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TECHSPEC<sup>®</sup> 50 x 75mm 50R/50T, VIS Plate Beamsplitter



Visible and NIR Plate Beamsplitters

Stock **#35-947** 11 In Stock

-

1

+

A\$484<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | A\$484.80 each                |
| Qty 6-25       | A\$379.20 each                |
| Qty 26-99      | A\$350.40 each                |
| Need More?     | <a href="#">Request Quote</a> |

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 75.0 +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,<br>Surface 2: AR R <sub>avg</sub> ≤1%, R <sub>abs</sub> ≤2% @ 400 - 700nm |  |
| Reflection/Transmission Ratio (R/T):                                                                                        |  |
| 50/50                                                                                                                       |  |
| Substrate: <input type="checkbox"/>                                                                                         |  |
| 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                        |  |
| Reach 247:                  |  |
| Compliant                   |  |

## 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





## Custom

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](#).

## Compatible Mounts