

TECHSPEC® 35mm, f/1.85 Sealed UCw Series Fixed Focal Length Lens



UCw Series Fixed Focal Length Lenses

Stock #70-624 NEW 2 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

SPECIFICATIONS

General

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

|                                                                      |                                               |
|----------------------------------------------------------------------|-----------------------------------------------|
| Imaging Lens Type:<br>High Performance Lens with Compact Form Factor |                                               |
| Physical & Mechanical Properties                                     |                                               |
| Fixed                                                                | Iris Option:                                  |
|                                                                      |                                               |
| 51.46                                                                | Length (mm):                                  |
|                                                                      |                                               |
| 38                                                                   | Maximum Diameter (mm):                        |
|                                                                      |                                               |
| 38                                                                   | Outer Diameter (mm):                          |
|                                                                      |                                               |
| 2.11                                                                 | Maximum Rear Protrusion (mm):                 |
|                                                                      |                                               |
| 52.76                                                                | Maximum Length (mm):                          |
|                                                                      |                                               |
| Optical Properties                                                   |                                               |
| 11.1°                                                                | Horizontal Field of View @ Max Sensor Format: |
|                                                                      |                                               |
| 11.9°                                                                | Horizontal Field of View, 1/1.8" Sensor:      |
|                                                                      |                                               |
| 10.6°                                                                | Horizontal Field of View, 1/2" Sensor:        |
|                                                                      |                                               |
| 9.6°                                                                 | Horizontal Field of View, 1/2.5" Sensor:      |
|                                                                      |                                               |
| 7.9°                                                                 | Horizontal Field of View, 1/3" Sensor:        |
|                                                                      |                                               |
| 6.0°                                                                 | Horizontal Field of View, 1/4" Sensor:        |
|                                                                      |                                               |
| 9.00                                                                 | Maximum Image Circle (mm):                    |
|                                                                      |                                               |
| 0.04                                                                 | Numerical Aperture NA, Object Side:           |
|                                                                      |                                               |
| 7 (5)                                                                | Number of Elements (Groups):                  |
|                                                                      |                                               |
| 35.00                                                                | Focal Length FL (mm):                         |
|                                                                      |                                               |
| 200 - ∞                                                              | Working Distance (mm):                        |
|                                                                      |                                               |
| f/1.8                                                                | Aperture (f/#):                               |
|                                                                      |                                               |
| N4 MgF <sub>2</sub>                                                  | Coating:                                      |
|                                                                      |                                               |
| N4 MgF <sub>2</sub>                                                  | Coating Specification:                        |
|                                                                      |                                               |
| 34.01                                                                | Entrance Pupil Position (mm):                 |
|                                                                      |                                               |
| 49.24                                                                | Object Space Principal Plane (mm):            |
|                                                                      |                                               |
| -19.45                                                               | Image Space Principal Plane (mm):             |
|                                                                      |                                               |
| -0.22                                                                | Maximum Distortion (%):                       |
|                                                                      |                                               |
| -46.71                                                               | 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 x 0.50 (Female)                                                | Filter Thread:                                |
|                                                                      |                                               |
| C-Mount                                                              | Mount:                                        |
|                                                                      |                                               |
| Environmental & Durability Factors                                   |                                               |
| IPX7                                                                 | Environmental Rating:                         |
|                                                                      |                                               |

|                                                                                                                       |                   |
|-----------------------------------------------------------------------------------------------------------------------|-------------------|
| Storage Temperature (°C):<br>-20 to +60 For questions regarding operating temperature please contact our support team |                   |
| 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.