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TECHNOLOGY GROUP

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Find the *ThorLabs VA100* at our website: *Click HERE*

Adjustable Mechanical Slits

- 1-to-1 Micrometer to Slit Width Adjustment
- 0" to 0.24" (0 to 6 mm) Slit Size
- SM05-Threaded Aperture



VA100
Mechanical Slit



VA100C
Mechanical Slit for
30 mm Cage System



Back View
Opened



Front View
Nearly Closed



Back View
Closed

Related Items

Mounted Slits



Pinholes



Irises and Apertures



SM05 Lens Tubes



Overview | Feedback

Features

- Fine Micrometer Adjustment of Slit Width
- Slit Width: 0 to 0.24" (0 to 6 mm)
- Internal SM05 (0.535"-40) Threads for Integrating Lens Tubes

Item #	VA100	VA100C	VA100/M	VA100C/M
Slit Width (Maximum)	0.24"		6 mm	
Micrometer Graduation	0.001" per Division		10 µm per Division	
Slit Width Adjustment per Rev	0.025"		0.5 mm	
Slit Width Repeatability	0.001"		20 µm	
Slit Centering Tolerance	±0.003"		±0.08 mm	
Post Mounting Tap	8-32 Tap		M4 Tap	

The VA100(/M) Mechanical Slit and VA100C(/M) Mechanical Slit for our 30 mm Cage System provide precise adjustment of two A2 tool steel blades centered equally about an SM05-threaded through hole. Each blade is black to reduce unwanted reflections. The VA100C(/M) slit is mounted in a housing with four Ø6 mm through holes for 30 mm cage system rods; each rod can be locked in place with setscrews using a 0.05" (1.3 mm) hex key or balldriver. When mounted within a cage system, these through holes allow the slit to be oriented either vertically or horizontally. The unique design of both the VA100(/M) and VA100C(/M) mounts provides a 1-to-1 correlation between the adjustment of the precision micrometer drive and the subsequent change in slit width to within 0.001" (20 µm for the metric micrometer). The actual slit width ranges from fully closed to 0.24" (6 mm) wide with 0.025" (0.5 mm for the metric micrometer) of adjustment per revolution.

In the fully closed position, the two blades are touching. However, imperfections in the blades and the degree to which the blades are parallel can cause gaps as large as 0.001" (25 µm) in width. The slit opening remains centered on the SM05-threaded (0.535"-40) aperture as the slit width is varied. The slim profile of the mounts makes them ideal for use with compact optical assemblies. On each mount there is a bottom-located 8-32 or M4 mounting hole that is compatible with our standard Ø1/2" posts. Each mount also has a through hole that is SM05 threaded on both sides. The back side threads are 0.24" (6.2 mm) deep on every mount, while the front side threads are 0.09" (2.4 mm) deep on the VA100(/M) and 0.09" (2.2 mm) deep on the VA100C(/M). This SM05 threading allows for compatibility with a variety of Thorlabs' products, including mounted optics and Ø1/2" lens tubes.



Click to Enlarge
View Imperial Product List
View Metric Product List
The VA100C Variable Slit and the CFH2-V Variable Shutter in a 30 mm Cage System

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Imperial		Price	Available
+1			VA100	Adjustable Mechanical Slit, 8-32 Tap, Imperial Micrometer	$273.77	Lead Time
+1			VA100C	Customer Inspired! 30 mm Cage System Adjustable Slit, 8-32 Tap, Imperial Micrometer	$287.84	Lead Time

+1	Qty	Docs	Part Number - Metric		Price	Available
+1			VA100/M	Adjustable Mechanical Slit, M4 Tap, Metric Micrometer	$273.77	5-8 Days
+1			VA100C/M	Customer Inspired! 30 mm Cage System Adjustable Slit, M4 Tap, Metric Micrometer	$287.84	Lead Time

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