

TECHSPEC<sup>®</sup> 3.5mm f/11 Sealed Cw Series Fixed Focal Length Lens



3.5mm Focal Length



Stock **#15-612** 20+ In Stock

-

1

+

C\$987<sup>00</sup>

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| Volume Pricing |                               |
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| Qty 1+         | C\$987.00 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:                  |
|       |                               |
| 41.96 | Length (mm):                  |
|       |                               |
| 65.00 | Maximum Diameter (mm):        |
|       |                               |
| 65    | Outer Diameter (mm):          |
|       |                               |
| 2.7   | Maximum Rear Protrusion (mm): |
|       |                               |

Optical Properties

|                                                                                                     |                                          |
|-----------------------------------------------------------------------------------------------------|------------------------------------------|
| Field of View at Max Sensor Format:<br>Horizontal: 102.34°<br>Vertical: 82.28°<br>Diagonal: 116.98° |                                          |
| 102.34°                                                                                             | Horizontal Field of View, 1/1.8" Sensor: |
| 94.13°                                                                                              | Horizontal Field of View, 1/2" Sensor:   |
| 86.75°                                                                                              | Horizontal Field of View, 1/2.5" Sensor: |
| 74.44°                                                                                              | Horizontal Field of View, 1/3" Sensor:   |
| 9.00                                                                                                | Maximum Image Circle (mm):               |
| 0.013                                                                                               | Numerical Aperture NA, Object Side:      |
| 10 (9)                                                                                              | Number of Elements (Groups):             |
| 3.50                                                                                                | Focal Length FL (mm):                    |
| 75 - ∞                                                                                              | Working Distance (mm):                   |
| f/11                                                                                                | Aperture (f/#):                          |
| 425 - 675nm BBAR                                                                                    | Coating Specification:                   |
| 34.70                                                                                               | Entrance Pupil Position (mm):            |
| -22.37                                                                                              | Object Space Principal Plane (mm):       |
| 32.70                                                                                               | Image Space Principal Plane (mm):        |
| 21.12                                                                                               | Maximum Distortion (%):                  |
| -15.89                                                                                              | Exit Pupil Position (mm):                |
| VIS                                                                                                 | Lens Wavelength Range:                   |

Sensor

|        |                        |
|--------|------------------------|
| 1/1.8" | Maximum Sensor Format: |
| 2.74   | Pixel Size (µm):       |

Threading & Mounting

|                    |                |
|--------------------|----------------|
| M62 x0.75 (Female) | Filter Thread: |
| C-Mount            | Mount:         |

Environmental & Durability Factors

|                   |                        |
|-------------------|------------------------|
| IPX7              | Environmental Rating:  |
| Waterproof (IPX7) | Type of Ruggedization: |

Regulatory Compliance

|                      |                             |
|----------------------|-----------------------------|
| <a href="#">View</a> | Certificate of Conformance: |
|----------------------|-----------------------------|

Product Details

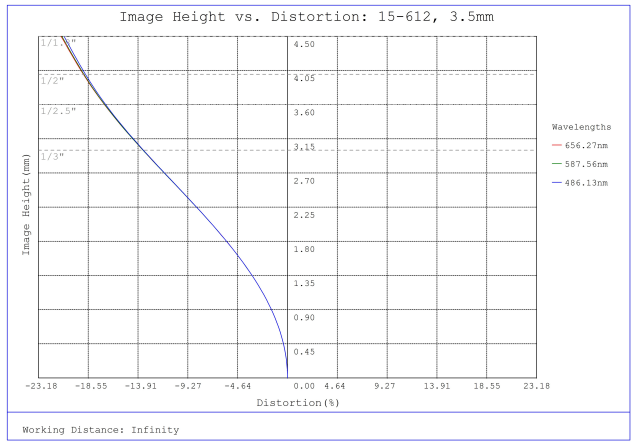
- Up to 2/3", C-Mount Lens
- Waterproof (Cw) Versions of C Series Fixed Focal Length Lenses
- Meets IEC Ingress Protection Ratings of IPX7 and IPX9K
- Designed to Eliminate the Need for a Protective Lens Cover

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

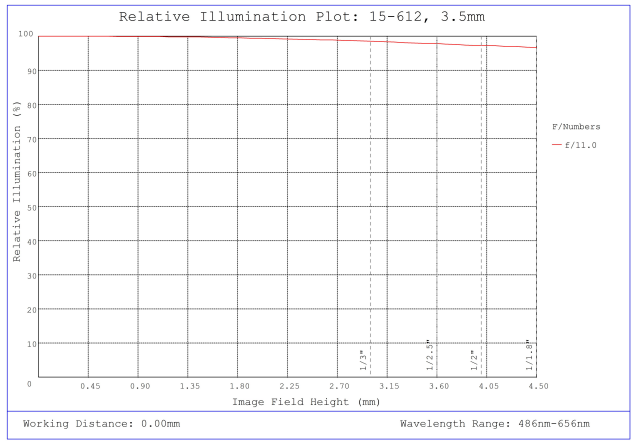
Edmund Optics has created a family of high performance optical designs (the C Series family) and developed 6 customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the C Series lenses providing the same optical performance in a variety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

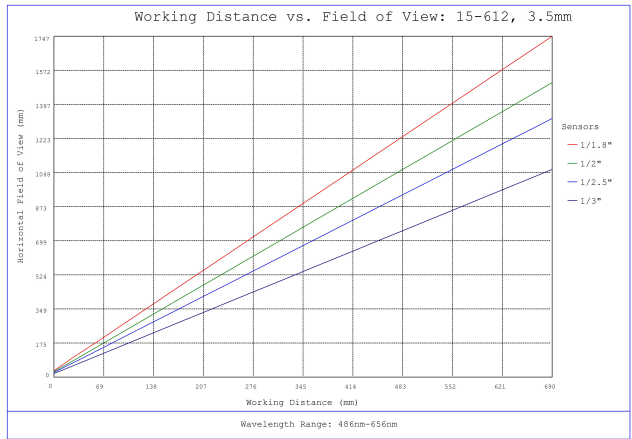
Technical Information



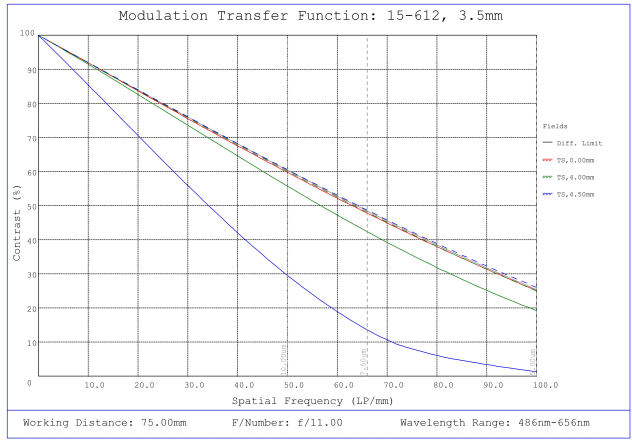
#15-612, 3.5mm f/11 Sealed Cw Series Fixed Focal Length Lens, Distortion Plot



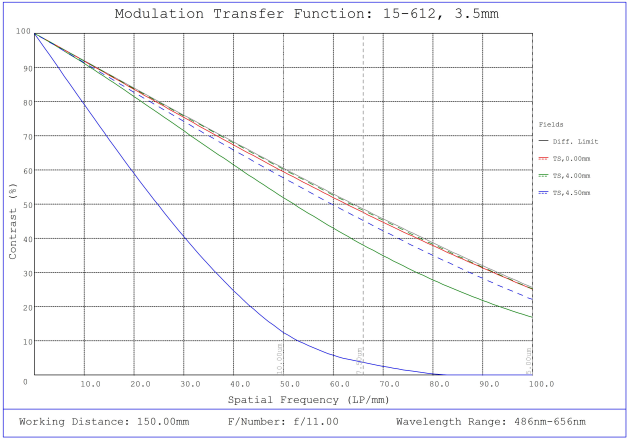
#15-612, 3.5mm f/11 Sealed Cw Series Fixed Focal Length Lens, Relative Illumination Plot



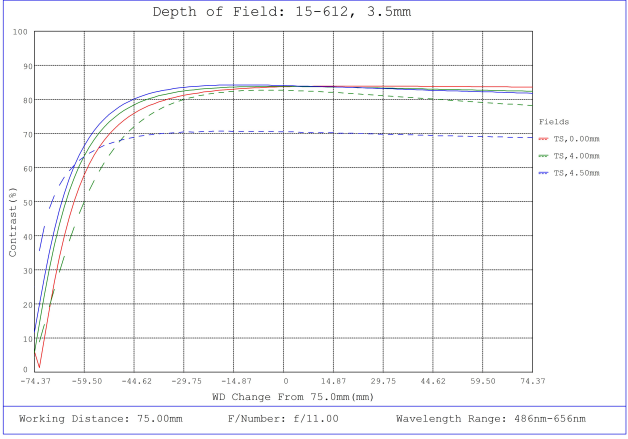
#15-612, 3.5mm f/11 Sealed Cw Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



#15-612, 3.5mm f/11 Sealed Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 75mm Working Distance, f11



#15-612, 3.5mm f/11 Sealed Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 150mm Working Distance, f11



#15-612, 3.5mm f/11 Sealed Cw Series Fixed Focal Length Lens, Depth of Field Plot, 75mm Working Distance, f11