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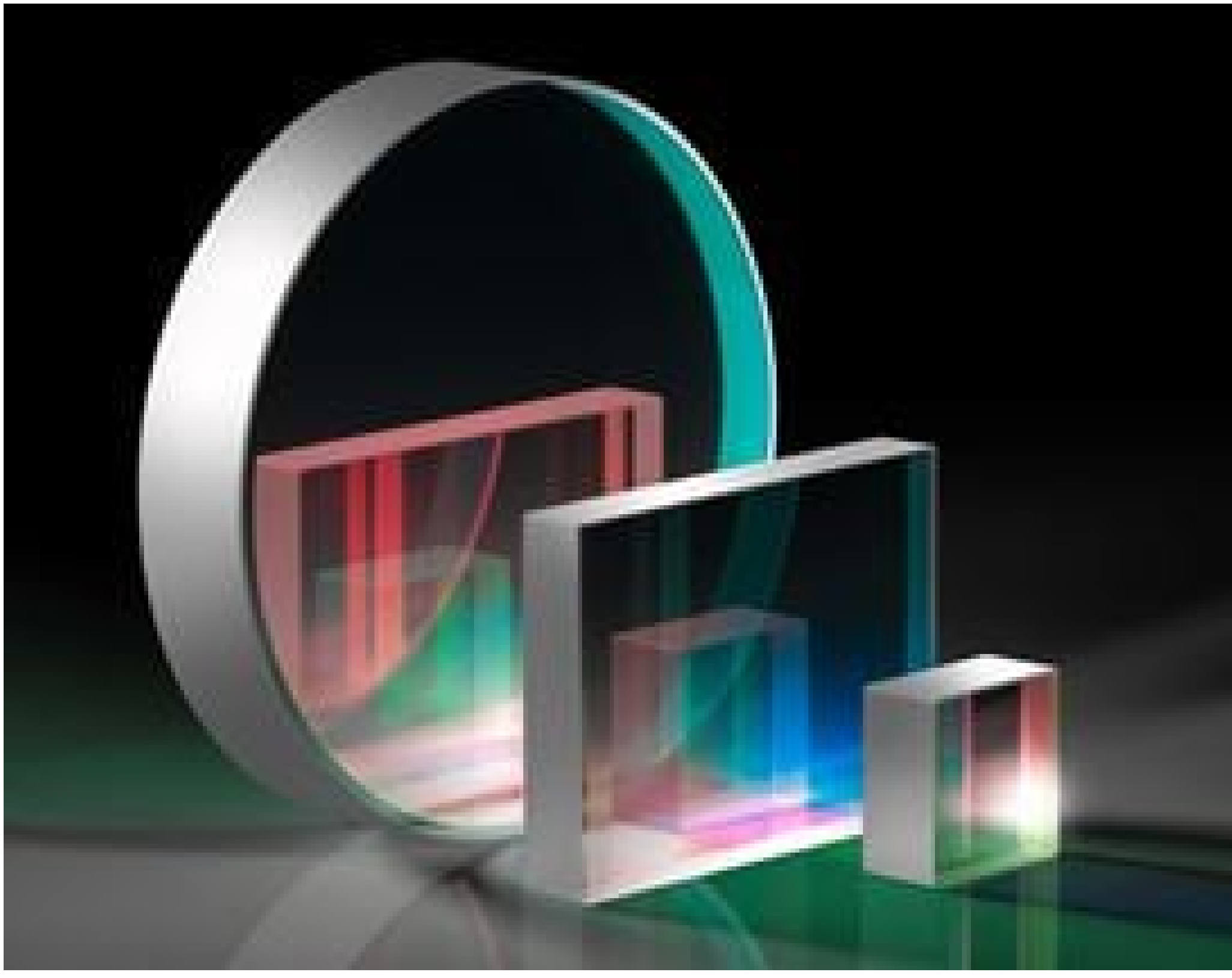
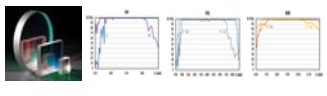
TECHSPEC® 12.5 x 12.5mm, 320 - 450nm Broadband λ/10 Mirror





Stock **#29-902** **6 In Stock**

- 1 + **C$175**.00

ADD TO CART

Volume Pricing	
Qty 1-5	**C$175.00** each
Qty 6-25	**C$140.00** each
Qty 26-49	**C$131.25** each
Need More?	Request Quote

Product Downloads

General

Type:

Flat Mirror

Physical & Mechanical Properties

Thickness (mm):

3.00 ±0.20

Dimensions (mm):
12.50 x 12.50 +0.00/-0.20

Back Surface:
Commercial Polish

Clear Aperture (%):
90

Edges:
Ground, 0.5mm max bevel

Parallelism (arcmin):
<0.5

Parallelism (arcsec):
30

Optical Properties

Coating Type:
Dielectric

Coating:
Dielectric Mirror (320-450nm)

Surface Flatness (P-V):
λ/10

Wavelength Range (nm):
320 - 450

Substrate:
Fused Silica (Corning 7980)

Angle of Incidence (°):
0-45

Coating Specification:
R_{avg} >98% @ 340 - 488nm (0°, All Polarizations)
R_{avg} >98% @ 320 - 450nm (45°, All Polarizations)
R_{avg} >99% @ 320 - 450nm (45°, S-Polarization)

Surface Quality:
20-10

Damage Threshold, By Design:
0.5 J/cm^2 @ 355nm, 20ns, 20Hz

Regulatory Compliance

Certificate of Conformance:
View

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

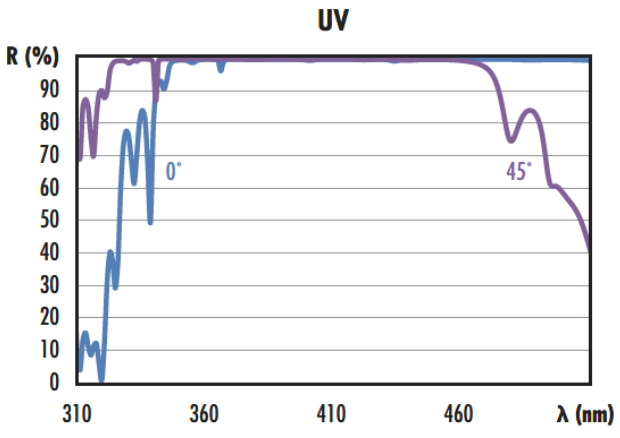
Learn more about our **custom manufacturing capabilities** or submit an inquiry **here.**

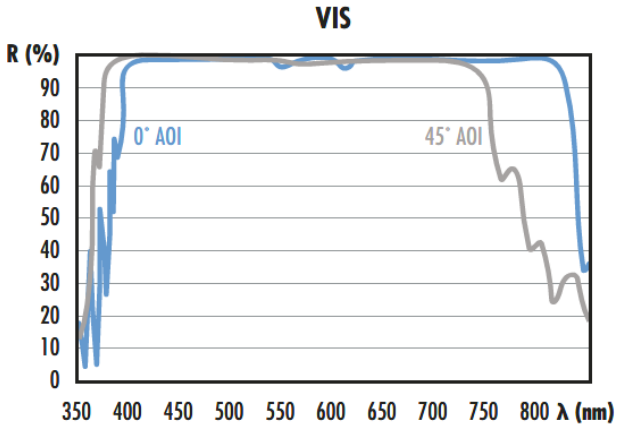
Product Details

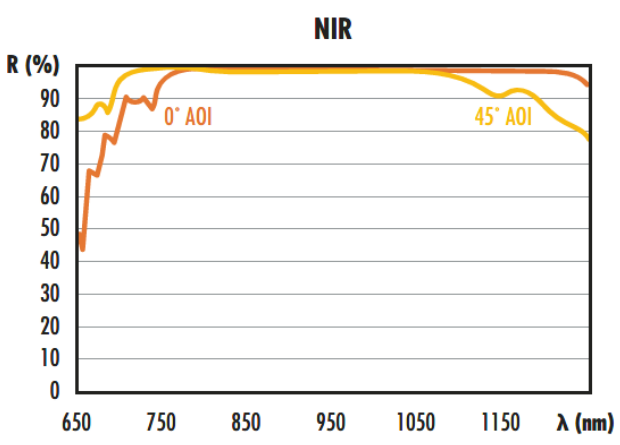
- Enhanced Reflectivity and LIDT over Metallic Coatings
- Average Reflectivity >99% Over Broad UV, Visible, and NIR Wavelengths
- Designed for all Polarization States from 0 – 45° AOI

TECHSPEC® Broadband Dielectric λ/10 Mirrors are ideal for beam steering or reflection applications utilizing multiple laser sources. These mirrors feature greater than 99% reflection, significantly better than metal-coated mirrors, and increase system performance by minimizing energy loss. The highly durable fused silica substrate offers a low thermal expansion coefficient and a high abrasion resistance. TECHSPEC® Broadband Dielectric λ/10 Mirrors are designed for applications from the UV to the near-infrared spectra.

Technical Information


UV
R (%)
90
80
70
60
50
40
30
20
10
0
0°
45°
310
360
410
460
λ (nm)


VIS
R (%)
90
80
70
60
50
40
30
20
10
0
0° AOI
45° AOI
350
400
450
500
550
600
650
700
750
800
λ (nm)


NIR
R (%)
90
80
70
60
50
40
30
20
10
0
0° AOI
45° AOI
650
750
850
950
1050
1150
λ (nm)

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