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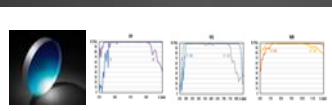
TECHSPEC® 3" Dia, 30" FL 750-1100nm, Spherical Mirror



Stock **#73-034** **3 In Stock**

- 1 + **€429**.00

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Volume Pricing	
Qty 1-5	**€429,00** each
Qty 6-24	**€342,00** each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Spherical Mirror

Physical & Mechanical Properties

Diameter (mm):

76.20 +1.0/-0

Back Surface:
Ground

Diameter (inches):
3.0

Diameter Tolerance (inches):
+0.04/-0

Edge Thickness ET (inches):
0.50

Edge Thickness ET (mm):
12.70

Edge Thickness Tolerance (%):
+0.0/-15

Optical Properties

Coating Type:
Dielectric

Coating:
Dielectric Mirror (750-1100nm)

Wavelength Range (nm):
750 - 1100

Effective Focal Length EFL (mm):
762.00

Substrate:
BOROFLOAT®

Aperture (f/#):
f/10

Coating Specification:
R_{avg} >98% @ 750 - 1100nm (0 - 45°)
R_{avg} >99% @ 750 - 1100nm (0°)

Effective Focal Length EFL (inches):
30.00

Focal Length Tolerance (%):
±2

Surface Accuracy:
λ/4

Surface Quality:
60-40

Damage Threshold, By Design:
1 J/cm^2 @ 1064nm, 20ns, 20Hz

Radius of Curvature (mm):
1,524.00

Regulatory Compliance

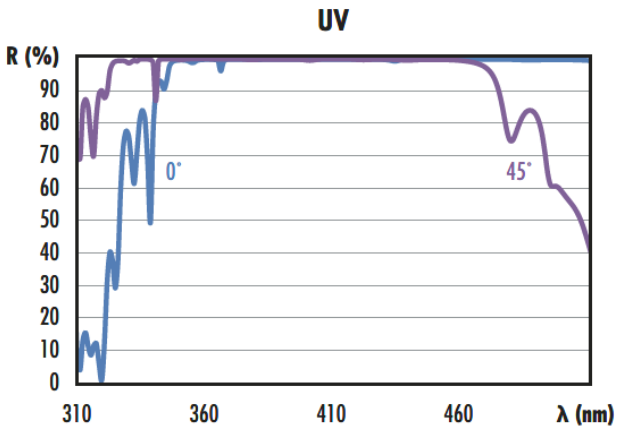
Certificate of Conformance:
View

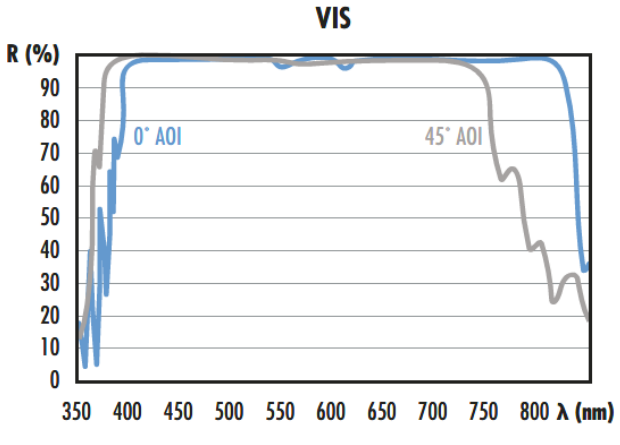
Product Details

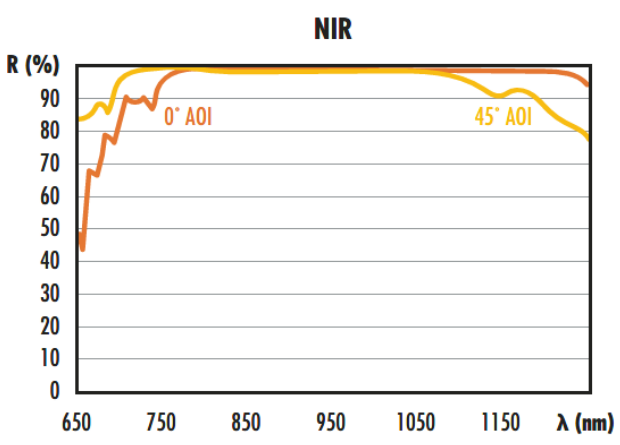
- Ideal for Multispectral Focusing Applications
- Average Reflectivity >99% Over Broad UV, Visible, and NIR Wavelengths
- Multiple Sizes Available

TECHSPEC® Broadband Dielectric Spherical Mirrors are ideal for light collection in multispectral imaging applications. These mirrors feature greater than 99% reflection, significantly better than metal-coated mirrors, and increase system performance by minimizing energy loss. A BOROFLOAT® substrate provides a good combination of performance and value. TECHSPEC® Broadband Dielectric Spherical Mirrors are available in diameters ranging from 25.4 to 152.4mm for ease of system integration. These mirrors collect and focus light without introducing chromatic aberration.

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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