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LDM 4407

Temperature Controlled Laser Diode Mount

Product Features

- Accepts all 5.6 mm, 9 mm, and flanged laser diode packages
- 0°C to +70°C temperature range
- Quick dip switch configuration for 3 and 4 pin laser diodes
- Mounts to optical table or rail for easy integration with any existing optical setup
- Offers unobstructed access to the laser
- Nitrogen purge port

The LDM-4407 is designed for users who run multiple laser diode experiments. It accepts virtually all small can-style laser diodes, while allowing quick installation and release of any package. Only minimal adjustments are necessary to set up different experiments. The unit's temperature control permits evaluation of laser diode performance over a wide temperature range. The slim, compact profile offers unobstructed access to the laser window, making the unit extremely user-friendly.



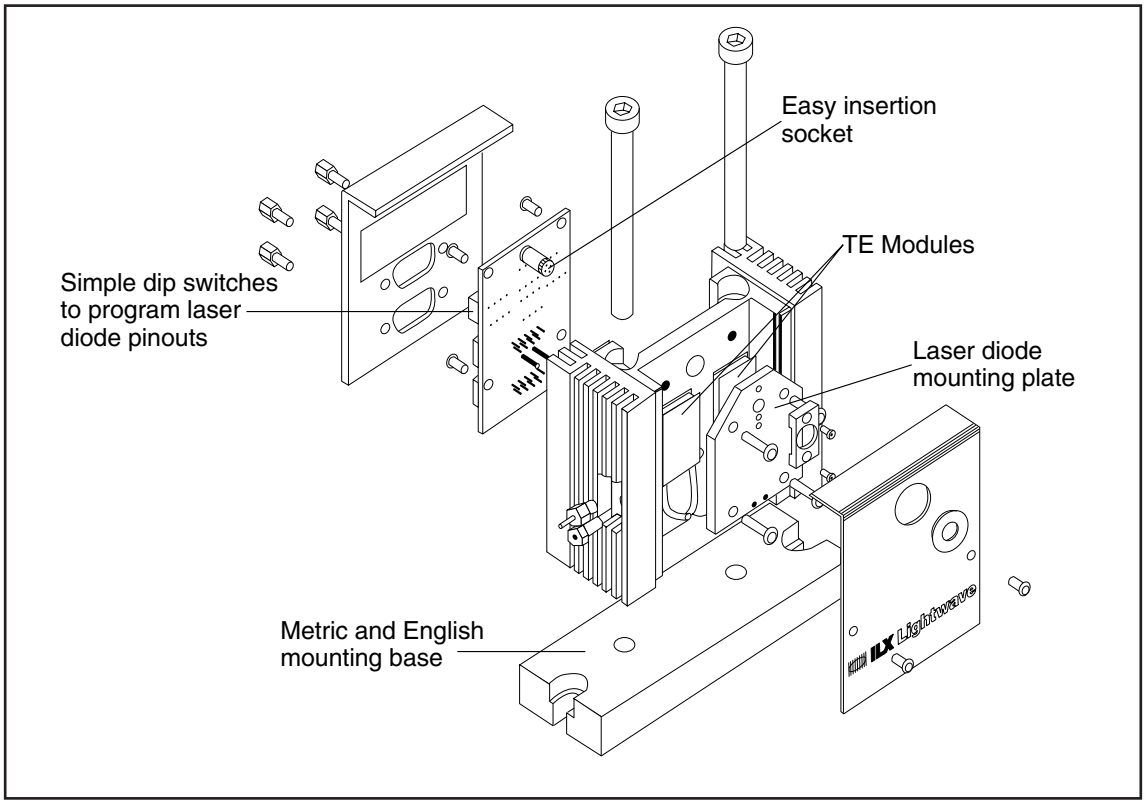
The most configurable laser diode mount available.

ILX Lightwave
Laser Diode Instrumentation & Test Systems

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LDM 4407

Temperature Controlled Laser Diode Mount



Specifications

INPUT CONNECTORS

Two 9-pin D-subminiature:	(1) case temperature control
	(2) laser diode current control

LASER DIODE PACKAGE

Styles Supported:	5.6 mm and 9 mm cans
Position Repeatability:	<200 µm
Angular Repeatability:	<10 mrad
Optical Beam Height:	80 mm

CASE TEMPERATURE CONTROL

Range-Continuous Operation:	0°C–70°C
Sensor Type:	10 kΩ Thermistor

TEMPERATURE RESPONSE

Time (0°C to 25°C):[2]	120 sec
TE Module Ratings:	Q_{max} = 28 W (2 @14 W each)
	ΔT_{max} = 70°C
	I_{max} = 6.0 A
	V_{max} = 8.0 V

GENERAL

Size (HxWxD):	36 mm x 110 mm x 95 mm
	1.4" x 4.3" x 3.7"
Weight:	0.56 kg (1.2 lbs)

NOTES

1 Air cooled on an optical table at 25°C ambient.
2 Stabilized to within ±0.2°C of the setpoint using a 4 A driver.

ORDERING INFORMATION

LDM-4407	Temperature Controlled Laser Diode Mount
CC-305S	Current Source/Laser Diode Mount Interconnect Cable
CC-505S	TE Controller/Laser Diode Mount Interconnect Cable

In keeping with our commitment to continuous improvement, ILX Lightwave reserves the right to change specifications without notification and without liability for such changes.

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