

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



Visible and NIR Plate Beamsplitters

Stock **#68-429** **20+ In Stock**

⊖ 1 ⊕ £252<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	£252.80 each
Qty 6-25	£198.40 each
Qty 26-99	£182.40 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**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 50.0 +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  $R_{avg} \leq 1\%$ ,  $R_{abs} \leq 2\%$  @ 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:**

Compliant

**Certificate of Conformance:**

[View](#)

**Reach 247:**

Compliant

## 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



**VIS AR Back-Surface  
Coating Performance at 45 Degrees**



## Compatible Mounts

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