

**TECHSPEC®**

# 40mm, Aluminum & VIS 0° Coated, N-BK7 Right Angle Prism



N-BK7 Right Angle Prisms

 Stock #48-555 **13 In Stock**

 - 1 + **MRP ₹20,582**

ⓘ Price inclusive of all taxes

[ADD TO CART](#)

Volume Pricing	
Qty 1-5	₹20,582 each
Qty 6-25	₹16,546 each
Qty 26-49	₹15,437 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

- STEP:step
- Curve:pdf
- PDF Drawing:pdf
- IGES:igs
- eDrawing:eprt
- EO Spec Sheet
- [Download All](#)

## General

**Type:** Right Angle Prism

## Physical & Mechanical Properties

**Dimensional Tolerance (mm):** ±0.1

**Bevel:** Protective as needed

**Length of Hypotenuse (mm):** 56.60

**Length of Legs (mm):** 40.00

## 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 J/cm<sup>2</sup> @ 532nm & 1064nm, 10ns  
Legs: 5 J/cm<sup>2</sup> @ 532nm, 10ns

**Power (fringes) @ 632.8nm:** 1.25

**Irregularity (fringes) @ 632.8nm:** 0.50

## Regulatory Compliance

<b>RoHS 2015:</b> <a href="#">Compliant</a>	<b>Reach 219:</b> <a href="#">Compliant</a>
<b>Certificate of Conformance:</b> <a href="#">View</a>	
<b>Country of Origin:</b> Singapore	<b>Imported By:</b> Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91-80-6845 0000

## Need different specs or modifications?

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](#).

## 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

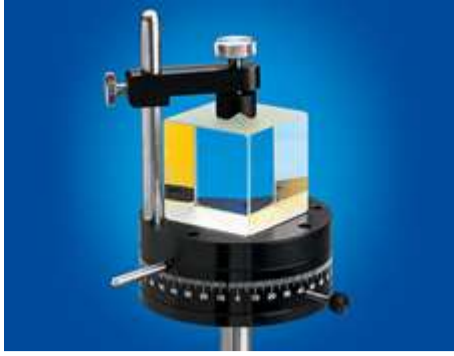
*Right Angle Prism Ray Path*

*Right Angle Prism Ray Path*

*Right Angle Prism Tunnel Diagram*

*Right Angle Prism Tunnel Diagram*

## Related Products



English Prism Mounts



Metric Prism Mounts



PUROSOL™ Optical Cleaner



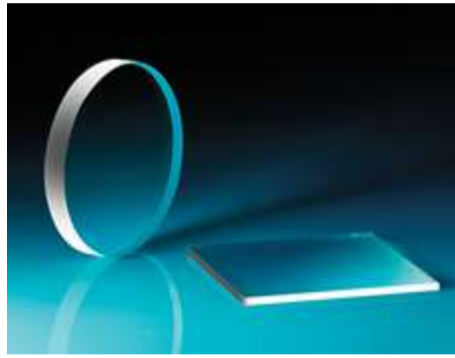
High Tolerance N-BK7 Right Angle Prisms

## Frequently Purchased Together



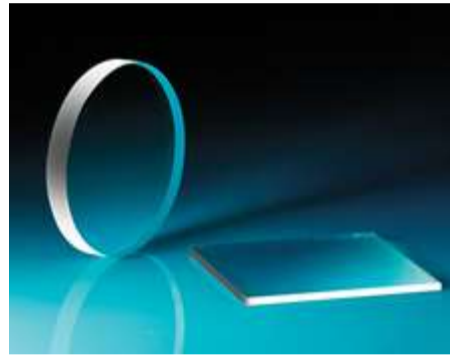
#32-974 - 50.0mm Dia. x 150.0mm FL, Uncoated, Plano-Convex Lens  
₹4,994

Qty



#46-100 - 50.8mm Dia. x 3mm High Efficiency Window  
₹2,876

Qty



#46-102 - 76.2mm Dia. x 3mm High Efficiency Window  
₹3,532

Qty



#48-551 - 20mm, Aluminum & VIS 0° Coated, N-BK7 Right Angle Prism  
₹10,190

Qty

## Resources

### Media Type

- Application Note
- Video
- FAQ
- Glossary

APPLICATION NOTE

Anti-Reflection (AR) Coatings

APPLICATION NOTE

An Introduction to Optical Coatings

VIDEO

Optical Prisms Review

FAQ

I'd like to adhere two prisms together. ho...

GLOSSARY

Dove Prism

GLOSSARY

Equilateral (Dispersing) Prism

[View More](#)

