



980nm Diode Laser Source, 150W CW Multi-Mode Output



980NM 150W LASER DIODE SOURCE

- o Output Power: 150 W
- o Turn-Key, USB-Connected Operation
- o Spectral Width (FWHM): 6 nm
- o SMA Fiber Termination





CW LASER SOURCE SYSTEM -- 980LD-6-4-2 / LASER-DIODE / CCMI

This 150 Watt, 980nm, 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 21 Amps
- 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: 976nm (± 3 nm)

Spectral Width: 6 nmOutput Power: 150 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









980NM MULTIMODE FIBER-COUPLED LASER DIODE

These lasers deliver up to 150 Watts of CW output power. The typical emission bandwidth is 6 nm, and the laser is coupled to multimode 105 μ m fiber with NA = 0.22.

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

OPTICAL AND ELECTRICAL SPECIFICATIONS

Wavelength: 976 nm (± 3 nm)

Emission Bandwidth: 6 nm

CW Output Power: 150 W

Wavelength Shift w/Temperature: 0.3 nm/°C

· Wavelength shift w/ Current: 1 nm/A

Feedback Isolation: >30 dB from 1020 - 1200 nm

ELECTRICAL SPECIFICATIONS

Threshold Current: 0.9 A

Typical Drive Current: 13.2 A *

Typical Forward Voltage: 22.4 V

· Slope Efficiency: 13 W / A

 * For operating currents above 6 Amps, the electrical connections must be soldered.

FIBER SPECIFICATIONS

Fiber Core: 105 µm, NA 0.22

Clad Diameter: 125 µm

Buffer / Tube Diameter: 245/900 μm

· Min Bend Radius: 50 mm

Connector: SMA 905





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.



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



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