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**TECHSPEC® 466nm, 25mm Diameter, Dichroic Laser Beam Combiner**



TECHSPEC® Dichroic Laser Beam Combiners

Stock #86-390 **4 In Stock**

⊖ 1 ⊕ ₹21,798

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Volume Pricing	
Qty 1-5	₹21,798 each
Qty 6-25	₹17,127 each
Qty 26-49	₹16,115 each
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Product Downloads

**General**

Dichroic Filter **Type:**

**Physical & Mechanical Properties**

25.00 +0.0/-0.1 **Diameter (mm):**

21.3 **Clear Aperture CA (mm):**

Mounted in Black Anodized Ring **Construction:**

**Physical Durability:**  
Adhesion per ML-PRF-13830B, Section C.4.5.12  
Moderate abrasion per ML-PRF-13830B, Section C.4.5.11  
Cleaning per ML-C-48497A Section 4.5.4.2

**Substrate Thickness (mm):**  
2

## Optical Properties

**Angle of Incidence (°):**  
45

**Cut-On Wavelength (nm):**  
466.00

**Substrate:**   
[Fused Silica](#) (Corning 7980)

**Coating:**  
Hard Coated

**Reflected Laser Wavelength (nm):**  
440, 457.9

**Reflection (%):**  
>98

**Reflection Wavelength (nm):**  
439 - 457.9

**Surface Quality:**  
60-40

**Transmission (%):**  
>95

**Transmission Wavelength (nm):**  
473 - 647.1

**Transmitted Laser Wavelength (nm):**  
473, 488, 514.5, 532, 543.5, 561.4, 568.2, 594.1,  
632.8, 635, 647.1

**Transmitted Wavefront, RMS:**  
<1λ

**Wavelength Range (nm):**  
439 - 647

## Threading & Mounting

**Mount Thickness (mm):**  
3.5 ± 0.1

## Environmental & Durability Factors

**Environmental Durability:**  
Humidity per ML-STD-810H, Section 507.6  
Temperature per ML-STD-810H, Section 501.7 and 502.7

## Regulatory Compliance

**RoHS 2015:**  
[Compliant](#)

**Certificate of Conformance:**  
[View](#)

**Reach 247:**  
[Compliant](#)

**Country of Origin:**  
United States

**Imported By:**  
Edmund Optics India Private Limited

## Product Details

- Polarization Insensitive
- Hard Sputtered Coating
- Multiple Sizes Available

TECHSPEC® Dichroic Laser Beam Combiners are designed to efficiently combine or separate multiple laser beams at a 45° angle of incidence. The filters feature greater than 98% reflection and greater than 95% transmission at popular laser lines, yielding exceptionally low loss. These filters are available in a 12.5, 25, and 50mm diameters, with a range of cut-on, reflection, and transmission wavelengths. These filters are ideal for multi-laser fluorescence imaging and measurement applications, including laser microscopy and flow cytometry. TECHSPEC® Dichroic Laser Beam Combiners are constructed from low autofluorescence substrates with hard sputtered coatings. These filters are ideal for multi-laser fluorescence imaging and measurement applications, including laser microscopy and flow cytometry.

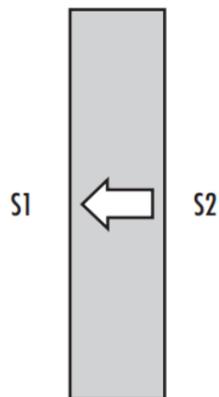
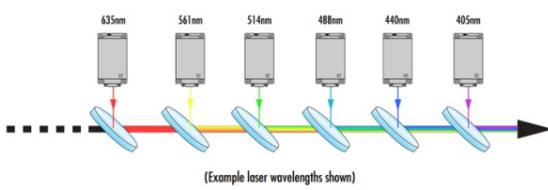
**Note:** These filters are optimized for high spectral performance rather than high Laser Induced Damage Thresholds (LIDT). A typical LIDT for these filters is 1 J/cm<sup>2</sup> @ 532nm, 10ns. Please [contact us](#) if you require a filter with a higher LIDT value.





LEARN MORE

## Technical Information



All mounted TECHSPEC® Optical Filters have an arrow on the side of the mount that points to the filter-coated surface for quick reference. Filter oriented such that arrow points to filter coated surface S1. Anti-reflective (AR) coating is applied to S2.

## 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