

TECHSPEC® 16mm, f/2.8 Sealed UCw Series Fixed Focal Length Lens



UCw Series Fixed Focal Length Lenses

Stock #70-610 **NEW** 20+ In Stock

⊖ 1 ⊕ £225⁰⁰

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| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1+ | £225.60 each |
| Need More? | Request Quote |

ⓘ 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 | |
| 20.42 | Length (mm): |
| 38 | Maximum Diameter (mm): |
| 38 | Outer Diameter (mm): |
| 5.13 | Maximum Rear Protrusion (mm): |
| 29.13 | Maximum Length (mm): |

Optical Properties

| | |
|----------------------|-----------------------------------------------|
| 25.3° | Horizontal Field of View @ Max Sensor Format: |
| 25.3° | Horizontal Field of View, 1/1.8" Sensor: |
| 22.5° | Horizontal Field of View, 1/2" Sensor: |
| 20.5° | Horizontal Field of View, 1/2.5" Sensor: |
| 17.0° | Horizontal Field of View, 1/3" Sensor: |
| 12.8° | Horizontal Field of View, 1/4" Sensor: |
| 9.00 | Maximum Image Circle (mm): |
| 0.01 | Numerical Aperture NA, Object Side: |
| 7 (5) | Number of Elements (Groups): |
| 16.00 | Focal Length FL (mm): |
| 200 - ∞ | Working Distance (mm): |
| f/2.8 | Aperture (f/#): |
| λ/4 MgF ₂ | Coating: |
| λ/4 MgF ₂ | Coating Specification: |
| 10.68 | Entrance Pupil Position (mm): |
| 20.18 | Object Space Principal Plane (mm): |
| -6.67 | Image Space Principal Plane (mm): |
| -0.53 | Maximum Distortion (%): |
| -29.94 | Exit Pupil Position (mm): |
| VIS | Lens Wavelength Range: |

Sensor

| | |
|--------|--------------------------|
| 1/2.5" | Optimized Sensor Format: |
| 1/1.8" | Maximum Sensor Format: |
| 1.85 | Pixel Size (μm): |

Threading & Mounting

| | |
|---------|--------|
| C-Mount | Mount: |
|---------|--------|

Environmental & Durability Factors

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

[View](#)

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.
