GCM001

Galvo Cage System

User Guide



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Chapter 1 Introduction

A range of mechanical accessories like cage mounts have been created to ease the integration of the Thorlabs Galvo systems into optical systems. This 1D cage mount interfaces the 1D galvo mount to a cage system. It is compatible with both Metric and Imperial versions. The GCM001 only works with 5 mm size galvos.

Chapter 2 Safety Information

For the continuing safety of the operators of this equipment, and the protection of the equipment itself, the operator should take note of the Warnings, Cautions and Notes throughout this handbook and, where visible, on the product itself.



Warning

Given when there is a risk of injury to users.

Note

Clarification of an instruction or additional information.

Chapter 3 Installation

3.1 Environmental Conditions

Warning

Operation outside the following environmental limits may adversely affect operator safety.

The unit is designed for indoor use only.

To ensure reliable operation, the unit should not be exposed to corrosive agents or excessive moisture, heat or dust.

The unit is not designed to be used in explosive environments.

3.2 Installation

Perform the following installation steps:

1. Unpack the cage system and check the part.

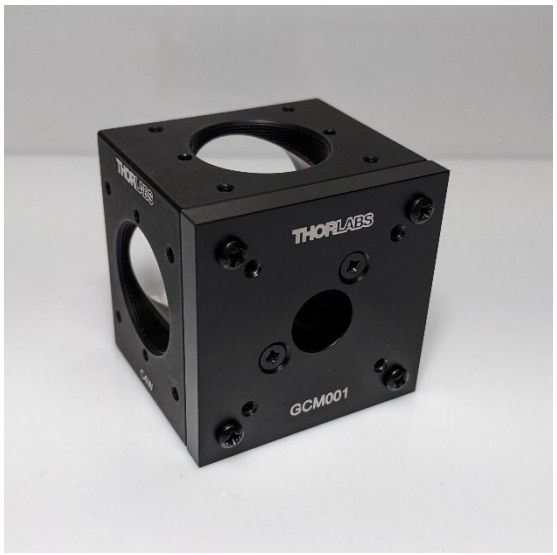


Figure 1 Cage System Adapter Unpacked

2. Loosen the four screws on the top to separate the top plate with the galvo clamp



Figure 2 Top plate with Galvo Clamp

3. Check the thermal insulation material is undamaged. Damaged material should be replaced.



Figure 3 Motor/Mirror assemblies with Insulation Material

4. Insert the motor assembly with the smallest mirror into the clamp.



Figure 4 Motor with Clamp

5. Tighten the pinch bolt.

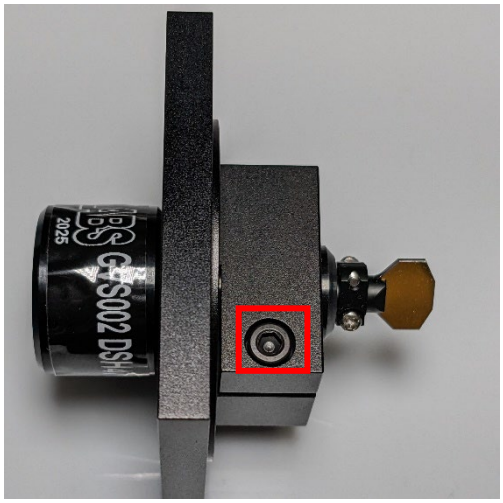


Figure 5 Tighten the pinch bolt

6. Push the above unit into the cage adaptor body with open face uppermost. It can be installed from both open faces as per the requirement.

> **Note**
>
> The galvo needs to be aligned correctly within the cube which can be done by adjusting the position of the motor/galvo by loosening the pinch bolt.

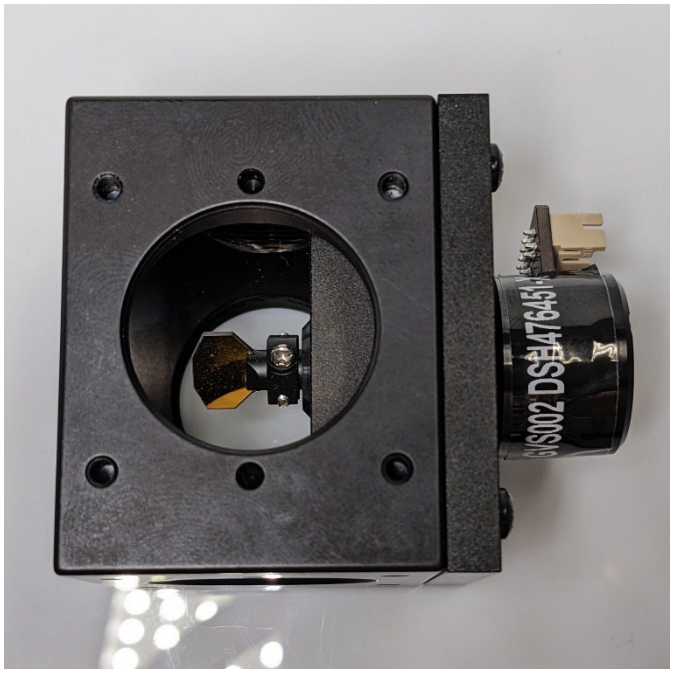


Figure 6 Aligning the motor

7. Tighten the top plate screws.



Figure 7 Screw tightening

Chapter 4 Thorlabs Worldwide Contacts

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