

**TECHSPEC® 45mm, Aluminum & MgF<sub>2</sub> Coated, N-BK7 Right Angle Prism**



N-BK7 Right Angle Prisms

Stock #45-396 **9 In Stock**

⊖ 1 ⊕ ₹18,000

**ADD TO CART**

Volume Pricing	
Qty 1-5	₹18,000 each
Qty 6-25	₹14,400 each
Qty 26-49	₹13,500 each
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**SPECIFICATIONS**

**General**

Right Angle Prism **Type:**

**Physical & Mechanical Properties**

±0.1	<b>Dimensional Tolerance (mm):</b>
Protective as needed	<b>Bevel:</b>
63.60	<b>Length of Hypotenuse (mm):</b>
45.00	<b>Length of Legs (mm):</b>
<b>Optical Properties</b>	
MgF <sub>2</sub> & Aluminized	<b>Coating:</b>
<a href="#">N-BK7</a>	<b>Substrate:</b> <input type="checkbox"/>
60-40	<b>Surface Quality:</b>
±2	<b>Angle Tolerance (arcmin):</b>
Left-Handed	<b>Image Orientation:</b>
Hypotenuse: R <sub>avg</sub> >85% @ 400 - 700nm Legs: R <sub>avg</sub> ≤1.75% @ 400 - 700nm	<b>Coating Specification:</b>
90	<b>Ray Deviation (°):</b>
400 - 700	<b>Wavelength Range (nm):</b>
Hypotenuse: 0.3 J/cm <sup>2</sup> @ 532nm & 1064nm, 10ns Legs: 10 J/cm <sup>2</sup> @ 532nm, 10ns	<b>Damage Threshold, By Design:</b> <input type="checkbox"/>
1.25	<b>Power (fringes) @ 632.8nm:</b>
0.50	<b>Irregularity (fringes) @ 632.8nm:</b>

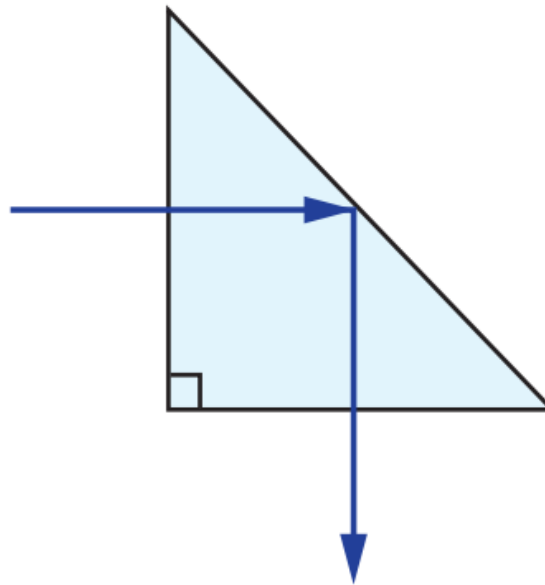
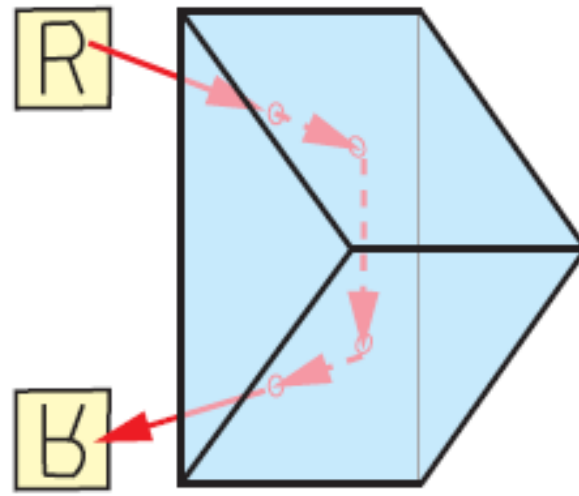
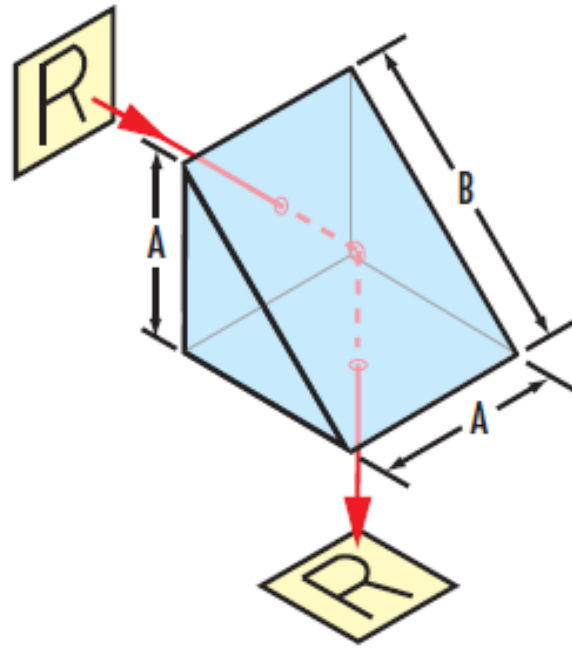
<b>Regulatory Compliance</b>	
<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 235:</b>

## PRODUCT DETAILS

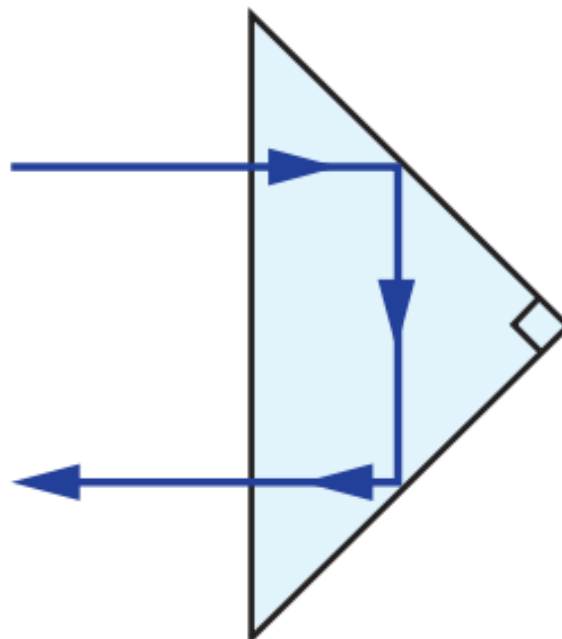
- Ray Deviation of 90°
- Left Handed Image
- Available with Aluminized and AR Coated Faces
- Additional [Right Angle Prism](#) Options Available

TECHSPEC® N-BK7 Right Angle Prisms are made from precision N-BK7 for use in a variety of visible light applications. Right angle prisms are generally used to bend image paths or redirect light at 90°. This produces a left-handed image, and depending on the orientation of the prism, the image may be inverted or reverted. TECHSPEC® N-BK7 Right Angle Prisms can also be used in combination for image/beam displacement. These right-angle prisms are additionally offered with aluminized and AR Coated surfaces.

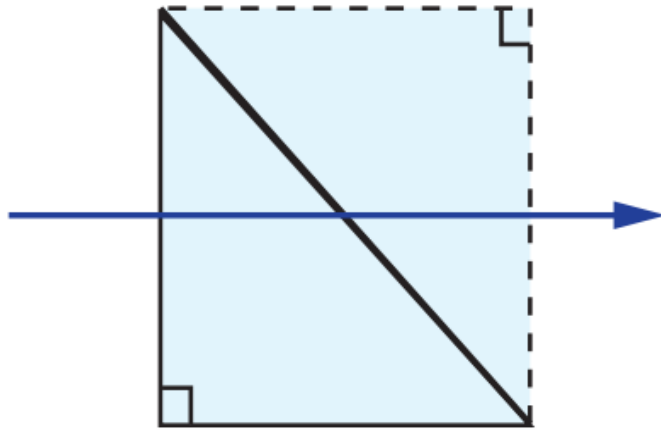
## TECHNICAL INFORMATION



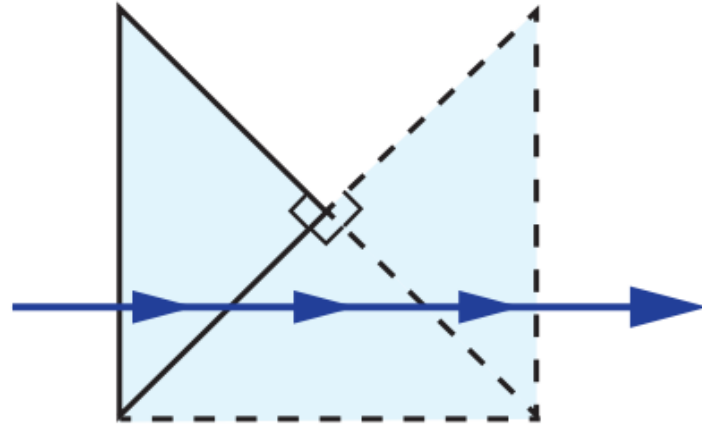
*Right Angle Prism Ray Path*



*Right Angle Prism Ray Path*



*Right Angle Prism Tunnel Diagram*



*Right Angle Prism Tunnel Diagram*

## 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](#).

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