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**TECHSPEC® 50.8 x 108.9mm EFL 30° Protected Gold 175Å Off-Axis Parabolic Mirror**



Stock #47-090 CLEARANCE **1 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ C\$838<sup>00</sup>

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**General**

Off-Axis Parabolic Mirror **Type:**

**Physical & Mechanical Properties**

50.80 +0.00/-0.38 **Diameter (mm):**

<175 RMS **Surface Roughness (□):**

54.45 **Y Offset (mm):**

## Optical Properties

108.89	Effective Focal Length EFL (mm):
±1	Focal Length Tolerance (%):
203.20	Radius of Curvature (mm):
Protected Gold (700-10000nm)	Coating:
Metal	Coating Type:
$R_{avg} \geq 94\%$ @ 700 - 800nm $R_{avg} \geq 97\%$ @ 800 - 2,000nm $R_{avg} \geq 98\%$ @ 2,000 - 12,000nm	Coating Specification:
30	Off-Set Angle (°):
101.6	Parent Focal Length PFL (mm):
$\lambda/4$	Surface Figure, RMS:
700 - 10000	Wavelength Range (nm):
80-50	Surface Quality:
Aluminum 6061-T6	Substrate:
$\lambda/2$	Reflected Wavefront, RMS:

## Threading & Mounting

#47-112	Compatible Mounting Plates:
Compliant	RoHS 2015:
Compliant	Reach 209:
View	Certificate of Conformance:

## Regulatory Compliance

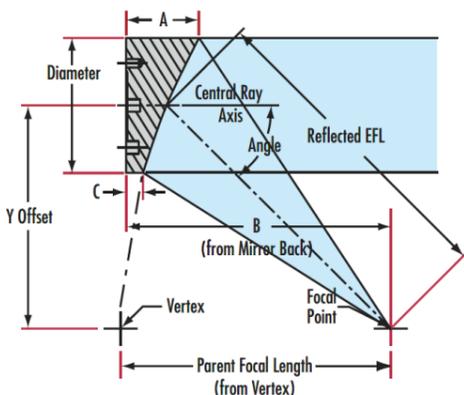
## Product Details

If scattering is a concern, consider our [Low Scatter Off-Axis Parabolic Mirrors](#).

- Bare or Protected Gold Coating for NIR and IR Applications
- 50Å and 100Å Surface Roughness Options
- 15°, 30°, 45°, 60°, or 90° Offset Angles
- Aluminum and Silver Coated Mirrors Also Available

TECHSPEC® Gold Off-Axis Parabolic Mirrors (OAPs) are designed for minimal scatter loss in light focusing applications. Available with bare or protected gold coatings, these OAP mirrors offer excellent reflectivity from the near infrared (NIR) to the far infrared (IR). Multiple surface roughness options are available in offset angles from 15 to 90°, providing flexibility for system designs. TECHSPEC® Gold Off-Axis Parabolic Mirrors are commonly used in IR systems such as FLIR and FTIR, as well as IR lasers including quantum cascade lasers (QCLs). Mounting plates with holes perpendicular to the optical axis for post mounting are also available.

## Technical Information



## Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. [Explore](#)

our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



**Component Handling Tools**

## 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](#).

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