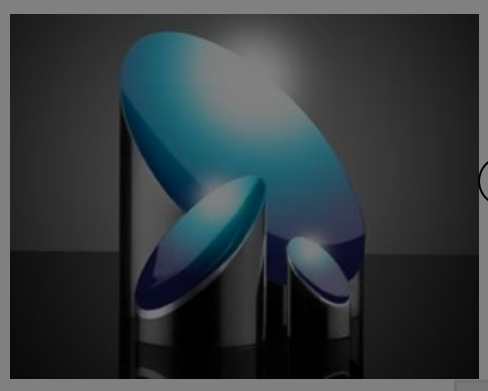
TECHSPEC®

# 50.8mm Dia. x 5 -Enhanced Silver Coated, 50A OAP Mirror



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

Stock #25-604 **5 In Stock** Other Coating

Options

- 1 +

**€596,00**

ADD TO CART

| Volume Pricing | |
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| Qty 1-5 | **€596,00** each |
| Qty 6-10 | **€477,00** each |
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Prices shown are exclusive of VAT/local taxes

## Product Downloads

STEP:step | Curve:pdf | PDF Drawing:pdf | IGES:igs | Zemax:zar | Zemax:zmx | eDrawing:eprt | Code V:seq | EO Spec Sheet | **Download All**

## General

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

## Physical & Mechanical Properties

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|---|---|---|---|
| **Y Offset (mm):** | 50.80 | **Diameter (mm):** | 50.80 |
| **Surface Roughness (Å):** | <50 RMS | | |

## Optical Properties

| | | | |
|---|---|---|---|
| **Coating Type:** | Ultrafast-Enhanced Silver | **Coating:** | Ultrafast-Enhanced Silver (800 - 1150nm) |
| **Off-Set Angle (°):** | 90 | **Wavelength Range (nm):** | 800 - 1150 |
| **Effective Focal Length EFL (mm):** | 50.80 | **Substrate:** ⓘ | Aluminum 6061-T6 |
| **Coating Specification:** | $R_{avg}$ >99% @ 800 - 1150mm, 0° $R_s$ >99% @ 800 - 1100nm, 45° $R_p$ >98.5% @ ~850 - 1100nm, 45° | **Focal Length Tolerance (%):** | ±1 |
| **Parent Focal Length PFL (mm):** | 25.40 | **Surface Figure, RMS:** | λ/8 |

| | |
|---|---|
| **Surface Quality:** | 80-50 |
| **Damage Threshold, Reference:** ⓘ | 0.35 J/cm$^2$ @ 1030nm, 200fs, 1 pulse (typical)<br>0.10 J/cm$^2$ @ 1030nm, 200fs, |



| | |
|---|---|
| **GDD Specification:** | 0 ±30fs$^2$ @ 800 - 1100nm |
| **Reflected Wavefront, RMS:** | λ/4 |

## Threading & Mounting

| | |
|---|---|
| **Compatible Mounting Plates:** | **#47-112** |

## Regulatory Compliance

| | |
|---|---|
| **Certificate of Conformance:** | **View** |

## 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

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

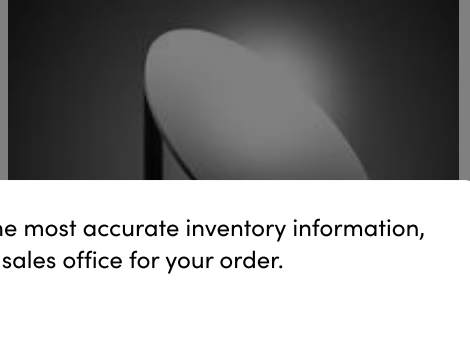
TECHSPEC® Ultrafast-Enhanced Silver Coated Off-Axis Parabolic (OAP) Mirrors are used to collimate or focus incident light at a specified offset angle. These mirrors are coated with an ultrafast-enhanced silver coatings which provide a >99% reflectivity while maintaining a low group delay dispersion (GDD) of 0 ±20fs$^2$ 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.

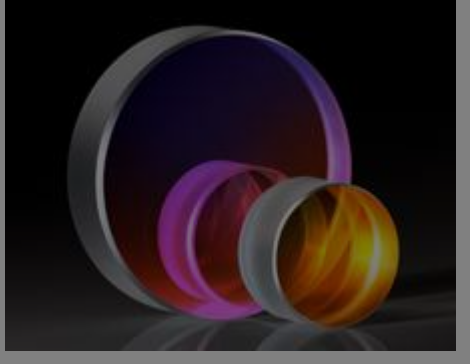
## Technical Information

*600-1000nm Ultrafast-Enhanced Silver*

## Related Products

Laser Line Coated Off-Axis Parabolic (OAP) Mirrors





Ultrafast Optics

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APPLICATION NOTE

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TECHNICAL TOOL

Gaussian Beams Calculator

CASE STUDIES

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CASE STUDIES

Laser Optics for Eye Surgery

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Effects of Laser Mirror Surface Flatness

APPLICATION NOTE

Basics of Ultrafast Lasers

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