

**TECHSPEC® 8.5mm, f/5.6 Cw Series Fixed Focal Length Lens**



8.5mm Cw Series Fixed Focal Length Lens



Stock #15-629 **2 In Stock**

⊖ 1 ⊕ £255<sup>00</sup>

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ⓘ Prices shown are exclusive of VAT/local taxes

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**General**

Cw Series **Product Family:**

C-Mount 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):
0.0064	Numerical Aperture NA, Object Side:
6 (5)	Number of Elements (Groups):
8.50	Focal Length FL (mm):
100 - ∞	Working Distance (mm):
f/5.6	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 x 0.50 (Female)	Filter Thread:
C-Mount	Mount:

## Environmental & Durability Factors

IPX7 and IPX9K	Environmental Rating:
-20 to +60	Storage Temperature (°C):

Type of Ruggedization:  
Waterproof (IPX7 and IPX9K)

## Regulatory Compliance

Certificate of Conformance:

[View](#)

## Product Details

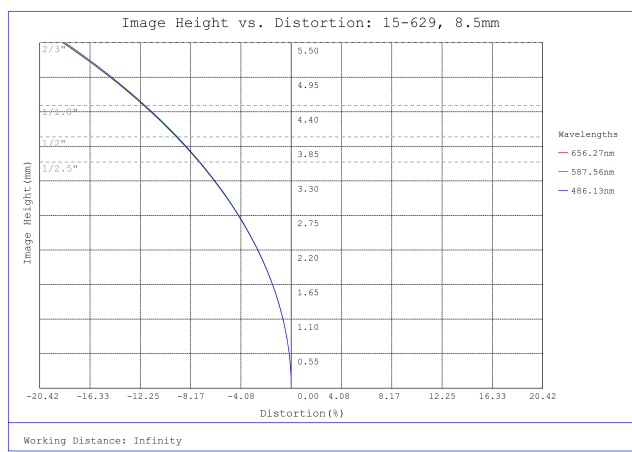
- Up to 2/3", C-Mount Lens
- Waterproof (Cw) Versions of C Series Fixed Focal Length Lenses
- Meets IEC Ingress Protection Ratings of IPX7 and IPX9K
- Designed to Eliminate the Need for a Protective Lens Cover

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.

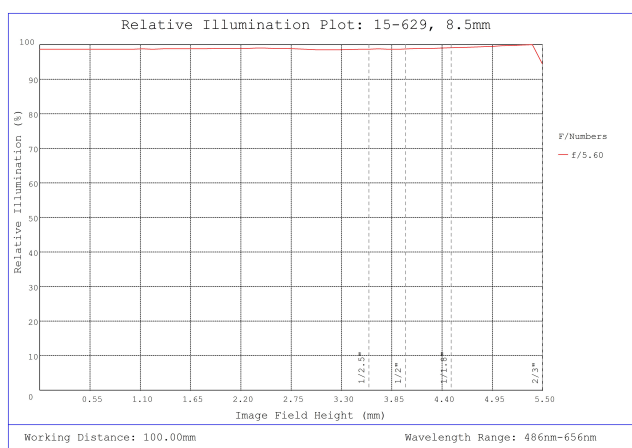
Edmund Optics has created a family of high performance optical designs (the C Series family) and developed 6 customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the C Series lenses providing the same optical performance in a variety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

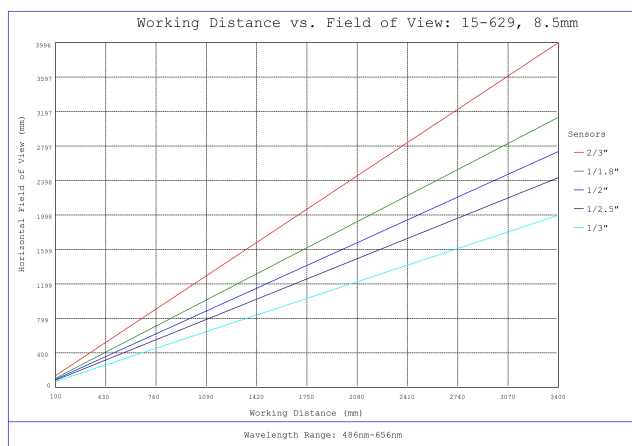
## Technical Information



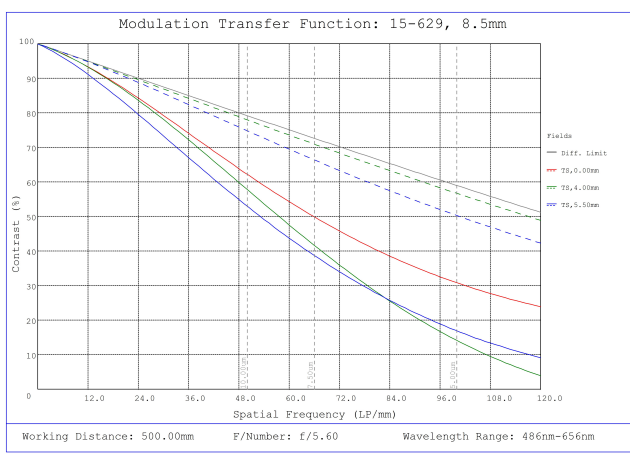
#15-629, 8.5mm, f/5.6 Cw Series Fixed Focal Length Lens, Distortion Plot



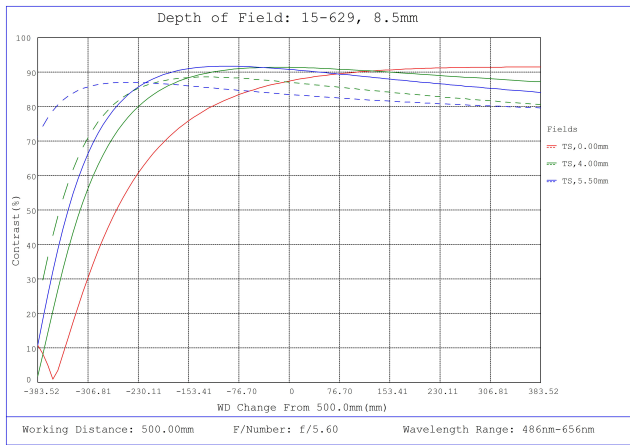
#15-629, 8.5mm, f/5.6 Cw Series Fixed Focal Length Lens, Relative Illumination Plot



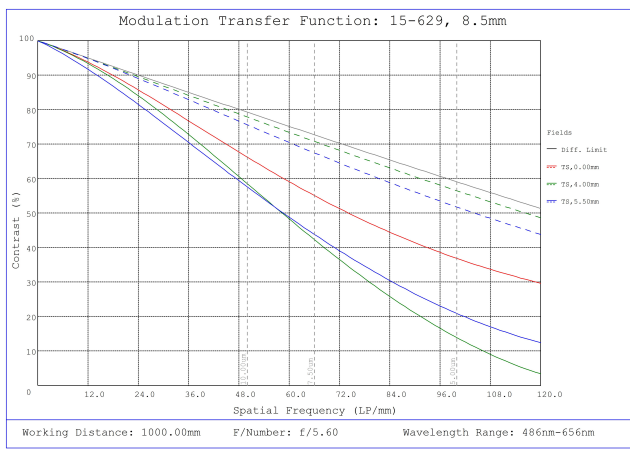
#15-629, 8.5mm, f/5.6 Cw Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



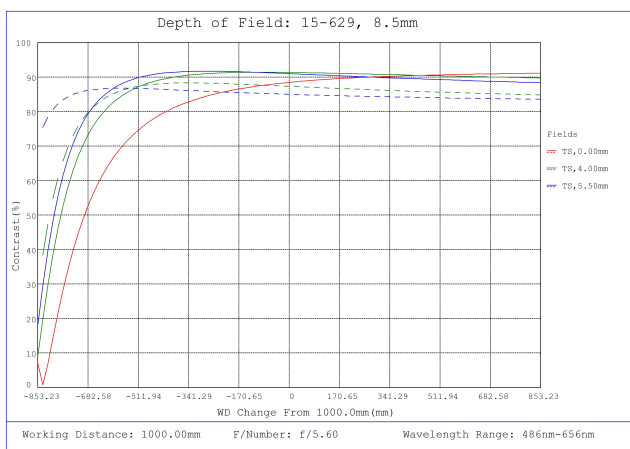
#15-629, 8.5mm, f/5.6 Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f5.6



#15-629, 8.5mm, f/5.6 Cw Series Fixed Focal Length Lens, Depth of Field Plot, 500mm Working Distance, f5.6



#15-629, 8.5mm, f/5.6 Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 1000mm Working Distance, f5.6



#15-629, 8.5mm, f/5.6 Cw Series Fixed Focal Length Lens, Depth of Field Plot, 1000mm Working Distance, f5.6