See all 100 Products in Family

TECHSPEC 50.8mm Dia. x 190.6mm EFL, Enhanced Aluminum 50Å 90° Off-Axis Mirror

TECHSPEC Aluminum Off-Axis Parabolic Mirrors

Stock **#37-996** CONTACT US

Other Coating Options

- 1 + **€360**.00

ADD TO CART

Volume Pricing	
Qty 1-5	**€360,00** each
Qty 6-10	**€324,00** each
Qty 11-25	**€310,00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Off-Axis Parabolic Mirror

Physical & Mechanical Properties

Y Offset (mm):

190.60

Diameter (mm):
50.80 +0.0/-0.1

Surface Roughness ():
<50 RMS

Optical Properties

Coating Type:
Metal

Coating:
Enhanced Aluminum (250-700nm)

Off-Set Angle (°):
90

Wavelength Range (nm):
250 - 700

Effective Focal Length EFL (mm):
190.60

Substrate:
Aluminum 6061-T6

Coating Specification:
R_{avg} >89% @250 - 450nm
R_{avg} >85% @250 - 700nm

Focal Length Tolerance (%):
±1

Parent Focal Length PFL (mm):
95.3

Surface Figure, RMS:
λ/8

Surface Quality:
80-50

Radius of Curvature (mm):
190.60

Reflected Wavefront, RMS:
λ/4

Threading & Mounting

Compatible Mounting Plates:
#47-112

Regulatory Compliance

RoHS 2015:
Compliant

REACH 201:
Compliant

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

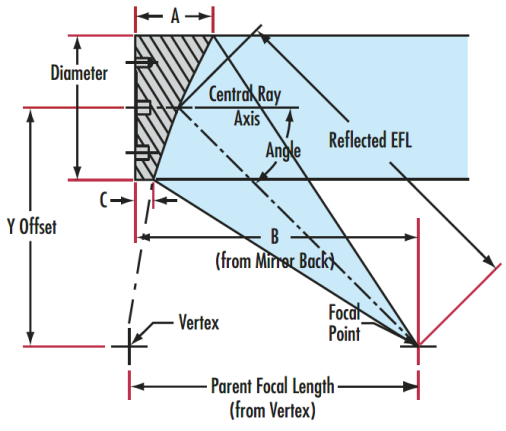
Learn more about our custom manufacturing capabilities or submit an inquiry here.

Product Details

- Aluminum Coatings for UV, Visible, and NIR Applications
- Range of Surface Roughness, Including 50Å and 100Å
- 15°, 30°, 45°, 60°, or 90° Offset Angle Options
- Gold and Silver Coated Off-Axis Parabolic Mirrors Also Available

TECHSPEC® Aluminum Off-Axis Parabolic Mirrors (OAPs) are a cost-effective solution for focusing incident light with minimal scatter loss. Available with enhanced or protected aluminum coatings, these OAP mirrors offer high reflectivity from the ultraviolet (UV) to the near infrared (NIR). These Aluminum OAPs are manufactured with multiple surface roughness specifications, offering designers the choice between high performance, low scatter mirrors and more cost sensitive options. TECHSPEC® Aluminum Off-Axis Parabolic Mirrors are used in optical systems such as Schlieren and spectroscopy systems, as well as in laser systems to focus laser beams. For increased system integration flexibility, mounting plates that thread to the base of these off-axis parabolic mirrors are available.

Technical Information


A
Diameter
Central Ray
Axis
Angle
Reflected EFL
C
Y Offset
B
(from Mirror Back)
Vertex
Focal
Point
Parent Focal Length
(from Vertex)

;