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Find the *ThorLabs PF10-03* at our website: *Click HERE*

Kinematic Mirror Mount for Cage Systems

- ±4° Pitch/Yaw, ±3 mm Linear Translation
- Compatible with 30 mm Cage Systems
- Independent Locking on All 3 Adjusters

Mechanical Drawings Available on the WEB



KC1-T
SM1 (Ø1.035"-40) Threaded Front Plate (Two SM1RR Retaining Rings Included)



KC1



SM1RR

These Kinematic Mounts, which have been designed to allow precise angular alignment of optics within a cage system, feature three 1/4"-80 TPI precision adjuster screws with independent locks via side-located setscrews. The mechanical design provides excellent stability whether mounted within a cage system or on a post via the #8-32 (M4 x 0.7) mounting holes. Both the front and rear plates have been machined with four clearance holes for direct compatibility with our 30 mm cage systems. The cage rod holes in each front plate are sufficiently oversized to allow ±4° Pitch/Yaw Adjustment.

The KC1 is designed with a double-bored mounting hole for a Ø1" optic. The KC1-T is a threaded version that is compatible with the SM1 (Ø1.035"-40) series threads for directly mounting optics or our lens tubes.

ITEM#	METRIC ITEM#	$	£	€	RMB	DESCRIPTION
KC1	KC1/M	$ 84.20	£ 58.40	€ 74,80	¥ 711.00	Kinematic Cage Mount for Ø1" Optics
KC1-T*	KC1-T/M*	$ 88.60	£ 61.50	€ 78,70	¥ 748.20	Threaded Kinematic Cage Mount for Ø1" Optics
SM1RR	SM1RR	$ 4.50	£ 3.10	€ 4,00	¥ 38.00	SM1 (Ø1.035"-40) Retaining Ring

*Two SM1RR Retaining Rings Included

Piezoelectric Kinematic Mount for 30 mm Cage Systems

MDT693A Piezoelectric Driver (See Page 566)

- 60 mA of Output Current per Channel
- 10 kHz Frequency Response with No Load, Small Signal; 250 Hz for 1.6 µF, 150 V_{pp}
- 3 Independent Voltage Displays
- Low Noise Electronics
- Turnkey System Complete with All Cables

Mechanical

- 10 arcsec of Angular Resolution
- ±4° of Mechanical Angular Range
- 3.0 mm Translational Range

Electromechanical

- 0.06 arcsec of Angular Resolution
- 30 arcsec of Angular Range
- 8 µm of Translational Range

The KC1-PZ combines the mechanical features of the KC1 with the electro-mechanical features of our AE0505D08F piezoelectric stack featured on page 532. The piezoelectric stacks are mounted in the front plate, directly under the tips of the three adjuster screws. This allows for coarse and fine control of both the angle (one adjuster at a time) and translation (all three adjusters simultaneously). Thorlabs' MDT693A Controller has been designed to work with our piezo devices to take advantage of the high resolution achievable with low-voltage piezo stacks.

ITEM#	METRIC ITEM#	$	£	€	RMB	DESCRIPTION
KC1-PZ	KC1-PZ/M	$ 598.60	£ 415.00	€ 531,50	¥ 5,054.60	Cage Assembly Piezoelectric Mount
KC1-T-PZ	KC1-T-PZ/M	$ 599.60	£ 415.70	€ 532,40	¥ 5,063.10	Cage Assembly Piezo Mount, SM1 Thread
PZ630*	PZ630-EC*	$2,178.60	£1,510.00	€1.934,00	¥18,397.00	Complete System: KC1-PZ and MDT693A Controller
PZ631*	PZ631-EC*	$2,179.60	£1,511.00	€1.935,00	¥18,405.00	Complete System: KC1-T-PZ and MDT693A Controller

*The complete system is priced at 10% below the cost of the KC1-PZ and MDT693A controller.

Buy the Complete System



PZ630
Complete System Includes MDT693A Driver
Base Sold Separately (See Page 566)



KC1-PZ

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