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Find the *Newport SL40BD* at our website: *Click HERE*

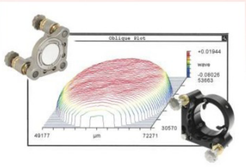
Low Wavefront Distortion Mirror Mounts

OVERVIEW PRODUCTS FEATURES ACCESSORIES RESOURCES RELATED

Low Wavefront Distortion (LWD) optical mounts are specifically designed to hold mirrors in a way that will not induce optical distortion. They use an axial three-point mounting method to gently, but securely, hold optics with tight flatness tolerances.

- Designed to minimize wavefront distortion
- Interferometer verified
- Axial three-point optic mounting

See All Features

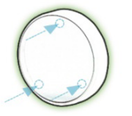


Compare	Model	Drawings, CAD & Specs	Optic Diameter	Drive Type	Adjustments	Sensitivity	Special Features
	SL25.4BD		25.4 mm	Diff. Micrometer	θx, θy	5.8 arc sec	Gimbal Mount
	SL101.6BD		101.6 mm	Diff. Micrometer	θx, θy	2.7 arc sec	Gimbal Mount
	SL101.6BM		101.6 mm	Micrometer	θx, θy	2.7 arc sec	Gimbal Mount
	SL25.4BM		25.4 mm	Micrometer	θx, θy	5.8 arc sec	Gimbal Mount
	SL76.2BM		76.2 mm	Micrometer	θx, θy	3.1 arc sec	Gimbal Mount
	SL50BM		50 mm	Micrometer	θx, θy	3.9 arc sec	Gimbal Mount
	SL51BM		50.8 mm	Micrometer	θx, θy	3.9 arc sec	Gimbal Mount
	SL51BD		50.8 mm	Diff. Micrometer	θx, θy	3.9 arc sec	Gimbal Mount
	SL76.2BD		76.2 mm	Diff. Micrometer	θx, θy	3.1 arc sec	Gimbal Mount

Features

3-Point Axial Clamping Reduces Mounting Stress

With the axial 3-point mounting, because there are twice as many mounting points, the forces that would cause distortion are essentially cut in half, more distributed, and axially opposite to eliminate bending.



3-point Axial Clamp

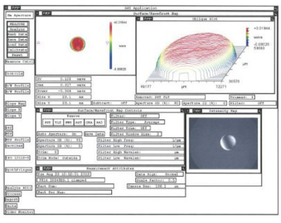
Actual Interferometric Testing



Actual (not simulated) interferometric testing of our LWD Mirror Mounts demonstrate that the low-stress mirror mounting clamp significantly reduces wave front distortion. In this video, we are testing the Suprema SU100W-F3K low wave front distortion mirror mount.

https://www.youtube.com/embed/99D6d8YeMV4

Test Results - Minimized Distortion



Interferometric testing results show the flatness of the mirrors held in these mounts, measure at 0.100 wave PV (peak to valley). Compare this to mirrors held in a mount with a nylon-tipped set screw where the flatness degrades to 0.600 to 0.800 wave PV. An unconstrained 1/10th wave mirror will typically measure 0.090 wave PV.

Accessories

No Actuator Version

The following low wavefront distortion mirror mounts do not come with any actuators.

Compare	Description	Drawings, CAD & Specs
	U100-AC Ultima Center Mirror Mount, 1.0 in. Diameter, No Actuators	
	U200-AC Ultima Center Mirror Mount, 2.0 in. Diameter, No Actuators	
	U300-AC Ultima Center Mirror Mount, 3.0 in. Diameter, No Actuators	
	U400-AC Ultima Center Mirror Mount, 4.0 in., No Actuators	

SL Series Riser Bases

Compare	Description	Drawings, CAD & Specs
	M-RH-50 Riser Base, 50 mm, Metric, SL Series Optical Mounts	
	M-RH-25 Riser Base, 25 mm, Metric, SL Series Optical Mounts	
	RH-25 Riser Base, 25 mm, SL Series Optical Mounts	
	RH-50 Riser Base, 50 mm, SL Series Optical Mounts	

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