



Computer-controlled LD Module CLD – Series – Blue

PRODUCT FEATURES

- ▲ RS-232 or USB controlled, instrumentation ready
- ▲ Including software
- ▲ Excellent power & wavelength stability

APPLICATIONS

- ▲ Spectroscopy
- ▲ Analytical and bio-instrumentation
- ▲ Flow cytometry
- ▲ Machine vision
- ▲ Sensing

Hazard Note: This laser module emits radiation that is visible and harmful to the human eye. When in use, do not look directly into the laser emitting aperture. Looking directly at laser diode emission at close range may cause eye damage.

Electrical Precaution: The case is internally connected to the circuit; damaging the anodized surface may result in failure of the laser module.



Warranty: One year. No warranty coverage for disassembly, modifications or damage due to abuse or misapplication.

SPECIFICATIONS

OPTICAL

Wavelength*	405 nm - 488 nm
Optical output power*	5 mW – 150 mW
Laser power stability	< 0.5%
Laser RMS noise	< 0.5%
Beam size (1/e ²)	collimated (3 mm)
Divergence at collimation	< 1 mrad
Polarization orientation	vertical
Polarization	> 100:1
Beam pointing stability	< ± 10 µrad
Laser operation	CW or TTL
Warm-up time	< 1 min

ELECTRICAL

Operating voltage	3.3 VDC
Operating current	< 1.2 A
Modulation	TTL and analog

MECHANICAL

Dimension (W x H x L)	40 x 42.5 x 100 mm
Operating temperature	+ 10°C to +40°C**
Storage temperature	-40°C to + 80°C
Heat sink requirements	recommended for extended use

*For detailed information on available wavelengths and output power, please see next page.

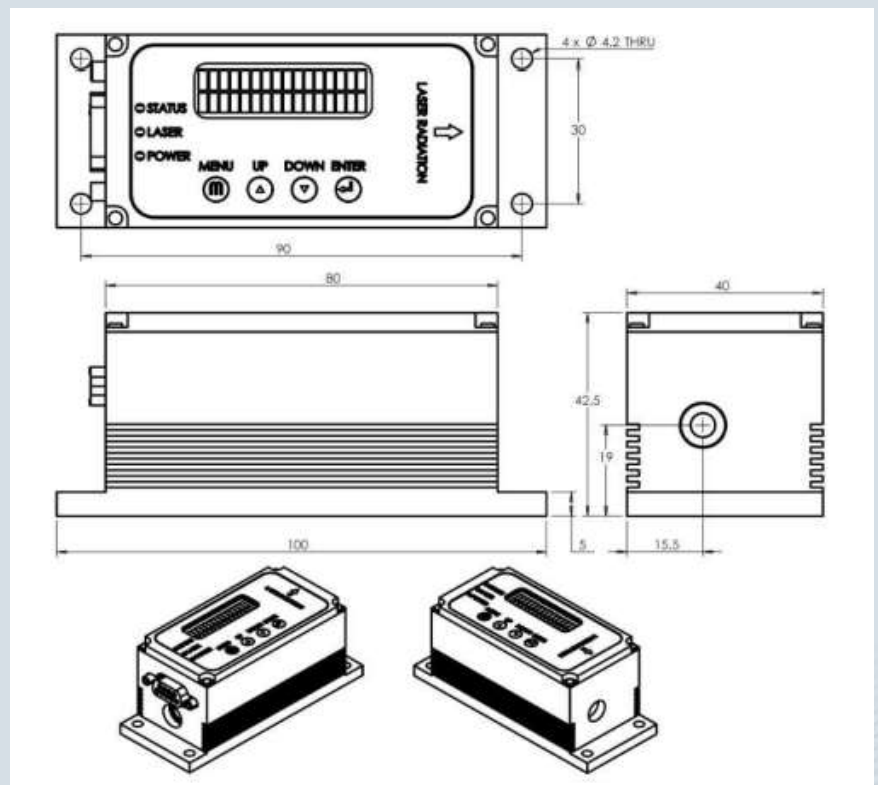
**Thermal management: The CLD series laser system is designed to dissipate heat through its body. For proper cooling, do not restrict air circulation around the device. An additional heat sink should be used to maximize the performance of the laser system.

DESCRIPTION

The CLD series is a user-controlled laser system with an integrated laser and control electronics in a single compact package. The built-in LCD display shows laser operating parameters. Push buttons enable easy and quick manual changes of laser operation conditions.

The CLD RS-232 interface allows adjusting the laser power, temperature and the variable laser modulation sequence using a computer.

MECHANICAL DIMENSIONS



AVAILABLE WAVELENGTHS

405 nm	5 – 150 mW
440 nm	5 – 50 mW
488 nm	5 – 150 mW

CLD SERIES ORDERING INFORMATION

CLD-λλλ-pppG-C

Option	Meaning	Value
λλλ	Wavelength	405 nm – 488 nm
ppp	Laser output power	5 mW – 150 mW
C	Circular laser diode beam (optional)	C

E.g. CLD-405-10G-C: Laser diode module with 405 nm, 10 mW and circular beam.

TOPAG Lasertechnik GmbH
Nieder-Ramstädter Straße 247
D-64285 Darmstadt
Fon +49-6151-4259-78, Fax -88
E-Mail info@topag.de
Internet www.topag.de



CUSTOMIZATION OPTIONS

- ▲ Custom electronic drivers with firmware and software
- ▲ Mechanical design
- ▲ Fiber-coupled versions (multimode, single mode and polarization-preserving)
- ▲ Other wavelengths