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TECHSPEC® 90mm EFL MgF₂ Coated, UV-NIR Corrected Triplet



Stock #64-838 **2 In Stock**

⊖ 1 ⊕ ₹2,03,578

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Volume Pricing	
Qty 1-5	₹2,03,578 each
Qty 6-10	₹1,73,061 each
Qty 11-25	₹1,62,862 each
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General

Achromatic Triplet Lens **Type:**

Physical & Mechanical Properties

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

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

Housing Length (mm):
20.50 ±0.05

Optical Properties

Effective Focal Length EFL (mm):
90.00

Focal Length Tolerance (%):
±1.5 @248nm

Back Focal Length BFL (mm):
84.76

Back Focal Length BFL from Housing (mm):
81.9

Substrate:
CaF₂ / [Fused Silica](#) / CaF₂

Surface Quality:
60-40

f/#:
4.00

Numerical Aperture NA:
0.13

Coating:
MgF₂ (193-1000nm)

Coating Specification:
MgF₂ @600nm

Effective Focal Length EFL @ 248nm (mm):
90.00

Wavelength Range (nm):
193 - 1000

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Reach 205:
[Compliant](#)

Certificate of Conformance:
[View](#)

Country of Origin:
United States

Imported By:
Edmund Optics India Private Limited

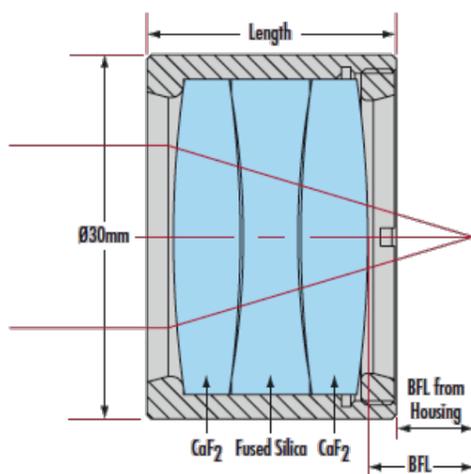
Product Details

- 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

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