Zaber Technologies Inc.
#2 - 605 West Kent Ave.
Vancouver, BC

1-604-569-3780 *Direct*
1-888-276-8033 *Toll Free*
1-604-648-8033 *Fax*

OMG-T4A Datasheet



- Two-axis gimbal mount with +/- 7° range
- Holds 1" (25 mm) optics
- Our most compact optical mount weighing only 330 grams
- Designed for use with an X-MCC2 Series stepper motor controller or any 2-phase stepper motor controller
- With AutoDetect, the X-MCC controller configures its settings automatically for the connected peripheral

Zaber Technologies Inc.
#2 - 605 West Kent Ave.
Vancouver, BC

1-604-569-3780 *Direct*
1-888-276-8033 *Toll Free*
1-604-648-8033 *Fax*

OMG-T4A Overview

Zaber's OMG device is a high resolution, two-axis optic mount in a compact package. They are stepper motor driven optic mounts designed to interface with our X-MCC2 Series multi-axis controllers, offering high resolution daisy-chainable operation without the need for a computer. Set up is easy with AutoDetect. Once connected, the X-MCC controller will automatically detect and configure the OMG.

For more information visit: https://www.zaber.com/products/optical-mounts/OMG?part=OMG-T4A

OMG-T4A Part Numbering & Options

Part number: OMG-T4A

OMG- T4A

Connector
T4A — D-sub 15 inline connector with Auto Detect (this part)

OMG-T4A Drawings

- OMG (Drawing for the OMG-T4A)
- View all drawings and documents at zaber.com

OMG-T4A Specifications

Overview

Specification	Value
Built-in Controller	No
Recommended Controller	MCC (48 V) Recommended
AutoDetect	Yes
Range	+/-7 °
Axes of Motion	2
LED Indicators	No
Weight	0.33 kg (0.728 lb)

Zaber Technologies Inc.
#2 - 605 West Kent Ave.
Vancouver, BC
1-604-569-3780 *Direct*
1-888-276-8033 *Toll Free*
1-604-648-8033 *Fax*

Positioning Performance

Specification	Value
Accuracy (unidirectional)	
Repeatability	
Backlash	
Microstep Size (Default Resolution)	
Default Resolution	1/64 of a step

Speed

Specification	Value
Maximum Speed	
Minimum Speed	
Speed Resolution	

Encoder & Sensing

Specification	Value
Encoder Type	
Limit or Home Sensing	Magnetic hall sensor

Motor

Specification	Value
Angular Motion Per Motor Rev	
Motor Steps Per Rev	200
Motor Type	Stepper (2 phase)
Motor Rated Current	240 mA/phase
Motor Winding Resistance	20.4 ohms/phase
Motor Winding Inductance	5 mH/phase
Motor Connection	D-sub 15
Motor Frame Size	NEMA 08

Optics & Illumination

Specification	Value
Optic Mounting Interface	1" or 25 mm optics

Mechanical

Specification	Value
Aperture Diameter	24 mm (0.945 ")
Mechanical Drive System	Precision lead screw
Mounting Interface	M6 threaded hole for optic post

Environmental & Compliance

Specification	Value
Operating Temperature Range	0 to 50 °C
CE Compliant	Yes
Vacuum Compatible	No

Contact

Email: contact@zaber.com

Zaber Technologies Inc.
#2 - 605 West Kent Avenue N.
Vancouver, BC V6P 6T7
Canada
Phone: +1-604-569-3780
Fax: +1-604-648-8033

https://www.zaber.com