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TECHSPEC®

25.4 x 127mm Elliptical Gold Off-Axis Parabolic Mirror

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Stock #35-570 **12 In Stock** [Other Coating Options](#)

- 1 +

€449⁰⁰

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Volume Pricing	
Qty 1-5	€449,00 each
Qty 6-10	€405,00 each
Qty 11-25	€385,00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

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): 127.00

Diameter (mm): 25.40
+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 (°): 90

Wavelength Range (nm): 700 - 10000

Effective Focal Length EFL (mm): 127.00

Substrate: Aluminum 6061-T6

Coating Specification:
R_{avg} ≥ 94% @ 700 - 800nm
R_{avg} ≥ 97% @ 800 - 2,000nm
R_{avg} ≥ 98% @ 2,000 - 12,000nm

Focal Length Tolerance (%): ±1

Parent Focal Length PFL (mm): 63.5

Surface Figure, RMS: λ/4

Surface Quality:	80-50	Radius of Curvature (mm):	127.00
Reflected Wavefront, RMS:	$\lambda/2$	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.</p> <p>Select Your Country/Region:</p> </div>	
Threading & Mounting			
Compatible Mounting Plates:	#47-111		
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

- 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
MORE+	Mounting Plate for 6.35mm Diameter Off-Axis Mirrors			€99,00	CONTACT US <input type="text" value="1"/>
MORE+	Mounting Plate for 12.7mm Diameter Off-Axis Mirrors				12 In Stock <input type="text" value="1"/>
MORE+	Mounting Plate for 25.4mm Diameter Off-Axis Mirrors		#47-111	€135,00 Volume Pricing Request Quote	20+ In Stock <input type="text" value="1"/>
MORE+	Mounting Plate for 50.8mm Diameter Off-Axis Mirrors		#47-112	€140,00 Volume Pricing Request Quote	20+ In Stock <input type="text" value="1"/>
MORE+	Mounting Plate for 76.2mm Diameter Off-Axis Mirrors		#63-375	€155,00 Volume Pricing Request Quote	4 In Stock <input type="text" value="1"/>
MORE+	Mounting Plate for 101.6mm Diameter Off-Axis Mirrors		#83-977	€180,00 Volume Pricing Request Quote	5 In Stock <input type="text" value="1"/>

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Related Products



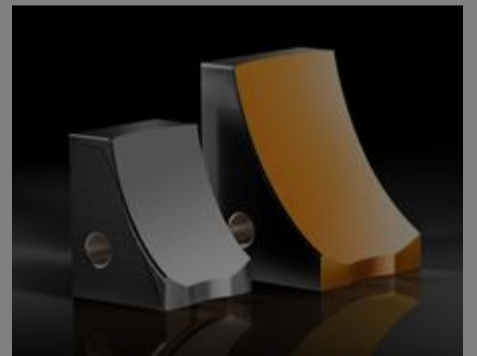
Aluminum Off-Axis Parabolic Mirrors



Silver Off-Axis Parabolic Mirrors



Off-Axis Parabolic Mirrors with Alignment Through Holes



Off-Axis Ellipsoidal Mirrors

Frequently Purchased Together



#35-503 - 25.4 x 50.8mm EFL 90° Protected Gold 100Å Off-Axis Parabolic Mirror
€449,00



#36-743 - Laser Detection Card NIR
€132,00



#37-294 - 6.35mm Dia. x 6.35mm EFL, Protected Gold 50Å 90° Off-Axis Mirror
€230,00



#37-296 - 6.35mm Dia. x 25.4mm EFL, Protected Gold 50Å 90° Off-Axis Mirror
€230,00

Resources

Media Type

- Application Note
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- Glossary

CASE STUDIES

Using ID

APPLICATION NOTE

Development of

APPLICATION NOTE

Off-Axis Parabolic Mirror Selection...

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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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