Newport’s compact, highly stable flexure mirror mounts are designed for “set and forget” OEM applications. All steel construction, stiff flexure pivots, and precision adjustment screws provide excellent mechanical and thermal stability.

80-pitch adjustment screws yield arc sec-level sensitivity over a ±3.5° range. Adjustment is easy using an Allen wrench or our optional BD-05 ball driver. No bulky knobs risk accidental misalignment in the field. Mirrors can mount in either face, so adjustments can be made from the front or the back of the mount. A mirror can be secured with the built-in nylon-tipped set screw or adhesive.

For the MFM-075, an optional adaptor, Model A-75-50, is available to accommodate 0.5 in. (12.7 mm) optics.

The MFM-050-B and MFM-B mounting brackets provide variable optical axis height and solid attachment to surfaces. They allow angular adjustment to be made from either side, so you never obstruct the beam path during alignment. MFM-050-B positions the optical axis height from 0.5–1 in. (12.7–25.4 mm), while MFM-B positions it from 1 to 2 in. (25.4–50.8 mm).

If our flexure mirror mounts or brackets don’t meet your OEM needs, contact us with your custom requirements.

Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel, fixed position</td>
<td>±3.5°</td>
</tr>
<tr>
<td>Travel, repetitive motion</td>
<td>±2.5°</td>
</tr>
<tr>
<td>Sensitivity (arc sec)</td>
<td>≤9 for MFM-050, ≤7 for MFM-075, ≤5 for MFM-100</td>
</tr>
</tbody>
</table>
Ordering Information

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFM-050</td>
<td>For 0.5 in. (12.7 mm) diameter optics</td>
<td>$85</td>
</tr>
<tr>
<td>MFM-075</td>
<td>For 0.75 in. (19.05 mm) diameter optics</td>
<td>$88</td>
</tr>
<tr>
<td>MFM-100</td>
<td>For 1.0 in. (25.4 mm) diameter optics</td>
<td>$99</td>
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<tr>
<td>MFM-050-B</td>
<td>Mounting bracket for MFM-050</td>
<td>$37</td>
</tr>
<tr>
<td>MFM-B</td>
<td>Mounting bracket for MFM-075 or MFM-100</td>
<td>$40</td>
</tr>
<tr>
<td>A-75-50</td>
<td>0.75–0.5 in. (19.05–12.7 mm) Adaptor</td>
<td>$27</td>
</tr>
<tr>
<td>BD-05</td>
<td>Ball Driver for adjustment, 0.050 in.</td>
<td>$5</td>
</tr>
</tbody>
</table>

Model MFM-050

- 2 HOLES 4-40 THD
- ø.50 X 10 DEEP (12.7 X 2.5 DEEP)
- ø.50 X 0.10 DEEP (12.7 X 0.25 DEEP)
- SET SCREW

Model MFM-050-B

- 1/4-20 (M6) SCREW SLOT
- 4-40 SCREW CLEARANCE SLOTS, 2 PLACES
- 2 HOLES ø.13 (3.3)
- ø.50 X 0.10 DEEP (12.7 X 0.25 DEEP)
- ø.27 (6.8) SLOT
- ø.45 (11.4) CLEAR APERATURE

Model MFM-B

- 2 HOLES ø.13 (3.3)
- X & Y ADJUST
- ø.50 X 0.10 DEEP (12.7 X 0.25 DEEP)
- ø.50 X 1.00 DEEP (12.7 X 2.5 DEEP)
- ø.59 (15.0) TYP

Model MFM-075, MFM-100

- 2 HOLES ø.13 (3.3)
- X & Y ADJUST
- ø.50 X 0.10 DEEP (12.7 X 0.25 DEEP)
- ø.75 (19.1) TYP

Model A-75-50

- ø.47 (11.9)
- ø.51 (13.0)
- ø.98 (2.5)
- ø.12 (3.0)

See our website for CAD files.

<table>
<thead>
<tr>
<th>Diameter [in. (mm)]</th>
<th>Dimension [in. (mm)]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>A</td>
</tr>
<tr>
<td>MFM-075</td>
<td>0.71 (18.0)</td>
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<tr>
<td>MFM-100</td>
<td>0.96 (24.4)</td>
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