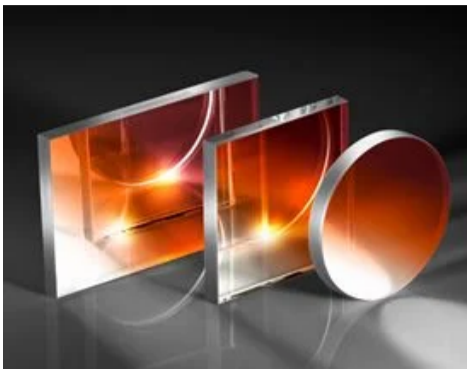


# TECHSPEC® 50 x 75mm 80R/20T, VIS Plate Beamsplitter



Visible and NIR Plate Beamsplitters

Stock #68-431 **8 In Stock**

1 MRP ₹36,724

Price inclusive of all taxes

**ADD TO CART**

Volume Pricing	
Qty 1-5	₹36,724 each
Qty 6-25	₹28,754 each
Qty 26-99	₹26,433 each
Need More?	<a href="#">Request Quote</a>

**Product Downloads**

- STEP:step
- Curve:pdf
- PDF Drawing:pdf
- IGES:igs
- eDrawing:eprt
- EO Spec Sheet
- [Download All](#)

## General

**Note:** Beamsplitter-coated side is marked with a black dot

**Type:** Standard Beamsplitter

## Physical & Mechanical Properties

**Clear Aperture (%):** >85

**Construction:** Plate

**Dimensions (mm):** 50.0 x 75.0 +0.0/-0.25

**Edges:** Cut with 0.25mm maximum edge chip

**Parallelism (arcmin):** ≤3

**Thickness (mm):** 3.00 ±0.25

## Optical Properties

**Angle of Incidence (°):** 45

**Coating Specification:** Surface 1: 80/20 ±5% @ 550nm, ±10% @ 400 - 700nm  
Surface 2: AR  
R<sub>avg</sub> ≤1%, R<sub>abs</sub> ≤2% @ 400 - 700nm

**Reflection/Transmission Ratio (R/T):** 80/20

**Substrate:** [N-BK7](#)

**Surface Flatness (P-V):** 1λ per inch

**Surface Quality:** 60-40

**Wavelength Range (nm):** 400 - 700

## Regulatory Compliance

RoHS 2015: <b>Compliant</b>	Certificate of Conformance: <b>View</b>
Reach 247: <b>Compliant</b>	
Country of Origin: United States	Imported By: Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91-80-6845 0000

## 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

- Many Beamsplitting Ratios Available
- Visible and NIR Coating Options Offered
- Multi-Layer AR Coated Second Surface
- **C-Mounted Plate Beamsplitters** Also Available

TECHSPEC® Visible and NIR Plate Beamsplitters are ideal for dual magnification **imaging** systems and for combining low power **laser** beams. These beamsplitters offer the optimum combination of polished, high-quality optical-grade glass with minimum substrate thickness. The broadband dielectric coatings provide maximum throughput, are ideal for minimizing ghost images, and have much less energy loss than metallic coatings. TECHSPEC® Visible and NIR Plate Beamsplitters are coated on their back surfaces with a multi-layer anti-reflection (AR) coating, reducing back reflections to less than 1.0% for each wavelength range. Note that for easy identification, the coated side of the beamsplitter is marked with a black dot.

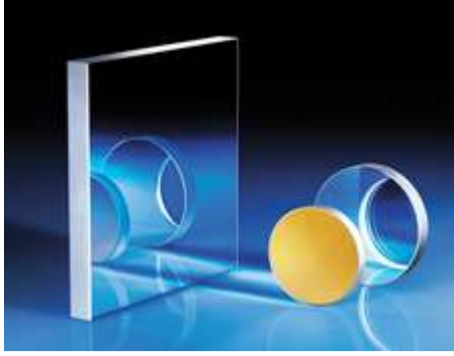
## Technical Information

## Accessories

**Note:** Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

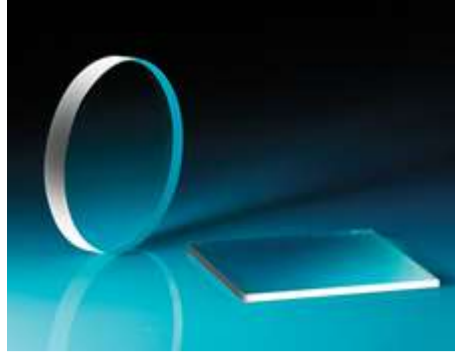
	Title	Compare	Stock Number	Price	Buy
<b>MORE+</b>	Visible Plate Beamsplitter Kit, 25mm Diameter		<b>#83-388</b>	<b>₹54,481</b> <a href="#">Request Quote</a>	<b>CONTACT US</b> 1
<b>MORE+</b>	Near Infrared Plate Beamsplitter Kit, 25mm Diameter		<b>#83-956</b>	<b>₹54,481</b> <a href="#">Request Quote</a>	<b>1 In Stock</b> 1

## Frequently Purchased Together



#43-876 - 50 x 50mm Enhanced Aluminum, 4-6λ Mirror  
₹4,616

Qty



#43-974 - 203.2 x 254 x 3mm High Efficiency Window  
₹7,264

Qty



#45-151 - 50.0mm Dia. x 200.0mm FL, Uncoated, Plano-Convex Lens  
₹4,994

Qty



#45-153 - 50.0mm Dia. x 250.0mm FL, Uncoated, Plano-Convex Lens  
₹4,994

Qty

## Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	40mm Sq., Fixed Filter Holder	Fixed		#54-997	₹9,433 <a href="#">Request Quote</a>	16 In Stock <input type="text" value="1"/>
	60mm sq - Rectangular Bar Clamp	Fixed		#54-995	₹12,712 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>

Check out our full selection of mounts [here](#).

## Resources

### Media Type

- Application Note
- Glossary
- Video
- FAQ

#### APPLICATION NOTE

An Introduction to Optical Coatings

#### CASE STUDIES

Laser Optics for Eye Surgery

#### CASE STUDIES

Using IR Spectroscopy for Counterfeit Drug Detection

#### GLOSSARY

NIR (Near Infrared)

#### GLOSSARY

VIS/NIR Coating

#### APPLICATION NOTE

The Correct Material for Infrared (IR) Applications

[View More](#)

