

## Spatial Filter Movement



Stock #39-976 **4 In Stock**

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**!** Prices shown are exclusive of VAT/local taxes

### Product Downloads

### Physical & Mechanical Properties

Black Anodized Aluminum **Construction:**

Pinhole: ±3 in X-Axis and Y-Axis  
Objective: 19 in Z-Axis **Travel (mm):**

9.5 **Aperture (mm):**

2.5 in Z-Axis **Accuracy (µm):**

## Threading & Mounting

**Mount:**  
36 TPI 55° Whitworth (DIN Objective)

**Mounting Threads:**  
1/4-20

**Leadscrew Thread:**  
50.8 TPI in X-Axis and Y-Axis

## Regulatory Compliance

**RoHS 2015:**  
[Compliant](#)

**Certificate of Conformance:**  
[View](#)

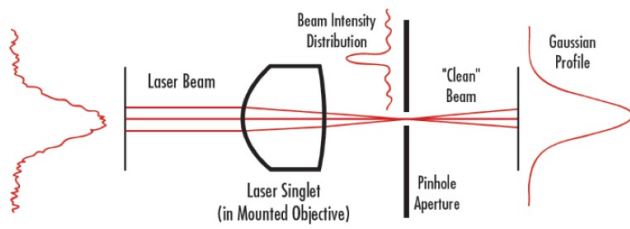
## Product Details

- X-Y Adjustable
- Pre-Mounted on a Gimbal Tilt-Table
- Open-Style Design

Our precision open-style spatial filter mechanism features a ball bearing, spring-loaded dual stainless rail objective movement with a micrometer drive. The pinhole mount accepts standard 3/8" (9.5mm) discs from our line of [Pinholes & Slits](#) and is X-Y adjustable via two fine thumbscrews. This entire assembly is mounted on a gimbal tilt-table with X-Y two-axis adjustment by two fine thumbscrews. A 1/4-20 tap hole on the gimbal platform base allows for easy mounting to posts or other positioning equipment. The [Understanding Spatial Filters](#) application note will help you select the appropriate components for your laser application.

**Note:** Spatial Filter does not operate with 5.5mm objective. Spatial Filter Movement is only compatible with the following objectives: DIN Achromatic 4X ([#43-902](#)), DIN Plan 4X ([#67-706](#)), and the JIS Achromatic 10X

## Technical Information



| Input Beam Diameter (mm) | Magnification/Focal Length of Objective Lens (mm) |           |
|--------------------------|---|-----------|
|                          | 4X/31.04  | 10X/17.13 |
| 0.96                     | 35µm  | 20µm      |
| 0.81                     | 50µm  | 25µm      |
| 0.75                     | 50µm  | 25µm      |
| 0.70                     | 50µm  | 25µm      |
| 0.68                     | 50µm  | 25µm      |
| 0.63                     | 50µm  | 35µm      |
| 0.48                     | 50µm  | 35µm      |