (± 3 nm)
- Spectral Width: 4.0 nm
- Output Power: 100 W

Calibrated and Tested CW Laser Diode Source

Armored Fiber Jacket, SMA Fiber Termination
Integrated Closed-Case Construction
Multi-Mode Fiber-Coupled Output
Adjustable Output Power



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808NM MULTIMODE FIBER-COUPLED LASER DIODE

These lasers deliver up to 100 Watts of CW output power. The typical emission bandwidth is 4 nm, and the laser is coupled to multimode 200 µm fiber with NA = 0.22.

The specifications below are for the laser diode module that is integrated into the controller.

OPTICAL SPECIFICATIONS

- Wavelength: 808 nm (± 3 nm)
- Output Power: 100 Watts
- Spectral Width (FWHM): 4.0 nm
- Wavelength Shift w/ Temperature: 0.3 nm/°C
- Wavelength Shift w/ Current: 0.6 nm/A
- Case Operating Temperature Range: 15°C ~ 55°C

ELECTRICAL SPECIFICATIONS

- Operating Current: 9.5 Amps (typ) *
- Operating Voltage: 27.0 Volts (typ)
- Threshold Current: 1.5 Amps (typ)
- Slope Efficiency: 13 W/A
- Conversion Efficiency: 40%
- * For operating currents above 6 Amps, the electrical connections must be soldered.

PRODUCT SALES AND SERVICE:

Orders for this product are fulfilled by Laser Lab Source in North America and select international regions. It is manufactured by Aerodiode, Talence, France.

PRODUCT WARRANTY:

This product is sold with a full one-year warranty. It is warrantied to be free from defects in material and/or workmanship for a period of one year from the date of shipment.

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