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TECHSPEC® 31.75mm Sq., 2.5X, Protected Gold Off-Axis Ellipsoidal Mirror



Protected Gold Off-Axis Ellipsoidal Mirror

Stock **#12-498** [CONTACT US](#)

⊖ 1 ⊕ ₹27,092

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Volume Pricing	
Qty 1-5	₹27,092 each
Qty 6-25	₹24,445 each
Qty 26-50	₹21,720 each
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General

Off-Axis Ellipsoidal Mirror **Type:**

Physical & Mechanical Properties

49.38 **Y Offset (mm):**

31.75 x 31.75 **Dimensions (mm):**

31.75	Length (mm):
31.75	Width (mm):
<100 RMS	Surface Roughness (□):
83.82	Image Distance (mm):
Optical Properties	
Metal	Coating Type:
Protected Gold (700-10000nm)	Coating:
65.44	Off-Set Angle (°):
700 - 10000	Wavelength Range (nm):
Aluminum 6061-T6	Substrate: □
R _{avg} >96% @ 700 - 2000nm R _{avg} >96% @ 2000 - 10,000nm	Coating Specification:
60-40	Surface Quality:
2.5X	Magnification:
33.02	Object Distance (mm):
λ/4	Reflected Wavefront, RMS:

Regulatory Compliance	
View	Certificate of Conformance:
United States	Country of Origin:
Edmund Optics India Private Limited	Imported By:

Custom

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

- <100Å Surface Roughness for Low Scatter
- Diamond Turned Alignment Surfaces
- Ideal for Finite Conjugate Reflection

TECHSPEC® Off-Axis Ellipsoidal Mirrors are finite conjugate focusing mirrors used to image at a set angle. These mirrors feature fixed conjugate image and object path lengths, providing up to 2.5X magnification from the object plane to the imaging plane. Off-Axis Ellipsoidal Mirrors are commonly found in Fourier-transform infrared spectroscopy (FTIR) systems where broadband light sources require the use of metallic reflectors with an off-axis design to meet space constraints. TECHSPEC Off-Axis Ellipsoidal Mirrors feature a diamond turned cylindrical surface on their base, with a radius equivalent to the distance to the major axis of the ellipse, for aligning the mirror to the major axis as well as a diamond turned flat reference surface that is perpendicular to the major axis. Please contact us if your application requires an Off-Axis Ellipsoidal Mirror with custom specifications.

Technical Information



