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TECHSPEC®

8mm, f/4 UCi Series Fixed Focal Length Lens



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



Stock **#28-636** NEW **1 In Stock**

-

1

+

£188<sup>.00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | £188.00 each                  |
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**i** Prices shown are exclusive of VAT/local taxes

| Product Downloads       |                    |
|-------------------------|--------------------|
|                         |                    |
| 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):                    |
|                                    |                                               |
| 0.0138                             | Numerical Aperture NA, Object Side:           |
|                                    |                                               |
| 9 (8)                              | Number of Elements (Groups):                  |
|                                    |                                               |
| 8.00                               | Focal Length FL (mm):                         |
|                                    |                                               |
| 50 - ∞                             | Working Distance (mm):                        |
|                                    |                                               |
| f/4                                | Aperture (f/#):                               |
|                                    |                                               |
| λ/4 MgF2                           | Coating:                                      |
|                                    |                                               |
| λ/4 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):                     |
|                                    |                                               |
| VIS                                | Lens Wavelength Range:                        |
|                                    |                                               |
| VIS                                | Wavelength:                                   |
|                                    |                                               |
| Sensor                             |                                               |
| 1/2.5"                             | Optimized Sensor Format:                      |
|                                    |                                               |
| 1/2"                               | Maximum Sensor Format:                        |
|                                    |                                               |
| Threading & Mounting               |                                               |
| M34 X 0.05                         | Filter Thread:                                |
|                                    |                                               |
| N/a                                | Filter Thread Adapter:                        |
|                                    |                                               |
| C-Mount                            | Mount:                                        |
|                                    |                                               |
| Environmental & Durability Factors |                                               |

|                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage Temperature (°C):</b><br>-20 to +60 For questions regarding operating temperature please contact our support team |
| <b>Type of Ruggedization:</b><br>Industrial (Fixed Aperture with Simplified Mechanics)                                       |

|                                                            |
|------------------------------------------------------------|
| <b>Regulatory Compliance</b>                               |
| <b>Certificate of Conformance:</b><br><a href="#">View</a> |

## 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:

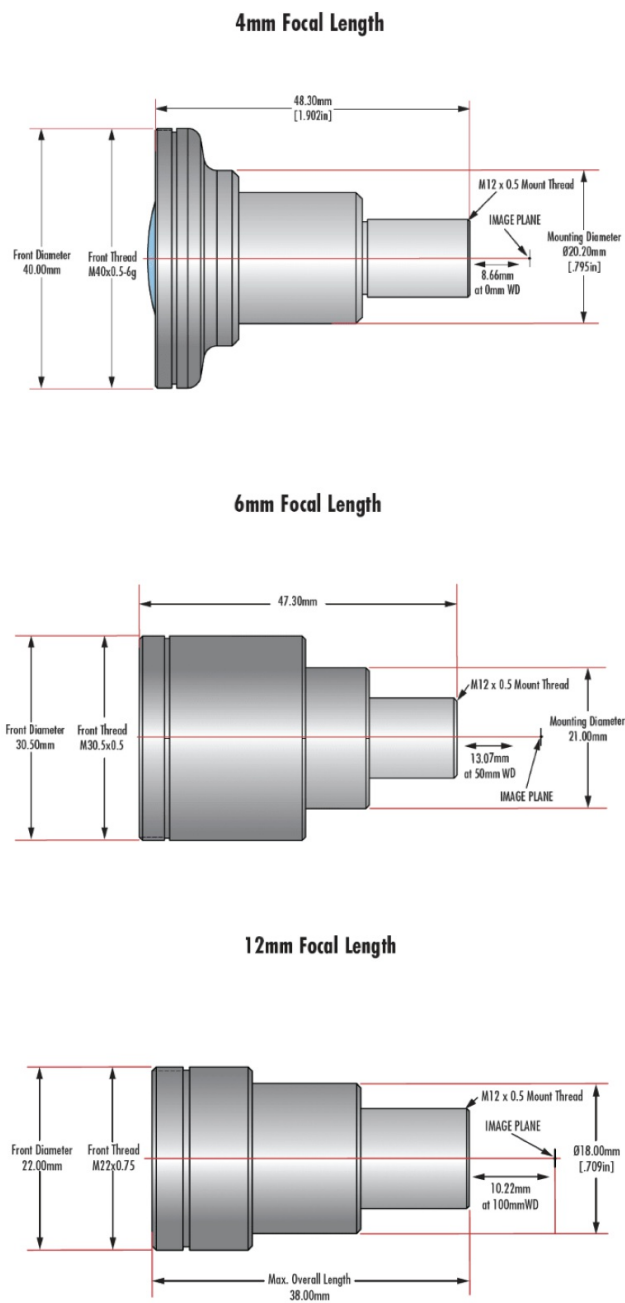
**UC Series:** Features locking cam focus and iris adjustment in an ultra-compact design and is the most adjustable version of these optical designs; they are the typical high-quality machine vision lenses.

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

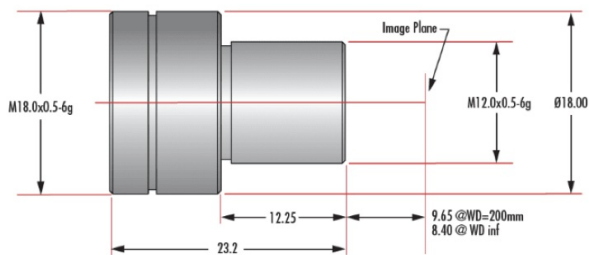
**UCr Series:** All optics glued in place and a locking C-clamp focus ring. [Stabilized Ruggedization](#) for reduced pixel shift and improved focus stability.

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

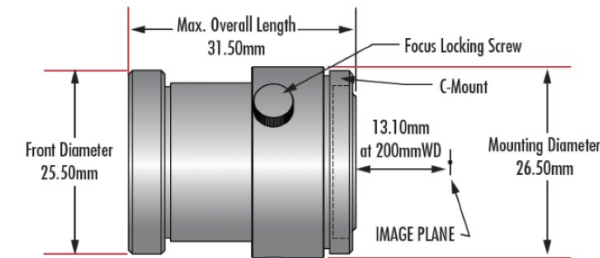
## Technical Information



16mm Focal Length



25mm Focal Length



35mm Focal Length

