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TECHSPEC® 50 x 50mm 50R/50T, NIR Plate Beamsplitter



Visible and NIR Plate Beamsplitters

Stock **#45-855** **4 In Stock**

⊖ 1 ⊕ **\$387⁰⁰**

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Volume Pricing	
Qty 1-5	\$387.80 each
Qty 6-25	\$303.80 each
Qty 26-99	\$280.00 each
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Product Downloads

General

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

Type:
Standard Beamsplitter

Physical & Mechanical Properties

Clear Aperture (%):
>85

Plate	Construction:
50.0 x 50.0 +0.0/-0.25	Dimensions (mm):
Cut with 0.25mm maximum edge chip	Edges:
≤3	Parallelism (arcmin):
3.00 ±0.25	Thickness (mm):

Optical Properties

45	Angle of Incidence (°):
Surface 1: 50/50 ±5% @ 900nm, ±10% @ 700 - 1100nm Surface 2: AR R _{avg} ≤1%, R _{abs} ≤2% @ 700 - 1100nm	Coating Specification:
50/50	Reflection/Transmission Ratio (R/T):
N-BK7	Substrate: <input type="checkbox"/>
1λ per inch	Surface Flatness (P-V):
60-40	Surface Quality:
700 - 1100	Wavelength Range (nm):

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

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



Compatible Mounts
