ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *ThorLabs AD2* at our website: *Click HERE*

Ø2" Adapters for Unmounted Optics

- Mounting Solutions for Ø1" to Ø48 mm Optics
- Adapt Optics to Mounts with Either Ø2" Bore or Internal SM2 Threading
- Setscrew or Retaining Ring for Optic Retention



AD2
Ø1" Smooth Central Bore
Ø2" Smooth Outer Surface



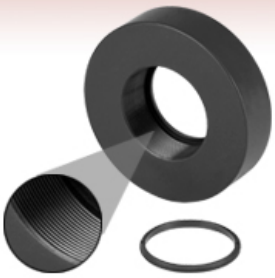




SM2AD42
Internally M42.5 x 0.5 Threaded
Central Bore, Externally SM2 Threaded



SM2B2
Ø1.51" Smooth Central Bore,
Externally SM2 Threaded



AD2T
Internally SM1-Threaded
Central Bore, Ø2" Smooth
Outer Surface

Overview | Feedback

Thorlabs offers these Ø2" adapters for unmounted optics to easily integrate various optic diameter standards into Ø2" optomechanical systems, including optic mounts and lens tubes (see the Selection Guide to the right). The unthreaded adapters presented here are double-bored to provide 2 lines of mounting contact for Ø1", Ø30 mm, or Ø1.5" optics. Our externally SM2- (2.035"-40) threaded adapters with internally threaded central bores can house optics ranging from Ø30 mm to Ø48 mm. A Ø2" adapter with internal SM1 (1.053"-40) threading for Ø1" optics and and externally SM2-threaded adapters with smooth central bores for components are also available.

Thorlabs also offers Ø1" adapters for unmounted optics.

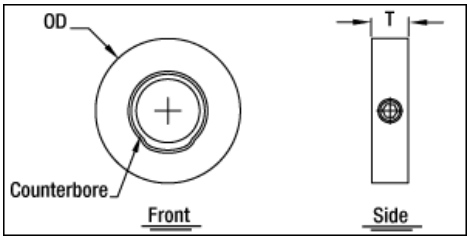
Selection Guide		
Optic Retention	**Smooth 2" Outer Diameter**	**Externally SM2-Threaded Outer Surface**
Smooth Bore w/ Setscrew	Adapters for Ø1", Ø30 mm, or Ø1.5" Optics	Adapter for Ø1.5" Components
Close Approach Dual Bore w/ Setscrew	Adapter for Ø1" Optics	-
Internal Threads w/ Retaining Rings	Adapter for Ø1" Optics	Adapters for Optics between Ø30 mm and Ø48 mm
Smooth Bore w/ Setscrew	Adapter for Ø1.2" Components	

Ø2" Adapters with Counterbore



Zoom

These unthreaded adapters feature a smooth Ø2" outer surface and a double-bored counterbore to provide two lines of mounting contact. The counterbores in the AD2, AD2-30, and AD2-1.5 are Ø1", Ø30 mm and Ø1.5", respectively. Optics are secured against the two contact lines using a nylon-tipped setscrew.





Click to Enlarge
Ø1" Optic Mounted in a Ø2" KM200
Mirror Mount Using an AD2 Adapter

Item #	Counterbore	OD[a]	Optic Thickness (Min)[b]	T[c]
AD2	Ø1.00" (Ø25.4 mm)	Ø2.00"	0.22" (5.6 mm)	0.25" (6.4 mm)
AD2-30	Ø30 mm (Ø1.18")	Ø2.00"	0.22" (5.6 mm)	0.25" (6.4 mm)
AD2-1.5	Ø1.51" (Ø38 mm)	Ø2.00"	0.27" (6.9 mm)	0.33" (8.4 mm)

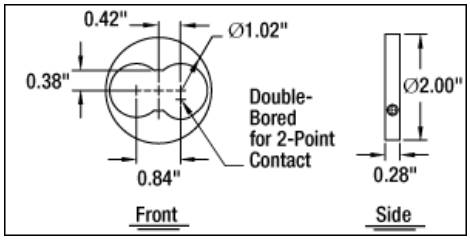
a. Outer Diameter.
b. This specification is true for thin lenses. For lenses with short focal lengths, and hence large lens curvatures, please contact technical support to ensure a proper fit.
c. Thickness of the adapter. See the drawing above.

Add To Cart

Ø2" Close Approach Adapter for Ø1" Optics



The AD2-CA is designed with a 2" outer diameter and dual Ø1" internal bores. Please note that only one internal bore is meant for mounting the optic, which is held in place with an 8-32 nylon-tipped setscrew. This adapter enables separation of closely spaced beams with Ø1" circular optical components and is ideal for applications that require a narrow-angle back reflection. If you wish to mount one of our D-shaped mirrors, we recommend using one of our D-shaped mirror mounts.



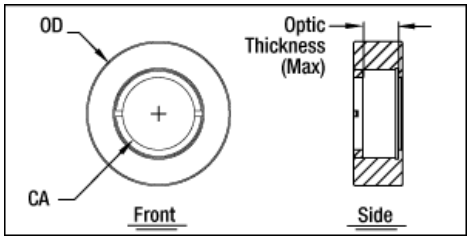


Click to Enlarge
The AD2-CA Adapter Allows Separation of Closely Spaced Beams Using Ø1" Optics

Ø2" Adapter with Internal SM1 Threads



The AD2T Adapter features internal SM1 threading and is designed to hold a Ø1" unmounted optic up to 0.37" (9.4 mm) thick with the included SM1RR retaining ring.[b] Alternatively, retaining rings can be used to hold this adapter in an SM2 lens tube. With a smooth outer diameter, the AD2T is especially well suited for mounting Ø1" wave plates into Ø2" mounts.





Click to Enlarge
Ø1" Optic in Threaded SM1 Lens Tube Mounted in Ø2" KM200 Mirror Mount Using an AD2T Adapter

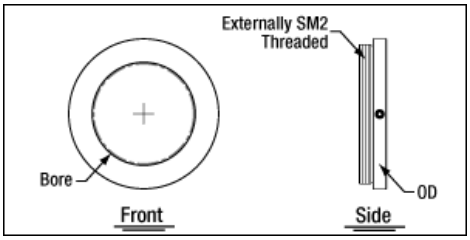
Item #	CA	OD	Optic Thickness (Max)	Internal Thread	Retaining Ring	Spanner Wrench
AD2T	Ø23.0 mm[a]	Ø2"	0.37" (9.4 mm)[b]	SM1 (1.035"-40)	SM1RR	SPW801 or SPW602

a. Clear Aperture of retaining ring.
b. Maximum Optical Thickness: This specification is true for thin lenses. For lenses with short focal lengths, and hence large lens curvatures, please contact technical support to ensure a proper fit.

SM2-Threaded Mounting Adapters with Internal Bore



These adapters feature external SM2 threads and center bores through the length of each part. The SM2B2 adapter has a 0.05" hex setscrew that secures Ø1.5" objects. The SM2A21 adapter has a 5/64" (2 mm) hex nylon-tipped setscrew, secures Ø1.2" components, and also features a 2.00" (50.8 mm) outer diameter. This allows the SM2A21 to be used with Ø2" optic mounts, such as the KM200. Both mounts feature SM2 threads, allowing them to be mounted in our SM2 Lens Tubes and SM2-compatible mounts.





Click to Enlarge
SM1 Lens Tube Mounted in KM200 Mount Using SM2A21

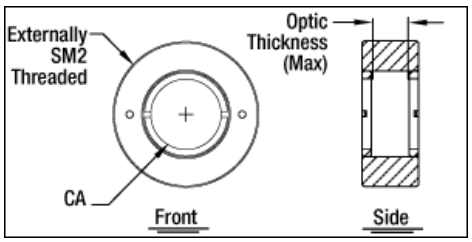
Item #	Bore	OD	Optic Thickness (Max)	External Thread
SM2A21	Ø1.20" (Ø30.5 mm)	Ø2.00" (Ø50.8 mm)	N/A[a]	SM2 (2.035"-40)
SM2B2	Ø1.51" (Ø38.2 mm)	Ø2.20" (Ø55.9 mm)	N/A[a]	SM2 (2.035"-40)

a. These adapters each have a center bore through the length of the part, so the thickness of the mounted object is not limited.

SM2-Threaded Mounting Adapters with Internal Threads



These externally SM2-threaded adapters are designed to mount optics between Ø30 mm and Ø48 mm in internally SM2-threaded components, such as our Ø2" Lens Tubes or Ø2" Optic Mounts. Each mount features external SM2 threads and an internally threaded central bore (see the table below for thread specifications). Two retaining rings are included for securing optics in the adapter.



Item #	Optic	CA[a]	Optic Thickness (Max)[b]	Internal Thread	External Thread	Retaining Ring	Spanner Wrench
SM2AD30	Ø30 mm	Ø1.10" (Ø27.9 mm)	0.28" (7.1 mm)	M30.5 x 0.5	SM2 (2.035"-40)	SM30RR	
SM2AD31	Ø31 mm	Ø1.14" (Ø29.0 mm)	0.28" (7.1 mm)	M31.5 x 0.5	SM2 (2.035"-40)	SM31RR	
SM2AD32	Ø32 mm	Ø1.18" (Ø30.0 mm)	0.28" (7.1 mm)	M32.5 x 0.5	SM2 (2.035"-40)	SM32RR	
SM2AD33	Ø33 mm	Ø1.22" (Ø31.0 mm)	0.28" (7.1 mm)	M33.5 x 0.5	SM2 (2.035"-40)	SM33RR	
SM2AD34	Ø34 mm	Ø1.26" (Ø32.0 mm)	0.28" (7.1 mm)	M34.5 x 0.5	SM2 (2.035"-40)	SM34RR	
SM2AD35	Ø35 mm	Ø1.30" (Ø33.0 mm)	0.28" (7.1 mm)	M35.5 x 0.5	SM2 (2.035"-40)	SM35RR	
SM2AD36	Ø36 mm	Ø1.34" (Ø34.0 mm)	0.28" (7.1 mm)	M36.5 x 0.5	SM2 (2.035"-40)	SM36RR	
SM2AD37	Ø37 mm	Ø1.38" (Ø35.0 mm)	0.28" (7.1 mm)	M37.5 x 0.5	SM2 (2.035"-40)	SM37RR	
SM2AD1.5	Ø1.5"	Ø1.37" (Ø34.8 mm)	0.36" (9.1 mm)	1.535"-40	SM2 (2.035"-40)	SM1.5RR	
SM2AD39	Ø39 mm	Ø1.44" (Ø36.5 mm)	0.36" (9.1 mm)	M39.5 x 0.5	SM2 (2.035"-40)	SM39RR	SPW801
SM2AD40	Ø40 mm	Ø1.47" (Ø37.5 mm)	0.36" (9.1 mm)	M40.5 x 0.5	SM2 (2.035"-40)	SM40RR	
SM2AD41	Ø41 mm	Ø1.51" (Ø38.5 mm)	0.36" (9.1 mm)	M41.5 x 0.5	SM2 (2.035"-40)	SM41RR	
SM2AD42	Ø42 mm	Ø1.55" (Ø39.5 mm)	0.36" (9.1 mm)	M42.5 x 0.5	SM2 (2.035"-40)	SM42RR	
SM2AD43	Ø43 mm	Ø1.59" (Ø40.5 mm)	0.36" (9.1 mm)	M43.5 x 0.5	SM2 (2.035"-40)	SM43RR	
SM2AD44	Ø44 mm	Ø1.63" (Ø41.5 mm)	0.36" (9.1 mm)	M44.5 x 0.5	SM2 (2.035"-40)	SM44RR	
SM2AD45	Ø45 mm	Ø1.67" (Ø42.4 mm)	0.36" (9.1 mm)	M45.5 x 0.5	SM2 (2.035"-40)	SM45RR	
SM2AD46	Ø46 mm	Ø1.71" (Ø43.5 mm)	0.36" (9.1 mm)	M46.5 x 0.5	SM2 (2.035"-40)	SM46RR	
SM2AD47	Ø47 mm	Ø1.75" (Ø44.5 mm)	0.36" (9.1 mm)	M47.5 x 0.5	SM2 (2.035"-40)	SM47RR	
SM2AD48	Ø48 mm	Ø1.79" (Ø45.5 mm)	0.36" (9.1 mm)	M48.5 x 0.5	SM2 (2.035"-40)	SM48RR	

a. Clear Aperture of Retaining Ring.
b. Maximum Optical Thickness: This specification is true for thin lenses. For lenses with short focal lengths, and hence large lens curvatures, please contact technical support to ensure a proper fit.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP