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TECHSPEC® 12mm Focal Length, UAV Series Fixed Focal Length Lens

12mm Focal Length, UAV Series Fixed Focal Length Lens

Stock **#22-835** NEW **3 In Stock**

- 1 + S$827.00

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Qty 1+	**S$827.00** each
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General

Type:
Fixed Focal Length Lens

Imaging Lens Type:
Infinite Conjugate

Physical & Mechanical Properties

Iris Option:
Variable

Length (mm):
59.60

Maximum Diameter (mm):
43.50

Outer Diameter (mm):
43.50

Weight (g):
131

Maximum Rear Protrusion (mm):
4.4

Maximum Length (mm):
59.60

Minimum Length (mm):
59.60

Optical Properties

Horizontal Field of View @ Max Sensor Format:
65.1°

Horizontal Field of View, 1.2" Sensor:
65.1°

Horizontal Field of View, 1.1" Sensor:
60.9°

Horizontal Field of View, 1" Sensor:
55.6°

Horizontal Field of View, 2/3" Sensor:
39.3°

Horizontal Field of View, 1/1.8" Sensor:
32.5°

Maximum Image Circle (mm):
19.30

Numerical Aperture NA, Object Side:
0.004302

Number of Elements (Groups):
11 (9)

Wavelength Range (nm):
425 - 675

Focal Length FL (mm):
12.00

Working Distance (mm):
500 - ∞

Aperture (f/#):
2.8 - 16

Coating:
425 - 675 BBAR

Coating Specification:
425 - 675 BBAR

Entrance Pupil Position (mm):
14.233

Object Space Principal Plane (mm):
-4.52

Image Space Principal Plane (mm):
1.80

Maximum Distortion (%):
5.30

Exit Pupil Position (mm):
-44.290

Lens Wavelength Range:
VIS

Wavelength:
VIS

Sensor

Maximum Sensor Format:
1.2"

Threading & Mounting

Filter Thread:
M42.0 X 0.50 (Male)

Front Thread:
M42.0 X 0.50

Mount:
C-Mount

Environmental & Durability Factors

Storage Temperature (°C):
-20 to +60 For questions regarding operating temperature please contact our support team

Regulatory Compliance

Certificate of Conformance:
View

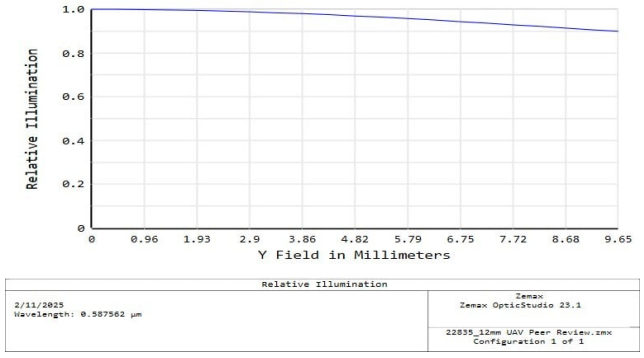
Product Details

- Compact, Infinite Conjugate Lens Ideal for Photogrammetry
- 8mm, 12mm, 16mm, 25mm, and 35mm Focal Lengths
- 1.2", C-Mount Lens
- Up to 24.4 MegaPixels, 2.7µm Pixel Size Sensors

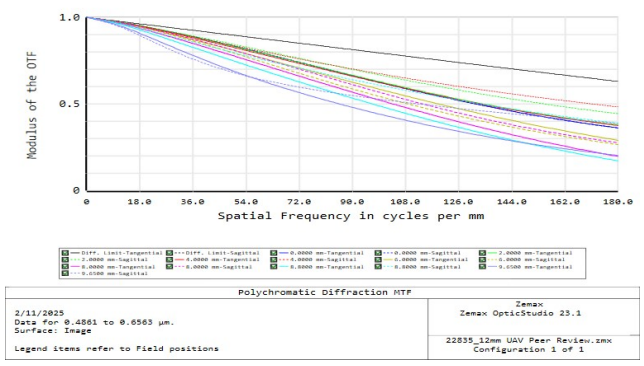
TECHSPEC® UAV Series Fixed Focal Length Lenses are compact, lightweight infinite conjugate lenses designed for the 4th Generation Sony Pregius 1.2" IMX530 and IMX540 sensors for mounting on autonomous vehicles and drones. These lenses are designed with a low Ground Separation Distance (GSD) to enable accurate survey results, and are available in 8mm, 12mm, 16mm, 25mm, and 35mm focal length options. The f/2.8 aperture provide increased light throughput and high-resolution performance. TECHSPEC® UAV Series Fixed Focal Length Lenses are C-Mount and feature a locking focus and iris rings to prevent unwanted adjustments, as well as a front filter thread for integrating standard optical filters. These lenses are ideal for Drone Mapping and Surveying, Aerial Imaging, and Photogrammetry applications.

Note: Call for OEM Quantity and Pricing

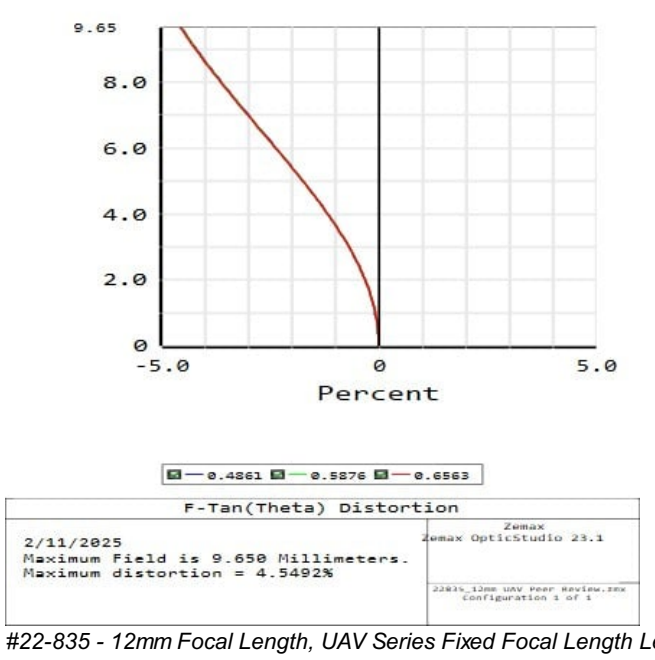
Technical Information



#22-835 - 12mm Focal Length, UAV Series Fixed Focal Length Lens, Relative Illumination Plot



#22-835 - 12mm Focal Length, UAV Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, Infinity Working Distance, f2.8



#22-835 - 12mm Focal Length, UAV Series Fixed Focal Length Lens, Distortion Plot

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