

TECHSPEC® 12.5 x 17.5mm 50R/50T, VIS Plate Beamsplitter



Visible and NIR Plate Beamsplitters

Stock #35-941 **20+ In Stock**

1 C\$190^{.40}

ADD TO CART

Volume Pricing	
Qty 1-5	C\$190.40 each
Qty 6-25	C\$151.20 each
Qty 26-99	C\$137.20 each
Need More?	Request Quote

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): 12.5 x 17.5
+0.0/-0.25

Edges: Cut with 0.25mm maximum edge chip

Parallelism (arcmin): ≤3

Thickness (mm): 1.00 ±0.1

Optical Properties

Angle of Incidence (°): 45

Coating Specification: Surface 1: 50/50 ±5% @ 550nm, ±10% @ 400 - 700nm, Surface 2: AR R_{avg} ≤1%, R_{abs} ≤2% @ 400 - 700nm

Reflection/Transmission Ratio (R/T): 50/50

Substrate: **N-BK7**

Surface Flatness (P-V): 2λ per inch

Surface Quality: 60-40

Wavelength Range (nm): 400 - 700

Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: [View](#)

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
MORE+	Visible Plate Beamsplitter Kit, 25mm Diameter		#83-388	C\$756.00 Request Quote	CONTACT US <input type="text" value="1"/>
MORE+	Near Infrared Plate Beamsplitter Kit, 25mm Diameter		#83-956	C\$756.00 Request Quote	1 In Stock <input type="text" value="1"/>

Frequently Purchased Together



#31-004 - 9 x 9mm, 4-6λ Mirror
C\$26.60



#31-009 - 26mm Diameter, 4-6λ Mirror
C\$34.65



#32-331 - 10mm, Aluminum Coated, N-BK7 Right Angle Prism
C\$97.30



#32-946 - 5mm Diameter MgF2 Coated, B270 Window
C\$56.00

Qty



Qty







Qty



Qty



Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
 	25mm sq - Rectangular Bar Clamp	Fixed		#54-994	C\$151.20 Request Quote	8 In Stock <input type="text" value="1"/> 
 	60mm sq - Rectangular Bar Clamp	Fixed		#54-995	C\$176.40 Request Quote	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

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