

TECHSPEC[®] 1mm, VIS 0° Coated , Penta Prism



Stock #85-160 CLEARANCE 8 In Stock

-

1

+

₹10,349

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Volume Pricing	
Qty 1+	₹10,349 each
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General

Type:
Penta Prism

Physical & Mechanical Properties

Length (mm):
1.00

Dimensional Tolerance (mm):
±0.10

Bevel:
Protective as needed

Length of Legs (mm):

1.00	
Optical Properties	
Coating:	VS 0° & Aluminized
Substrate:	N-BK7
Surface Quality:	60-40
Image Orientation:	Right-Handed
Coating Specification:	Entrance/Exit Faces: R _{avg} ≤0.4% @ 425 - 675nm Reflecting Surfaces: R _{avg} >85% @ 400 - 700nm w/Black Overpaint
Ray Deviation (°):	90
Wavelength Range (nm):	425 - 675
Damage Threshold, By Design:	Entrance & Exit Faces: 5 J/cm2 @ 532nm, 10ns Reflecting Surfaces: 0.3 J/cm2 @ 532 & 1064nm, 10ns
Beam Deviation Tolerance (arcmin):	±5
Power (fringes) @ 632.8nm:	1.00
Irregularity (fringes) @ 632.8nm:	0.25

Regulatory Compliance	
RoHS 2015:	Compliant
Reach 223:	Compliant
Certificate of Conformance:	View
Country of Origin:	United States
Imported By:	Edmund Optics India Private Limited

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:

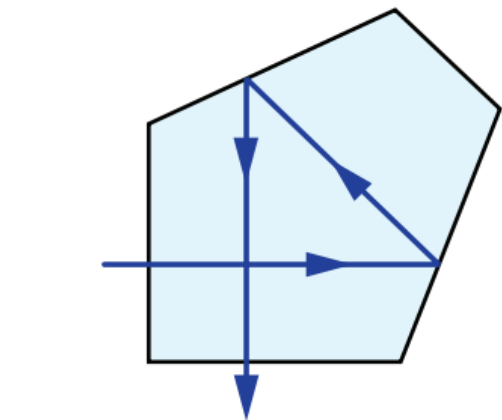
- Custom dimensions, materials, coatings, and more
 - High-precision surface quality and flatness
 - Tight tolerances and complex geometries
 - Scalable production—from prototype to volume
- Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

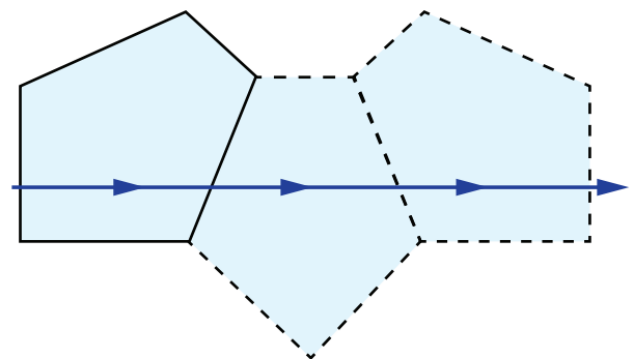
- Ray Deviation of 90°
- Right Handed Image
- Optical Tool for Defining a Right Angle
- Additional [Penta Prism](#) Options Available

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 VS 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	VS 0°	0.50	0.60
#85-160	VS 0°	1.00	1.20
#45-112	MgF ₂	5.00	6.10
#48-595	VS 0°		
#32-030	MgF ₂	10.00	11.95
#48-596	VS 0°		
#43-502	MgF ₂	15.00	15.96
#48-597	VS 0°		
#31-051	MgF ₂	20.00	21.65
#48-598	VS 0°		
#42-779	MgF ₂	25.00	27.90
#47-458	MgF ₂		
#48-599	VS 0°		
#45-073	MgF ₂	30.00	32.47
#48-600	VS 0°		
#45-402	MgF ₂	35.00	37.88
#48-601	VS 0°		
#45-674	MgF ₂	40.00	43.30
#48-602	VS 0°		
#45-675	MgF ₂	45.00	48.71
#48-603	VS 0°		
#45-676	MgF ₂	50.00	54.12
#47-459	MgF ₂		
#48-604	VS 0°		

