

**TECHSPEC® 8mm, f/1.8 UCi Series Fixed Focal Length Lens**



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Stock #28-634 **NEW** 1 In Stock

⊖ 1 ⊕ \$309<sup>00</sup>

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**General**

UCi Series **Series:**

Fixed Focal Length Lens **Type:**

Fixed Focal Length Lens **Imaging Lens Type:**

**Physical & Mechanical Properties**

Fixed	<b>Iris Option:</b>
49.75	<b>Length (mm):</b>
34	<b>Maximum Diameter (mm):</b>
34	<b>Outer Diameter (mm):</b>
25	<b>Weight (g):</b>
4.25	<b>Maximum Rear Protrusion (mm):</b>
44.50	<b>Maximum Length (mm):</b>

## Optical Properties

44.7°	<b>Horizontal Field of View @ Max Sensor Format:</b>
44.7°	<b>Horizontal Field of View, 1/2" Sensor:</b>
40.7°	<b>Horizontal Field of View, 1/2.5" Sensor:</b>
33.9°	<b>Horizontal Field of View, 1/3" Sensor:</b>
25.6°	<b>Horizontal Field of View, 1/4" Sensor:</b>
8.00	<b>Maximum Image Circle (mm):</b>
0.0306	<b>Numerical Aperture NA, Object Side:</b>
9 (8)	<b>Number of Elements (Groups):</b>
8.00	<b>Focal Length FL (mm):</b>
50 - ∞	<b>Working Distance (mm):</b>
f/1.8	<b>Aperture (f/#):</b>
M4 MgF2	<b>Coating:</b>
M4 MgF2	<b>Coating Specification:</b>
22.07	<b>Entrance Pupil Position (mm):</b>
27.98	<b>Object Space Principal Plane (mm):</b>
1.77	<b>Image Space Principal Plane (mm):</b>
6.87	<b>Maximum Distortion (%):</b>
-20.88	<b>Exit Pupil Position (mm):</b>
VIS	<b>Lens Wavelength Range:</b>
VIS	<b>Wavelength:</b>

## Sensor

1/2.5"	<b>Optimized Sensor Format:</b>
1/2"	<b>Maximum Sensor Format:</b>

## Threading & Mounting

M34 X0.05	<b>Filter Thread:</b>
N/a	<b>Filter Thread Adapter:</b>
C-Mount	<b>Mount:</b>

## 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

- 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  $\leq 2.2\mu\text{m}$  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.

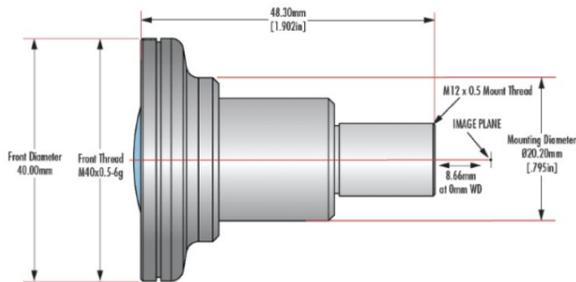
**UCi Series:** Simplified mechanics featuring fixed apertures with compact housing. [Industrial Ruggedization](#) for reduced size, cost, and locked focus.

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

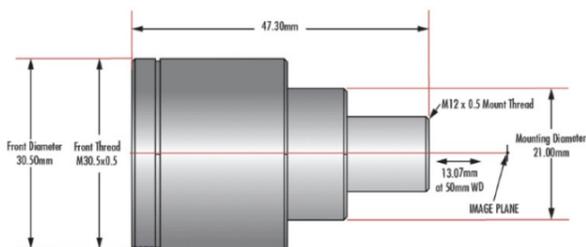
**UCw Series:** Waterproof, designed to meet IEC [Ingress Protection](#) Code IPX7 to withstand exposure to water up to 1 meter depth for 30 minutes.

## Technical Information

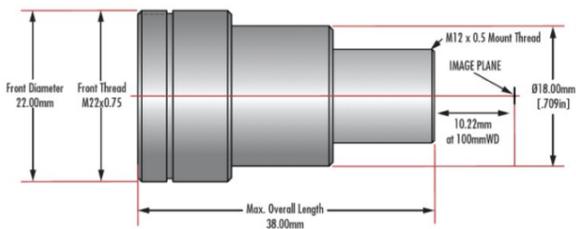
### 4mm Focal Length



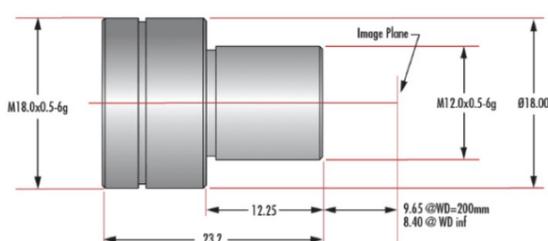
### 6mm Focal Length



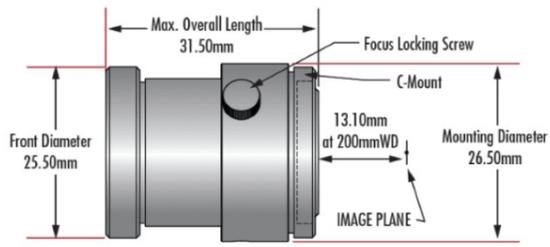
### 12mm Focal Length



### 16mm Focal Length



### 25mm Focal Length



### 35mm Focal Length

