

## DC Servo Motorized Ø1" Mirror Mounts

- Motorized  $\pm 4^\circ$  Pitch and Yaw Adjustment for Ø1.00" (Ø25.4 mm) or Ø25.0 mm Optics
- Angular Resolution of 6 arcsec
- 34,304 counts/revolution Rotary Encoder
- Integrated Limit Switches Prevent Motor Damage

The KS1-Z8 features our popular KS1 high-stability mirror mount and combines it with two Z812 Series DC servo motor actuators equipped with commercial grade internal limit switches to provide overdrive protection. Higher precision adjustments can be made with these motorized actuators than otherwise possible with manual adjusters. The mount also features one 1/4"-80 adjuster to provide for Z-translation. The motors have an encoder to provide 6 arcsec angular resolution. Our TDC001 single-channel T-Cube DC servo motor controller is ideally suited for use with this Z812 motorized mount. Please see page 626 for details.

Note that if you will be using a Z8 series DC Servo Motor with a previously purchased TDC001, you may need to update your firmware to version 1.0.10 or later. This update is included in the apt™ Software download located on our website.

PIN	DESCRIPTION
1	Ground (Limit and Vcc)
2	Forward Limit
3	Reverse Limit
4	No Connection
5	Motor (-)
6	No Connection
7	Motor (+)
8	No Connection
9	Identification Resistor
10	5V Vcc
11	Encoder Channel A
12	No Connection
13	Encoder Channel B
14	No Connection
15	No Connection



Priced 10% below  
the cost of the  
kinematic mounts  
and actuators



KS1-Z8

ITEM #	\$	£	€	RMB	DESCRIPTION
KS1-Z8*	\$ 946.30	£ 681.30	€ 823.30	¥ 7,542.70	DC Servo Motorized Ø1" (Ø25.4 mm) Mirror Mount

\*Price shown includes a 10% discount off the total cost of the KS1 and three Z812 actuators if purchased individually.

## Stepper Motorized Ø1" Mirror Mount



KS1-ZST

- 2-Phase, Current-Limited Stepper Motor
- Motorized  $\pm 4^\circ$  Pitch and Yaw Adjustment
- Integrated Electromechanical Limit Switches Prevent Motor Damage
- Angular Resolution: 1 arcsec
- Leadscrew Pitch: 0.5 mm
- Gear Reduction: 76:1
- 233,472 Microsteps per Revolution

The KS1-ZST combines our popular Ultra-Stable KS1 Kinematic Mount with two of our high-resolution ZST13 stepper motor actuators to enable finer, more precise positioning than possible with manual adjusters. In addition, the mount features one 1/4"-80 adjuster providing Z-translation, which allows for greater pitch and yaw adjustment over standard two adjuster kinematic mounts.

By utilizing the same body as our standard KS1 kinematic mount, the KS1-ZST works as a drop-in replacement when automating an optical setup. The TST001 single-channel T-Cube stepper motor controller is recommended for driving the ZST actuators used within the KS1-ZST mount (see page 630 for more details).



10% Savings Compared to Purchasing  
Individual Components

ITEM #	\$	£	€	RMB	DESCRIPTION
KS1-ZST*	\$ 1,156.50	£ 832.68	€ 1,006.16	¥ 9,217.31	Stepper Motorized Ø1" (Ø25.4 mm) Mirror Mount

\*Price shown includes a 10% discount off the cost of the KS1 and two ZST13 actuators if purchased separately.