

TECHSPEC®

4mm f/5.6 Sealed UCw Series Fixed Focal Length Lens



UCw Series Fixed Focal Length Lenses

Stock **#70-584** **9 In Stock**

-

1

+

€245<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | €245,00 each                  |
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

|                         |         |
|-------------------------|---------|
| UCw Series              | Series: |
| Fixed Focal Length Lens | Type:   |

|                                                                      |                                               |
|----------------------------------------------------------------------|-----------------------------------------------|
| Imaging Lens Type:<br>High Performance Lens with Compact Form Factor |                                               |
| Physical & Mechanical Properties                                     |                                               |
| Fixed                                                                | Iris Option:                                  |
|                                                                      |                                               |
| 40.71                                                                | Length (mm):                                  |
|                                                                      |                                               |
| 40                                                                   | Maximum Diameter (mm):                        |
|                                                                      |                                               |
| 40                                                                   | Outer Diameter (mm):                          |
|                                                                      |                                               |
| 6.01                                                                 | Maximum Rear Protrusion (mm):                 |
|                                                                      |                                               |
| 40.6                                                                 | Maximum Length (mm):                          |
|                                                                      |                                               |
| Optical Properties                                                   |                                               |
| 84.8°                                                                | Horizontal Field of View @ Max Sensor Format: |
|                                                                      |                                               |
| 84.8°                                                                | Horizontal Field of View, 1/2" Sensor:        |
|                                                                      |                                               |
| 77.8°                                                                | Horizontal Field of View, 1/2.5" Sensor:      |
|                                                                      |                                               |
| 65.4°                                                                | Horizontal Field of View, 1/3" Sensor:        |
|                                                                      |                                               |
| 49.7°                                                                | Horizontal Field of View, 1/4" Sensor:        |
|                                                                      |                                               |
| 8.00                                                                 | Maximum Image Circle (mm):                    |
|                                                                      |                                               |
| 0.03                                                                 | Numerical Aperture NA, Object Side:           |
|                                                                      |                                               |
| 8 (7)                                                                | Number of Elements (Groups):                  |
|                                                                      |                                               |
| 4.00                                                                 | Focal Length FL (mm):                         |
|                                                                      |                                               |
| 0 - ∞                                                                | Working Distance (mm):                        |
|                                                                      |                                               |
| f/5.6                                                                | Aperture (f/#):                               |
|                                                                      |                                               |
| λ/4 MgF <sub>2</sub>                                                 | Coating:                                      |
|                                                                      |                                               |
| λ/4 MgF <sub>2</sub>                                                 | Coating Specification:                        |
|                                                                      |                                               |
| 12.69                                                                | Entrance Pupil Position (mm):                 |
|                                                                      |                                               |
| 16.04                                                                | Object Space Principal Plane (mm):            |
|                                                                      |                                               |
| 5.84                                                                 | Image Space Principal Plane (mm):             |
|                                                                      |                                               |
| -20.43                                                               | Maximum Distortion (%):                       |
|                                                                      |                                               |
| -12.68                                                               | Exit Pupil Position (mm):                     |
|                                                                      |                                               |
| VS                                                                   | Lens Wavelength Range:                        |
|                                                                      |                                               |
| Sensor                                                               |                                               |
| 1/2.5"                                                               | Optimized Sensor Format:                      |
|                                                                      |                                               |
| 1/2"                                                                 | Maximum Sensor Format:                        |
|                                                                      |                                               |
| 1.85                                                                 | Pixel Size (μm):                              |
|                                                                      |                                               |
| Threading & Mounting                                                 |                                               |
| M62 x 0.75 (Male)                                                    | Filter Thread:                                |
|                                                                      |                                               |
| #33-308 (Required)                                                   | Filter Thread Adapter:                        |
|                                                                      |                                               |
| M40 x 0.5 (Male)                                                     | Front Thread:                                 |
|                                                                      |                                               |
| C-Mount                                                              | Mount:                                        |
|                                                                      |                                               |

Environmental & Durability Factors

|                                                                                          |                           |
|------------------------------------------------------------------------------------------|---------------------------|
| IPX7                                                                                     | Environmental Rating:     |
|                                                                                          |                           |
| -20 to +60 For questions regarding operating temperature please contact our support team | Storage Temperature (°C): |
|                                                                                          |                           |
| Waterproof (IPX7)                                                                        | Type of Ruggedization:    |
|                                                                                          |                           |

Regulatory Compliance

|                      |                             |
|----------------------|-----------------------------|
| <a href="#">View</a> | Certificate of Conformance: |
|                      |                             |

PRODUCT DETAILS

- Up to 1/2", C-Mount Lens
- Ultra-Compact (UC), High Resolution Lens for Small Sensors
- Waterproof Versions of UC Series Fixed Focal Length Lenses
- Meets IEC Ingress Protection Ratings of IPX7

TECHSPEC® UCw Series Fixed Focal Length Lenses are waterproof versions of our [TECHSPEC® UC Series Fixed Focal Length Lenses](#), and are designed to meet IEC Ingress Protection Codes IPX7 to withstand exposure to water up to 1 meter depth for 30 minutes. Additionally, their compact size provides high performance at an affordable cost without sacrificing quality or feel. These lenses include a hydrophobic coated window to prevent water droplets from settling on the lens' surface and are sealed with multiple O-rings to prevent moisture from entering the housing. TECHSPEC® UCw Series Fixed Focal Length Lenses are ideal for applications in space constrained, harsh environments such as food inspection, security, medical, and factory automation.

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.