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TECHSPEC®

# 12.7mm Dia. x 203.2mm EFL, 600-1000nm Ultrafast-Enhanced Silver Coated, 50Å OAP Mirror



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

Stock **#17-138** **4 In Stock**

[Other Coating Options](#)

-

1

+

A\$536<sup>.00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | A\$536.00 each                |
| Qty 6-10       | A\$483.20 each                |
| Qty 11-25      | A\$428.80 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Type:

Off-Axis Parabolic Mirror

Physical & Mechanical Properties

|                                                                                                                                  |                                  |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 12.70 +0.00/-0.10                                                                                                                | Diameter (mm):                   |
| <50 RMS                                                                                                                          | Surface Roughness (□):           |
| 203.20                                                                                                                           | Y Offset (mm):                   |
| Optical Properties                                                                                                               |                                  |
| 203.20                                                                                                                           | Effective Focal Length EFL (mm): |
| ±1                                                                                                                               | Focal Length Tolerance (%):      |
| 203.20                                                                                                                           | Radius of Curvature (mm):        |
| Ultrafast-Enhanced Silver (600-1000nm)                                                                                           | Coating:                         |
| Ultrafast-Enhanced Silver                                                                                                        | Coating Type:                    |
| R <sub>avg</sub> >99% @ 600 - 1000nm, 0°<br>R <sub>s</sub> >99% @ 540 - 1000nm, 45°<br>R <sub>p</sub> >98.5% @ ~730 - 870nm, 45° | Coating Specification:           |
| 90                                                                                                                               | Off-Set Angle (°):               |
| 101.60                                                                                                                           | Parent Focal Length PFL (mm):    |
| λ/8                                                                                                                              | Surface Figure, RMS:             |
| 600 - 1000                                                                                                                       | Wavelength Range (nm):           |
| 80-50                                                                                                                            | Surface Quality:                 |
| Aluminum 6061-T6                                                                                                                 | Substrate:                       |
| λ/4                                                                                                                              | Reflected Wavefront, RMS:        |
| 0 ±20fs <sup>2</sup> @ 600 - 1050nm                                                                                              | GDD Specification:               |

|                      |                             |
|----------------------|-----------------------------|
| Threading & Mounting |                             |
| #34-425              | Compatible Mounting Plates: |

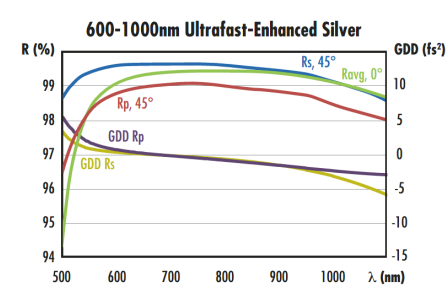
|                       |                             |
|-----------------------|-----------------------------|
| Regulatory Compliance |                             |
| View                  | Certificate of Conformance: |

## Product Details

- Ultrafast-Enhanced Silver Coating for Ti:sapphire and Yb:doped Lasers
- Low Group Delay Dispersion
- <50ARMS Surface Roughness to Mnimize 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<sup>2</sup> 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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