

TECHSPEC® 8mm, f/1.8 Sealed UCw Series Fixed Focal Length Lens



UCw Series Fixed Focal Length Lenses

Stock #70-595 **9 In Stock**

1 **£225^{.60}**

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Volume Pricing	
Qty	£225.60 each
1+	each
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Prices shown are exclusive of VAT/local taxes

Product Downloads	
STEP:step	PDF Drawing:pdf
IGES:igs	Zemax
eDrawing:eprt	
EO Spec Sheet	

General

Product Family:	UCw Series	Type:	Fixed Focal Length Lens
Imaging Lens Type:	High Performance Lens with Compact Form Factor		

Physical & Mechanical Properties

Iris Option:	Fixed	Length (mm):	42.00
Maximum Diameter (mm):	34	Outer Diameter (mm):	30
Maximum Rear Protrusion (mm):	5.15	Maximum Length (mm):	40.61

Optical Properties

Horizontal Field of View @ Max Sensor Format:	44.7°	Horizontal Field of View, 1/2" Sensor:	44.7°
Horizontal Field of View, 1/2.5" Sensor:	40.7°	Horizontal Field of View, 1/3" Sensor:	33.9°
Horizontal Field of View, 1/4" Sensor:	25.6°	Maximum Image Circle (mm):	8.00
Numerical Aperture NA, Object Side:	0.03	Number of Elements (Groups):	9 (8)
Focal Length FL (mm):	8.00	Working Distance (mm):	50 - ∞

Aperture (f/#):	f/1.8	Coating:	$\lambda/4$ MgF ₂
Coating Specification:	$\lambda/4$ MgF ₂	Entrance Pupil Position (mm):	22.07
Object Space Principal Plane (mm):	27.98	Image Space Principal Plane (mm):	1.77
Maximum Distortion (%):	-3.92	Exit Pupil Position (mm):	-20.88
Lens Wavelength Range:	VIS		

Sensor

Optimized Sensor Format:	1/2.5"	Maximum Sensor Format:	1/2"
Pixel Size (µm):	1.85		

Threading & Mounting

Filter Thread:	M43 x 0.75 (Male)	Filter Thread Adapter:	#89-940 (Required)
Front Thread:	M34.0 x 0.5 (Male)	Mount:	C-Mount

Environmental & Durability Factors

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

Regulatory Compliance

Certificate of Conformance:	View		
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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.

Accessories

Note: Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
MORE+	5 pk. O-Ring for Cw Lenses		#22-790	£18.80 Request Quote	5 In Stock <input type="text" value="1"/>
MORE+	5.3 oz. Tube O-Ring Grease		#22-791	£46.80 Request Quote	2 In Stock <input type="text" value="1"/>
MORE+	CW Series to LUCID Triton™ C-Mount Adapter with O-Ring		#23-669	£42.40 Request Quote	20+ In Stock <input type="text" value="1"/>

Related Products



UC Series Fixed Focal Length Lenses



Cw Series Fixed Focal Length Lenses



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