

TECHSPEC<sup>®</sup> 6mm, f/2.8 Sealed UCw Series Fixed Focal Length Lens



UCw Series Fixed Focal Length Lenses

Stock **#70-589** NEW **3 In Stock**

-

1

+

₹22,050

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | ₹22,050 each                  |
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SPECIFICATIONS

General

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

Imaging Lens Type:  
High Performance Lens with Compact Form Factor

| Physical & Mechanical Properties |                               |
|----------------------------------|-------------------------------|
| Fixed                            | Iris Option:                  |
|                                  |                               |
| 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/#):                               |
|                     |                                               |
| N4 MgF <sub>2</sub> | Coating:                                      |
|                     |                                               |
| N4 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):                     |
|                     |                                               |
| VS                  | Lens Wavelength Range:                        |
|                     |                                               |

| Sensor |                          |
|--------|--------------------------|
| 1/2.5" | Optimized Sensor Format: |
|        |                          |
| 1/2"   | Maximum Sensor Format:   |
|        |                          |

| Threading & Mounting |                |
|----------------------|----------------|
| M34 x0.5 (Female)    | Filter Thread: |
|                      |                |
| M34 x0.5 (Female)    | 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): |
|                                                                                          |                           |

|                   |                        |
|-------------------|------------------------|
|                   | Type of Ruggedization: |
| Waterproof (IPX7) |                        |

Regulatory Compliance

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

## 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.