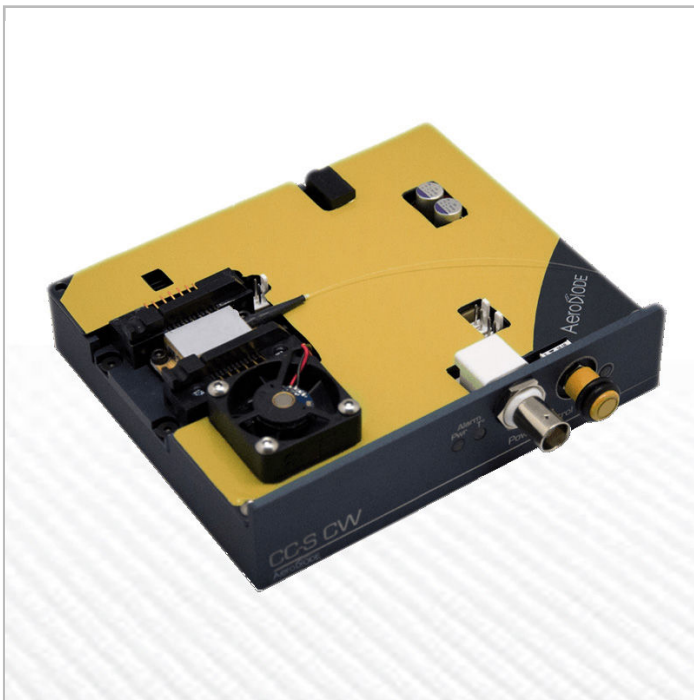




Offered by
LASER LAB SOURCE

manufactured by **AeroDiODE**

808nm 250mW Pretested CW Laser Source System



808NM CW LASER DIODE SOURCE

- o Output Power: 250 mW
- o Spectral Width (FWHM): ~ 1 nm (CW)
- o 14-Pin Butterfly Package, Industry Standard Type 1 Pin Configuration
- o Nufern PM780 Fiber

CW LASER SOURCE SYSTEM --808LD-1-1-0 / LASER-DIODE / CCS-CW

The 808nm CW laser diode source system includes the single-mode butterfly laser in a preconfigured, pretested control and mount system delivering up to 250mW output power from the single-mode fiber. We take the guesswork out of your 808nm source requirement and you receive a turn-key system ready to go.

The CCS-CW laser diode controller and mounting module provides precision control of the drive current and the laser temperature. With comprehensive control over the laser diode, the output power can be controlled, and the wavelength can be controlled by adjusting the laser temperature.

The controller system is operated by the included graphical user interface over USB, and allows several source systems to be controlled at the same time.

808NM CW LASER DIODE OPTICAL OUTPUT SPECIFICATIONS

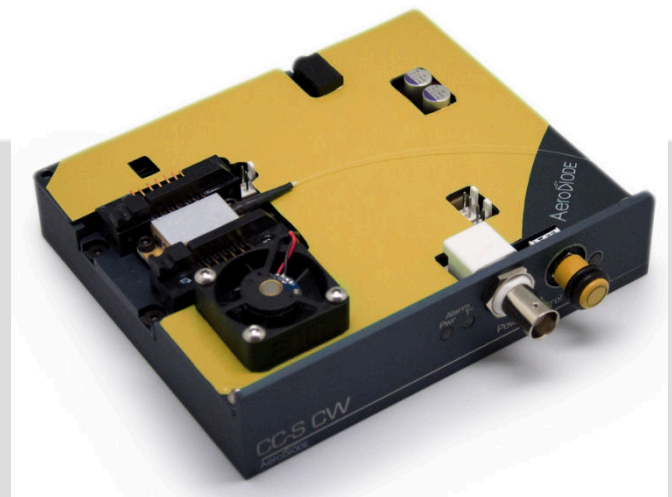
- Center Wavelength: 808 nm (± 5 nm)
- CW Output Power (typ): 250 mW
- Emission Bandwidth: < 3.5 nm

CONTROL ELECTRONICS AND MOUNTING MODULE

- TEC Current Range: 0.0 - 1.5 Amps
- TEC Voltage Range: 0.0 - 3.8 Volts
- TEC Controller Compatible with NTC Thermistors: 1k Ω - 100 k Ω
- Mounting Socket Base Material: Anodized Aluminum
- Mounting Socket: Zero Insertion Force Socket

USER INTERFACE , DIMENSIONS AND POWER INPUT

- Current Adjustment through Side Panel Control Knob or USB
- Remote Interface: USB
- Control Software: Control Software Windows GUI Included
- Input Power Supply: 12 VDC (220V/110V adapter included)
- Module Dimensions: 126.8mm (W) x 130mm (L) x 32.5mm(H)
- Libraries: DLLs - Hexa/Linux - Labview - Python
- Analog Interface (0 - 3.3V): Peak Power Adjustment
- OS Compatibility: Windows XP / Windows 7



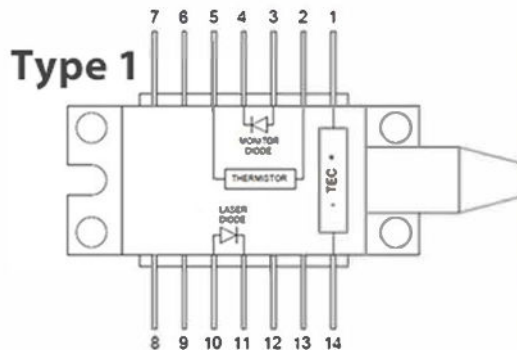
808NM SINGLE-MODE BUTTERFLY LASER DIODE

These single-mode laser diodes offer a narrow emission profile and up to 250mW CW output power and 600nm in pulsed mode. Their high stability make them an excellent choice for sensing, spectroscopy, metrology, telecom, and research applications.

These laser diodes are offered in a compact 14-pin butterfly package with a single-mode fiber pigtail. They have an integrated thermo-electric cooler, an internal 10 kOhm thermistor, and an internal monitor photodiode.

ELECTRICALLY FLOATING PACKAGE

TYPE 1 PIN CONFIGURATION



No	Description	No	Description
1	TEC Anode	14	TEC Cathode
2	Thermistor	13	n/c
3	Monitor PD Anode	12	n/c
4	Monitor PD Cathode	11	LD Cathode
5	Thermistor	10	LD Anode
6	n/c	9	n/c
7	n/c	8	n/c



OPTICAL AND ELECTRICAL SPECIFICATIONS

- Wavelength: 808 nm (\pm 5 nm)
- Pulsed Output Power: 600 mW
- CW Output Power: 250 mW
- Emission Bandwidth: \sim 3.5 nm
- Wavelength shift w/ Temperature: 0.25 nm/ $^{\circ}$ C
- Wavelength shift w/ Current: 5 nm/A

FIBER PIGTAIL

- Fiber: Hi780
- Fiber Core Diameter: 5 μ m
- Buffer Diameter: 250 μ m
- Connector: FC/APC



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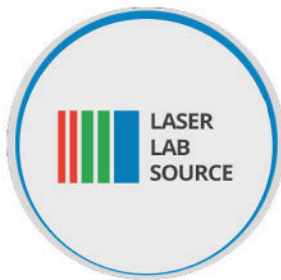
manufactured by **Aero**  **IODE**

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.



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