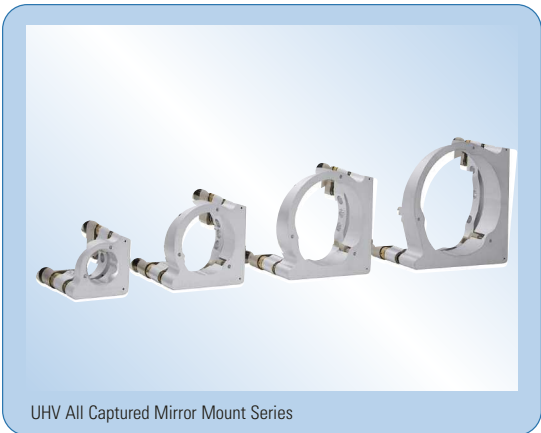


UHV Picomotor™ All Captured Large Aperture Optical Mounts



- Vacuum Compatible 10^{-9} Torr
- Kapton Wires
- Kinematic Mechanism
- x, y Adjustments
- Angular Resolution $<0.7 \mu\text{rad}$
- Set-and-Forget Long-Term Stability

The New Focus 882X All Captured UHV series provides the precision and stability of Picomotor™ actuators with our reliable popular Ultima Precision Optical Mounts. Offered with Kapton wires, these mounts can now be used in UHV environments (10^{-9} Torr) as well as for VUV/EUV applications.

These new UHV All Captured mounts are available in aperture versions 1.0, 2.0, 3.0, or 4.0 in (25.4, 50.8, 76.2, 101.4 mm) diameter optics. With thick front and rear plates, carbide seats, and optimized stiff springs, it provides for smooth, reliable motorized adjustment while maintaining a high level of thermal and mechanical stability. The picomotor offers the additional advantage of motorized positioning of $<0.7 \mu\text{rad}$ resolution.

The 8821-AC-UHV, 8822-AC-UHV, 8823-AC-UHV, and 8824-AC-UHV versions, with its low-distortional axial clamping technique offers a versatile positioning system for mounting 1.0, 2.0, 3.0, and 4.0 in mirrors while minimizing mount-induced wavefront distortions.



8821-AC-UHV
1 in UHV Picomotor Mount

8824-AC-UHV
4 in UHV Picomotor Mount



UHV Picomotor™ All Captured Large Aperture Optical Mounts

Specifications

	8821-AC-UHV	8822-AC-UHV	8823-AC-UHV	8824-AC-UHV
Optic Diameter [in. (mm)]	1.0 (25.4)	2.0 (50.8)	3.0 (76.2)	4.0 (101.4)
Type	Center Mount	Center Mount	Center Mount	Center Mount
Angular Range (°)	±5	±5	±3.5	±3.5
Resolution- Angular (μrad)			0.7	
Motorized Axes		2 (x, y)		
Vacuum Compatibility		10 ⁻⁹ Torr		
Wire Type (vacuum rated)		Kapton		
Mounting		Post		
Thread Type		8-32 (M4) Thru		
Operating Temperature (°C)		10-40		

Order Table

Model	Description
8821-AC-UHV	UHV Picomotor Mirror Mount, 1.0 in. Diameter - All Captured
8822-AC-UHV	UHV Picomotor Mirror Mount, 2.0 in. Diameter - All Captured
8823-AC-UHV	UHV Edge Picomotor Mirror Mount, 3.0 in. Diameter - All Captured
8824-AC-UHV	UHV Edge Picomotor Mirror Mount, 4.0 in. Diameter - All Captured
8742-4-KIT	Four-Axis 8742 Picomotor Controller/Driver Kit
8758	Hand Pad Control for 8742 Picomotor Controller/Driver



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Newport Corporation, Irvine, California and Franklin, Massachusetts; Evry and Beaune-La-Rolande, France and Wuxi, China have all been certified compliant with ISO 9001 by the British Standards Institution. Santa Clara, California is DNV certified.

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