

20mm, MgF₂ Coated, Penta Prism Beamsplitter



Stock #66-633 **20+ In Stock**

A\$454⁰⁰

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Volume Pricing	
Qty 1-5	A\$454.40 each
Qty 6-25	A\$363.20 each
Qty 26-49	A\$334.40 each
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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](#)

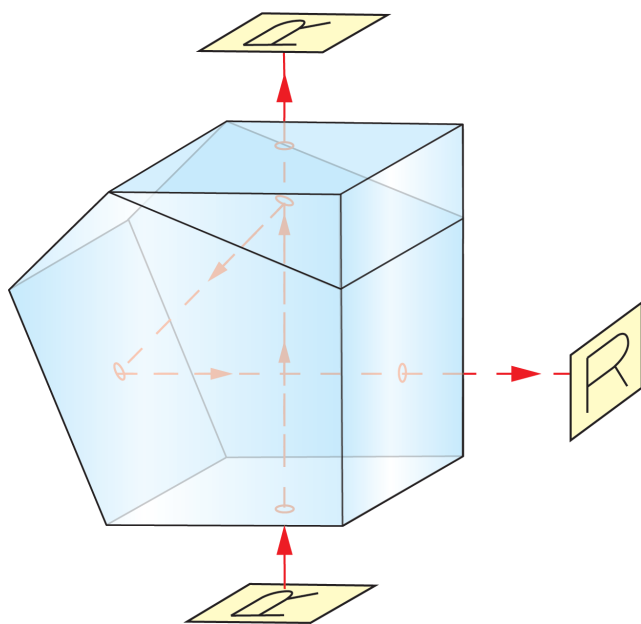
Product Details

- 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

