

TECHSPEC<sup>®</sup> 25mm, f/11 Cw Series Fixed Focal Length Lens



25mm Focal Length



Stock **#15-652** [CONTACT US](#)

-

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+

A\$346<sup>.00</sup>

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| Volume Pricing |                               |
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| Qty 1+         | A\$346.00 each                |
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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:                  |
| 41.40 | Length (mm):                  |
| 37.77 | Maximum Diameter (mm):        |
| 34.1  | Outer Diameter (mm):          |
| 4.2   | Maximum Rear Protrusion (mm): |
| 38.00 | Diameter (mm):                |

Optical Properties

|                                                         |                                               |
|---------------------------------------------------------|-----------------------------------------------|
| 38.3mm - 16.6°                                          | Horizontal Field of View @ Max Sensor Format: |
| Horizontal: 19.8°<br>Vertical: 14.9°<br>Diagonal: 24.6° | Field of View at Max Sensor Format:           |
| 16.6°                                                   | Horizontal Field of View, 2/3" Sensor:        |
| 13.6°                                                   | Horizontal Field of View, 1/1.8" Sensor:      |
| 12.1°                                                   | Horizontal Field of View, 1/2" Sensor:        |
| 11.0°                                                   | Horizontal Field of View, 1/2.5" Sensor:      |
| 9.1°                                                    | Horizontal Field of View, 1/3" Sensor:        |
| 6.8°                                                    | Horizontal Field of View, 1/4" Sensor:        |
| 11.00                                                   | Maximum Image Circle (mm):                    |
| 0.0087                                                  | Numerical Aperture NA, Object Side:           |
| 7 (6)                                                   | Number of Elements (Groups):                  |
| 25.00                                                   | Focal Length FL (mm):                         |
| 100 - ∞                                                 | Working Distance (mm):                        |
| f/11                                                    | Aperture (f/#):                               |
| 425 - 675nm BBAR                                        | Coating:                                      |
| 425 - 675nm BBAR                                        | Coating Specification:                        |
| 21.65                                                   | Entrance Pupil Position (mm):                 |
| 24.53                                                   | Object Space Principal Plane (mm):            |
| -12.44                                                  | Image Space Principal Plane (mm):             |
| 0.22                                                    | Maximum Distortion (%):                       |
| -15.69                                                  | 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

|  |                       |
|--|-----------------------|
|  | 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.

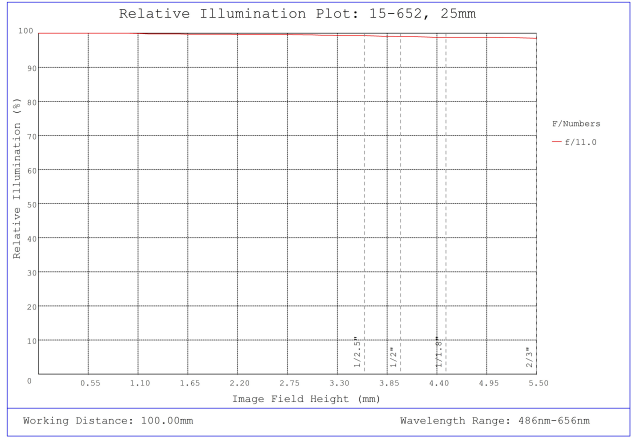
Edmund Optics has created a family of high performance optical designs (the C Series family) and developed 6 customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the C Series lenses providing the same optical performance in a variety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

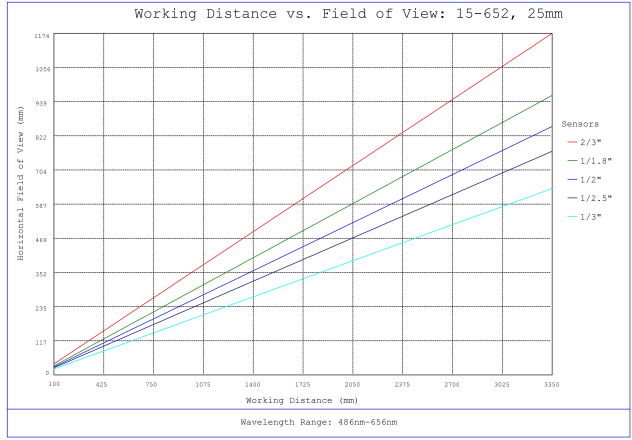
## Technical Information



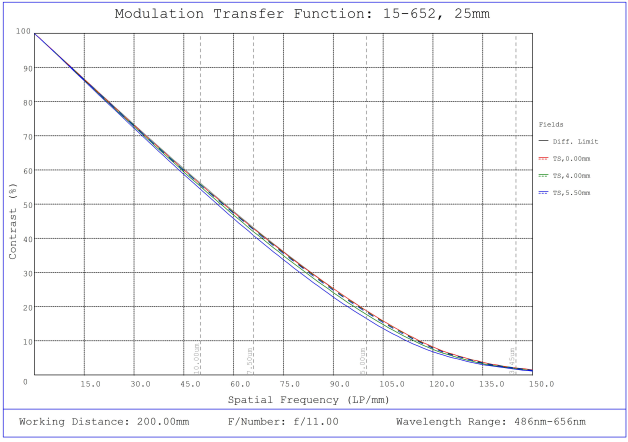
#15-652, 25mm, f/11 Cw Series Fixed Focal Length Lens, Distortion Plot



#15-652, 25mm, f/11 Cw Series Fixed Focal Length Lens, Relative Illumination Plot



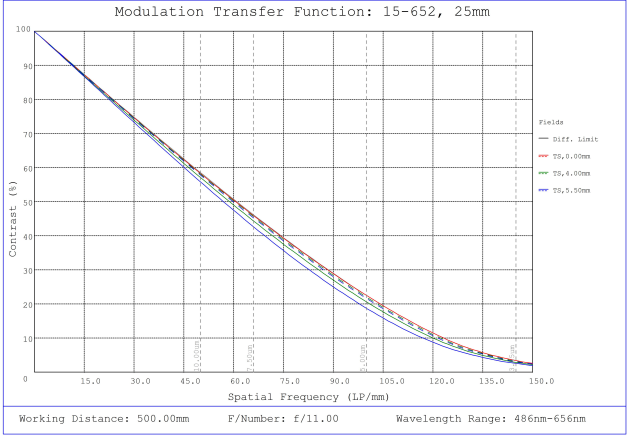
#15-652, 25mm, f/11 Cw Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



#15-652, 25mm, f/11 Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 200mm Working Distance, f11



#15-652, 25mm, f/11 Cw Series Fixed Focal Length Lens, Depth of Field Plot, 200mm Working Distance, f11



#15-652, 25mm, f/11 Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f11



#15-652, 25mm, f/11 Cw Series Fixed Focal Length Lens, Depth of Field Plot, 500mm Working Distance, f11