

TECHSPEC® 35mm, f/4 Cw Series Fixed Focal Length Lens



35mm Focal Length



Stock #15-657 1 In Stock

-

1

+

€331<sup>.00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | €331,00 each                  |
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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:                  |
| 59.68 | Length (mm):                  |
| 41.82 | Maximum Diameter (mm):        |
| 42    | Outer Diameter (mm):          |
| 1.82  | Maximum Rear Protrusion (mm): |
| 40.50 | Diameter (mm):                |

Optical Properties

|                                                                                                |                                          |
|------------------------------------------------------------------------------------------------|------------------------------------------|
| Horizontal Field of View @ Max Sensor Format:<br>22.1mm - 14.3°                                |                                          |
| Field of View at Max Sensor Format:<br>Horizontal: 14.3°<br>Vertical: 10.8°<br>Diagonal: 17.8° |                                          |
| 14.3°                                                                                          | Horizontal Field of View, 2/3" Sensor:   |
| 11.7°                                                                                          | Horizontal Field of View, 1/1.8" Sensor: |
| 10.4°                                                                                          | Horizontal Field of View, 1/2" Sensor:   |
| 9.4°                                                                                           | Horizontal Field of View, 1/2.5" Sensor: |
| 7.8°                                                                                           | Horizontal Field of View, 1/3" Sensor:   |
| 5.9°                                                                                           | Horizontal Field of View, 1/4" Sensor:   |
| 11.00                                                                                          | Maximum Image Circle (mm):               |
| 0.0321                                                                                         | Numerical Aperture NA, Object Side:      |
| 7 (6)                                                                                          | Number of Elements (Groups):             |
| 35.00                                                                                          | Focal Length FL (mm):                    |
| 100 - ∞                                                                                        | Working Distance (mm):                   |
| f/4                                                                                            | Aperture (f/#):                          |
| 425 - 675nm BBAR                                                                               | Coating:                                 |
| 425 - 675nm BBAR                                                                               | Coating Specification:                   |
| 24.65                                                                                          | Entrance Pupil Position (mm):            |
| 25.81                                                                                          | Object Space Principal Plane (mm):       |
| -20.67                                                                                         | Image Space Principal Plane (mm):        |
| 0.17                                                                                           | Maximum Distortion (%):                  |
| -21.87                                                                                         | Exit Pupil Position (mm):                |
| VIS                                                                                            | Lens Wavelength Range:                   |

Sensor

|      |                        |
|------|------------------------|
| 2/3" | Maximum Sensor Format: |
| 2.74 | Pixel Size (µm):       |

Threading & Mounting

|                      |                |
|----------------------|----------------|
| M34.0 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: |  |
| <a href="#">View</a>        |  |

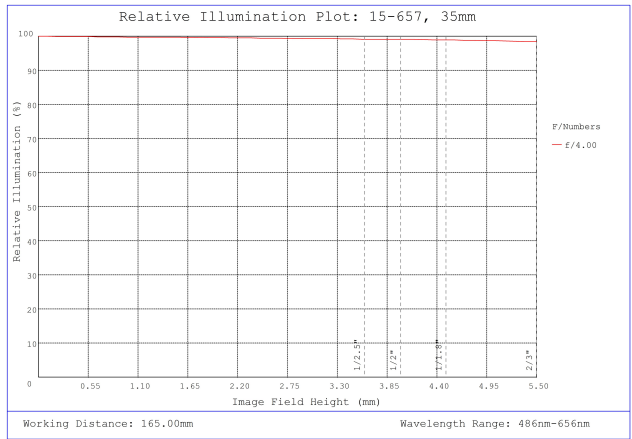
Product Details

- 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.

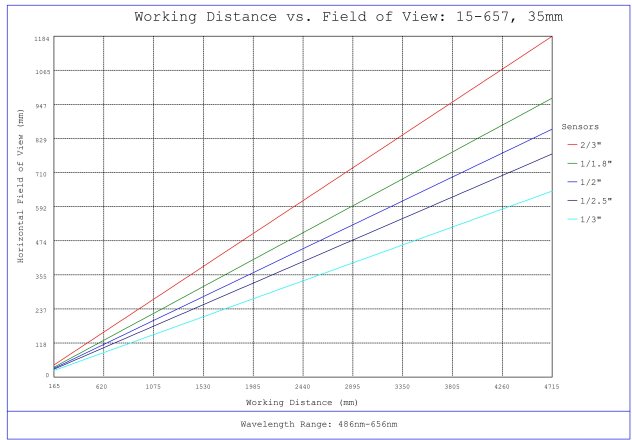
Technical Information



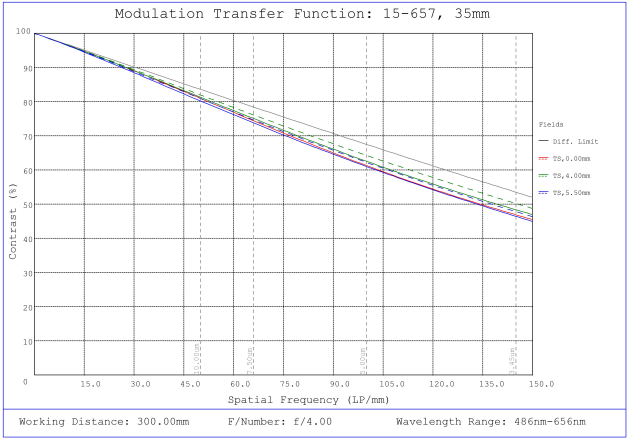
#15-657, 35mm, f/4 Cw Series Fixed Focal Length Lens, Distortion Plot



#15-657, 35mm, f/4 Cw Series Fixed Focal Length Lens, Relative Illumination Plot



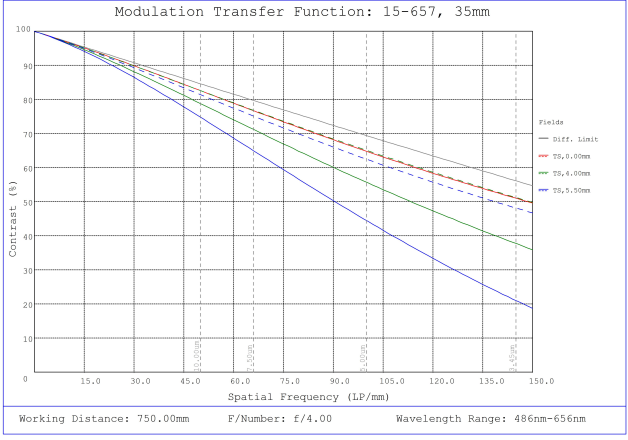
#15-657, 35mm, f/4 Cw Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



#15-657, 35mm, f/4 Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 300mm Working Distance, f4



#15-657, 35mm, f/4 Cw Series Fixed Focal Length Lens, Depth of Field Plot, 300mm Working Distance, f4



#15-657, 35mm, f/4 Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 750mm Working Distance, f4



#15-657, 35mm, f/4 Cw Series Fixed Focal Length Lens, Depth of Field Plot, 750mm Working Distance, f4