



## 976nm Pre-Configured Fiber-Coupled Laser Diode Source 70W, Multi-Mode Output



### 980LD-5-4-1 / LASER-DIODE

- o 70 Watt Output Power
- o Spectral Width < 6 nm
- o Open-Frame Controller, Replaceable Laser
- o 105 $\mu$ m Core Fiber-Coupled, NA 0.22, SMA905 Terminated
- o USB-Connected Operation



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SOURCES



## 980LD-5-4-1 / LASER-DIODE / CCM SPECIFICATIONS

Laser Output Specifications	Wavelength: 976 nm ( $\pm$ 3 nm) Spectral Width: 6 nm Output Power: 70 W Optical Fiber: 105 $\mu$ m Core Multimode, 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	Temperature Control Range (typ): 15 - 40°C Temperature Stability (typ): 10 mK TEC Power: > 150 Watts
Modulation Specifications	Pulse Duration: 10 $\mu$ 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; see below) Recommended Power Supply: EA-PS 2042-20B (from Newark)
Dimensions	238 mm x 119 mm x 112 mm

## CW LASER SOURCE SYSTEM

This 70 Watt, 976nm, 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 CCM laser source system features open-case construction: the laser, heat-sink, and controller electronics are contained in an open case to provide access to the laser diode as application requirements evolve.. The source system is easily operated using the included GUI over USB interface, and multiple systems can be operated by the same computer.

**INTEGRATED HIGH POWER LASER DIODE**



*Laser diode installed on TEC cooled mounting plate*



**PRE-CONFIGURED**  
control electronics and mount system

**EASY TO OPERATE**  
through USB with GUI or control software



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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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