

Optomechanics

Mounting Basics

Optical Rails

Mirror Mounts

Lens Mounts

Filter Mounts

Rotation Mounts

Adapters

V-Mounts

Apertures
& Iris Diaphragms

Lens Tubes

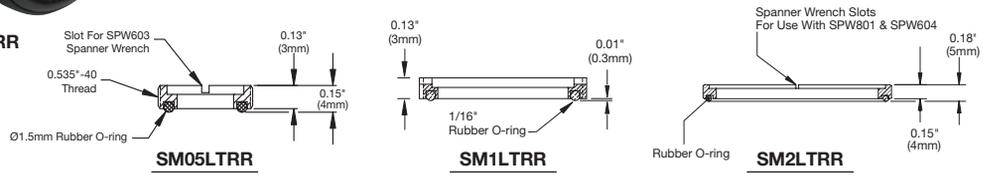
Cage Systems

Stress-Free Retaining Rings



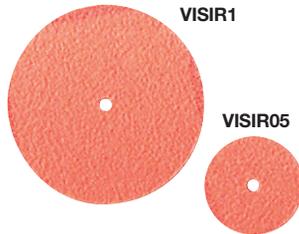
- Design Provides Reduced Stress Clamping Action
- Provides Light-Tight Seal Around an Optic
- Standard SM05 Thread is Compatible With All Standard Ø1/2" Lens Tubes and the SPW603 Spanner Wrench
- Standard SM1 Thread is Compatible With All Standard Ø1" Lens Tubes and the SPW602 Spanner Wrench
- Standard SM2 Thread is Compatible With All Standard Ø2" Lens Tubes and the SPW604 or SPW801 Spanner Wrench

Thorlabs has developed SM05LTRR, SM1LTRR, and SM2LTRR for stress-free mounting of Ø5", Ø1", and Ø2" components, with a rubber O-ring that provides a light-tight seal around the optical components. These stress-free adapters are compatible with our SM series lens tubes and mounts. See page 213 for compatible spanner wrenches.



ITEM#	\$	£	€	RMB	DESCRIPTION
SM05LTRR	\$ 18.40	£ 11.60	€ 17,10	¥ 175.70	SM05 Series Stress-Free Retaining Ring
SM1LTRR	\$ 21.40	£ 13.50	€ 19,90	¥ 204.40	SM1 Series Stress-Free Retaining Ring
SM2LTRR	\$ 23.00	£ 14.50	€ 21,40	¥ 219.70	SM2 Series Stress-Free Retaining Ring

IR Alignment Disks



These alignment disks are ideal as drop-in tools during setup of IR experiments. The central hole allows part of the beam to pass and can aid in checking the position of potential back reflections.

Features

- SM1 and SM05 Compatible
- High Persistence, High Conversion Efficiency for Viewing CW Beams
- Ideal Alignment Aid for Use With Our Ø1/2" and Ø1" Optical Component Holders
- 1mm Central Hole to Allow Partial Beam Transmission

Application Idea



VISIR1 Shown With LMR1 Post and Post Holder Sold Separately

ITEM#	METRIC ITEM#	SIZE	\$	£	€	RMB	DESCRIPTION
VISIR05*	VISIR05	1/2"	\$ 19.40	£ 12.20	€ 18,00	¥ 185.30	Ø1/2" IR Alignment Disk
VISIR1*	VISIR1	1"	\$ 29.60	£ 18.60	€ 27,50	¥ 282.70	Ø1" IR Alignment Disk
RMSIR*	RMSIR	0.8"	\$ 80.00	£ 50.40	€ 74,40	¥ 764.00	RMS IR Alignment Disk

*Universal Design: Imperial and Metric Compatible

IR Viewing/Alignment Disk



SM1A8

IR Viewing Surface

- Slow Fading, Constant Emission for Viewing CW Beams
- Ideal Alignment Aid
- Threaded for Use Within the SM1 Series and the Thorlabs Cage Assemblies (See Page 221)



Rubber O-Ring Holds IR Viewing Surface in Place

ITEM#	\$	£	€	RMB
SM1A8	\$ 76.50	£ 48.20	€ 71,10	¥ 730.60

Alignment Disk



SM1A7

Rear boss threads into any SM1 series tubes

The SM1A7 and SM05A7 alignment disks provide a useful aid when building optical assemblies from our SM series of products. The SM05A7 is threaded to fit into any product with SM05 internal threads whereas the SM1A7 is threaded to fit into any product with SM1 threads.

SM05A7

Rear Boss Threads Into Any SM05 Series Tubes

ITEM#	\$	£	€	RMB
SM05A7	\$ 21.50	£ 13.50	€ 20,00	¥ 205.30
SM1A7	\$ 24.00	£ 15.10	€ 22,30	¥ 229.20