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TECHSPEC® 50mm, Aluminum, High Tolerance N-BK7 Right Angle Prism



N-BK7 High Tolerance Right Angle Prisms

Stock **#65-931** **20+ In Stock**

⊖ 1 ⊕ **\$385⁰⁰**

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Volume Pricing	
Qty 1-5	\$385.00 each
Qty 6-25	\$306.60 each
Qty 26-49	\$288.40 each
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General

Right Angle Prism **Type:**

Physical & Mechanical Properties

Dimensional Tolerance (mm):
+0/-0.1

Bevel:
Protective as needed

Length of Hypotenuse (mm):
70.70

Length of Legs (mm):
50.00

Optical Properties

Angle Tolerance (arcsec):
±15

Coating:
Aluminum with protective overcoat

Substrate:
N-BK7

Surface Quality:
40-20

Image Orientation:
Left-Handed

Coating Specification:
Reflective Surfaces: $R_{avg} > 85\%$ FROM 400-700nm, @
45° AOI

Ray Deviation (°):
90

Wavelength Range (nm):
400 - 2000

Damage Threshold, By Design:
Hypotenuse: 0.3 J/cm^2 @ 532nm & 1064nm, 10ns

Power (fringes) @ 632.8nm:
1.25

Irregularity (fringes) @ 632.8nm:
0.25

Regulatory Compliance

RoHS 2015:
Compliant

Reach 219:
Compliant

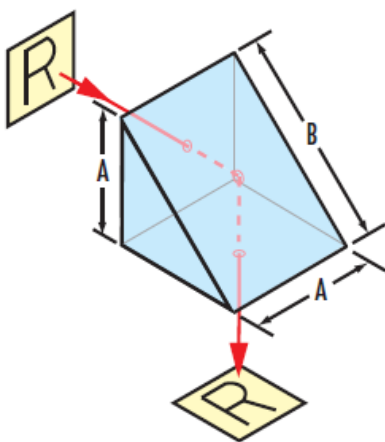
Certificate of Conformance:
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Product Details

- Ray Deviation of 90°
- Left Handed Image
- Low Arcsecond Angle Tolerance
- Additional [Right Angle Prism](#) Options Available

TECHSPEC® High Tolerance N-BK7 Right Angle Prisms are generally used to bend image paths or redirect light at 90°. This process produces a left-handed image, depending on the prism's orientation, the image may be inverted or reverted. Right angle prisms can also be combined for image/beam displacement. TECHSPEC® High Tolerance N-BK7 Right Angle Prisms feature low arcsecond angle tolerance and are made from precision N-BK7 for use in a variety of visible light applications. These prisms are available uncoated, with a protective aluminum overcoat, or VIS° & aluminized.

Technical Information





Right Angle Prism Ray Path



Right Angle Prism Ray Path



Right Angle Prism Tunnel Diagram



Right Angle Prism Tunnel Diagram