

TECHSPEC<sup>®</sup> 8.5mm, f/2.8 Cw Series Fixed Focal Length Lens



8.5mm Cw Series Fixed Focal Length Lens



Stock **#15-627** **2 In Stock**

-

1

+

£255<sup>.00</sup>

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Qty 1+	£255.00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Cw Series

Series:

C-Mbunt compatible with O-ring 25mm ID x2mm		Note:
Fixed Focal Length Lens	Type:	
Physical & Mechanical Properties		
Fixed	Iris Option:	
38.98	Length (mm):	
37.77	Maximum Diameter (mm):	
37.77	Outer Diameter (mm):	
0.6	Maximum Rear Protrusion (mm):	
Optical Properties		
Field of View at Max Sensor Format: Horizontal: 60.65° Vertical: 45.0° Diagonal: 77.0°		
60.6°	Horizontal Field of View, 2/3" Sensor:	
49.2°	Horizontal Field of View, 1/1.8" Sensor:	
43.6°	Horizontal Field of View, 1/2" Sensor:	
39.4°	Horizontal Field of View, 1/2.5" Sensor:	
32.6°	Horizontal Field of View, 1/3" Sensor:	
24.4°	Horizontal Field of View, 1/4" Sensor:	
11.00	Maximum Image Circle (mm):	
0.0128	Numerical Aperture NA, Object Side:	
6 (5)	Number of Elements (Groups):	
8.50	Focal Length FL (mm):	
100 - ∞	Working Distance (mm):	
f/2.8	Aperture (f/#):	
425 - 675nm BBAR	Coating Specification:	
12.86	Entrance Pupil Position (mm):	
18.72	Object Space Principal Plane (mm):	
6.67	Image Space Principal Plane (mm):	
-18.51	Maximum Distortion (%):	
-12.12	Exit Pupil Position (mm):	
VS	Lens Wavelength Range:	
Sensor		
2/3"	Maximum Sensor Format:	
2.74	Pixel Size (μm):	
Threading & Mounting		
M30.5 x0.50 (Female)	Filter Thread:	
C-Mbunt	Mount:	
Environmental & Durability Factors		
Environmental Rating:		

IPX7 and IPX9K

Storage Temperature (°C):

-20 to +60

Type of Ruggedization:

Waterproof (IPX7 and IPX9K)

Regulatory Compliance

Certificate of Conformance:

[View](#)

PRODUCT DETAILS

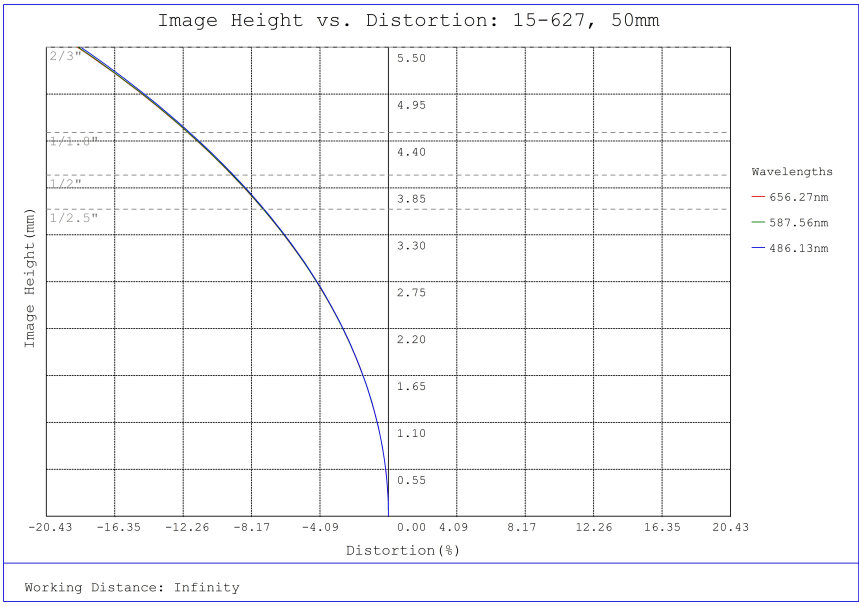
- Up to 2/3", C-Mount Lens
- Waterproof (Cw) Versions of C Series Fixed Focal Length Lenses
- Meets IEC Ingress Protection Ratings of IPX7 and IPX9K
- Designed to Eliminate the Need for a Protective Lens Cover

TECHSPEC® Cw Series Fixed Focal Length Lenses are waterproof versions of our [TECHSPEC® 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.

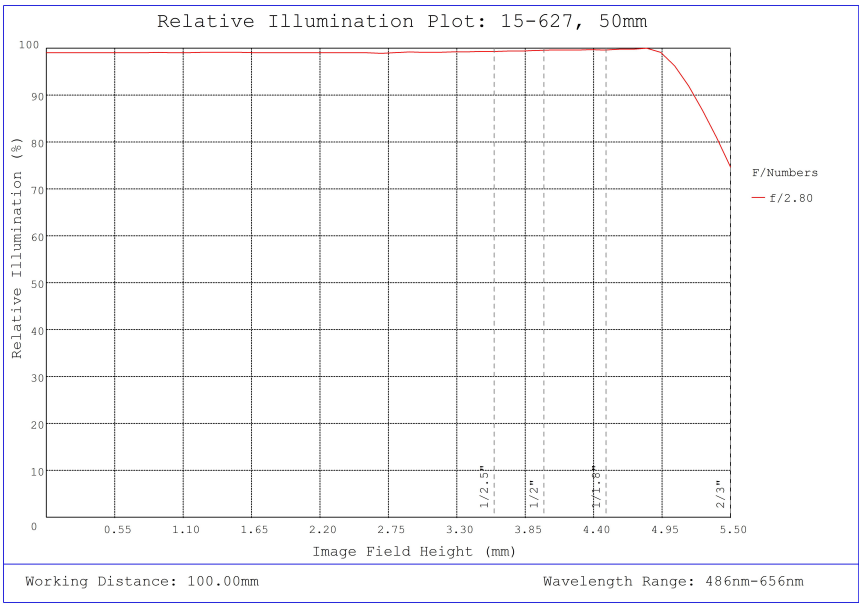
Edmund Optics has created a family of high performance optical designs (the C Series family) and developed 6 customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the C Series lenses providing the same optical performance in a variety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

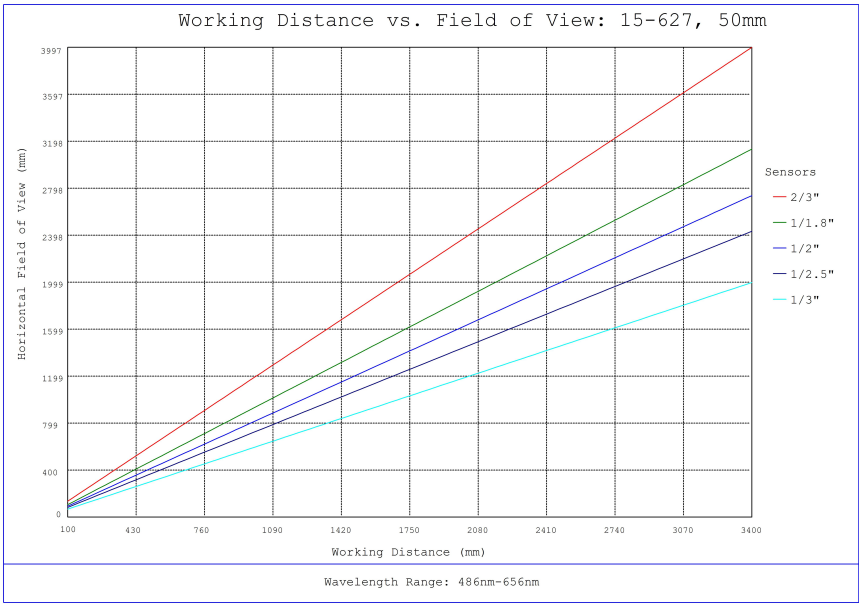
TECHNICAL INFORMATION



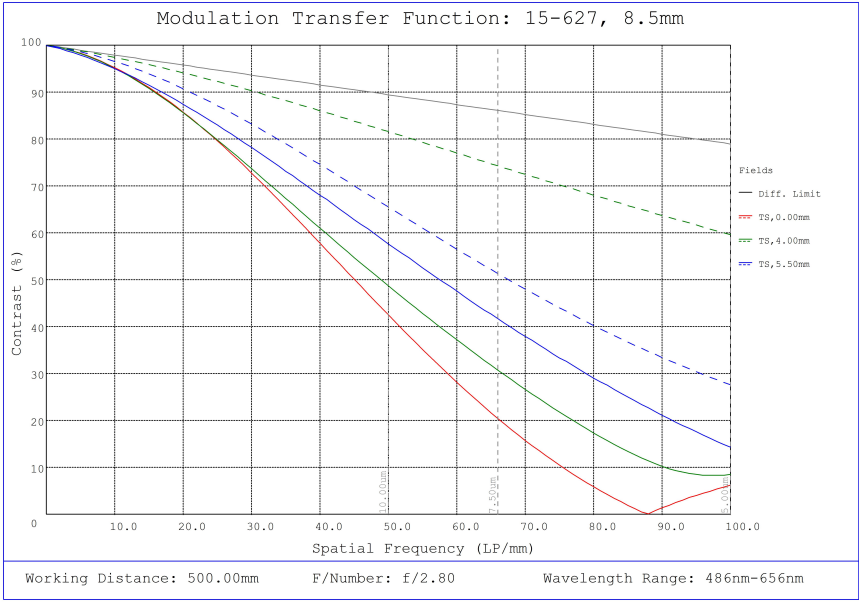
#15-627, 8.5mm, f/2.8 Cw Series Fixed Focal Length Lens, Distortion Plot



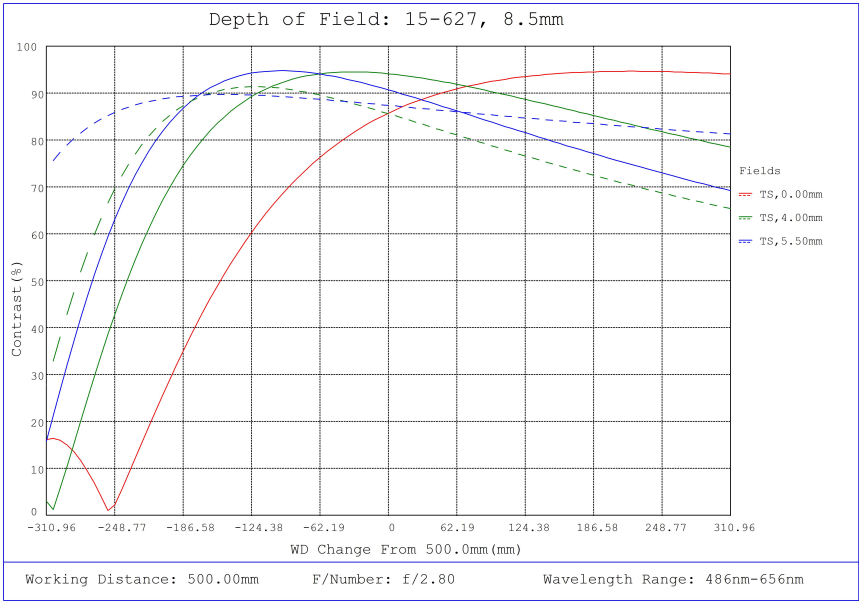
#15-627, 8.5mm, f/2.8 Cw Series Fixed Focal Length Lens, Relative Illumination Plot



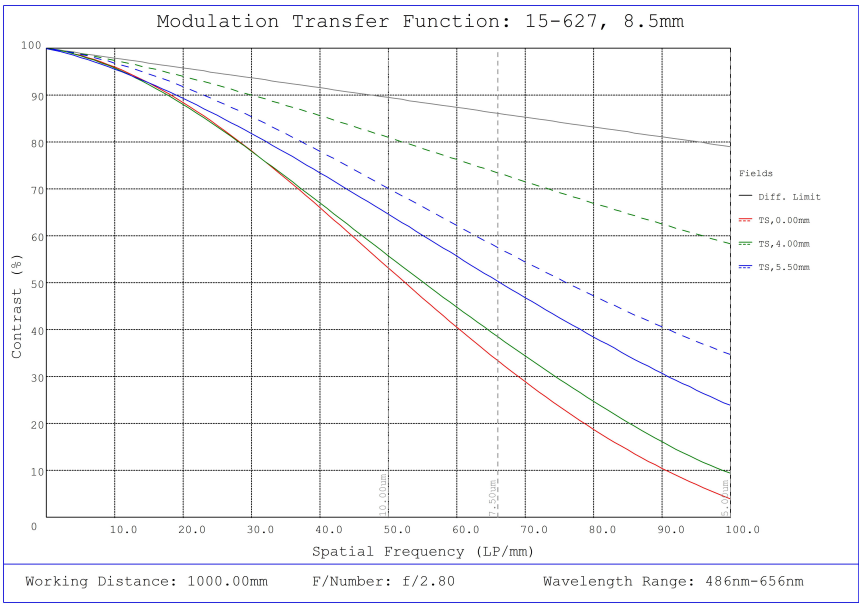
#15-627, 8.5mm, f/2.8 Cw Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



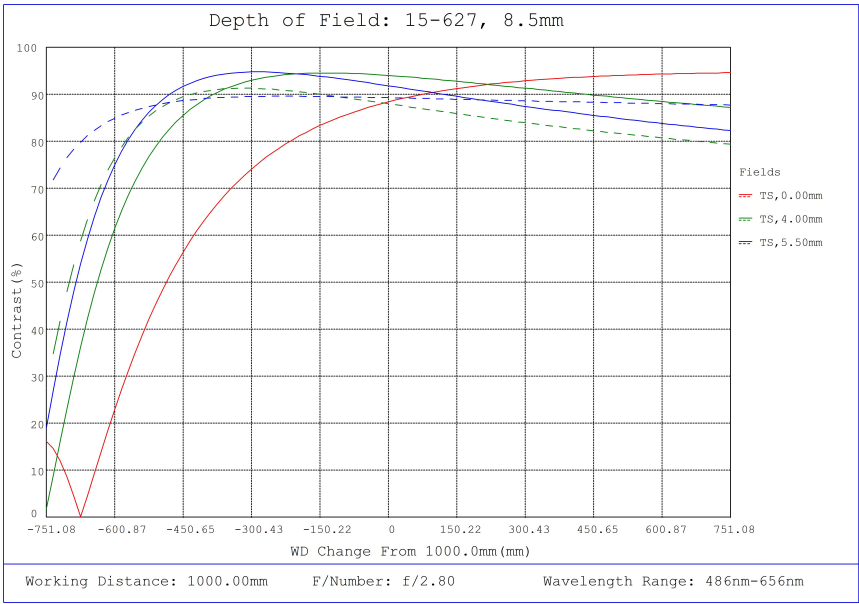
#15-627, 8.5mm, f/2.8 Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f2.8



#15-627, 8.5mm, f/2.8 Cw Series Fixed Focal Length Lens, Depth of Field Plot, 500mm Working Distance, f2.8



#15-627, 8.5mm, f/2.8 Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 1000mm Working Distance, f2.8



#15-627, 8.5mm, f/2.8 Cw Series Fixed Focal Length Lens, Depth of Field Plot, 1000mm Working Distance, f2.8