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

Product Downloads

| General                                     |         |
|---------------------------------------------|---------|
| Cw Series                                   | Series: |
| 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                                       |                                          |
| Horizontal: 60.65°<br>Vertical: 45.0°<br>Diagonal: 77.0° | Field of View at Max Sensor Format:      |
|                                                          |                                          |
|                                                          |                                          |
|                                                          |                                          |
| 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):                |
|                                                          |                                          |
| VIS                                                      | Lens Wavelength Range:                   |
|                                                          |                                          |
| Sensor                                                   |                                          |
| 2/3"                                                     | Maximum Sensor Format:                   |
|                                                          |                                          |
| 2.74                                                     | Pixel Size (µm):                         |
|                                                          |                                          |
| Threading & Mounting                                     |                                          |
| M30.5 x0.50 (Female)                                     | Filter Thread:                           |
|                                                          |                                          |
| C-Mount                                                  | Mount:                                   |
|                                                          |                                          |
| Environmental & Durability Factors                       |                                          |
| IPX7 and IPX9K                                           | Environmental Rating:                    |
|                                                          |                                          |
| -20 to +60                                               | Storage Temperature (°C):                |
|                                                          |                                          |
| Type of Ruggedization:                                   |                                          |

Regulatory Compliance

Certificate of Conformance:  
[View](#)

Product Details

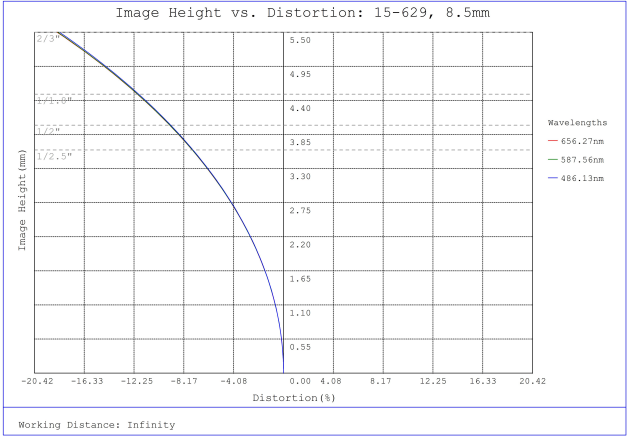
- Up to 2/3", C-Mount Lens
- Waterproof (Cw) Versions of C Series Fixed Focal Length Lenses
- Meets IEC Ingress Protection Ratings of IPX7 and IPX9K
- Designed to Eliminate the Need for a Protective Lens Cover

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.

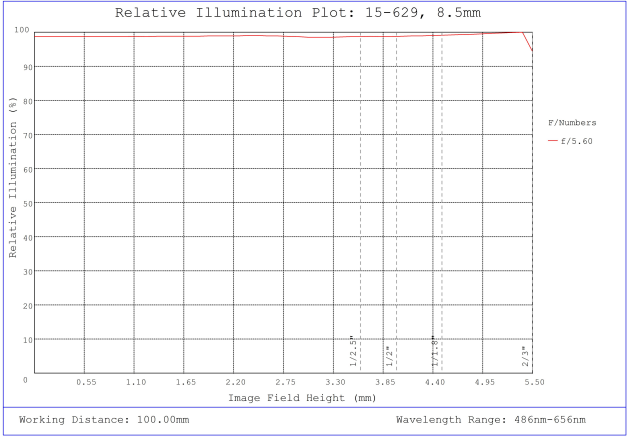
Edmund Optics has created a family of high performance optical designs (the C Series family) and developed 6 customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the C Series lenses providing the same optical performance in a variety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

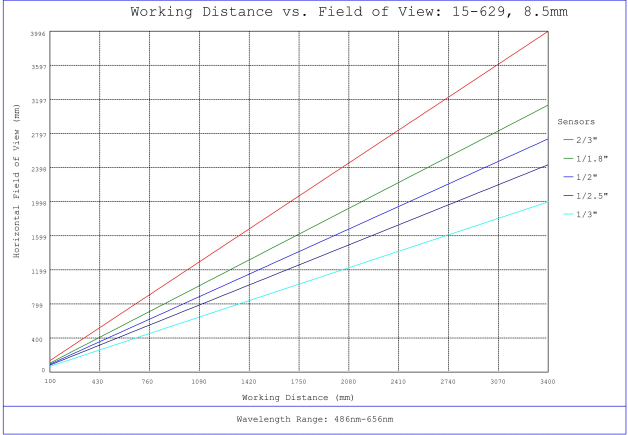
Technical Information



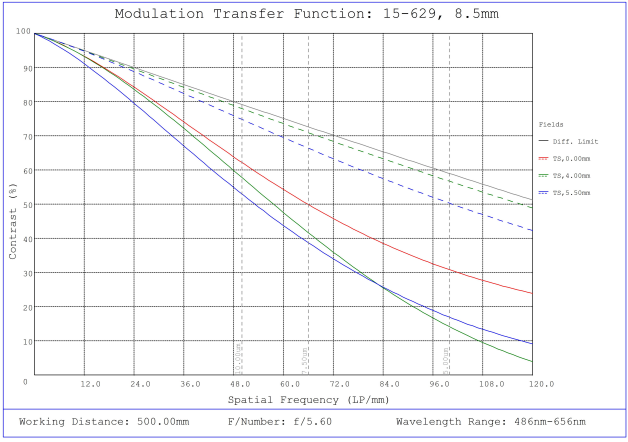
#15-629, 8.5mm, f/5.6 Cw Series Fixed Focal Length Lens, Distortion Plot



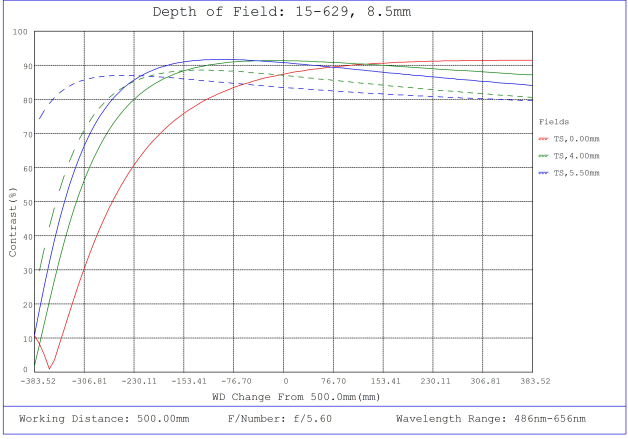
#15-629, 8.5mm, f/5.6 Cw Series Fixed Focal Length Lens, Relative Illumination Plot



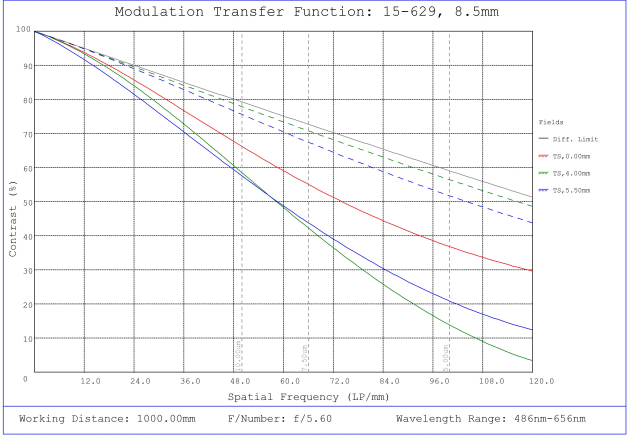
#15-629, 8.5mm, f/5.6 Cw Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



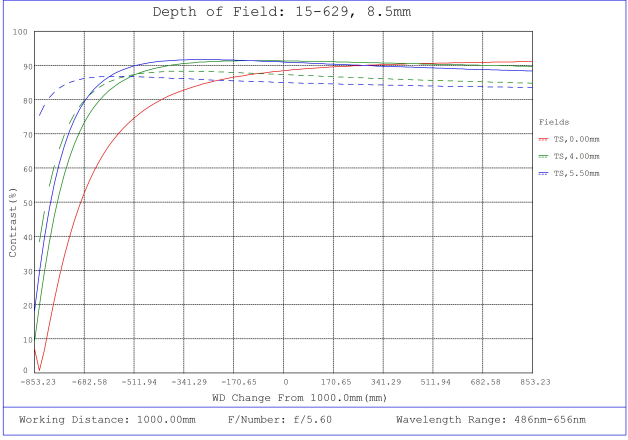
#15-629, 8.5mm, f/5.6 Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f5.6



#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