

Rotation Mount for Ø2" Optics



RSP2
General Purpose
Rotation Mount
with fixed scale

Our Ø2" RSP2 rotation mount utilizes two precision bearings for smooth, backlash-free rotation. The aperture is threaded with our internal SM2 (2.035"-40) threading to accept Ø2" (Ø50.8 mm) optics. One SM2RR retaining ring is included with each mount, which can secure optics up to 0.47" (12 mm) thick. The SM2 threading also provides a means to connect SM2 lens tubes and other components to the mount. A top-located setscrew locks the rotational position of the mount once the desired position has been reached.

The RSP2 features a knurled edge for adjusting rotation and a 360° laser-engraved scale. The scale is marked at 2° increments with labels every 20°, allowing for precise, repeatable positioning and fine angular adjustment.

- Mounts Ø2" (Ø50.8 mm) Optics up to 0.47" (12 mm) Thick
- Dimensions: Ø3.30" (Ø83.8 mm) and 0.63" (16 mm) Deep
- Compatible with SM2 Lens Tubes
- One SM2RR Retaining Ring Included
- Post-Mountable via an 8-32 (M4 x 0.7) Tapped Hole

ITEM #	METRIC ITEM #	\$	£	€	RMB	DESCRIPTION
RSP2	RSP2/M	\$ 151.80	£ 109.30	€ 132.07	¥ 1,209.85	Rotation Mount for Ø2" Optics
SM2RR*	SM2RR*	\$ 6.75	£ 4.86	€ 5.87	¥ 53.80	Additional SM2 Retaining Ring
SPW604*	SPW604*	\$ 43.40	£ 31.25	€ 37.76	¥ 345.90	Spanner Wrench for SM2RR

*Imperial and Metric Compatible

Ø2" Rotation Mount with Adjustable Scale

The RSP2C Rotation Mount utilizes two precision bearings for smooth, backlash-free rotation. The aperture is threaded with our standard SM2 (Ø2.035"-40) series threading, which accepts Ø2" (Ø50.8 mm) optics. The optic is secured using the included SM2RR retaining ring. The rotation dial has a knurled edge with a laser-engraved scale marked at 2° increments, which allows for precise repeatable positioning and fine rotational adjustment. A convenient top-located setscrew secures the rotational position of the mount.

The engraved scale can be unlocked and rotated independently of the optic so that the engraved scale can be aligned with respect to the mounted optic. For example, the zero of the engraved scale can be aligned with the fast axis of a wave plate or the polarization axis of a linear polarizer. To help with the alignment, an engraved arrow extends the zero mark all the way to the outside edge of the SM2-threaded bore used to mount the optic.

- Adjustable Scale for Alignment of Axis
- Mounts Ø2" Optics up to 0.54" (13.7 mm) Thick
- Dimensions: Ø3.30" (Ø83.8 mm) and 0.69" (17.4 mm) Deep
- Compatible with SM2 Lens Tubes
- One SM2RR Retaining Ring Included
- Post-Mountable via 8-32 (M4 x 0.7) Tapped Hole



RSP2C
Adjustable scale for
alignment with optic axis

ITEM #	METRIC ITEM #	\$	£	€	RMB	DESCRIPTION
RSP2C	RSP2C/M	\$ 136.00	£ 97.92	€ 118.32	¥ 1,083.92	Rotation Mount for Ø2" Optics
SM2RR*	SM2RR*	\$ 6.75	£ 4.86	€ 5.87	¥ 53.80	Additional SM2 Retaining Ring
SPW604*	SPW604*	\$ 43.40	£ 31.25	€ 37.76	¥ 345.90	Spanner Wrench for SM2RR

*Imperial and Metric Compatible

Nested Optical Mount for Ø2" Optics

Thorlabs' Nested Lens Mounts are comprised of an inner optic carriage and an outer mounting ring, which are sold separately. This allows easy exchange of optics while maintaining optical alignment. The inner carriage features a laser engraved scale marked at 2° increments.

The LM2-A carriage directly accepts Ø2" (Ø50.8 mm) optics up to a thickness of 0.48" (12.2 mm) into its SM2 (2.035"-40) threaded bore. The mating LM2-B locks the LM2-A in position with a thumbscrew. Each LM2-A includes one SM2RR retaining ring for securing optics.



SM2 Internally Threaded (One
SM2RR Retaining Ring Included)

8-32 (M4 x 0.7) Tap

ITEM #	METRIC ITEM #	\$	£	€	RMB	DESCRIPTION
LM2-A	LM2-A*	\$ 26.40	£ 19.01	€ 22.97	¥ 210.41	Ø2" Nested Optic Holder
LM2-B	LM2-B/M	\$ 29.40	£ 21.17	€ 25.58	¥ 234.32	Outer Ring for LM2-A
SM2RR*	SM2RR*	\$ 6.75	£ 4.86	€ 5.87	¥ 53.80	Additional SM2 Retaining Ring

*Imperial and Metric Compatible