

TECHSPEC® 40mm, VIS 0° Coated, Penta Prism



Stock **#48-602** **3 In Stock**

− 1 + £170⁴⁰

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Volume Pricing

Qty 1-5	£170.40 each
Qty 6-25	£136.00 each
Qty 26-49	£128.80 each
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! Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Penta Prism **Type:**

Physical & Mechanical Properties

40.00 **Length (mm):**

±0.10 **Dimensional Tolerance (mm):**

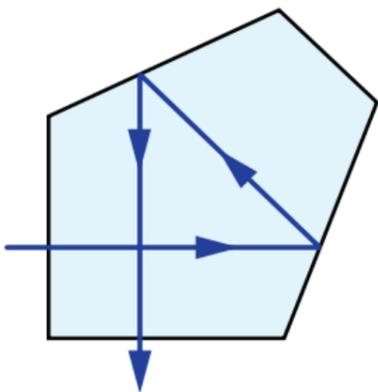
Protective as needed	Bevel:
40.00	Length of Legs (mm):
Optical Properties	
VIS 0° & Aluminized	Coating:
N-BK7	Substrate: <input type="checkbox"/>
60-40	Surface Quality:
Right-Handed	Image Orientation:
Coating Specification: Entrance/Exit Faces: $R_{avg} \leq 0.4\%$ @ 425 - 675nm Reflecting Surfaces: $R_{avg} > 85\%$ @ 400 - 700nm w/Black Overpaint	
90	Ray Deviation (°):
425 - 675	Wavelength Range (nm):
Damage Threshold, By Design: <input type="checkbox"/> Entrance & Exit Faces: 5 J/cm ² @ 532nm, 10ns Reflecting Surfaces: 0.3 J/cm ² @ 532 & 1064nm, 10ns	
±5	Beam Deviation Tolerance (arcmin):
1.00	Power (fringes) @ 632.8nm:
0.25	Irregularity (fringes) @ 632.8nm:
Regulatory Compliance	
Compliant	RoHS 2015:
Compliant	Reach 223:
View	Certificate of Conformance:

Product Details

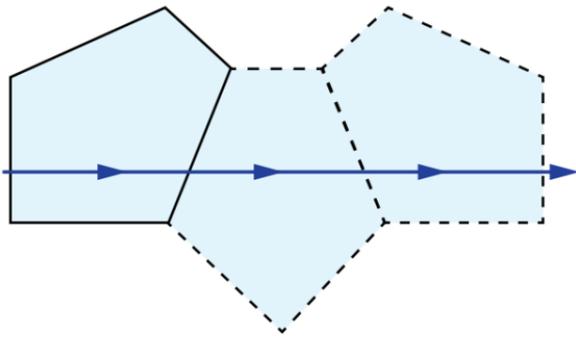
- Ray Deviation of 90°
- Right Handed Image
- Optical Tool for Defining a Right Angle
- Additional [Penta Prism](#) Options Available

TECHSPEC® N-BK7 Penta Prisms are five-sided prisms featuring a ray deviation of 90° and a right-handed image. The reflecting surfaces are aluminized. Slight movement of the prism does not affect the true right angle at which light rays are reflected, making a penta prism the ideal optical tool for defining a right angle in an optical system. TECHSPEC® N-BK7 Penta Prisms are made from precision N-BK7 for use in a variety of visible light applications. These prisms are offered with a VIS 0° or MgF2 coating, in a variety of sizes.

Technical Information

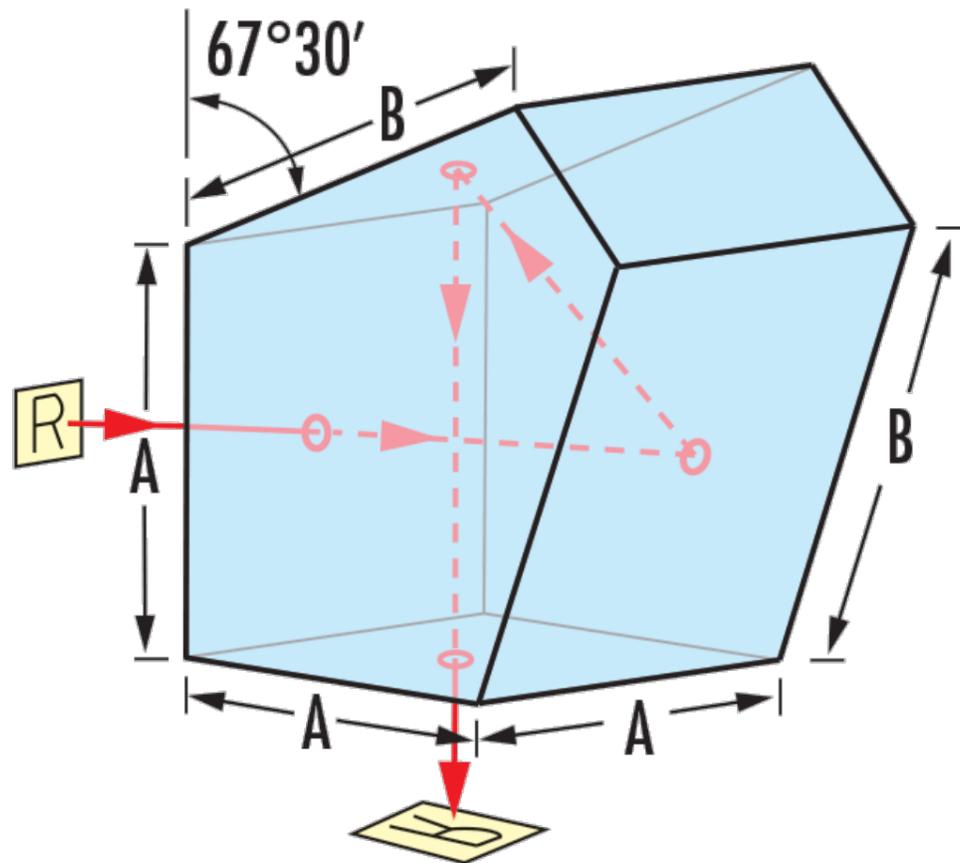


Penta Prism Ray Path



Penta Prism Tunnel Diagram

Stock No.	Coating	Dimensions	
		A	B
#85-159	MS 0°	0.50	0.60
#85-160	MS 0°	1.00	1.20
#45-112	MgF ₂	5.00	6.10
#48-595	MS 0°		
#32-030	MgF ₂	10.00	11.95
#48-596	MS 0°		
#43-502	MgF ₂	15.00	15.96
#48-597	MS 0°		
#31-051	MgF ₂	20.00	21.65
#48-598	MS 0°		
#42-779	MgF ₂	25.00	27.90
#47-458	MgF ₂		
#48-599	MS 0°		
#45-073	MgF ₂	30.00	32.47
#48-600	MS 0°		
#45-402	MgF ₂	35.00	37.88
#48-601	MS 0°		
#45-674	MgF ₂	40.00	43.30
#48-602	MS 0°		
#45-675	MgF ₂	45.00	48.71
#48-603	MS 0°		
#45-676	MgF ₂	50.00	54.12
#47-459	MgF ₂		
#48-604	MS 0°		



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](#).

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