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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

**ADD TO CART**

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

**General**

Off-Axis Ellipsoidal Mirror **Type:**

**Physical & Mechanical Properties**

49.38 **Y Offset (mm):**

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

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

<b>Regulatory Compliance</b>	
<a href="#">View</a>	<b>Certificate of Conformance:</b>
United States	<b>Country of Origin:</b>
Edmund Optics India Private Limited	<b>Imported By:</b>

## 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



