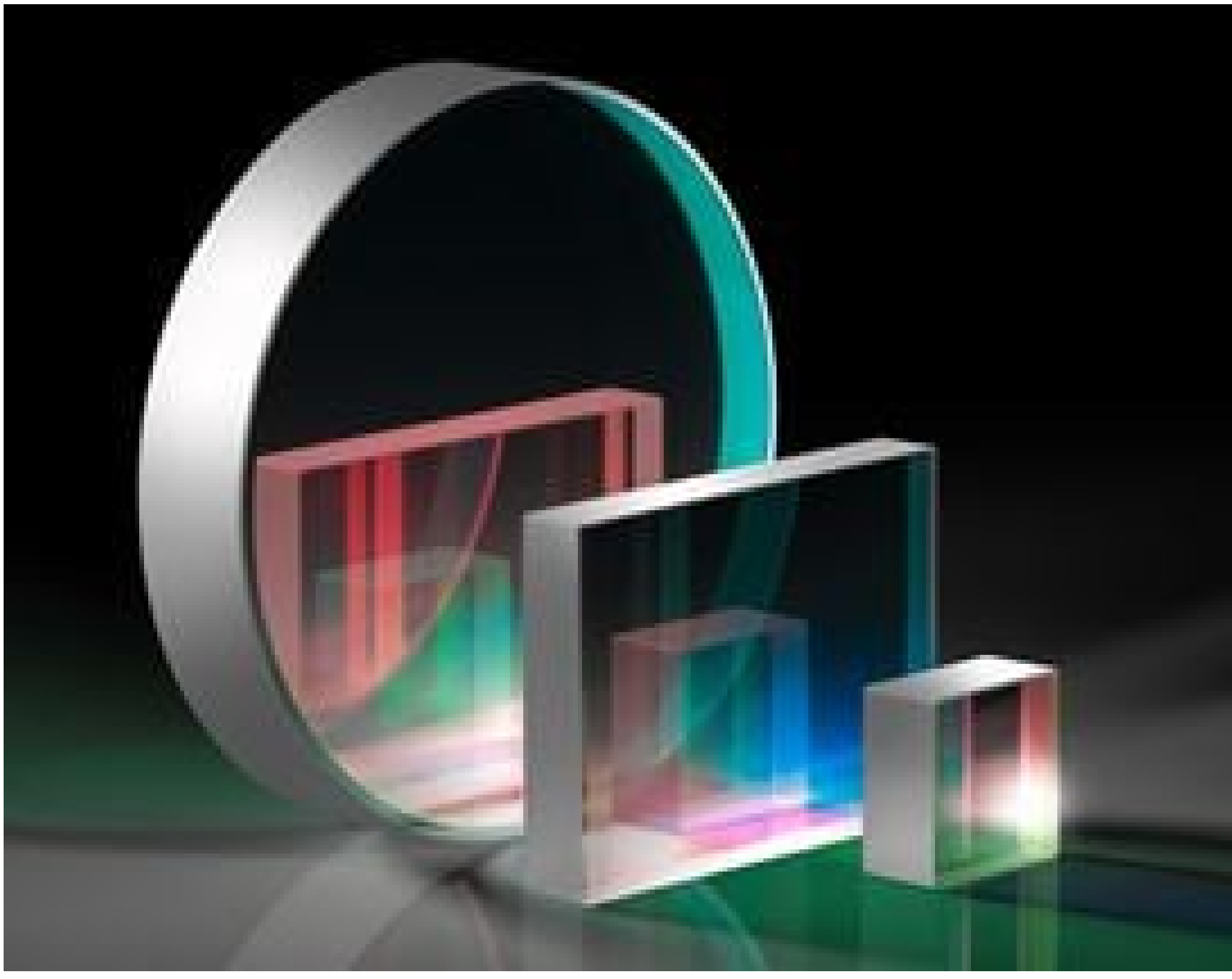
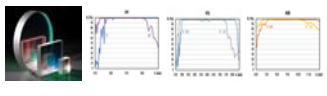
See all 81 Products in Family

TECHSPEC® 100 x 100mm, 320 - 450nm Broadband λ/10 Mirror





Stock **#29-911** **1 In Stock**

- 1 + **S$1,799**.00

ADD TO CART

Volume Pricing	
Qty 1-5	**S$1,799.00** each
Qty 6-25	**S$1,442.00** each
Qty 26-49	**S$1,351.00** each
Need More?	Request Quote

Product Downloads

General

Type:

Flat Mirror

Physical & Mechanical Properties

Thickness (mm):

10.00 ±0.20

Dimensions (mm):
100.00 x 100.00 +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

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

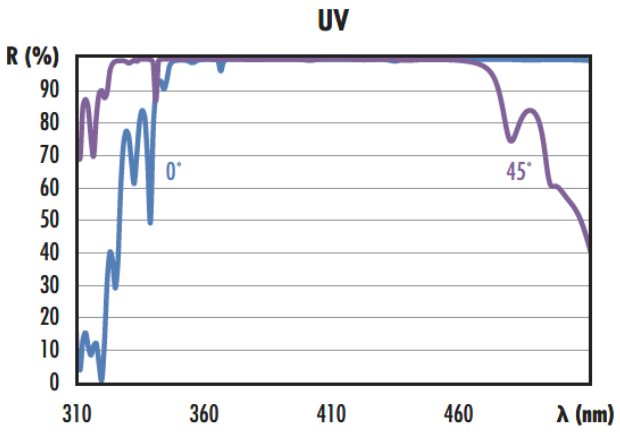
Learn more about our custom manufacturing capabilities or submit an inquiry here.

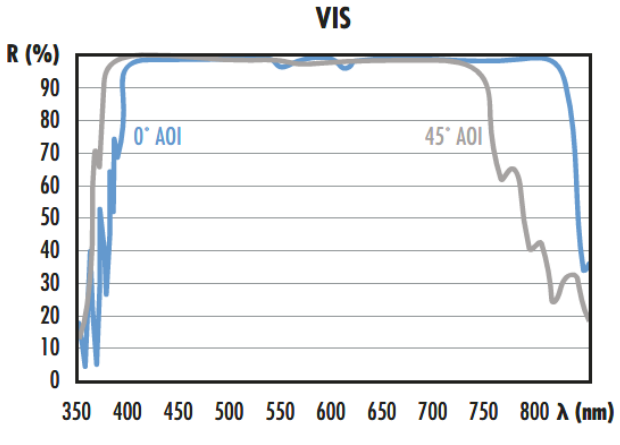
Product Details

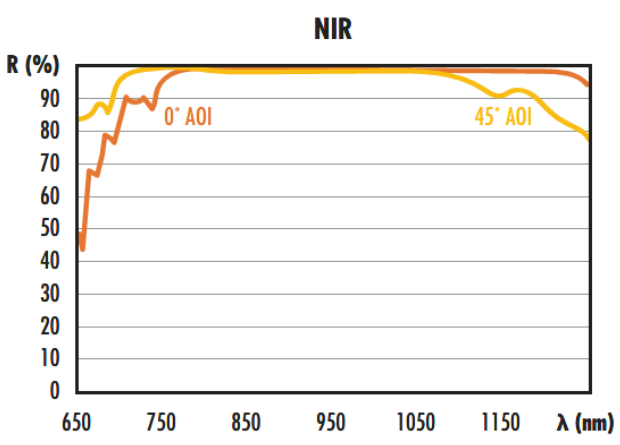
- Enhanced Reflectivity and LIDT over Metallic Coatings
- Average Reflectivity >99% Over Broad UV, Visible, and NIR Wavelengths
- Designed for all Polarization States from 0 – 45° AOI

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)

;