



940nm Pre-Configured Laser Diode Source 10W Control Electronics and Mount Module



940LD-2-4-2 / LASER-DIODE / CCM1

- o Pre-Tested and Calibrated CW Source System
- o CW Output Power 10 W
- o Line Width < 3 nm
- o 105 μ m Fiber, Armored Jacket



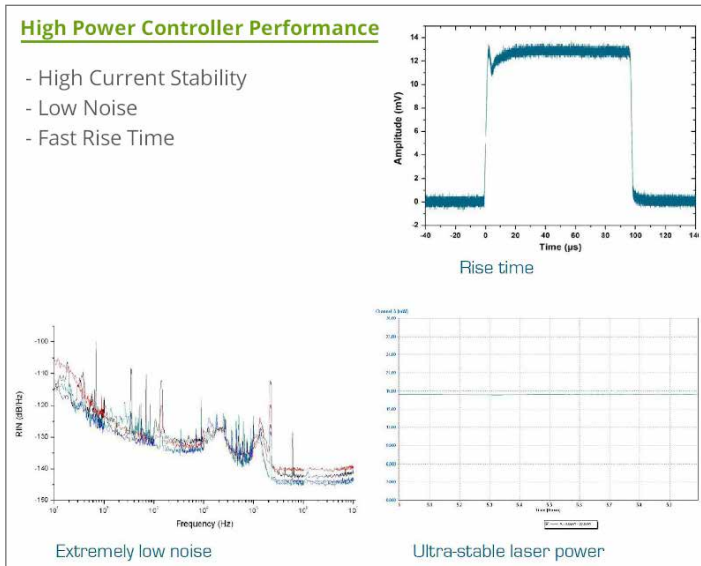
**LASER
DIODE
SOURCES**



940NM PRE-CONFIGURED SOURCE SYSTEM

These CW 940nm laser source & control modules offer the user a pre-configured, calibrated bench top source solution.

The integrated 940 nm laser diode source module is coupled couple to 105 μ m fiber, housed in an armored jacket with an SMA905 connector. The coupling of the laser light into the fiber is based on proprietary techniques and manufacturing processes that provide high peak output power.



LASER DIODE CONTROL ELECTRONICS AND MOUNTING MODULE

The control electronics and mounting module for these laser diodes delivers high stability bias current, and an effective and robust TEC-based waste heat removal system for optimized output power stability. These control modules offer multiple mechanical, thermal and electronic protection features to ensure that your laser diode is protected and operated safely.

USB CONTROL SOFTWARE

The user can set and monitor all of the control parameters of the source laser using the USB input and the supplied GUI software. These units ship with the USB cable to connect your PC to the connector on the side panel. A simple to use single page graphical user interface allows you to control all of the CW parameters as well as set current and temperature limits. Other features of these control modules include a daisy chain output, sync output, alarm monitor and back facet monitor output to monitor the DFB laser's power





940LD-2-4-2 / LASER-DIODE / CCM1 SPECIFICATIONS

Optical Specifications

Wavelength: 940 nm (\pm 10 nm)
Spectral Width: 3 nm
Output Power: 10 W
Fiber: 105 μ m, NA 0.22

Laser Diode Controller Specifications

Current Range: 0 - 13 Amps
Compliance Voltage Range: 0 - 23 Volts
Current Stability: \pm 0.05%
Laser Diode Set-Point Adjustment Resolution: 0.05 Amps
Max. Modulation Rate: 100 kHz

TEC Controller Specifications

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

Modulation Specifications

Pulse Duration: 10 μ s 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
Required Power Supply : 24 VDC (not included)
Recommended Power Supply: EA-PS 2042-10B (from Newark)

Dimensions

238 mm x 119 mm x 112 mm



Offered by
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PRODUCT SALES AND SERVICE:

Unlimited phone and email support is provided for products purchased through Laser Lab Source. 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.



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