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TECHSPEC 12mm, f/11 Cw Series Fixed Focal Length Lens



12mm Focal Length





Stock **#15-636 2 In Stock**

- 1 (+) A\$346^{...}

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SPECIFICATIONS

General

Series:

Cw Series

Note:

Coating Specification: 425 - 675nm BBAR Entrance Pupil Position (mm):

Object Space Principal Plane (mm): 23.93

1.98 Maximum Distortion (%): 2.11 Exit Pupil Position (mm):

-11.3801 Lens Wavelength Range: **VIS**

Sensor **Maximum Sensor Format:** 2/3"

Threading & Mounting

M30.5 x 0.50 (Female) Mount: C-Mount

Environmental & Durability Factors

Environmental Rating: IPX7 and IPX9K Storage Temperature (°C):

-20 to +60

17.6208

2.74

Image Space Principal Plane (mm):

Pixel Size (µm):

Filter Thread:

Regulatory Compliance

View

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 TECHSPEO® 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.

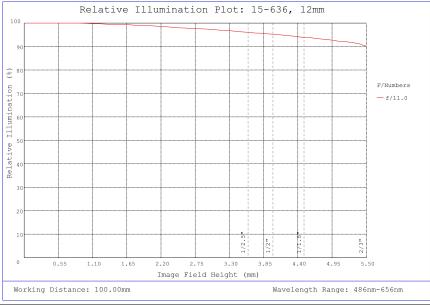
Edmund Optics has created a family of high performance optical designs (the C Series family) and developed 6 customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the C Series lenses providing the same optical performance in a variety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

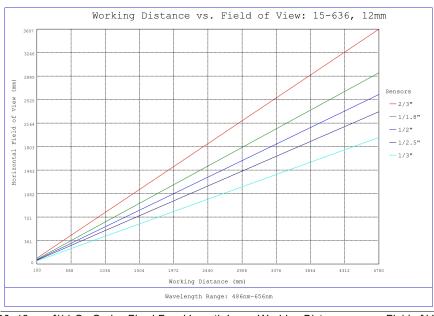
TECHNICAL INFORMATION



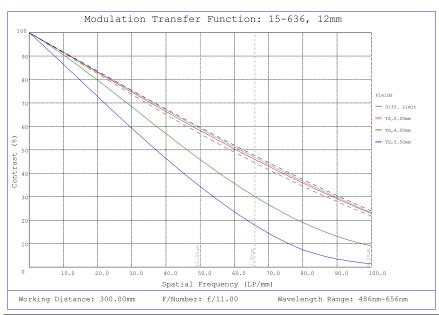
#15-636, 12mm, f/11 Cw Series Fixed Focal Length Lens, Distortion Plot



#15-636, 12mm, f/11 Cw Series Fixed Focal Length Lens, Relative Illumination Plot



#15-636, 12mm, f/11 Cw Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



#15-636, 12mm, f/11 Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 300mm Working Distance, f11



#15-636, 12mm, f/11 Cw Series Fixed Focal Length Lens, Depth of Field Plot, 300mm Working Distance, f11



#15-636, 12mm, f/11 Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 750mm Working Distance, f11



#15-636, 12mm, f/11 Cw Series Fixed Focal Length Lens, Depth of Field Plot, 750mm Working Distance, f11