

TECHSPEC®

8mm, f/4 Sealed UCw Series Fixed Focal Length Lens



UCw Series Fixed Focal Length Lenses

Stock **#70-597** [CONTACT US](#)

-

1

+

€245⁰⁰

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Volume Pricing	
Qty 1+	€245,00 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: High Performance Lens with Compact Form Factor	
Physical & Mechanical Properties	
Fixed	Iris Option:
42.00	Length (mm):
34	Maximum Diameter (mm):
30	Outer Diameter (mm):
5.15	Maximum Rear Protrusion (mm):
40.61	Maximum Length (mm):
Optical Properties	
44.7°	Horizontal Field of View @ Max Sensor Format:
44.7°	Horizontal Field of View, 1/2" Sensor:
40.7°	Horizontal Field of View, 1/2.5" Sensor:
33.9°	Horizontal Field of View, 1/3" Sensor:
25.6°	Horizontal Field of View, 1/4" Sensor:
8.00	Maximum Image Circle (mm):
0.01	Numerical Aperture NA, Object Side:
9 (8)	Number of Elements (Groups):
8.00	Focal Length FL (mm):
50 - ∞	Working Distance (mm):
f/4.0	Aperture (f/#):
λ/4 MgF ₂	Coating:
λ/4 MgF ₂	Coating Specification:
22.07	Entrance Pupil Position (mm):
27.98	Object Space Principal Plane (mm):
1.77	Image Space Principal Plane (mm):
-3.92	Maximum Distortion (%):
-20.88	Exit Pupil Position (mm):
VS	Lens Wavelength Range:
Sensor	
1/2.5"	Optimized Sensor Format:
1/2"	Maximum Sensor Format:
1.85	Pixel Size (μm):
Threading & Mounting	
M43 x 0.75 (Male)	Filter Thread:
#89-940 (Required)	Filter Thread Adapter:
M34.0 x 0.5 (Male)	Front Thread:
C-Mount	Mount:

Environmental & Durability Factors

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