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High Load Capacity Motorized Gimbal, 300mm Payload Width

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Zaber™ High Load Capacity Motorized Gimbal, 300mm

Stock **#70-571** **1 In Stock**

⊖ 1 ⊕ **SS\$26,376⁰⁰**

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General

English or Metric **Type:**

Yes **Encoder:**

Zaber Technologies Inc. **Manufacturer:**

Stepper Motor **Type of Motor:**

Rotary Quadrature Encoder **Encoder Type:**

Physical & Mechanical Properties

Rotary **Type of Movement:**

450.4 x 395.5 x 210.1 **Stage Size (mm):**

360 **Travel (°):**

0.16 (unidirectional) **Accuracy (°):**

<0.05 **Backlash (°):**

180:1 **Gear Drive Ratio:**

<0.005 **Repeatability (°):**

24 **Speed (°/s):**

13.2 **Weight (kg):**

200 CPR **Encoder Resolution:**

20 **Cantilevered Load Capacity (N·m):**

1000 **Max. Continuous Torque (N·cm):**

50.8 **Aperture Diameter (mm):**

Electrical

2200 **Maximum Operating Current (mA):**

Hardware & Interface Connectivity

Precision Worm Gear **Type of Drive:**

48 VDC **Power Supply:**

RS-232 **Computer Interface:**

Environmental & Durability Factors

0-50 **Operating Temperature (°C):**

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 247:**

Product Details

- 360° Continuous Travel
- Speed up to 24°/s, Max Torque of 10N·m
- Max Centered Payload of 15kg; Max Cantilevered Load Capacity of 20N·m
- 300 and 500mm Payload Width Frame Options Available

Zaber™ High Load Capacity Motorized Gimbals are large, motorized two-axis rotation platforms that simplify the angular positioning of large components or subsystems within an optical system. All gimbals feature 360° continuous travel, two axis rotation around a single point, speed up to 24°/s, a Cantilevered Load Capacity of 20N·m, a rotary quadrature encoder resolution of 200 counts per revolution (CPR), and are available for payload widths of either 300 or 500mm. Drilled and tapped crossmember plates, used to create a mounting platform within the gimbal, are available with either English ([#71-113](#) or [#71-115](#)) or Metric ([#71-112](#) or [#71-114](#)) mounting options, and can also be used to quickly swap different components or pre-built subsystems into the gimbal. Zaber™ High Load Capacity Motorized Gimbals feature built-in controllers and motors allowing for closed-loop operation, slip/stall recovery, and independent axis control via a single RS-232 or USB connection for plug-and-play functionality and easy system integration. These gimbals are ideal for telecom, scanning, and tracking applications where high-load capacity and

high-precision angular positioning is required.

Note: A [48 VDC universal power supply](#), [data cables](#) for daisy chaining, and computer interface cables ([USB](#) or [RS-232](#)) are sold separately as accessories. All Zaber™ High Load Capacity Motorized Gimbals are compatible with [Zaber Launcher](#) and [Zaber's Motion Library](#).
