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TECHSPEC[®] 50.8 x 177.8mm EFL 90° Bare Gold 100Å Off-Axis Parabolic Mirror



Stock **#35-653** 1 In Stock

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-

1

+

£439⁻²⁰

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Volume Pricing	
Qty 1-5	£439.20 each
Qty 6-10	£395.20 each
Qty 11+	£376.00 each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

General	
Off-Axis Parabolic Mirror	Type:
Physical & Mechanical Properties	
50.80 +0.00/-0.38	Diameter (mm):

<100 RMS	Surface Roughness (□):
90	Clear Aperture (%):
177.8	Y Offset (mm):

Optical Properties	
177.80	Effective Focal Length EFL (mm):
±1	Focal Length Tolerance (%):
177.80	Radius of Curvature (mm):
Bare Gold	Coating:
Metal	Coating Type:
R _{avg} ≥94% @ 700 - 800nm R _{avg} ≥97% @ 800 - 2,000nm R _{avg} ≥98% @ 2,000 - 12,000nm	Coating Specification:
90	Off-Set Angle (°):
88.9	Parent Focal Length PFL (mm):
λ/2	Surface Figure, RMS:
700 - 12000	Wavelength Range (nm):
80-50	Surface Quality:
Aluminum 6061-T6	Substrate:
1λ	Reflected Wavefront, RMS:

Threading & Mounting	
#47-112	Compatible Mounting Plates:

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

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

