

TECHSPEC® 45mm EFL Uncoated, UV-to-NIR Corrected Triplet



Stock **#47-613** **4 In Stock**

⊖ 1 ⊕ €2.630⁰⁰

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| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-5 | €2.630,00 each |
| Qty 6-10 | €2.235,00 each |
| Qty 11-25 | €2.105,00 each |
| Need More? | Request Quote |

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Achromatic Triplet Lens **Type:**

Physical & Mechanical Properties

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

30.00 ±0.05 **Housing Diameter (mm):**

| | |
|---|---|
| 27.50 ±0.05 | Housing Length (mm): |
| Optical Properties | |
| 45.00 | Effective Focal Length EFL (mm): |
| ±0.5 @ 248nm | Focal Length Tolerance (%): |
| 34.84 | Back Focal Length BFL (mm): |
| 33.3 | Back Focal Length BFL from Housing (mm): |
| CaF ₂ / Fused Silica / CaF ₂ | Substrate: <input type="checkbox"/> |
| 60-40 | Surface Quality: |
| 2.00 | f#: |
| 0.25 | Numerical Aperture NA: |
| Uncoated | Coating: |
| 45.00 | Effective Focal Length EFL @ 248nm (mm): |
| 193 - 1000 | Wavelength Range (nm): |

| | |
|------------------------------|------------------------------------|
| Regulatory Compliance | |
| View | Certificate of Conformance: |

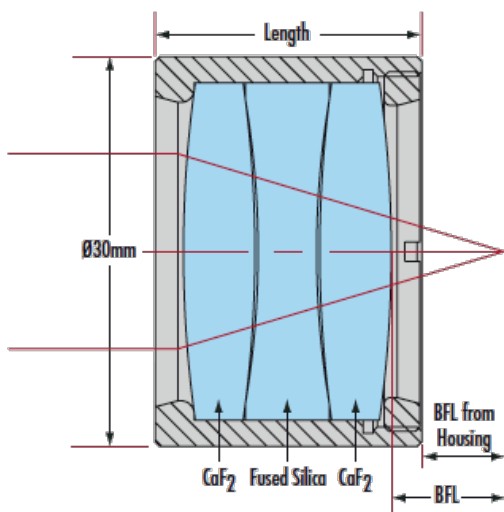
Product Details

- Calcium Fluoride and UV Fused Silica Elements
- Broadband Color-Corrected Design from 193nm to 1000nm
- Ideal for Fluorescence and Spectroscopy Applications

TECHSPEC® UV-to-NIR Corrected Triplet Lenses provide a consistent focal length (see chromatic shift information below) for wavelengths ranging from 193nm to 1000nm. These lenses were designed with broadband applications in mind. Manufactured with premier grades of Calcium Fluoride and Fused Silica, these infinite-conjugate triplets are perfect for imaging applications utilizing a wide spectrum of wavelengths. TECHSPEC® UV-to-NIR Corrected Triplet Lenses are typically used for fluorescence research in which the emitted light is in the visible and near infrared regions of the spectrum or in dual-pass systems in which the same lens is used to illuminate the excitation material as well as collect the emissions from it. Elements are uncoated and mounted in a 30mm diameter aluminum housing. Antireflection coatings available, however a minimum order quantity will apply.

Full [prescription](#) information available.

Technical Information



| Effective Focal Length EFL | 193 - 400nm | | 400 - 1000nm | | 193 - 1000nm | |
|----------------------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|
| | Chromatic Shift | RMS Spot Size | Chromatic Shift | RMS Spot Size | Chromatic Shift | RMS Spot Size |
| 36mm | 1.8mm | 240µm | 0.4mm | 214µm | 2.2mm | 268µm |
| 45mm | 1.1mm | 88µm | 0.3mm | 69µm | 1.3mm | 95µm |
| 90mm | 2.0mm | 64µm | 0.6mm | 38µm | 2.5mm | 69µm |
| 135mm | 1.6mm | 49µm | 0.6mm | 31µm | 2.1mm | 51µm |
| 180mm | 1.4mm | 46µm | 0.6mm | 28µm | 1.9mm | 45µm |

