

**TECHSPEC® 8mm, f/8 Sealed UCw Series Fixed Focal Length Lens**



UCw Series Fixed Focal Length Lenses

Stock **#70-599** **11 In Stock**

- 1 + C\$394.<sup>80</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | C\$394.80 each                |
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Product Downloads

**General**

UCw Series **Product Family:**

Fixed Focal Length Lens **Type:**

High Performance Lens with Compact Form Factor **Imaging Lens Type:**

**Physical & Mechanical Properties**

Fixed **Iris Option:**

|       |                               |
|-------|-------------------------------|
| 42.00 | Length (mm):                  |
| 34    | Maximum Diameter (mm):        |
| 30    | Outer Diameter (mm):          |
| 5.15  | Maximum Rear Protrusion (mm): |
| 40.61 | 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):                    |
| 0.01                | Numerical Aperture NA, Object Side:           |
| 9 (8)               | Number of Elements (Groups):                  |
| 8.00                | Focal Length FL (mm):                         |
| 50 - ∞              | Working Distance (mm):                        |
| f/8.0               | Aperture (f#):                                |
| N4 MgF <sub>2</sub> | Coating:                                      |
| N4 MgF <sub>2</sub> | Coating Specification:                        |
| 22.07               | Entrance Pupil Position (mm):                 |
| 27.98               | Object Space Principal Plane (mm):            |
| 1.77                | Image Space Principal Plane (mm):             |
| -3.92               | Maximum Distortion (%):                       |
| -20.88              | Exit Pupil Position (mm):                     |
| VIS                 | Lens Wavelength Range:                        |

## Sensor

|        |                          |
|--------|--------------------------|
| 1/2.5" | Optimized Sensor Format: |
| 1/2"   | Maximum Sensor Format:   |
| 1.85   | Pixel Size (μm):         |

## Threading & Mounting

|                                    |                        |
|------------------------------------|------------------------|
| M43 x 0.75 (Male)                  | Filter Thread:         |
| <a href="#">#89-940 (Required)</a> | Filter Thread Adapter: |
| M34.0 x 0.5 (Male)                 | Front Thread:          |
| C-Mount                            | Mount:                 |

## Environmental & Durability Factors

|  |                           |
|--|---------------------------|
| IPX7   | Environmental Rating:     |
| -20 to +60 For questions regarding operating | Storage Temperature (°C): |

[temperature please contact our support team](#)

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Waterproof (IPX7) **Type of Ruggedization:**

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## Regulatory Compliance

[View](#) **Certificate of Conformance:**

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## 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.

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