

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



12mm Focal Length, UAV Series Fixed Focal Length Lens



Stock **#22-835** NEW **5 In Stock**

-

1

+

€984^{.50}

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Volume Pricing	
Qty 1+	€984,50 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Fixed Focal Length Lens

Type:

Infinite Conjugate	Imaging Lens Type:
Physical & Mechanical Properties	
Variable	Iris Option:
59.60	Length (mm):
43.50	Maximum Diameter (mm):
43.50	Outer Diameter (mm):
131	Weight (g):
4.4	Maximum Rear Protrusion (mm):
59.60	Maximum Length (mm):
59.60	Minimum Length (mm):
Optical Properties	
65.1°	Horizontal Field of View @ Max Sensor Format:
65.1°	Horizontal Field of View, 1.2" Sensor:
60.9°	Horizontal Field of View, 1.1" Sensor:
55.6°	Horizontal Field of View, 1" Sensor:
39.3°	Horizontal Field of View, 2/3" Sensor:
32.5°	Horizontal Field of View, 1/1.8" Sensor:
19.30	Maximum Image Circle (mm):
0.004302	Numerical Aperture NA, Object Side:
11 (9)	Number of Elements (Groups):
425 - 675	Wavelength Range (nm):
12.00	Focal Length FL (mm):
500 - ∞	Working Distance (mm):
2.8 - 16	Aperture (f/#):
425 - 675 BBAR	Coating:
425 - 675 BBAR	Coating Specification:
14.233	Entrance Pupil Position (mm):
-4.52	Object Space Principal Plane (mm):
1.80	Image Space Principal Plane (mm):
5.30	Maximum Distortion (%):
-44.290	Exit Pupil Position (mm):
VS	Lens Wavelength Range:
VS	Wavelength:
Sensor	
1.2"	Maximum Sensor Format:
Threading & Mounting	
M42.0 X0.50 (Male)	Filter Thread:

M42.0 X0.50	Front Thread:
C-Mbunt	Mount:
Environmental & Durability Factors	
Storage Temperature (°C): -20 to +60 For questions regarding operating temperature please contact our support team	
Regulatory Compliance	
View	Certificate of Conformance:

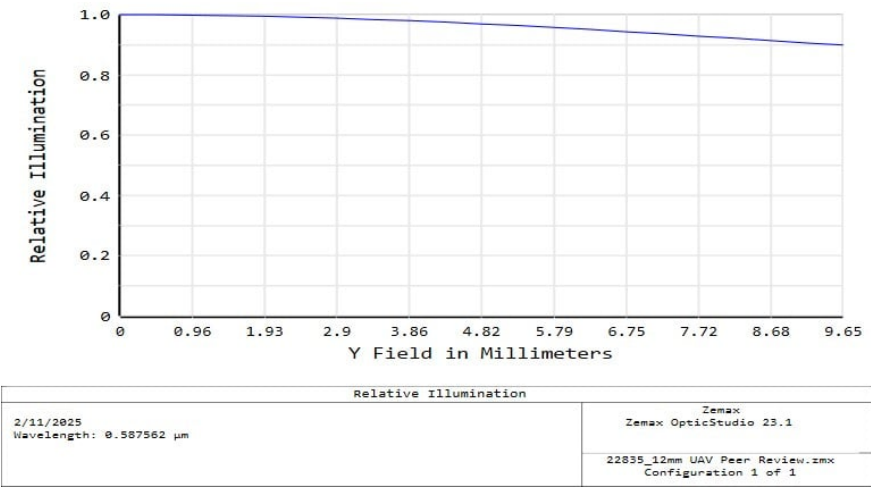
PRODUCT DETAILS

- 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

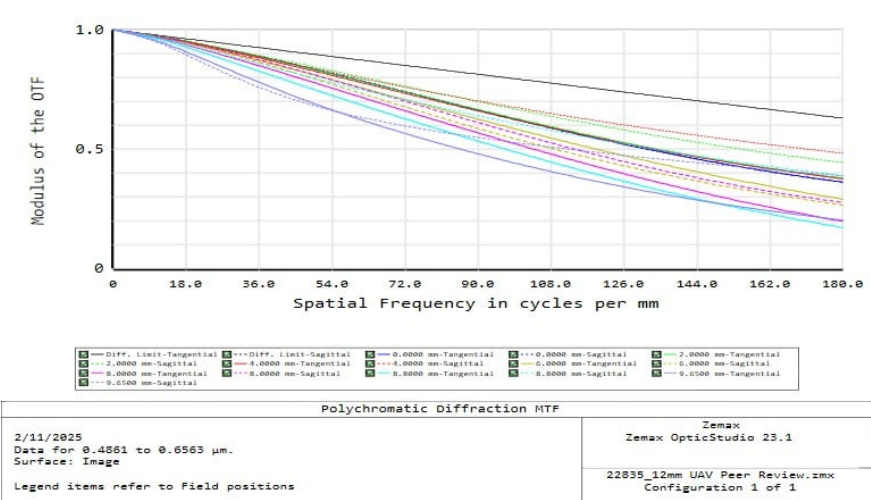
TECHSPEC® UAV Series Fixed Focal Length Lenses are compact, lightweight infinite conjugate lenses designed for the 4th Generation Sony Pregius 1.2" IMX530 and IMX540 sensors for mounting on autonomous vehicles and drones. These lenses are designed with a low Ground Separation Distance (GSD) to enable 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

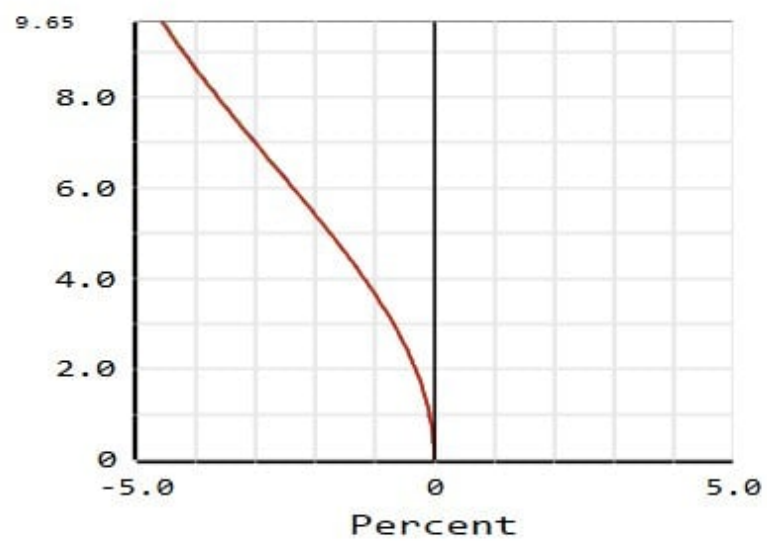
TECHNICAL INFORMATION



#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



0.4861 0.5876 0.6563

F-Tan(Theta) Distortion	
2/11/2025 Maximum Field is 9.650 Millimeters. Maximum distortion = 4.5492%	Zemax Zemax OpticStudio 23.1
22815_12mm UAV Peer Review.ZMX Configuration 1 of 1	

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