



Offered by  
**LASER LAB SOURCE**

manufactured by **AeroDIODE**

## 1064nm 9W CW Laser Diode Source System (Closed Frame) Multi-Mode, Fiber-Coupled Laser Diode



### 1064NM 10W LASER DIODE SOURCE CLOSED-FRAME SYSTEM

- o Output Power: 9 W
- o Spectral Width (FWHM): 5 nm
- o 2-Pin High Power Module
- o SMA Connector Fiber Termination

## CW LASER SOURCE SYSTEM -- 1064LD-4-6-2 / LASER-DIODE / CCMI

This 10 Watt 1064nm CW source system is built around a highly reliable fiber-coupled laser diode. The system is preconfigured and pretested, 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 SPECIFICATIONS

- Wavelength: 1064 nm ( $\pm$  5 nm)
- Output Power: 9 W (CW / Pulse)
- Emission Bandwidth: 5 nm
- Output Fiber Core: 105 $\mu$ m, NA 0.22
- Fiber Termination: SMA Connector

### LASER DIODE CONTROLLER SPECIFICATIONS

- Current Range: 0 - 21 Amps
- Compliance Voltage Range: 0 - 36 Volts
- Current Stability:  $\pm$  0.025% of Full Scale Set-Point Current
- Laser Diode Set-Point Adjustment Resolution: 0.05 Amps
- Control Modes: ACC (constant current) and APC (laser output power feedback from photodiode)

### TEC CONTROLLER

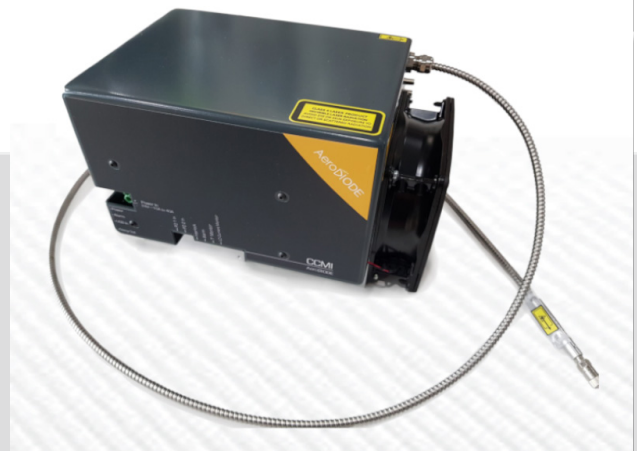
- Temperature Control Range (typ): 15 - 40°C
- Temperature Stability (typ): < 0.05°C
- TEC Power: > 150 Watts

### MODULATION BANDWIDTH

- Pulse Duration: 10 $\mu$ s to CW
- Trigger: External Only

### 1064NM 10 WATT LASER SOURCE

Adjustable output power up to 10W  
Integrated closed case construction  
Multimode fiber-coupled output  
SMA fiber termination





## 1064NM MULTIMODE FIBER-COUPLED LASER DIODE

These lasers deliver up to 10 Watts of CW output power or 10 Watts pulsed output power. The typical emission bandwidth is 5 nm, and the laser is coupled to multimode 200  $\mu\text{m}$  fiber with  $\text{NA} = 0.22$ . The laser is provided with a bare-fiber termination, and an SMA fiber termination is optionally available.

AeroDiode has carefully selected the best single-mode and multi-mode laser diodes, sourced from the most reliable manufacturers. They can be supplied separately, or integrated and tested in a high-quality turn-key control electronics system delivered ready to run.

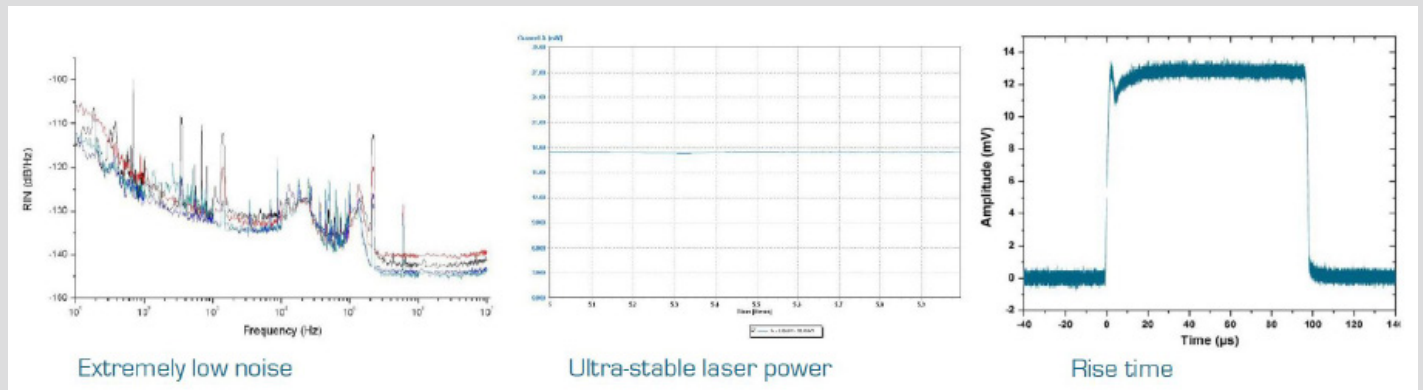
### OPTICAL AND ELECTRICAL SPECIFICATIONS

- Wavelength: 1064 nm ( $\pm 5$  nm)
- Emission Bandwidth: 5 nm
- Pulsed Output Power: 10 W
- CW Output Power: 10 W

### FIBER PIGTAIL

- Multimode 200  $\mu\text{m}$   $\text{NA}=0.22$
- Bare-Fiber End (Unterminated)
- SMA Fiber Termination also Available

## HIGH POWER LASER DIODE DRIVER PERFORMANCE -- CCM & CCM1





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## **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 warranted to be free from defects in material and/or workmanship for a period of one year from the date of shipment.



Laser Lab Source, a division of Research Lab Source Inc.  
670 S. Ferguson St., Suite 3  
Bozeman, MT 59718 USA

Phone: 406-219-1472

[www.LaserLabSource.com](http://www.LaserLabSource.com)

**AeroDIODE**

Rue François Mitterrand Institut d'Optique d'Aquitaine  
33400 Talence FRANCE