

TECHSPEC® 10mm Aluminized, Half-Penta Prism



Stock #65-587 **14 In Stock**

A\$267^{.20}

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Volume Pricing	
Qty 1-5	A\$267.20 each
Qty 6-25	A\$214.40 each
Qty 26-99	A\$201.60 each
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General

Half-Penta Prism Type:

Physical & Mechanical Properties

14.14 Height (mm):

±0.10 Dimensional Tolerance (mm):

Protective as needed
10.00

Bevel:
Width (mm):

Optical Properties

MS 0° & Aluminized
N-BK7

Coating:
Substrate: □

40-20
±3

Surface Quality:
Angle Tolerance (arcmin):

Right-Handed

Image Orientation:
Coating Specification:
Entrance/Exit Faces: $R_{avg} \leq 0.4\%$ @ 425 - 675nm
Reflecting Surface: $R_{avg} > 85\%$ @ 400 - 700nm
w/Black Overpaint

45
425 - 675

Ray Deviation (°):
Wavelength Range (nm):

1.00
0.25

Power (fringes) @ 632.8nm:
Irregularity (fringes) @ 632.8nm:

Regulatory Compliance

Compliant

RoHS 2015:
Certificate of Conformance:

[View](#)

Compliant

Reach 233:

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

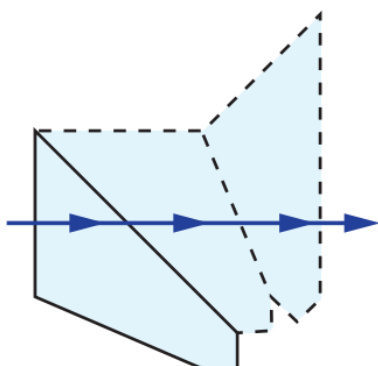
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

- Deviates Line of Sight by 45°
- Combine with Schmidt Prism to Create Schmidt-Pechan Prism
- [Penta Prisms](#) Also Available

Half-Penta prisms are used to deviate the line of sight by 45° without inverting or reverting the image. The reflecting surface is aluminized and over-coated with Inconel and black paint to increase efficiency. Combining a TECHSPEC® Half-Penta Prism with a corresponding size [TECHSPEC® Schmidt Prism](#) creates a Pechan prism pair. The Pechan prism pair will invert or revert the image while not deviating the line of sight. It can be used with converging or diverging light for system size reduction.

Technical Information



Half-Penta Prism Tunnel Diagram

Stock No.	A	B	C	D
#65-587	10.00mm	10.82mm	2.07mm	14.14mm
#65-590	25.00mm	27.06mm	5.18mm	35.35mm

