

# 224 TEC TO-Can LaserMount



- Active TEC cooling
- 1.3W Thermal Capacity
- TO-5.6 or TO-9 devices
- Switch selectable device configuration
- No wiring

### Active Cooling

The 224 TEC TO-Can LaserMount provides active TEC cooling for TO-5.6 or TO-9 lasers. The device is inserted into a socket and clamped to the cold plate by a machined stainless steel bracket.

The 224 is designed for post-mounting (post-mount not included), with 8-32 and M4 threaded holes on the bottom of the mount.

### CAGE and Lens Tube Systems

The 224 directly supports 30mm cage systems, with or without the standard cover installed. Looking to integrate 1" lens tube optics? Add the [224-C-02 Opto-Mech Cover](#), which adds support for 1" lens tube systems and also supports 30mm cage systems.

### Fiber Pigtailed Cover

For fiber pigtailed lasers, you can use the [224-C-03 Fiber Pigtail Cover](#), which provides a large opening to clear the housing of most fiber pigtailed lasers.

A cover plate is included to minimize the impact of air thermal gradients on the temperature of the device. A nitrogen purge nipple on the side of the mount can be used to prevent condensation when operating below the dew point. A 4mm banana jack on the side of the mount provide a convenient wrist strap connector, or can be used to ground the mount to an optical table.

### No Wiring

The 224 requires no wiring to configure it for your device. Instead, there are two switches to configure for either common anode or common cathode, and a third switch to optionally earth ground the case of the laser.

### DB-9 & DB-15 Interfaces

The laser driver and temperature controller connections are made through a DB-9 LDD and a DB-15 TEC connector on the back of the mount, which allows for quick connections to any Arroyo Instruments controllers.

### Thermistor Control

The mount uses a 10K thermistor for temperature feedback.

## Specifications

Laser Package Supported	5.6mm and 9mm TO-Can, 3 & 4 pin
Thermal Capacity	1.3W At 0°C delta from ambient, 25°C ambient temperature
<b>Input connectors</b>	
Laser Diode	DB-9, male
Mount TEC	DB-15, male
<b>Temperature Control</b>	
Temperature Range (°C)	+15 to +85
Sensor Type	10kΩ Thermistor
TE Module I <sub>max</sub> (A)	3.1
TE Module V <sub>max</sub> (V)	2.6
<b>General</b>	
Size (H x W x D) [in(mm)]	2.0 (50.8) x 2.0 (50.8) x 2.0 (50.8)
Mounting holes	8-32 threaded hole M4 threaded hole