

TECHSPEC® 25mm, f/4 Sealed UCw Series Fixed Focal Length Lens



UCw Series Fixed Focal Length Lenses

Stock #70-618 NEW 2 In Stock

-

1

+

A\$451<sup>20</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | A\$451.20 each                |
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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               |                    |
| Fixed                                          | Iris Option:       |

|       |                               |
|-------|-------------------------------|
| 28.17 | Length (mm):                  |
| 38    | Maximum Diameter (mm):        |
| 38    | Outer Diameter (mm):          |
| 3.44  | Maximum Rear Protrusion (mm): |
| 31.28 | Maximum Length (mm):          |

Optical Properties

|                      |                                               |
|----------------------|-----------------------------------------------|
| 16.4°                | Horizontal Field of View @ Max Sensor Format: |
| 16.4°                | Horizontal Field of View, 1/1.8" Sensor:      |
| 14.6°                | Horizontal Field of View, 1/2" Sensor:        |
| 13.2°                | Horizontal Field of View, 1/2.5" Sensor:      |
| 11.0°                | Horizontal Field of View, 1/3" Sensor:        |
| 8.2°                 | 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):                  |
| 25.00                | Focal Length FL (mm):                         |
| 200 - ∞              | Working Distance (mm):                        |
| f/4.0                | Aperture (f/#):                               |
| λ/4 MgF <sub>2</sub> | Coating:                                      |
| λ/4 MgF <sub>2</sub> | Coating Specification:                        |
| 15.05                | Entrance Pupil Position (mm):                 |
| 29.11                | Object Space Principal Plane (mm):            |
| -12.34               | Image Space Principal Plane (mm):             |
| -0.15                | Maximum Distortion (%):                       |
| -44.48               | 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

|                      |                |
|----------------------|----------------|
| M25.5 x0.50 (Female) | Filter 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): |
| Waterproof (IPX7)                                                                        | Type of Ruggedization:    |

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.