

TECHSPEC® 12mm, f/8 UCi Series Fixed Focal Length Lens



12mm UCi Series Fixed Focal Length Lens



Stock #33-880 9 In Stock

-

1

+

€235^{.00}

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Volume Pricing	
Qty 1+	€235,00 each
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Product Downloads

General	
UCi Series	Series:
Fixed Focal Length Lens	Type:
No	IR Cut Filter:

Physical & Mechanical Properties	
Fixed	Iris Option:
38.00	Length (mm):
22	Maximum Diameter (mm):
22	Outer Diameter (mm):
18	Weight (g):
0	Maximum Rear Protrusion (mm):
Optical Properties	
Horizontal Field of View @ Max Sensor Format: 69.2mm - 34.0°	
Field of View at Max Sensor Format: Horizontal: 69.2mm - 34° Vertical: 51.4mm - 25.6° Diagonal: 87.6mm - 42.2°	
Horizontal Field of View, 1/1.8" Sensor: 69.2mm - 34.0°	
Horizontal Field of View, 1/2" Sensor: 61.2mm - 30.3°	
Horizontal Field of View, 1/2.5" Sensor: 55.3mm - 27.5°	
Horizontal Field of View, 1/3" Sensor: 45.5mm - 22.8°	
Horizontal Field of View, 1/4" Sensor: 34.0mm - 17.1°	
Maximum Image Circle (mm): 9.00	
Numerical Aperture NA, Object Side: 0.0064	
Number of Elements (Groups): 7 (6)	
Focal Length FL (mm): 12.00	
Working Distance (mm): 100 - ∞	
Aperture (f/#): f/8.0	
Coating: λ/4 MgF ₂	
Coating Specification: λ/4 MgF ₂	
Entrance Pupil Position (mm): 15.92	
Object Space Principal Plane (mm): 23.03	
Image Space Principal Plane (mm): -1.82	
Maximum Distortion (%): -3.03	
Exit Pupil Position (mm): -19.24	
Lens Wavelength Range: VIS	
Sensor	
Optimized Sensor Format: 1/2.5"	
Maximum Sensor Format: 1/1.8"	
Pixel Size (μm): 1.85	
Threading & Mounting	
Filter Thread: M22 x0.75 (Male)	
Mount: S-Mount (M12 x0.5)	

Environmental & Durability Factors

	Storage Temperature (°C):
-20 to +60	
	Type of Ruggedization:
Industrial (Fixed Aperture with Simplified Mechanics)	

Regulatory Compliance

	Certificate of Conformance:
View	

Product Details

- Up to 1/1.8", C-Mount, S-Mount Lens
- Up to 12 MegaPixels, 1.85µm Pixel Size Sensors
- Instrumentation (UCi) versions of our UC Series Lenses with Streamlined Mechanical Designs and Fixed Apertures
- 4mm to 35mm Focal Length

TECHSPEC® UCi Series Fixed Focal Length Lenses utilize the same optics as the TECHSPEC UC Series Lenses and feature 4K resolution. These lenses are designed for small pixels ≤2.2µm and offer a wide range of fixed apertures for a variety of applications. While optimized for 1/2.5" sensors, many focal length options can be used on sensors up to 1/1.8". TECHSPEC® UCi Series Fixed Focal Length Lenses are ideal for OEM applications that require small, robust, and lightweight imaging solutions.

Note: For adjustable aperture options, see our [TECHSPEC® UC Series Fixed Focal Length Lenses](#).

Edmund Optics has created a family of high-performance ultra-compact optical designs (the UC Series family) and developed 3 customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the UC Series lenses providing the same optical performance in a variety of optomechanical solutions to meet your application requirements:

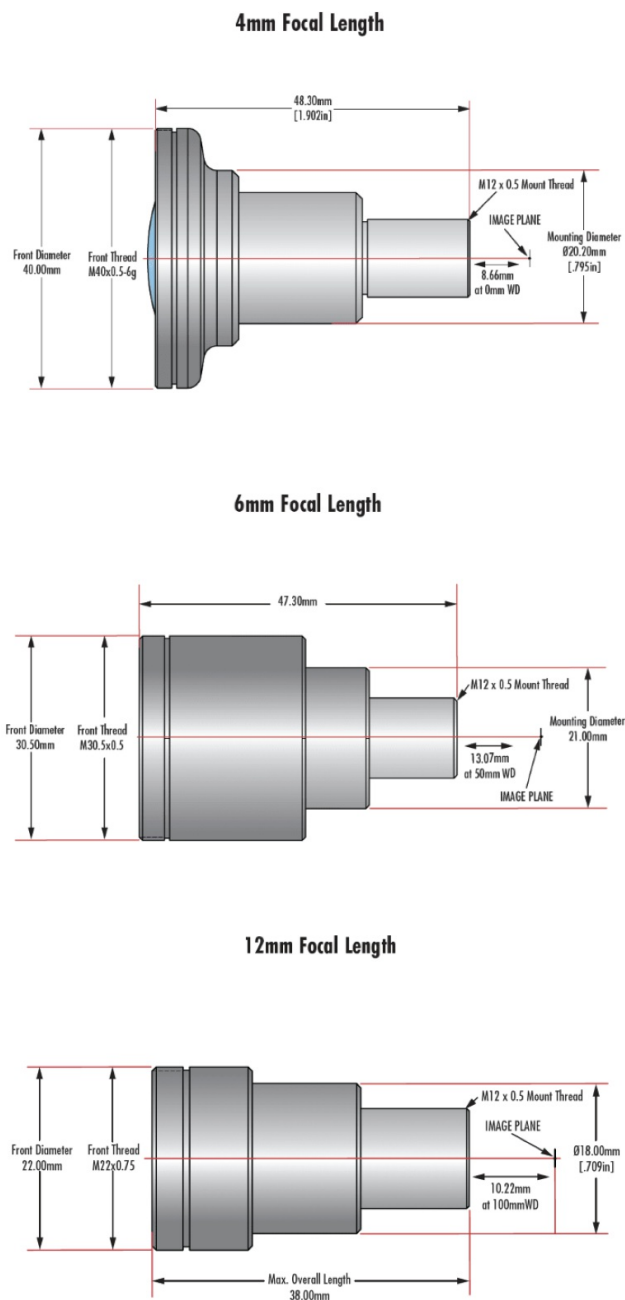
UC Series: Features locking cam focus and iris adjustment in an ultra-compact design and is the most adjustable version of these optical designs; they are the typical high-quality machine vision lenses.

UCi Series: Simplified mechanics featuring fixed apertures with compact housing. [Industrial Ruggedization](#) for reduced size, cost, and locked focus.

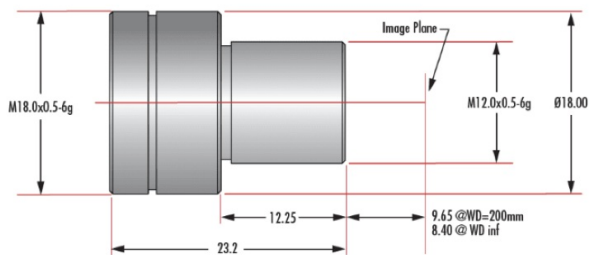
UCr Series: All optics glued in place and a locking C-clamp focus ring. [Stabilized Ruggedization](#) for reduced pixel shift and improved focus stability.

UCw Series: Waterproof, designed to meet IEC [Ingress Protection](#) Code IPX7 to withstand exposure to water up to 1 meter depth for 30 minutes.

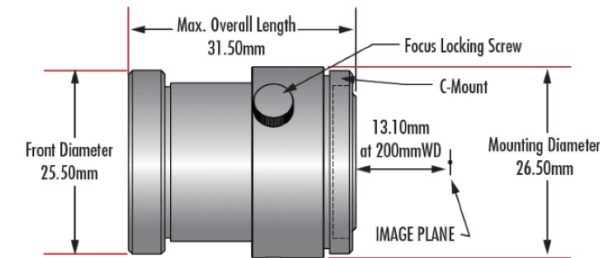
Technical Information



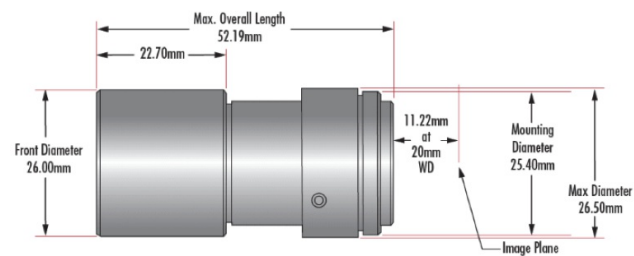
16mm Focal Length



25mm Focal Length



35mm Focal Length



Compatible Cameras