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**TECHSPEC® 6mm, f/2.8 Sealed UCw Series Fixed Focal Length Lens**



UCw Series Fixed Focal Length Lenses

Stock **#70-589** **2 In Stock**

- 1 + €282<sup>00</sup>

**ADD TO CART**

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | €282,00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

ⓘ Prices shown are exclusive of VAT/local taxes

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**

**Iris Option:**

|       |                               |
|-------|-------------------------------|
| Fixed |                               |
| 40.10 | Length (mm):                  |
| 38    | Maximum Diameter (mm):        |
| 38    | Outer Diameter (mm):          |
| 3.82  | Maximum Rear Protrusion (mm): |
| 40.9  | Maximum Length (mm):          |

## Optical Properties

|                     |   |
|---------------------|---|
| 60.0°               | Horizontal Field of View @ Max Sensor Format: |
| 60.0°               | Horizontal Field of View, 1/2" Sensor:        |
| 54.6°               | Horizontal Field of View, 1/2.5" Sensor:      |
| 45.4°               | Horizontal Field of View, 1/3" Sensor:        |
| 34.2°               | Horizontal Field of View, 1/4" Sensor:        |
| 8.00                | Maximum Image Circle (mm):                    |
| 0.02                | Numerical Aperture NA, Object Side:           |
| 9 (8)               | Number of Elements (Groups):                  |
| 6.00                | Focal Length FL (mm):                         |
| 50 - ∞              | Working Distance (mm):                        |
| f/2.8               | Aperture (f#):                                |
| M4 MgF <sub>2</sub> | Coating:                                      |
| M4 MgF <sub>2</sub> | Coating Specification:                        |
| 12.61               | Entrance Pupil Position (mm):                 |
| 17.55               | Object Space Principal Plane (mm):            |
| 4.85                | Image Space Principal Plane (mm):             |
| -11.19              | Maximum Distortion (%):                       |
| -23.26              | 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

|                    |                |
|--------------------|----------------|
| M34 x 0.5 (Female) | Filter Thread: |
| M34 x 0.5 (Female) | Front Thread:  |
| C-Mount            | Mount:         |

## Environmental & Durability Factors

|   |                           |
|---|---------------------------|
| IPX7  | Environmental Rating:     |
| -20 to +60  | Storage Temperature (°C): |
| <a href="#">For questions regarding operating temperature please contact our support team</a> |                           |

Waterproof (IPX7)

Type of Ruggedization:

## Regulatory Compliance

[View](#)

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.