

TECHSPEC<sup>®</sup> 8mm, f/5.6 UCi Series Fixed Focal Length Lens



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



Stock #28-637 NEW 1 In Stock

-

1

+

€235<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | €235,00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

UCi Series

Series:

|                                  |                                               |
|----------------------------------|-----------------------------------------------|
| Fixed Focal Length Lens          | Type:                                         |
| Fixed Focal Length Lens          | Imaging Lens Type:                            |
| Physical & Mechanical Properties |                                               |
| Fixed                            | Iris Option:                                  |
| 49.75                            | Length (mm):                                  |
| 34                               | Maximum Diameter (mm):                        |
| 34                               | Outer Diameter (mm):                          |
| 25                               | Weight (g):                                   |
| 4.25                             | Maximum Rear Protrusion (mm):                 |
| 44.50                            | Maximum Length (mm):                          |
| Optical Properties               |                                               |
| 44.7°                            | Horizontal Field of View @ Max Sensor Format: |
| 44.7°                            | Horizontal Field of View, 1/2" Sensor:        |
| 40.7°                            | Horizontal Field of View, 1/2.5" Sensor:      |
| 33.9°                            | Horizontal Field of View, 1/3" Sensor:        |
| 25.6°                            | Horizontal Field of View, 1/4" Sensor:        |
| 8.00                             | Maximum Image Circle (mm):                    |
| 0.0098                           | Numerical Aperture NA, Object Side:           |
| 9 (8)                            | Number of Elements (Groups):                  |
| 8.00                             | Focal Length FL (mm):                         |
| 50 - ∞                           | Working Distance (mm):                        |
| f/5.6                            | Aperture (f/#):                               |
| N4 MgF2                          | Coating:                                      |
| N4 MgF2                          | Coating Specification:                        |
| 22.07                            | Entrance Pupil Position (mm):                 |
| 27.98                            | Object Space Principal Plane (mm):            |
| 1.77                             | Image Space Principal Plane (mm):             |
| 6.87                             | Maximum Distortion (%):                       |
| -20.88                           | Exit Pupil Position (mm):                     |
| VS                               | Lens Wavelength Range:                        |
| VS                               | Wavelength:                                   |
| Sensor                           |                                               |
| 1/2.5"                           | Optimized Sensor Format:                      |
| 1/2"                             | Maximum Sensor Format:                        |
| Threading & Mounting             |                                               |
| M34 X0.05                        | Filter Thread:                                |
| N/a                              | Filter Thread Adapter:                        |

Environmental & Durability Factors

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

**Type of Ruggedization:**  
Industrial (Fixed Aperture with Simplified Mechanics)

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 ≤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.

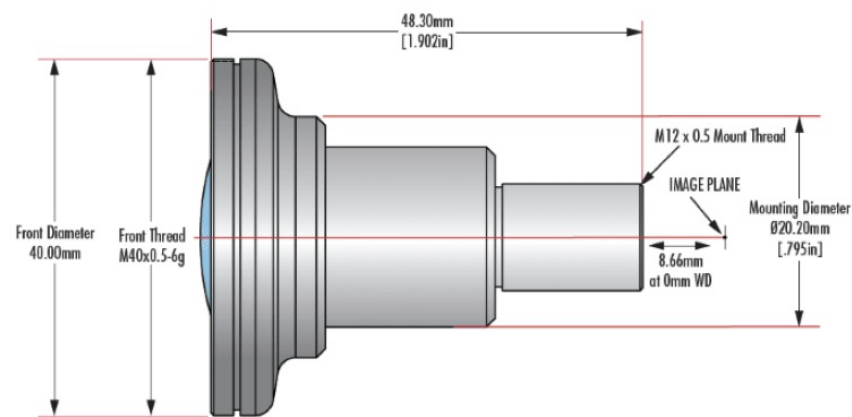
**UCi Series:** Simplified mechanics featuring fixed apertures with compact housing. [Industrial Ruggedization](#) for reduced size, cost, and locked focus.

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

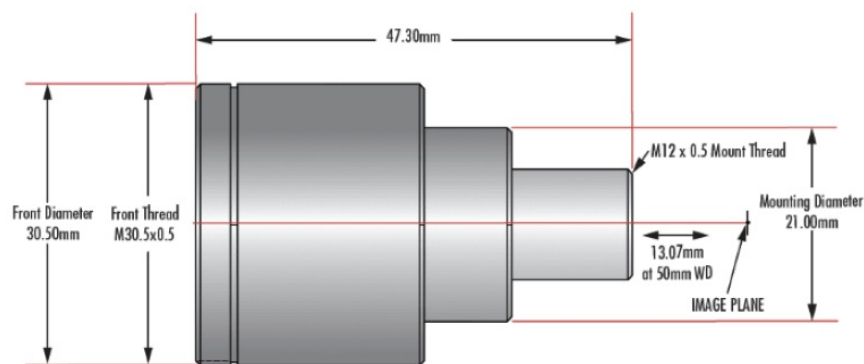
**UCw Series:** Waterproof, designed to meet IEC [Ingress Protection](#) Code IPX7 to withstand exposure to water up to 1 meter depth for 30 minutes.

TECHNICAL INFORMATION

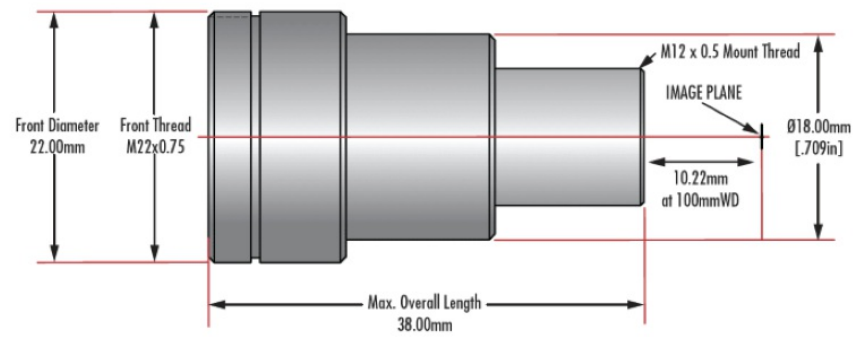
4mm Focal Length



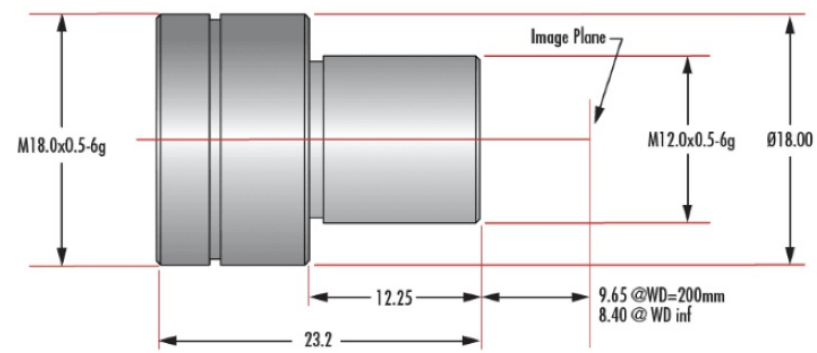
6mm Focal Length



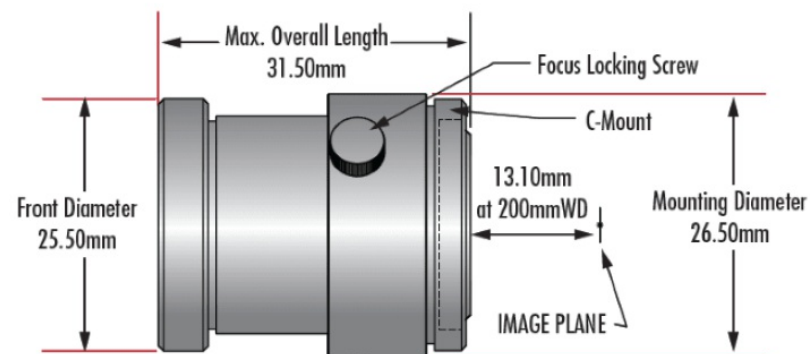
### 12mm Focal Length



### 16mm Focal Length



### 25mm Focal Length



### 35mm Focal Length

