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**TECHSPEC®**

**50.8mm Dia. x 190.6mm EFL, 800-1150nm Ultrafast-Enhanced Silver Coated, 50Å OAP Mirror**



TECHSPEC® Ultrafast-Enhanced Silver Coated Off-Axis Parabolic (OAP) Mirrors

Stock **#25-605** **10 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ C\$834<sup>40</sup>

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Volume Pricing	
Qty 1-5	C\$834.40 each
Qty 6-10	C\$667.80 each
Qty 11-25	C\$625.80 each
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Product Downloads

**General**

Off-Axis Parabolic Mirror **Type:**

**Physical & Mechanical Properties**

Diameter (mm):  
50.80

Surface Roughness ( $\square$ ):  
<50 RMS

Y Offset (mm):  
190.60

## Optical Properties

Effective Focal Length EFL (mm):  
190.60

Focal Length Tolerance (%):  
 $\pm 1$

Radius of Curvature (mm):  
190.60

Coating:  
Ultrafast-Enhanced Silver (800 - 1150nm)

Coating Type:  
Ultrafast-Enhanced Silver

Coating Specification:  
 $R_{avg} >99\%$  @ 800 - 1150nm,  $0^\circ$   
 $R_s >99\%$  @ 800 - 1100nm,  $45^\circ$   
 $R_p >98.5\%$  @ ~850 - 1100nm,  $45^\circ$

Off-Set Angle ( $^\circ$ ):  
90

Parent Focal Length PFL (mm):  
95.30

Surface Figure, RMS:  
 $\lambda/8$

Wavelength Range (nm):  
800 - 1150

Surface Quality:  
80-50

Substrate:  
Aluminum 6061-T6

Reflected Wavefront, RMS:  
 $\lambda/4$

GDD Specification:  
 $0 \pm 30\text{fs}^2$  @ 800 - 1100nm

## Threading & Mounting

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

## Regulatory Compliance

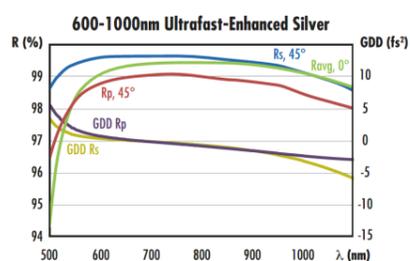
Certificate of Conformance:  
[View](#)

## Product Details

- Ultrafast-Enhanced Silver Coating for Ti:sapphire and Yb:doped Lasers
- Low Group Delay Dispersion
- <50Å RMS Surface Roughness to Minimize Scatter

TECHSPEC® Ultrafast-Enhanced Silver Coated Off-Axis Parabolic (OAP) Mirrors are used to collimate or focus incident light at a specified offset angle. These mirrors are coated with an ultrafast-enhanced silver coatings which provide a >99% reflectivity while maintaining a low group delay dispersion (GDD) of  $0 \pm 20\text{fs}^2$  at their design wavelength range. The off-axis design of these mirrors separates the focal point from the beam path, allowing for more interactive space around the focal point without disrupting the incident beam. TECHSPEC Ultrafast-Enhanced Silver Coated OAP Mirrors are ideal for focusing laser light from low-to-medium power ultrafast lasers, including Ti:sapphire and Yb:doped fiber lasers, while minimizing the temporal spreading of the ultrafast pulses. Mounting plates with holes perpendicular to the optical axis are available for mounting these mirrors into benchtop systems.

## Technical Information



600-1000nm Ultrafast-Enhanced Silver

## 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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