

TECHSPEC[®] 10mm VIS, Lateral Displacement Non-Polarized Beamsplitter



Lateral Displacement Beamsplitters

Stock **#47-188** 20+ In Stock

-

1

+

C\$912⁶⁶

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Volume Pricing	
Qty 1-5	C\$912.66 each
Qty 6-25	C\$728.64 each
Qty 26-99	C\$666.32 each
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SPECIFICATIONS

General

Non-Polarizing Beamsplitter

Type:

Type of Optics:

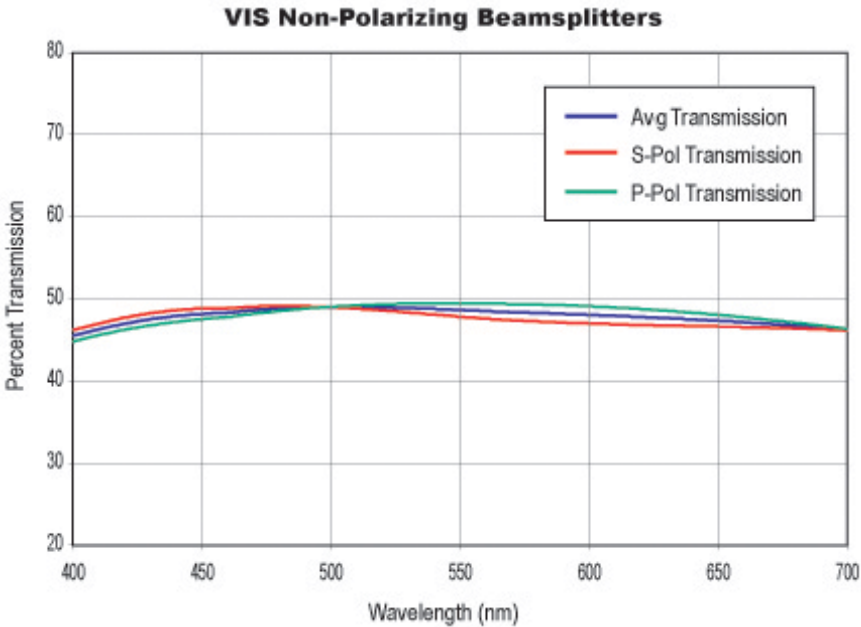
Non-Polarizing	
Physical & Mechanical Properties	
80.00	Clear Aperture (%):
Prism	Construction:
Dimensional Tolerance (mm):	
±0.1	
Parallelism (arcmin):	
<2	
Optical Properties	
Angle Tolerance (arcsec):	
±5	
Beam Separation (mm):	
10.00	
Coating Specification:	
R _{avg} <0.5% @ 430 - 670nm	
Extinction Ratio:	
T _p - T _s <6%	
P-Polarization Transmission (%):	
45.00	
Reflection/Transmission Tolerance (%):	
±10	
S-Polarization Reflection (%):	
45.00	
Substrate:	
N-BK7	
Surface Flatness (P-V):	
λ/8	
Surface Quality:	
40-20	
Wavelength Range (nm):	
430 - 670	
Regulatory Compliance	
Certificate of Conformance:	
View	

PRODUCT DETAILS

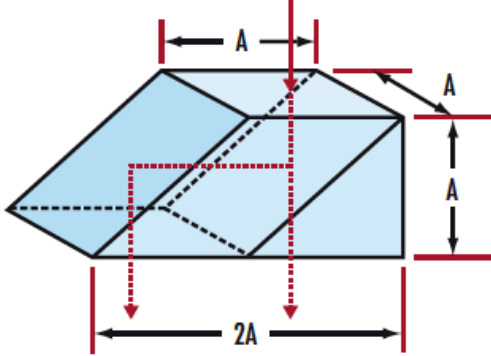
- Visible and NIR Coating Options Offered
- Simplifies Benchtop Layout
- Split Incident Beam into Two Displaced Parallel Beams

TECHSPEC® Lateral Displacement Beamsplitters output two parallel beams separated by a fixed distance. The beamsplitters consist of a precision **rhomboid prism** cemented to a λ/8 **right angle prism**. The high tolerance design ensures the exiting beams are parallel to within 2 arcmin. TECHSPEC® Lateral Displacement Beamsplitters' entrance and exit faces feature a multi-layer anti-reflection (AR) coating for increased efficiency. Polarizing and non-polarizing coatings are available for these beamsplitters.

TECHNICAL INFORMATION



Size (A)	10mm	20mm

Beam Separation	10mm	20mm
 The diagram illustrates a beam separation process on a rectangular block. The block is shown in a 3D perspective view, with its front face divided into two sections by a vertical dashed line. A horizontal dashed line indicates the separation plane. The dimensions are labeled as follows: the width of the block is $2A$, the height is A, and the distance from the left edge to the separation plane is A. The separation plane is indicated by a vertical dashed line. The top surface of the block is also labeled with A and $2A$. The diagram shows the block being separated into two parts, with the top part being lifted away from the bottom part. The separation is indicated by a vertical dashed line and a horizontal dashed line. The dimensions are labeled as follows: the width of the block is $2A$, the height is A, and the distance from the left edge to the separation plane is A. The separation plane is indicated by a vertical dashed line. The top surface of the block is also labeled with A and $2A$. The diagram shows the block being separated into two parts, with the top part being lifted away from the bottom part.		