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TECHSPEC® 50mm Diameter UV Enhanced Aluminum Coated, λ/10 Mirror

Stock **#68-319** **4 In Stock**

- 1 + **£153.60**

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Volume Pricing	
Qty 1-5	**£153.60** each
Qty 6-25	**£123.20** each
Qty 26-49	**£116.00** each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Flat Mirror

Physical & Mechanical Properties

Diameter (mm):

50.00 +0.00/-0.20

Thickness (mm):

5.00 ±0.20

Back Surface:
Commercial Polish

Bevel:
Protective as needed

Clear Aperture (%):
90

Dimensional Tolerance (mm):
+0.0/-0.20

Edges:
Ground

Parallelism (arcsec):
30

Optical Properties

Wavelength Range (µm):
0.25 - 0.7

Coating Type:
Metal

Coating:
Enhanced Aluminum (250-700nm)

Surface Flatness (P-V):
λ/10

Wavelength Range (nm):
250 - 700

Substrate:
Fused Silica (Corning 7980)

Coating Specification:
R_{avg} >89% @ 250 - 450nm
R_{avg} >85% @ 250 - 700nm

Surface Quality:
20-10

Damage Threshold, Reference:
0.5 J/cm^2 @ 355nm, 10ns

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

- Precision Fused Silica Substrate
- Variety of Sizes and Coating Options Available
- Low Coefficient of Thermal Expansion

TECHSPEC® λ/10 First Surface Mirrors are ideal for demanding beam steering and reflection applications in the visible and IR spectra. With a precision fused silica substrate, the mirrors feature a low coefficient of thermal expansion while being highly durable and resistant to abrasion. These precision mirrors are available in a variety of sizes and coating options, including enhanced aluminum, protected gold, and protected silver. These coatings allow for improved handling of the component, increased durability of the metal coating, and protection from oxidation with little impact to the performance on the metal coating. TECHSPEC® λ/10 First Surface Mirrors can be utilized in various optics and photonics applications, including biotech instruments such as DNA sequencers and polymerase chain reaction (PCR) testing platforms.

Note: Surface flatness is measured before coating.

Compatible Mounts

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