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**TECHSPEC®**

# 50.8 x 101.6mm EFL 60° Protected Gold 100Å Off-Axis Parabolic Mirror



TECHSPEC Gold Off-Axis Parabolic Mirrors

 Stock #35-528 **1 In Stock** [Other Coating Options](#)

- 1 +

MRP ₹60,434

Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹60,434 each
Qty 6-10	₹54,380 each
Qty 11+	₹51,959 each
Need More?	<a href="#">Request Quote</a>

**Product Downloads**

- STEP:step Curve:pdf
- PDF Drawing:pdf IGES:igs
- Zemax:zmx eDrawing:eprt
- Code V:seq EO Spec Sheet
- [Download All](#)

**General**
**Type:** Off-Axis Parabolic Mirror

**Physical & Mechanical Properties**
**Y Offset (mm):** 87.98

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

**Clear Aperture (%):** 90

**Surface Roughness (Å):** <100 RMS

**Optical Properties**
**Coating Type:** Metal

**Coating:** Protected Gold (700-10000nm)

**Off-Set Angle (°):** 60

**Wavelength Range (nm):** 700 - 10000

**Effective Focal Length EFL (mm):** 101.60

**Substrate:** Aluminum 6061-T6

**Coating Specification:** R<sub>avg</sub> ≥ 94% @ 700 - 800nm  
R<sub>avg</sub> ≥ 97% @ 800 - 2,000nm  
R<sub>avg</sub> ≥ 98% @ 2,000 - 12,000nm

**Focal Length Tolerance (%):** ±1

**Parent Focal Length PFL (mm):** 76.2

**Surface Figure, RMS:** λ/2

**Surface Quality:** 80-50

**Radius of Curvature (mm):** 152.40

Reflected Wavefront, RMS: 1λ

## Threading & Mounting

Compatible Mounting Plates: [#47-112](#)

## Regulatory Compliance

RoHS 2015: [Compliant](#)

Certificate of Conformance: [View](#)

Reach 247: [Compliant](#)

Country of Origin: United States

Imported By: Edmund Optics India Private Limited  
267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038  
Phone: +91-80-6845 0000

## 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

- 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

## Accessories

**Note:** Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	Mounting Plate for 6.35mm Diameter Off-Axis Mirrors		<a href="#">#37-943</a>	₹9,989 <a href="#">Volume Pricing</a>   <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/>
<a href="#">MORE+</a>	Mounting Plate for 12.7mm Diameter Off-Axis Mirrors		<a href="#">#34-425</a>	₹9,989 <a href="#">Volume Pricing</a>   <a href="#">Request Quote</a>	1 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	Mounting Plate for 25.4mm Diameter Off-Axis Mirrors		<a href="#">#47-111</a>	₹13,621 <a href="#">Volume Pricing</a>   <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	Mounting Plate for 50.8mm Diameter Off-Axis Mirrors		<a href="#">#47-112</a>	₹14,125 <a href="#">Volume Pricing</a>   <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	Mounting Plate for 76.2mm Diameter Off-Axis Mirrors		<a href="#">#63-375</a>	₹15,639 <a href="#">Volume Pricing</a>   <a href="#">Request Quote</a>	4 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	Mounting Plate for 101.6mm Diameter Off-Axis Mirrors		<a href="#">#83-977</a>	₹18,160 <a href="#">Volume Pricing</a>   <a href="#">Request Quote</a>	5 In Stock <input type="text" value="1"/>

## Related Products



Aluminum Off-Axis Parabolic Mirrors



Silver Off-Axis Parabolic Mirrors



Off-Axis Parabolic Mirrors with Alignment Through Holes



Off-Axis Ellipsoidal Mirrors

## Frequently Purchased Together



#47-111 - Mounting Plate for  
25.4mm Diameter Off-Axis Mirrors  
₹13,621

Qty



#47-112 - Mounting Plate for  
50.8mm Diameter Off-Axis Mirrors  
₹14,125

Qty



#54-995 - 60mm sq - Rectangular  
Bar Clamp  
₹12,712

Qty



#58-952 - 50.8mm Length, M4  
Stud, Steel Post  
₹951

Qty



## Resources

### Media Type

- Application Note
- Video
- FAQ
- Glossary

#### 📁 CASE STUDIES

Using IR Spectroscopy for Counterfeit Drug Detection

#### 📄 APPLICATION NOTE

Roughness of Diamond Turned Off-Axis Parabolic

#### 📄 APPLICATION NOTE

Off-Axis Parabolic Mirror Selection...

#### ▶ VIDEO

Compound Parabolic Concentrators Review

#### ? FAQ

I would like to use your Off-Axis Mirror in a laser...

#### ? FAQ

How are your Off-Axis Parabolic Metal Mirrors...

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