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TECHSPEC 4.5mm f/4.0 Sealed Cw Series Fixed Focal Length Lens



4.5mm Focal Length





Stock **#15-615 1 In Stock**

- 1 + £417.00

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Volume Pricing	
Qty 1+	£417.00 each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Series:

C-Mount compatible with O-ring 25m	Note: ID x2mm	
Fixed Focal Length Lens	Type:	
Physical & Mechanical F	perties	
Fixed	Iris Option:	
40.82	ength (mm):	
	meter (mm):	
	meter (mm):	
Maximum Rear Pi	rusion (mm):	
Optical Properties		
Field of View at Max : Horizontal: 84.7° Vertical: 66.1° Diagonal: 100.0°	ısor Format:	
Horizontal Field of View 84.7°	1.8" Sensor:	
Horizontal Field of Vie	1/2" Sensor:	
Horizontal Field of View	2.5" Sensor:	
Horizontal Field of Vie	1/3" Sensor:	
Maximum Ima	Circle (mm):	
Numerical Aperture N	Object Side:	
Number of Elen	nts (Groups):	
	gth FL (mm):	
	stance (mm):	
f/4	perture (f#):	
	pecification:	
Entrance Pupil	psition (mm):	
27.308 Object Space Princip	Plane (mm):	
-31.12	Plane (mm):	
35.70 Maximun	istortion (%):	
15.959 Exit Pupil	osition (mm):	
-9.272	ength Range:	
Sensor		
	nsor Format:	
	el Size (μm):	
Threading & Mounting		
M49 x 0.75 (Female)	ilter Thread:	
C-Mount	Mount:	
Environmental & Durabi	y Factors	
Enviror IPX7	ental Rating:	
	ggedization:	
piooi (ii /u /		

Note:

Certificate of Conformance:

PRODUCT DETAILS

- Up to 2/3", C-Mount Lens
- Waterproof (Cw) Versions of C Series Fixed Focal Length Lenses
- Meets IEC Ingress Protection Ratings of IPX7 and IPX9K
- Designed to Eliminate the Need for a Protective Lens Cover

TECHSPEC® Cw Series Fixed Focal Length Lenses are waterproof versions of our TECHSPEO® C Series Fixed Focal Length Lenses. Designed to meet IEC Ingress Protection Codes IPX7 and IPX9K, these lenses withstand exposure to water up to 1 meter depth for 30 minutes and operate in close-range high pressure, high temperature water spray downs with the exception of all 3.5 and 4.5mm options which are IPX7. These lenses include a hydrophobic coated window to prevent water droplets from settling on the lens' surface. To prevent moisture from entering the housing, the lenses are sealed with multiple O-rings. TECHSPEC® Cw Series Fixed Focal Length Lenses are designed for up to 7.5 MegaPixel, 2/3" sensors and are ideal for applications including food, pharma, automotive, and security. These lenses won the Bronze-Level 2021 Vision Systems Design Innovators Award.

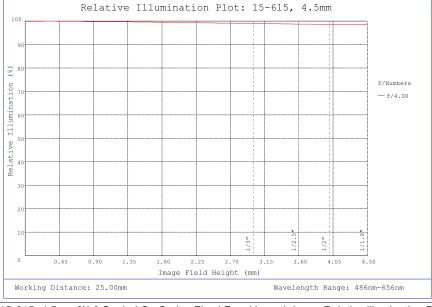
Edmund Optics has created a family of high performance optical designs (the C Series family) and developed 6 customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the C Series lenses providing the same optical performance in a variety of optomechanical solutions to meet your application requirements:

- C Series: Features locking cam focus and iris adjustment and is the most adjustable version of these optical designs; they are the typical high quality machine vision lenses. Also available with a VIS-NIR Broadband Anti-Reflection (BBAR) Coating.
- Ci Series: Simplified mechanics featuring fixed apertures with compact housing. Industrial Ruggedization for reduced size, cost, and locked focus.
- Cr Series: All optics glued in place and a locking C-clamp focus ring. Stabilized Ruggedization for reduced pixel shift and improved focus stability.
- Cx Series: Modular, flexible mechanics allows lenses to be taken apart for easy integration of accessories such as liquid lenses, apertures, and more.
- Liquid Lens Cx Series: Designed with an integrated liquid lens for quick autofocus.
- Cw Series: Waterproof, designed to meet IEC Ingress Protection Code IPX7 and IPX9K.

TECHNICAL INFORMATION



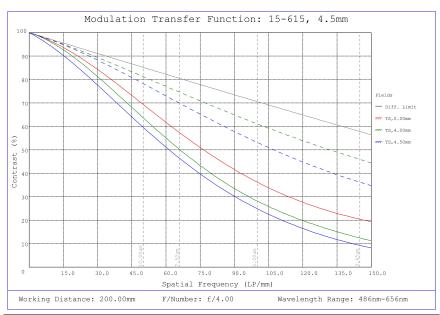
 ${\it \#15-615,\,4.5mm\,f/4.0\,Sealed\,Cw\,Series\,Fixed\,Focal\,Length\,Lens,\,Distortion\,Plot}$



#15-615, 4.5mm f/4.0 Sealed Cw Series Fixed Focal Length Lens, Relative Illumination Plot



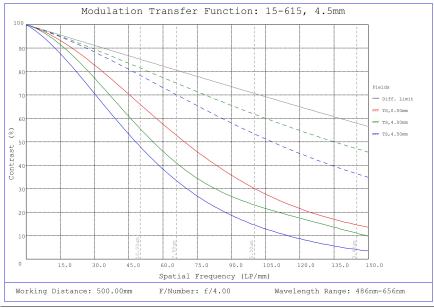
#15-615, 4.5mm f/4.0 Sealed Cw Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



#15-615, 4.5mm f/4.0 Sealed Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 200mm Working Distance, f4



#15-615, 4.5mm f/4.0 Sealed Cw Series Fixed Focal Length Lens, Depth of Field Plot, 200mm Working Distance, f4



#15-615, 4.5mm f/4.0 Sealed Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f4



#15-615, 4.5mm f/4.0 Sealed Cw Series Fixed Focal Length Lens, Depth of Field Plot, 500mm Working Distance, f4