

TECHSPEC® 8mm, f/11 Sealed UCw Series Fixed Focal Length Lens



UCw Series Fixed Focal Length Lenses

Stock #70-600 1 In Stock

-

1

+

£225<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | £225.60 each                  |
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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 |                               |
| 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/11.0               | Aperture (f/#):                               |
| λ/4 MgF <sub>2</sub> | Coating:                                      |
| λ/4 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 x0.75 (Male)     | Filter Thread:         |
| #89-940 (Required)   | Filter Thread Adapter: |
| M34.0 x0.5 (Male)    | Front Thread:          |
| C-Mount              | Mount:                 |

|                                    |                           |
|------------------------------------|---------------------------|
| Environmental & Durability Factors |                           |
| IPX7                               | Environmental Rating:     |
|                                    | Storage Temperature (°C): |

-20 to +60 For questions regarding operating temperature please contact our support team

Type of Ruggedization:

Waterproof (IPX7)

Regulatory Compliance

[View](#)

Certificate of Conformance:

Product Details

- Up to 1/2", C-Mbunt 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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