

ARTISAN®
TECHNOLOGY GROUP

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Find the *Newport LP-05* at our website: *Click HERE*

Precision Multi-Axis Lens Positioners



Left to right: LP-05A , LP-1A , LP-2A

These are our highest performing Lens Positioners. Precise, 100 TPI adjustment screws allow smooth adjustment with increased sensitivity. Our zero-freeplay XY mechanism ensures accurate positioning and enhanced long-term stability.

- 2, 3 or 5 axes of precision lens positioning
- Mounts popular 6.35 to 50.8 mm diameter optics
- High-resolution, 100 TPI XYθXθYadjustment screws
- Gimbaled Angular adjustments
- Zero-freeplay XY mechanism
- Independent non-influencing locks

Ordering Information

Compare	Model	Drawings, CAD & Specs	Availability	Price
 (/p/LP-05A)	**LP-05A (/p/LP-05A)** XYZ θXθY Lens Positioner, 0.5 in. (12.7 mm) Diameter		In Stock	$526.00
 (/p/LP-05A-XY)	**LP-05A-XY (/p/LP-05A-XY)** XY Lens Positioner, 0.5 in. (12.7 mm) Diameter		In Stock	$316.00
 (/p/LP-05A-XYZ)	**LP-05A-XYZ (/p/LP-05A-XYZ)** XYZ Lens Positioner, 0.5 in. (12.7 mm) Diameter		In Stock	$380.00
 (/p/LP-1A)	**LP-1A (/p/LP-1A)** XYZ θXθY Lens Positioner, 1.0 in. Diameter		In Stock	$705.00
 (/p/LP-1A-XY)	**LP-1A-XY (/p/LP-1A-XY)** XY Lens Positioner, 1.0 in. (25.4 mm) Diameter		In Stock	$421.00
 (/p/LP-1A-XYZ)	**LP-1A-XYZ (/p/LP-1A-XYZ)** XYZ Lens Positioner, 1.0 in. (25.4 mm) Diameter		In Stock	$505.00
 (/p/LP-2A)	**LP-2A (/p/LP-2A)** XYZ θXθY Lens Positioner, 2.0 in. (50.8 mm) Diameter		In Stock	$758.00
 (/p/LP-2A-XY)	**LP-2A-XY (/p/LP-2A-XY)** XY Lens Positioner, 2.0 in. (50.8 mm) Diameter		In Stock	$491.00
 (/p/LP-2A-XYZ)	**LP-2A-XYZ (/p/LP-2A-XYZ)** XYZ Lens Positioner, 2.0 in. (50.8 mm) Diameter		In Stock	$547.00
 (/p/LP1A-1-32)	**LP1A-1-32 (/p/LP1A-1-32)** C-Mount Adapter, 1-32 Thread, 1 inch Lens Mount		In Stock	$51.00

Features

Two, Three or Five Axes of Positioning

Two-axis XY models have orthogonal transverse adjustments. Three-axis XYZ models add translation along the optical Z-axis. The Z motion is accomplished without rotation of the lens by a knurled ring with a precision 80 TPI thread. Five-axis XYZ θXθY models provide smooth XYZ translation plus true gimbaling about two orthogonal, coplanar axes. Five independent degrees of freedom allow you to accurately position an optic in any plane along any axis.

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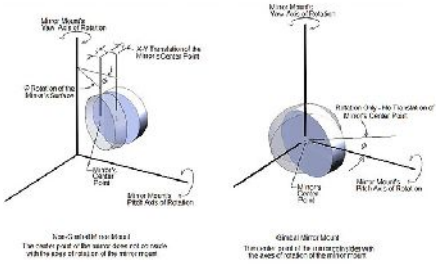


Holds More Than Just Spherical Lenses

The threaded central aperture accommodates optic retaining rings and a variety of optics holders for simple lenses, objective lenses, or other optics. Each unit is supplied with two non-marring Delrin retaining rings as well as an optic holder. LPLH Series Optics Holders allow quick interchange of optical components. They are available in standard sizes for 0.25, 0.5, 0.75, 1.0, or 1.5 in. diameter optics. The optic seats against a flat surface and is held by a Delrin retaining ring and the assembly simply threads into the LP Series positioners. A solid aluminum insert is also available for you to custom machine to hold virtually any optical component. LP Series Lens Positioners are also compatible with the CH Cube beam splitter mounts and CYH cylindrical lens mounts.

Truly Gimbaled Adjustments

LP-A Five-axis XYZ θXθY models provides smooth XYZ translation plus true gimbaling about two orthogonal, coplanar axes. These five independent degrees of freedom allow you to accurately position an optic in any plane along any axis.



Zero Free play XY Mechanism

Our zero-free play XY mechanism ensures accurate positioning and enhanced long-term stability, without relying on grease to take up the clearance between sliding elements, thereby reducing drift over both time and temperature.

Independent Non-influencing Locks

Independent locks for each axis of translation and rotation securely lock the mechanism, not just the actuator screws, maintaining stable optical alignment. Engaging or disengaging each lock has negligible influence on the other axes.

Slotted Base Plate for Table Mounting

All LP Series Lens Positioners can be bolted down to a table using the slotted base plate included — which will attach to either side of the mount. Two and three-axis positioners can also be bolted down without the slotted base plate by removing the mechanism from the base, bolting the base directly to a surface, and then reattaching the mechanism to the base (or they can be bolted to a vertical surface via two clearance holes in the base). Both English and metric threaded holes in the bottom of all mounts allow for post mounting, providing easy adjustment of their optical axis height and azimuthal orientation.

Accessories

LP-2A Optic Holders

	Compare	Description	Avail.	Price

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	Compare	Description	Avail.	Price
 (/p/LP2A-1-32)	**LP2A-1-32 (/p/LP2A-1-32)**	C-Mount Adapter, 1-32 Thread, 2 inch Lens Mount	**In Stock**	**$61.00**
 (/p/LPLH2-0)	**LPLH2-0 (/p/LPLH2-0)**	Optic Holder, Blank Machinable Insert, For LP-2A Series	**In Stock**	**$37.00**
 (/p/LPLH-1.5T)	**LPLH-1.5T (/p/LPLH-1.5T)**	Optic Holder, 1.50 inch Diameter, For LP-2A Series	**In Stock**	**$41.00**

LP-05A Optic Holders

	Compare	Description	Avail.	Price
 (/p/LPLH-25T)	**LPLH-25T (/p/LPLH-25T)**	Optic Holder, 0.25 inch Diameter, For LP-05A Series	**In Stock**	**$31.00**
 (/p/LPLH-50T)	**LPLH-50T (/p/LPLH-50T)**	Optic Holder, 0.50 inch Diameter, For LP-05A Series	**5 Weeks**	**$31.00**
 (/p/LPLH-75T)	**LPLH-75T (/p/LPLH-75T)**	Optic Holder, 0.75 inch Diameter, For LP-05A Series	**In Stock**	**$26.00**
 (/p/LPLH-BB)	**LPLH-BB (/p/LPLH-BB)**	Optic Holder, Blank Machinable Insert, For LP-05A Series	**In Stock**	**$19.50**
 (/p/LPMH-05)	**LPMH-05 (/p/LPMH-05)**	Microscope Objective Holder, 0.5 inch Lens Mount	**In Stock**	**$26.00**

LP-1A Optic Holders

	Compare	Description	Avail.	Price
 (/p/LP1A-1-32)	**LP1A-1-32 (/p/LP1A-1-32)**	C-Mount Adapter, 1-32 Thread, 1 inch Lens Mount	**In Stock**	**$51.00**
 (/p/LP1A-M30)	**LP1A-M30 (/p/LP1A-M30)**	M30 Objective Adapter, M30 x 1.5 Thread, for LP-1A Lens Mount	**In Stock**	**$31.00**
 (/p/LPLH-0)	**LPLH-0 (/p/LPLH-0)**	Optic Holder, Blank Machinable Insert, For LP-1A Series	**In Stock**	**$20.50**
 (/p/LPLH-1T)	**LPLH-1T (/p/LPLH-1T)**	Optic Holder, 1.00 inch Diameter, For LP-1A Series	**In Stock**	**$26.00**
 (/p/LPMH-1)	**LPMH-1 (/p/LPMH-1)**	Microscope Objective Holder, 1.0 inch Lens Mount	**In Stock**	**$26.00**

Related Products







(/f/tip_tilt-polarizer-rotation-mount)
(/c/achromatic-lenses)

Achromatic Lenses (/c/achromatic-lenses)



(/f/gimbaled-three-axis-optic-tilt-mount)
(/c/100-mm-precision-dovetail-optical-rails)

100 mm Dovetail Optical Rails (/c/100-mm-precision-dovetail-optical-rails)



(/f/1.5-in.-magnetic-base-optical-pedestal-pillars)
(/c/spherical-lenses)

Spherical Lenses (/c/spherical-lenses)

Support: (877)835-9620 (tel:(877)835-9620) **Hours:** Monday - Friday, 5am - 5pm PST **Contact Us (/contact-us)**

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