

TECHSPEC® 12mm, f/2.8 Sealed UCw Series Fixed Focal Length Lens



UCw Series Fixed Focal Length Lenses

Stock **#70-603** 1 In Stock

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1

+

£225⁰⁰

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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:
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Physical & Mechanical Properties

Iris Option:

Fixed	
34.16	Length (mm):
30	Maximum Diameter (mm):
30	Outer Diameter (mm):
4.52	Maximum Rear Protrusion (mm):
35.2	Maximum Length (mm):

Optical Properties

34.0°	Horizontal Field of View @ Max Sensor Format:
34.0°	Horizontal Field of View, 1/1.8" Sensor:
30.3°	Horizontal Field of View, 1/2" Sensor:
27.5°	Horizontal Field of View, 1/2.5" Sensor:
22.8°	Horizontal Field of View, 1/3" Sensor:
17.1°	Horizontal Field of View, 1/4" Sensor:
9.00	Maximum Image Circle (mm):
0.02	Numerical Aperture NA, Object Side:
7 (6)	Number of Elements (Groups):
12.00	Focal Length FL (mm):
100 - ∞	Working Distance (mm):
f/2.8	Aperture (f/#):
λ/4 MgF ₂	Coating:
λ/4 MgF ₂	Coating Specification:
15.92	Entrance Pupil Position (mm):
23.04	Object Space Principal Plane (mm):
-1.82	Image Space Principal Plane (mm):
-3.03	Maximum Distortion (%):
-19.24	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 x 0.50 (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-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.