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50mm Dia., 0.1mm Thick, Protected Aluminum, Ultra-Thin Mirror



Ultra-Thin First Surface Mirrors

Stock #70-092 **10 In Stock**

⊖ 1 ⊕ **S\$120⁰⁰**

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Volume Pricing

Qty 1-10	S\$120.40 each
Qty 11-49	S\$107.80 each
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General

Flat Mirror **Type:**

Physical & Mechanical Properties

50.00 ±0.25 **Diameter (mm):**

0.10 ±0.01 **Thickness (mm):**

Clear Aperture CA (mm):

45.00

Cut **Edges:**

Optical Properties

Coating Type:
Metal

Coating:
Protected Aluminum (400-700nm)

Wavelength Range (nm):
400 - 700

Substrate:
SCHOTT D 263®T eco

Coating Specification:
R_{avg} ≥85% @400 - 700nm @45° AOI

Surface Quality:
80-50

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Certificate of Conformance:
[View](#)

Reach 247:
[Compliant](#)

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

- Ultra-Thin 0.1mm Thickness Substrates
- Protected Aluminum Coated for High Reflectivity in the Visible Spectrum
- Ideal for Weight and Space Sensitive Applications

Ultra-Thin First Surface Mirrors feature an ultra-thin 0.1mm thickness substrate with a protected aluminum coating for ≥85% reflectivity from 400-700nm. Using SCHOTT D263®T eco substrates, these mirrors offer high chemical resistance, environmental durability, excellent thickness tolerances, and low total thickness variation (TTV). These mirrors can be secured into systems using epoxy or optical adhesive, such as [Norland Optical Adhesives](#) or [Milbond Adhesive System](#). Ultra-Thin First Surface Mirrors are ideal for beam or light steering applications requiring lightweight, compact optics, such as portable medical and diagnostic devices.

Note: These Ultra-Thin First Surface Mirrors are very fragile and should be handled with care.