

TECHSPEC®

16mm, f/8 Sealed UCw Series Fixed Focal Length Lens



UCw Series Fixed Focal Length Lenses

Stock **#70-613** NEW **4 In Stock**

-

1

+

A\$355<sup>25</sup>

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| Qty 1+         | A\$355.25 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:                                  |
| 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):                    |
| 0.005                                                                                    | Numerical Aperture NA, Object Side:           |
| 7 (5)                                                                                    | Number of Elements (Groups):                  |
| 16.00                                                                                    | Focal Length FL (mm):                         |
| 200 - ∞                                                                                  | Working Distance (mm):                        |
| f/8.0                                                                                    | Aperture (f/#):                               |
| N/4 MgF <sub>2</sub>                                                                     | Coating:                                      |
| N/4 MgF <sub>2</sub>                                                                     | 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):                     |
| VS                                                                                       | Lens Wavelength Range:                        |
| Sensor                                                                                   |                                               |
| 1/2.5"                                                                                   | Optimized Sensor Format:                      |
| 1/1.8"                                                                                   | Maximum Sensor Format:                        |
| Threading & Mounting                                                                     |                                               |
| M25.5 x0.50 (Female)                                                                     | Filter Thread:                                |
| C-Mbunt                                                                                  | 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.