

TECHSPEC[®] 45mm, Aluminum & MgF₂ Coated, N-BK7 Right Angle Prism



N-BK7 Right Angle Prisms

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

-

1

+

€212⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	€212,00 each
Qty 6-25	€170,00 each
Qty 26-49	€159,00 each
Need More?	Request Quote

i Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Right Angle Prism

Type:

Physical & Mechanical Properties

±0.1

Dimensional Tolerance (mm):

Bevel:

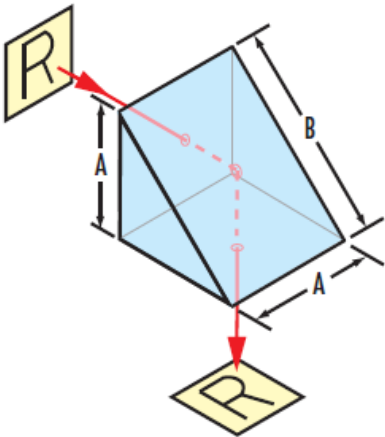
Protective as needed	
63.60	Length of Hypotenuse (mm):
45.00	Length of Legs (mm):
Optical Properties	
Coating:	
MgF ₂ & Aluminized	
Substrate: ☐	
N-BK7	
Surface Quality:	
60-40	
Angle Tolerance (arcmin):	
±2	
Image Orientation:	
Left-Handed	
Coating Specification:	
Hypotenuse: R _{avg} >85% @ 400 - 700nm	
Legs: R _{avg} ≤1.75% @ 400 - 700nm	
Ray Deviation (°):	
90	
Wavelength Range (nm):	
400 - 700	
Damage Threshold, By Design: ☐	
Hypotenuse: 0.3 J/cm ² @ 532nm & 1064nm, 10ns	
Legs: 10 J/cm ² @ 532nm, 10ns	
Power (fringes) @ 632.8nm:	
1.25	
Irregularity (fringes) @ 632.8nm:	
0.50	

Regulatory Compliance	
RoHS 2015:	
Compliant	
Certificate of Conformance:	
View	
Reach 235:	
Compliant	

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](#).