

TECHSPEC®

50.8mm Dia. x 50.8mm EFL, 600-1000nm Ultrafast-Enhanced Silver Coated, 50Å OAP Mirror



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

Stock #17-147 1 In Stock

☐ Other Coating Options

-

1

+

£476^{.80}

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Volume Pricing	
Qty 1-5	£476.80 each
Qty 6-10	£428.80 each
Qty 11-25	£381.60 each
Need More?	Request Quote

 Prices shown are exclusive of VAT/local taxes

Product Downloads

General	
Off-Axis Parabolic Mirror	Type:
Physical & Mechanical Properties	

	Diameter (mm):
50.80 +0.00/-0.10	
	Surface Roughness (□):
<50 RMS	

	Y Offset (mm):
50.80	

Optical Properties

	Effective Focal Length EFL (mm):
50.80	
	Focal Length Tolerance (%):
±1	

	Radius of Curvature (mm):
50.80	
	Coating:
Ultrafast-Enhanced Silver (600-1000nm)	

	Coating Type:
Ultrafast-Enhanced Silver	
	Coating Specification:
R _{avg} >99% @ 600 - 1000nm, 0° R _s >99% @ 540 - 1000nm, 45° R _p >98.5% @ ~730 - 870nm, 45°	

	Off-Set Angle (°):
90	
	Parent Focal Length PFL (mm):
25.40	

	Surface Figure, RMS:
λ/8	
	Wavelength Range (nm):
600 - 1000	

	Surface Quality:
80-50	
	Substrate:
Aluminum 6061-T6	

	Reflected Wavefront, RMS:
λ/4	
	GDD Specification:
0 ±20fs ² @ 600 - 1050nm	

Threading & Mounting

	Compatible Mounting Plates:
#47-112	

Regulatory Compliance

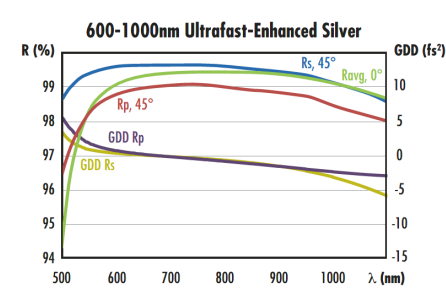
	Certificate of Conformance:
View	

Product Details

- Ultrafast-Enhanced Silver Coating for Ti:sapphire and Yb:doped Lasers
- Low Group Delay Dispersion
- <50ÅRMS 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 ±20fs² 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](#).
