

TECHSPEC<sup>®</sup> 5mm, Aluminum & MgF<sub>2</sub> Coated, N-BK7 Right Angle Prism



N-BK7 Right Angle Prisms

Stock **#45-386** 20+ In Stock

-

1

+

A\$114<sup>40</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | A\$114.40 each                |
| Qty 6-25       | A\$92.00 each                 |
| Qty 26-49      | A\$86.40 each                 |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

| General                          |                             |
|----------------------------------|-----------------------------|
| Right Angle Prism                | Type:                       |
| Physical & Mechanical Properties |                             |
| ±0.1                             | Dimensional Tolerance (mm): |
| Protective as needed             | Bevel:                      |

|                                                                                                                                                               |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| 7.10                                                                                                                                                          | Length of Hypotenuse (mm):          |
| 5.00                                                                                                                                                          | Length of Legs (mm):                |
| Optical Properties                                                                                                                                            |                                     |
| MgF <sub>2</sub> & Aluminized                                                                                                                                 | Coating:                            |
| N-BK7                                                                                                                                                         | Substrate: <input type="checkbox"/> |
| 60-40                                                                                                                                                         | Surface Quality:                    |
| ±2                                                                                                                                                            | Angle Tolerance (arcmin):           |
| Left-Handed                                                                                                                                                   | Image Orientation:                  |
| Coating Specification:<br>Hypotenuse: R <sub>avg</sub> >85% @ 400 - 700nm<br>Legs: R <sub>avg</sub> ≤1.75% @ 400 - 700nm                                      |                                     |
| 90                                                                                                                                                            | Ray Deviation (°):                  |
| 400 - 700                                                                                                                                                     | Wavelength Range (nm):              |
| Damage Threshold, By Design: <input type="checkbox"/><br>Hypotenuse: 0.3 J/cm <sup>2</sup> @ 532nm & 1064nm, 10ns<br>Legs: 10 J/cm <sup>2</sup> @ 532nm, 10ns |                                     |
| 1.25                                                                                                                                                          | Power (fringes) @ 632.8nm:          |
| 0.50                                                                                                                                                          | Irregularity (fringes) @ 632.8nm:   |

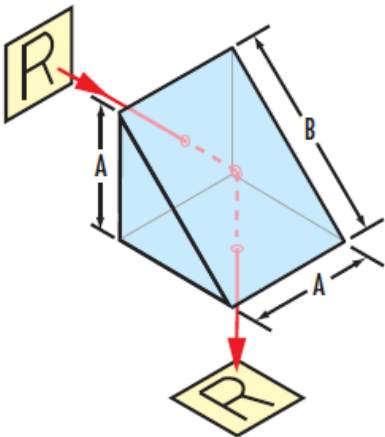
|                       |                             |
|-----------------------|-----------------------------|
| Regulatory Compliance |                             |
| Compliant             | RoHS 2015:                  |
| Compliant             | Reach 219:                  |
| View                  | Certificate of Conformance: |

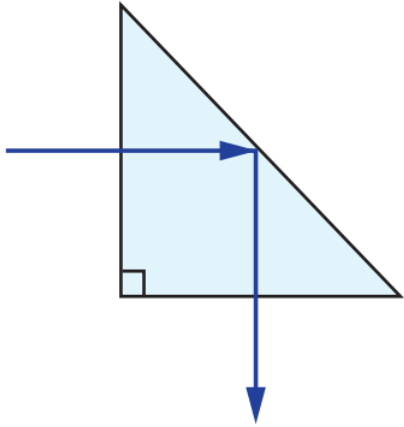
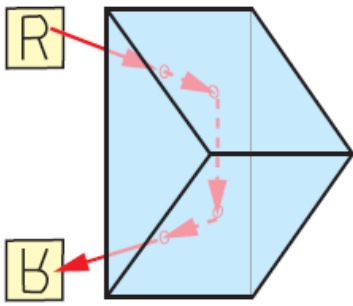
## Product Details

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

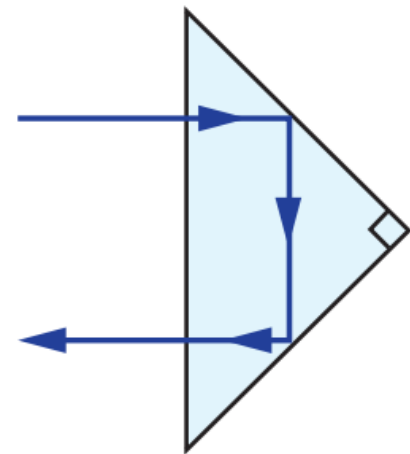
TECHSPEC® N-BK7 Right Angle Prisms are made from precision N-BK7 for use in a variety of visible light applications. Right angle prisms are generally used to bend image paths or redirect light at 90°. This produces a left-handed image, and depending on the orientation of the prism, the image may be inverted 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

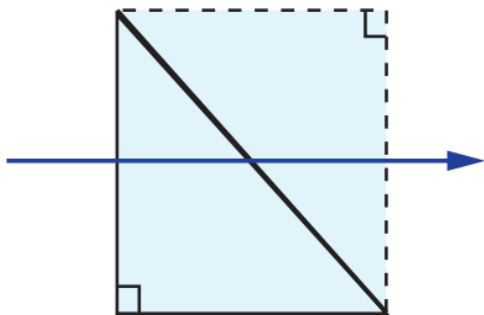




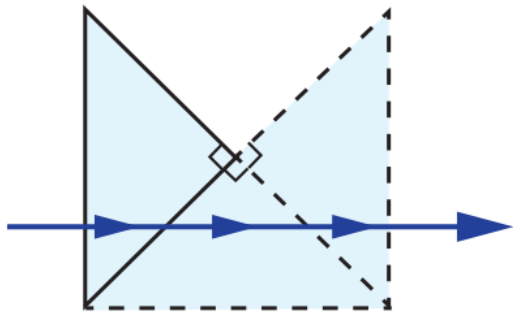
Right Angle Prism Ray Path



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](#).