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12.7mm, MgF₂ Coated, Penta Prism Beamsplitter



Stock #66-632 **4 In Stock**

⊖ 1 ⊕ S\$357⁰⁰

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| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-5 | S\$357.00 each |
| Qty 6-25 | S\$285.60 each |
| Qty 26-49 | S\$264.60 each |
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Product Downloads

General

Standard Beamsplitter **Type:**

Physical & Mechanical Properties

>90 **Clear Aperture (%):**

Prism **Construction:**

Dimensional Tolerance (mm):

±0.10

Optical Properties

Beam Deviation (°):

90, 180

Beam Deviation Tolerance (arcsec):

±10

Coating:

MgF₂ on Entrance and Exit Faces

Polarization:

|T_s - T_p| ≤ 15%

Reflection/Transmission Ratio (R/T):

50/50

Reflection/Transmission Tolerance (%):

±5

Substrate:

N-BK7

Surface Flatness (P-V):

λ/4

Surface Quality:

40-20

Wavelength Range (nm):

450 - 650

Regulatory Compliance

RoHS 2015:

Compliant

Reach 209:

Compliant

Certificate of Conformance:

[View](#)

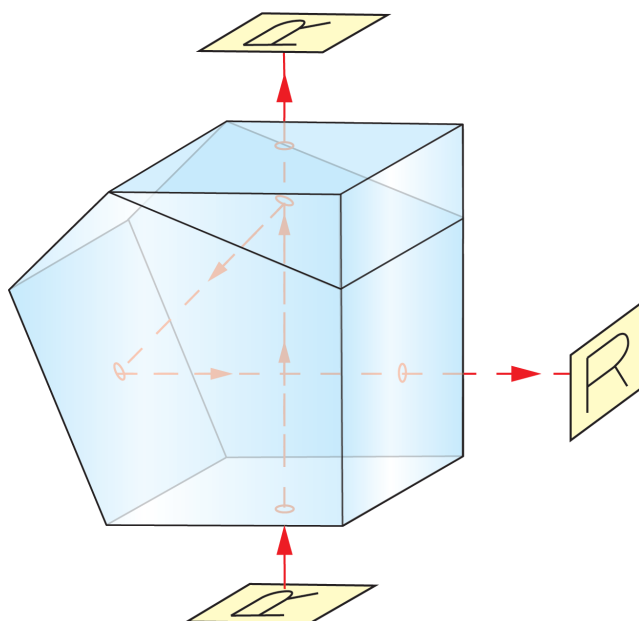
Product Details

- 50% Reflection / 50% Transmission
- Beam Deviation Insensitive to Alignment
- Designed for Visible Wavelengths

Penta Prism Beamsplitters are constructed by cementing a precision [penta prism](#) and a [wedge prism](#) together, and applying an appropriate interference coating to one of the traditionally reflective surfaces. Since slight movements of a penta prism do not affect the true right angle at which light rays are reflected, the deviation between the transmitted and reflected light rays is highly controllable and will not vary by more than 10arcsec.

Note: Outgoing beams are partially polarized.

Technical Information



Penta Prism Beamsplitter Ray Path

| Stock No. | A | B | C | D | E |
|-------------------------|---------|---------|---------|---------|---------|
| #66-632 | 12.70mm | 12.70mm | 5.26mm | 13.75mm | 12.70mm |
| #66-633 | 20.00mm | 20.00mm | 8.28mm | 21.65mm | 20.00mm |
| #66-634 | 25.40mm | 25.40mm | 10.52mm | 27.49mm | 25.40mm |

