

**TECHSPEC® 45mm Aluminum & VIS 0° Coated, N-BK7 Right Angle Prism**



N-BK7 Right Angle Prisms

Stock **#48-556** **20+ In Stock**

⊖ 1 ⊕ €228<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	€228,00 each
Qty 6-25	€182,00 each
Qty 26-49	€171,00 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Right Angle Prism **Type:**

**Physical & Mechanical Properties**

±0.1 **Dimensional Tolerance (mm):**

**Bevel:**

Protective as needed

Length of Hypotenuse (mm):

63.60

Length of Legs (mm):

45.00

## Optical Properties

Coating:

VIS 0° & Aluminized

Substrate:

N-BK7

Surface Quality:

60-40

Angle Tolerance (arcmin):

±2

Image Orientation:

Left-Handed

Coating Specification:

Hypotenuse:  $R_{avg} > 85\%$  @ 400 - 700nm

Legs:  $R_{avg} \leq 0.4\%$  @ 425 - 675nm

Ray Deviation (°):

90

Wavelength Range (nm):

425 - 675

Damage Threshold, By Design:

Hypotenuse:  $0.3 \text{ J/cm}^2$  @ 532nm & 1064nm, 10ns

Legs:  $5 \text{ J/cm}^2$  @ 532nm, 10ns

Power (fringes) @ 632.8nm:

1.25

Irregularity (fringes) @ 632.8nm:

0.50

## Regulatory Compliance

RoHS 2015:

Compliant

Reach 219:

Compliant

Certificate of Conformance:

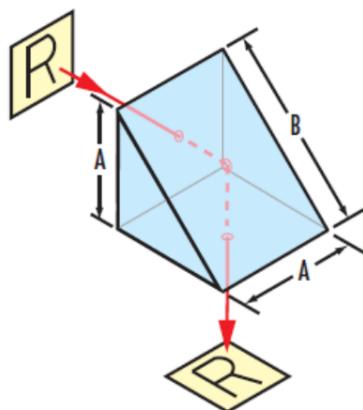
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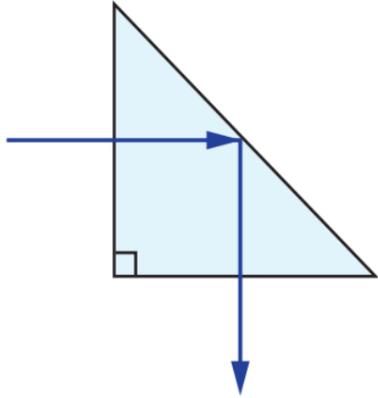
## Product Details

- 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





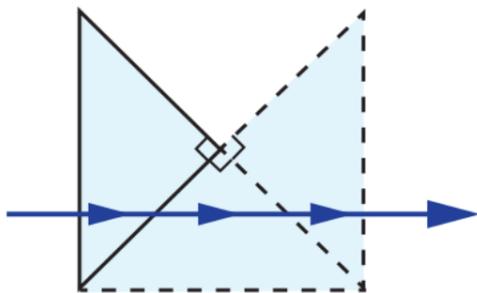
*Right Angle Prism Ray Path*



*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](#).