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TECHSPEC® 135mm EFL MgF_2 Coated, UV-NIR Corrected Triplet

Stock **#64-839** CONTACT US

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Qty 1-5	**C$4,004.00** each
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General

Type:

Achromatic Triplet Lens

Physical & Mechanical Properties

Clear Aperture CA (mm):

22.5

Housing Diameter (mm):

30.00 ±0.05

Housing Length (mm):
20.50 ±0.05

Optical Properties

Effective Focal Length EFL (mm):
135.00

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

Back Focal Length BFL (mm):
129.31

Back Focal Length BFL from Housing (mm):
126.9

Substrate:
CaF_2 / **Fused Silica** / CaF_2

Surface Quality:
60-40

f/#:
6.00

Numerical Aperture NA:
0.08

Coating:
MgF_2 (193-1000nm)

Coating Specification:
MgF_2 @ 600nm

Effective Focal Length EFL @ 248nm (mm):
135.00

Wavelength Range (nm):
193 - 1000

Regulatory Compliance

RoHS 2015:
Compliant

Reach 205:
Compliant

Certificate of Conformance:
View

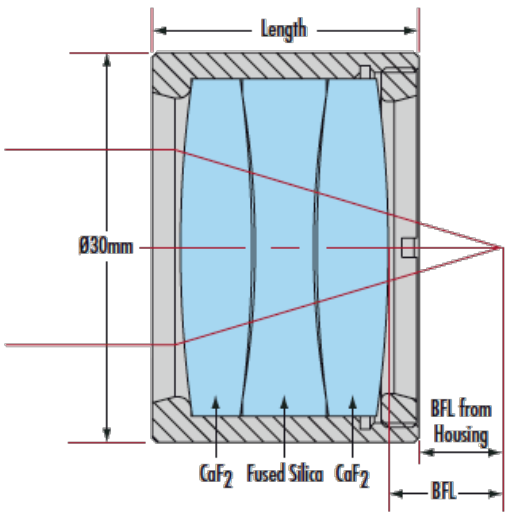
Product Details

- 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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