

Newport SL40BD  
**Gimbal Optical Mount**



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**\$995.00**

**In Stock**

**Qty Available: 2**

**Used and in Excellent Condition**

**Open Web Page**

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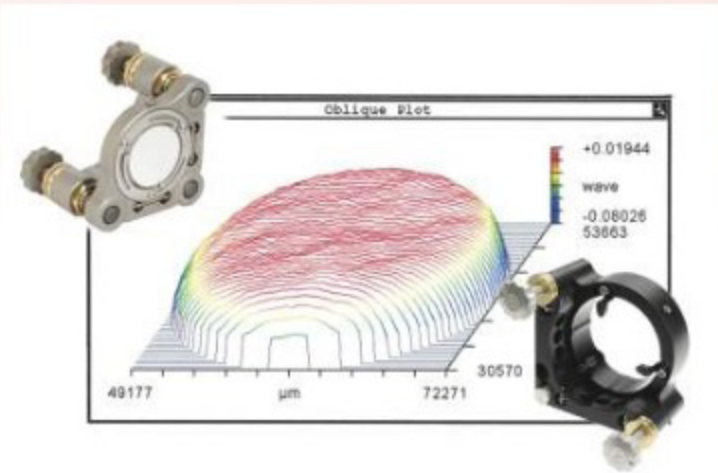
Low Wavefront Distortion Mirror Mounts





































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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
<input type="checkbox"/>	 <a href="#">SL25.4BD</a>	  	25.4 mm	Diff. Micrometer	θx, θy	5.8 arc sec	Gimbal Mount
<input type="checkbox"/>	 <a href="#">SL101.6BD</a>	  	101.6 mm	Diff. Micrometer	θx, θy	2.7 arc sec	Gimbal Mount
<input type="checkbox"/>	 <a href="#">SL101.6BM</a>	  	101.6 mm	Micrometer	θx, θy	2.7 arc sec	Gimbal Mount
<input type="checkbox"/>	 <a href="#">SL25.4BM</a>	  	25.4 mm	Micrometer	θx, θy	5.8 arc sec	Gimbal Mount
<input type="checkbox"/>	 <a href="#">SL76.2BM</a>	  	76.2 mm	Micrometer	θx, θy	3.1 arc sec	Gimbal Mount
<input type="checkbox"/>	 <a href="#">SL508M</a>	  	50 mm	Micrometer	θx, θy	3.9 arc sec	Gimbal Mount
<input type="checkbox"/>	 <a href="#">SL51BM</a>	  	50.8 mm	Micrometer	θx, θy	3.9 arc sec	Gimbal Mount
<input type="checkbox"/>	 <a href="#">SL51BD</a>	  	50.8 mm	Diff. Micrometer	θx, θy	3.9 arc sec	Gimbal Mount
<input type="checkbox"/>	 <a href="#">SL76.2BD</a>	  	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.



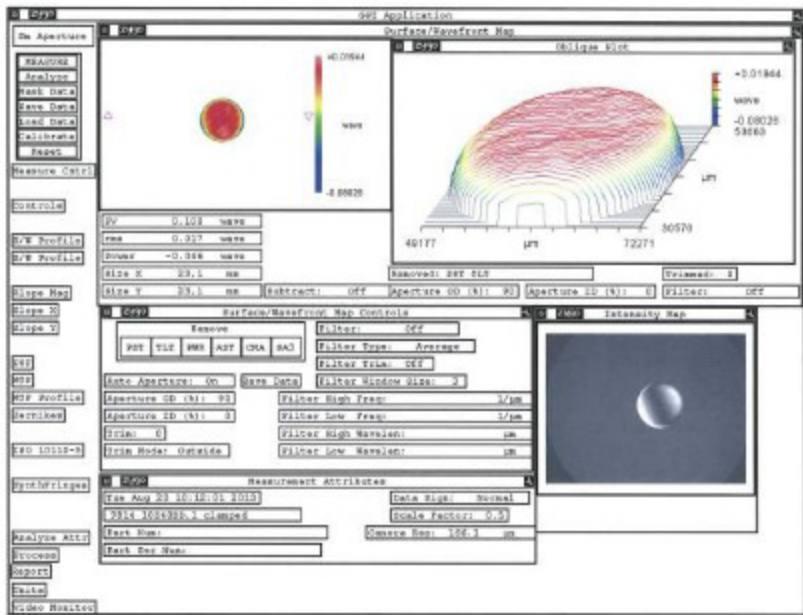
Actual Interferometric Testing



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
<input type="checkbox"/>	 <a href="#">U100-AC</a> Ultima Center Mirror Mount, 1.0 in. Diameter, No Actuators	 
<input type="checkbox"/>	 <a href="#">U200-AC</a> Ultima Center Mirror Mount, 2.0 in. Diameter, No Actuators	 
<input type="checkbox"/>	 <a href="#">U300-AC</a> Ultima Center Mirror Mount, 3.0 in. Diameter, No Actuators	 
<input type="checkbox"/>	 <a href="#">U400-AC</a> Ultima Center Mirror Mount, 4.0 in., No Actuators	 

SL Series Riser Bases

Compare	Description	Drawings, CAD & Specs
<input type="checkbox"/>	 <a href="#">M-RH-50</a> Riser Base, 50 mm, Metric, SL Series Optical Mounts	 
<input type="checkbox"/>	 <a href="#">M-RH-25</a> Riser Base, 25 mm, Metric, SL Series Optical Mounts	 
<input type="checkbox"/>	 <a href="#">RH-25</a> Riser Base, 25 mm, SL Series Optical Mounts	 
<input type="checkbox"/>	 <a href="#">RH-50</a> Riser Base, 50 mm, SL Series Optical Mounts	 



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