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**TECHSPEC® 7mm, Al & VIS 0°, High Tolerance N-BK7 Right Angle Prism**



N-BK7 High Tolerance Right Angle Prisms

Stock **#47-930** **4 In Stock**

⊖ 1 ⊕ **\$187<sup>00</sup>**

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Volume Pricing	
Qty 1-5	<b>\$187.60</b> each
Qty 6-25	<b>\$149.80</b> each
Qty 26-49	<b>\$140.00</b> each
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**General**

Right Angle Prism **Type:**

**Physical & Mechanical Properties**

+0/-0.1 **Dimensional Tolerance (mm):**

Protective as needed **Bevel:**

Length of Hypotenuse (mm):

9.90

Length of Legs (mm):

7.00

## Optical Properties

Angle Tolerance (arcsec):

±15

Coating:

VIS 0° & Aluminized

Substrate:

N-BK7

Surface Quality:

40-20

Image Orientation:

Left-Handed

Coating Specification:

Hypotenuse:  $R_{avg} > 85\%$  @ 400 - 700nm,  $R_{avg} > 90\%$  @ 400 - 2000nm  
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:

0.25

## Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

[View](#)

Reach 235:

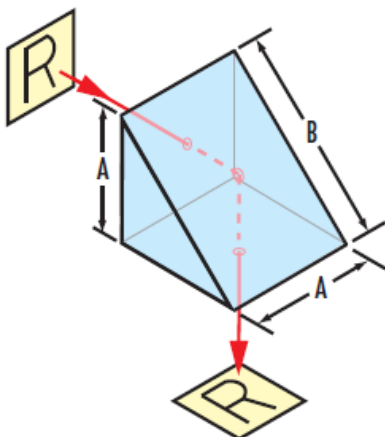
Compliant

## 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*