



DC Servo Motorized Ø1" Mirror Mounts

Motorized Kinematic Mirror Mount for 1" Optics

The KM100-Z6 combines our traditional KM100 kinematic mount with our new 6mm motorized actuators. By using the same body as our standard KM100 kinematic mount, the KM100-Z6 works as a drop-in replacement when automating an optical setup. As an added benefit, the motorized actuators allow for finer, more precise adjustment than is possible when manually adjusting.


KM100-Z6

Ultra-Stable Motorized Kinematic 1" Optic Mount

The KS1-Z6 features an ultra-stable mechanical package to provide a truly set-and-forget optical mount. Finer, more precise adjustments (<30 arcseconds) can be made using motorized actuators, than by manually tuning.

- Motorized Tip and Tilt Adjustment for 1" Optics
- Compact Design Allows for Use in Tight Locations
- Angular Resolution <30 arcseconds
- 12,288 Counts/Revolutions Rotary Encoder
- Limit Switches to Prevent Damage


KS1-Z6

- Motorized Tip and Tilt Adjustment for 1" Optics
- Compact Design Allows for Use in Tight Locations
- Angular Resolution <30 arcsec.
- 12,288 counts/revolutions Rotary Encoder
- Limit Switches to Prevent Damage

10% SAVINGS!

Priced 10% below the cost of the kinematic mounts & actuators.

ITEM#	\$	£	€	¥	DESCRIPTION
KM100-Z6	\$ 806.50	£ 604.90	€ 846.80	¥ 137,105	KM100 Motorized Kinematic Mount
KS1-Z6	\$ 1,230.00	£ 922.50	€ 1,291.50	¥ 209,100	KS1 Motorized Kinematic Mount

Price shown includes a 10% discount below the cost of the KM100 or KS1 and two Z606 or three Z612 actuators.

Stepper Motorized Ø1" Mirror Mount


KM100-ZST

Motorized Kinematic Mirror Mount for 1" Optics

The KM100-ZST combines our traditional KM100 kinematic mount with our new ZST6 stepper motor actuator. By using the same body as our standard KM100 kinematic mount, the KM100-ZST works as a drop-in replacement when automating an optical setup. Additionally, the motorized actuators enable finer, more precise positioning than is possible with manual adjusters. Integrated electro mechanical limit switches prevent damage if the actuator is over driven, while providing homing repeatability better than 15 arcseconds.

- **Resolution:** <1 arcsecond
- **Range:** ±3°
- **Limit Switching:** Electromechanical
- **Lead Screw Pitch:** 0.5mm
- **Gear Reduction:** 76:1
- **Speed:** 1arcsec./second – 0.5 degree/second
- 25,600 steps/revolutions Using Thorlabs Stepper Motor Controller

Priced 10% below the cost of the kinematic mounts & actuators.

10% SAVINGS!

ITEM#	\$	£	€	¥	DESCRIPTION
KM100-ZST	\$ 999.00	£ 749.25	€ 1,048.95	¥ 169,830	KM100 Motorized Kinematic Mount

Price shown includes a 10% discount below the cost of the KM100 and two ZST6 actuators

New OptoDC/ST Motor Drivers, See Page 331

These new opto drivers are USB interfaced compact single channel motor drivers, designed to operate with a variety of DC brushed motors or stepper motors. They contain a full embedded controller and driver circuit and can be operated with and without a PC. The OptoDC driver unit is a direct replacement for the DCX-MC110B controller modules featured in earlier editions of the Thorlabs catalog. The OptoST driver has been designed for easy manual and automatic control of low power stepper motor actuators such as the Thorlabs ZST series. While compact in footprint (2.5" x 2" x 1.6"), these units offer a fully featured motion control capability including velocity profile settings, limit switch handling, "on-the-fly" changes in motor speed and direction. For more advanced operation control over the closed loop PID parameters and adjustment of settings such as lead screw pitch and gearbox ratio allows support for many different actuator configurations.



ITEM#	\$	£	€	¥	DESCRIPTION
ODC001	\$ 598.00	£ 375.00	€ 562,50	¥ 105,000	OptoDC Servo Motor Driver
OST001	\$ 598.00	£ 375.00	€ 562,50	¥ 105,000	OptoST Stepper Motor Driver