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TECHSPEC® 40.0mm 400 - 750nm Coated, N-BK7 Right Angle Mirror

Broadband Dielectric Coated Right Angle Mirrors

Stock **#87-394** **1 In Stock**

- 1 + **€343**.00

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Volume Pricing	
Qty 1-5	**€343,00** each
Qty 6-25	**€275,00** each
Qty 26-49	**€258,00** each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Right Angle Mirror

Physical & Mechanical Properties

Length of Legs (mm):

40.00

Length of Hypotenuse (mm):

56.60

Dimensional Tolerance (mm):
±0.1

Clear Aperture (%):
90

Optical Properties

Coating:
Dielectric Mirror (400-750nm)

Coating Specification:
Hypotenuse: R_{avg} >98% @ 400 - 750nm (0 - 45°)
R_{avg} >99% @ 400 - 750nm (0°)

Wavelength Range (nm):
400 - 750

Substrate:
N-BK7

Surface Quality:
40-20

Coating Type:
Dielectric

Angle Tolerance (arcmin):
±2

Damage Threshold, By Design:
0.5 J/cm2 @ 532nm, 20ns, 20Hz

Power (fringes) @ 632.8nm:
1.25

Irregularity (fringes) @ 632.8nm:
0.50

Regulatory Compliance

RoHS 2015:
Compliant

Reach 209:
Compliant

Certificate of Conformance:
View

Product Details

- Greater Than 98% Reflection Over Broad Wavelength Ranges
- High Reflectivity for all Polarization States
- Reflect Light at 90°
- **Standard Metal Coated Right Angle Mirrors** Also Available

TECHSPEC® Broadband Dielectric Coated Right Angle Mirrors (Hypotenuse Coated) are designed for beam steering or precision alignment applications utilizing multiple laser sources or operating from the visible to near-infrared spectra. These mirrors feature improved reflection compared to standard metal coated mirrors, increasing system performance by decreasing energy loss. These right angle mirrors are easily mounted and integrated into optical systems. TECHSPEC® Broadband Dielectric Coated Right Angle Mirrors (Hypotenuse Coated) reflect light at 90º and have greater than 98% reflection over broad wavelength ranges. These mirrors feature a N-BK7 substrate and are available in a variety of leg lengths.

Note: These right angle mirrors are not recommended for use in applications where light is reflected off the coated hypotenuse from inside the prism.

Technical Information

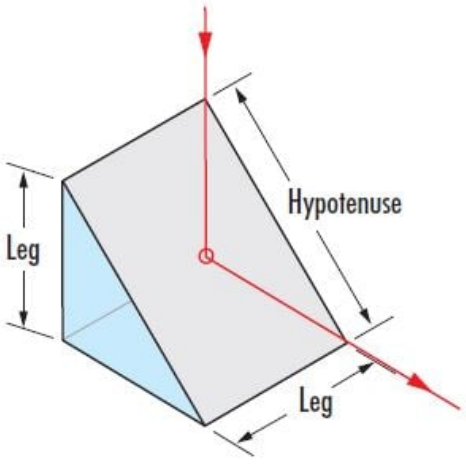

Image above shows light reflecting off the coated hypotenuse.

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.**