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**TECHSPEC® 3.5mm f/5.6 Sealed Cw Series Fixed Focal Length Lens**



3.5mm Focal Length



Stock #15-610 **20+ In Stock**

- 1 + €493<sup>00</sup>

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| Qty 1+         | €493,00 each                  |
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Product Downloads

**General**

Cw Series **Product Family:**

C-Mount compatible with O-ring 25mm ID x2mm **Note:**

Fixed Focal Length Lens **Type:**

## Physical & Mechanical Properties

|       |                                      |
|-------|--------------------------------------|
| Fixed | <b>Iris Option:</b>                  |
| 41.96 | <b>Length (mm):</b>                  |
| 65.00 | <b>Maximum Diameter (mm):</b>        |
| 65    | <b>Outer Diameter (mm):</b>          |
| 2.7   | <b>Maximum Rear Protrusion (mm):</b> |

## Optical Properties

|  |   |
|--|---|
| <b>Field of View at Max Sensor Format:</b><br>Horizontal: 102.34°<br>Vertical: 82.28°<br>Diagonal: 116.98° |   |
| 102.34°  | <b>Horizontal Field of View, 1/1.8" Sensor:</b> |
| 94.13°   | <b>Horizontal Field of View, 1/2" Sensor:</b>   |
| 86.75°   | <b>Horizontal Field of View, 1/2.5" Sensor:</b> |
| 74.44°   | <b>Horizontal Field of View, 1/3" Sensor:</b>   |
| 9.00   | <b>Maximum Image Circle (mm):</b>               |
| 0.026  | <b>Numerical Aperture NA, Object Side:</b>      |
| 10 (9)   | <b>Number of Elements (Groups):</b>             |
| 3.50   | <b>Focal Length FL (mm):</b>                    |
| 75 - ∞   | <b>Working Distance (mm):</b>                   |
| f/5.6  | <b>Aperture (f/#):</b>                          |
| 425 - 675nm BBAR   | <b>Coating Specification:</b>                   |
| 34.70  | <b>Entrance Pupil Position (mm):</b>            |
| -22.37   | <b>Object Space Principal Plane (mm):</b>       |
| 32.70  | <b>Image Space Principal Plane (mm):</b>        |
| 21.12  | <b>Maximum Distortion (%):</b>                  |
| -15.89   | <b>Exit Pupil Position (mm):</b>                |
| VIS  | <b>Lens Wavelength Range:</b>                   |

## Sensor

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

## Threading & Mounting

|                     |                       |
|---------------------|-----------------------|
| M62 x 0.75 (Female) | <b>Filter Thread:</b> |
| C-Mount             | <b>Mount:</b>         |

## Environmental & Durability Factors

|                   |                               |
|-------------------|-------------------------------|
| IPX7              | <b>Environmental Rating:</b>  |
| Waterproof (IPX7) | <b>Type of Ruggedization:</b> |

## Regulatory Compliance

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

## Product Details

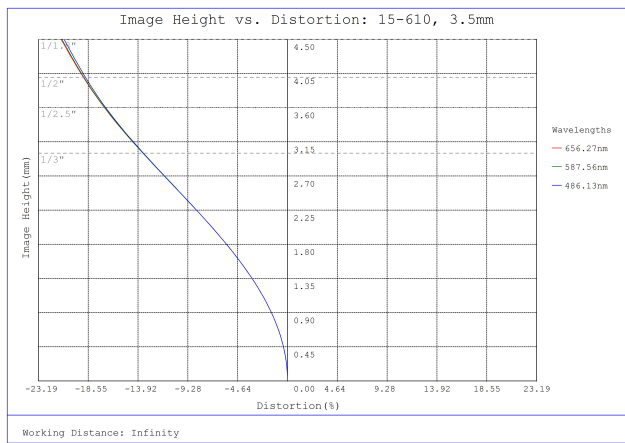
- Up to 2/3", C-Mount Lens
- Waterproof (Cw) Versions of C Series Fixed Focal Length Lenses
- Meets IEC Ingress Protection Ratings of IPX7 and IPX9K
- Designed to Eliminate the Need for a Protective Lens Cover

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.

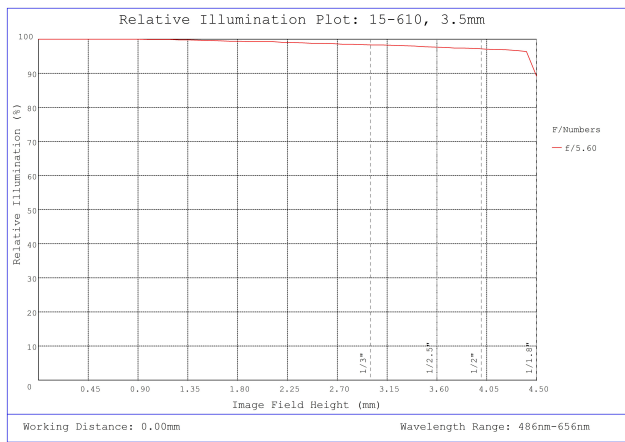
Edmund Optics has created a family of high performance optical designs (the C Series family) and developed 6 customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the C Series lenses providing the same optical performance in a variety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

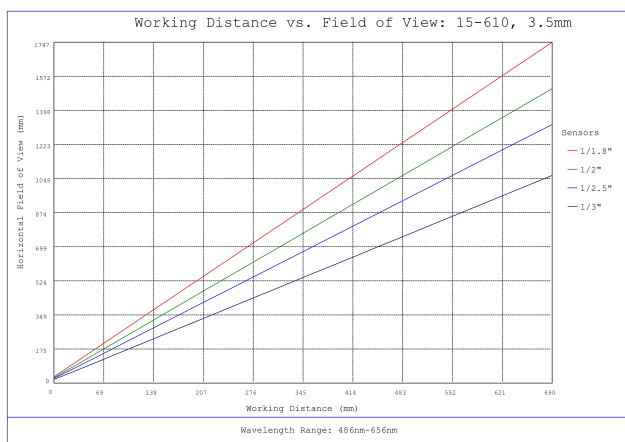
## Technical Information



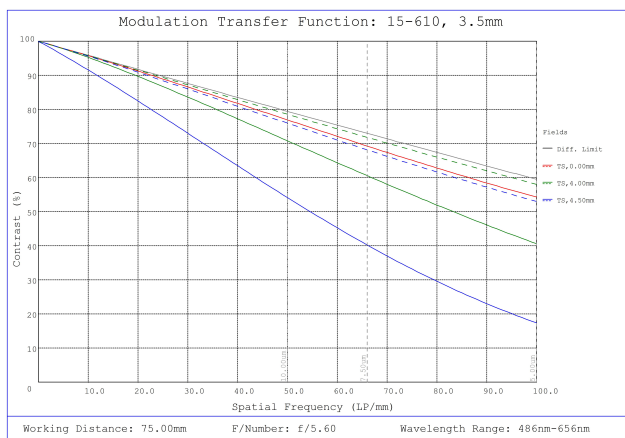
#15-610, 3.5mm f/5.6 Sealed Cw Series Fixed Focal Length Lens, Distortion Plot



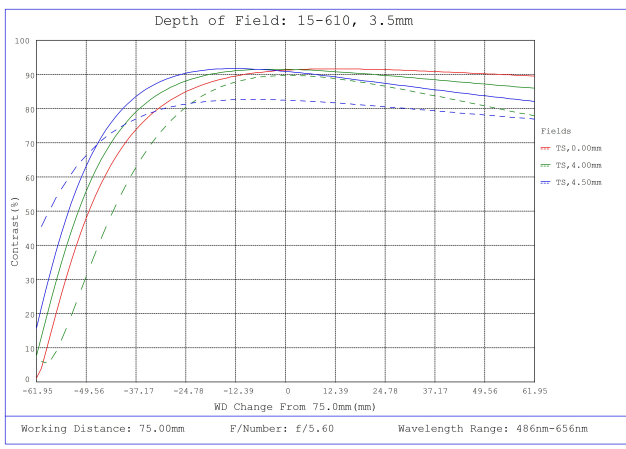
#15-610, 3.5mm f/5.6 Sealed Cw Series Fixed Focal Length Lens, Relative Illumination Plot



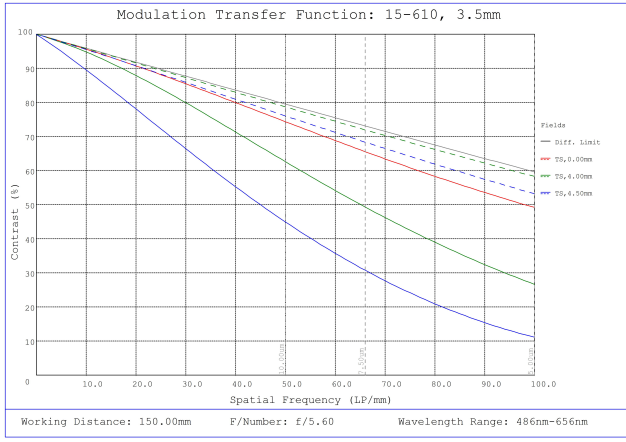
#15-610, 3.5mm f/5.6 Sealed Cw Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



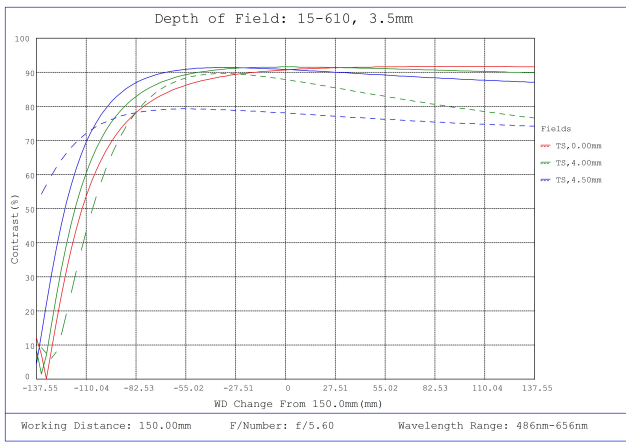
#15-610, 3.5mm f/5.6 Sealed Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 75mm Working Distance, f5.6



#15-610, 3.5mm f/5.6 Sealed Cw Series Fixed Focal Length Lens, Depth of Field Plot, 75mm Working Distance, f5.6



#15-610, 3.5mm f/5.6 Sealed Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 150mm Working Distance, f5.6



#15-610, 3.5mm f/5.6 Sealed Cw Series Fixed Focal Length Lens, Depth of Field Plot, 150mm Working Distance, f5.6