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TECHSPEC® 50mm, f/2.8 Sealed Cw Series Fixed Focal Length Lens



50mm Focal Length



Stock #15-663 **16 In Stock**

- 1 + MRP ₹31,405

Price inclusive of all taxes

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Volume Pricing	
Qty 1+	₹31,405 each
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General

Cw Series **Product Family:**

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

Fixed Focal Length Lens **Type:**

Physical & Mechanical Properties

Fixed	Iris Option:
51.80	Length (mm):
41.00	Maximum Diameter (mm):
41	Outer Diameter (mm):
2.1	Maximum Rear Protrusion (mm):

Optical Properties

Horizontal: 10.0° Vertical: 7.54° Diagonal: 12.5°	Field of View at Max Sensor Format:
10.0°	Horizontal Field of View, 2/3" Sensor:
8.22°	Horizontal Field of View, 1/1.8" Sensor:
7.31°	Horizontal Field of View, 1/2" Sensor:
6.58°	Horizontal Field of View, 1/2.5" Sensor:
5.49°	Horizontal Field of View, 1/3" Sensor:
11.00	Maximum Image Circle (mm):
0.030	Numerical Aperture NA, Object Side:
6 (5)	Number of Elements (Groups):
50.00	Focal Length FL (mm):
100 - ∞	Working Distance (mm):
f/2.8	Aperture (f/#):
425 - 675nm BBAR	Coating Specification:
41.82	Entrance Pupil Position (mm):
-11.85	Object Space Principal Plane (mm):
-38.15	Image Space Principal Plane (mm):
0.257	Maximum Distortion (%):
-40.88	Exit Pupil Position (mm):
VIS	Lens Wavelength Range:

Sensor

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

Threading & Mounting

M36 x0.50 (Female)	Filter Thread:
C-Mount	Mount:

Environmental & Durability Factors

IPX7 and IPX9K	Environmental Rating:
-20 to +60	Storage Temperature (°C):
Waterproof (IPX7 and IPX9K)	Type of Ruggedization:

Regulatory Compliance

Certificate of Conformance:

[View](#)

Country of Origin:

China

Imported By:

Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
Phone: +91-80-6845 0000

Product Details

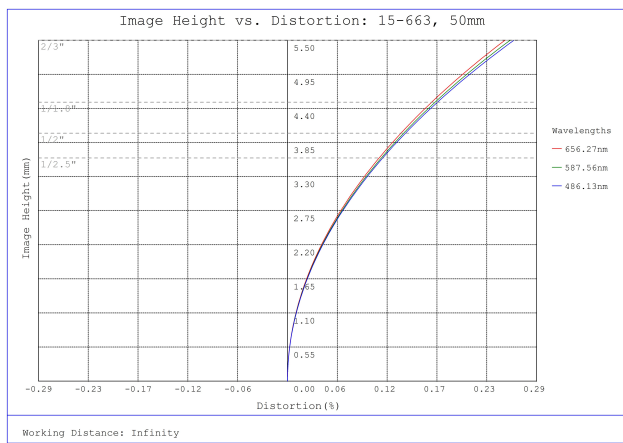
- Up to 2/3", C-Mount Lens
- Waterproof (Cw) Versions of C Series Fixed Focal Length Lenses
- Meets IEC Ingress Protection Ratings of IPX7 and IPX9K
- Designed to Eliminate the Need for a Protective Lens Cover

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.

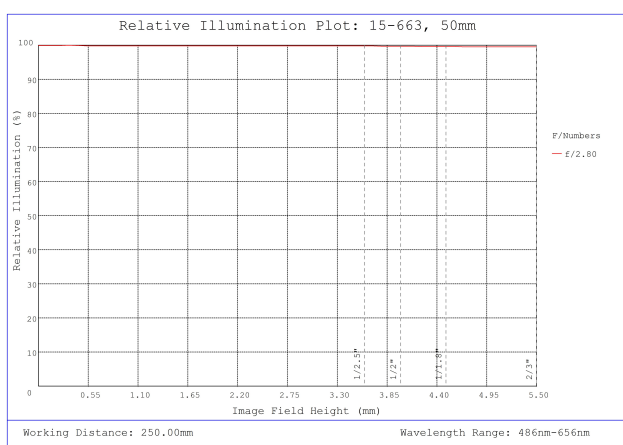
Edmund Optics has created a family of high performance optical designs (the C Series family) and developed 6 customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the C Series lenses providing the same optical performance in a variety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

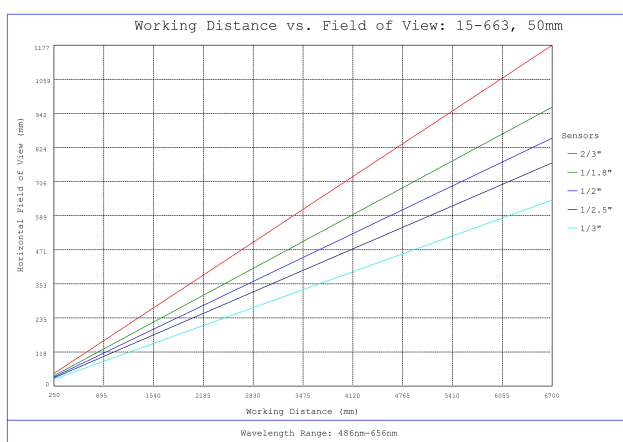
Technical Information



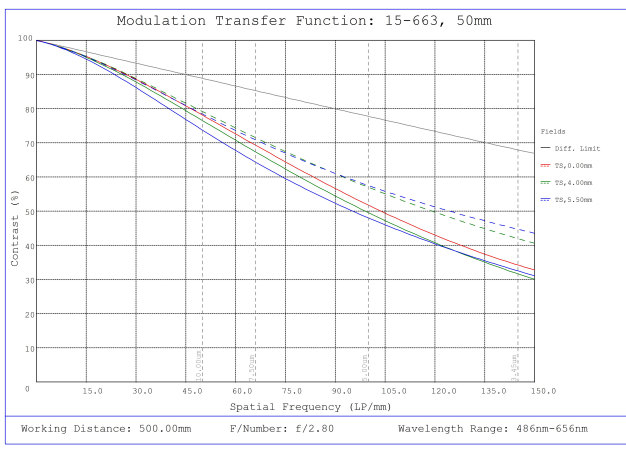
#15-663, 50mm, f/2.8 Sealed Cw Series Fixed Focal Length Lens, Distortion Plot



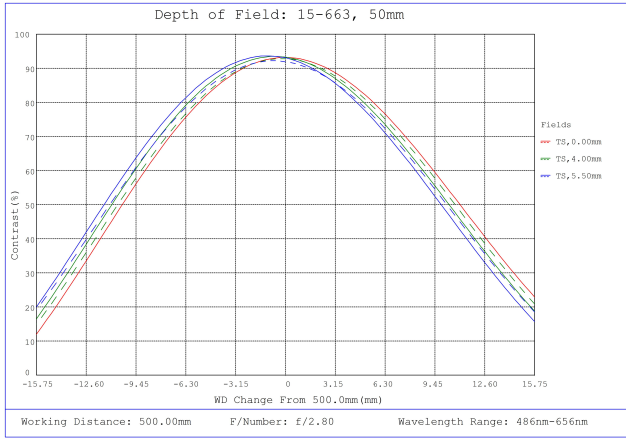
#15-663, 50mm, f/2.8 Sealed Cw Series Fixed Focal Length Lens, Relative Illumination Plot



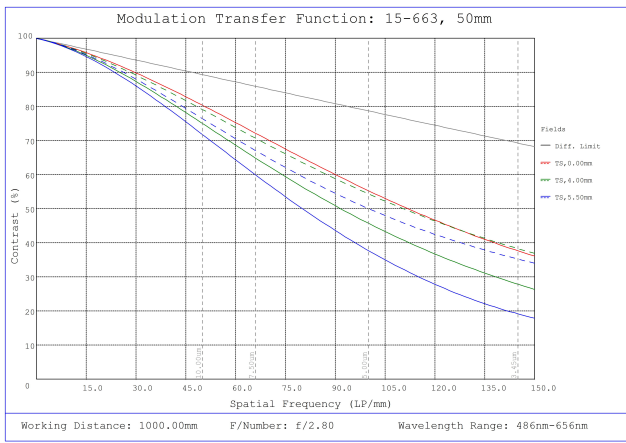
#15-663, 50mm, f/2.8 Sealed Cw Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



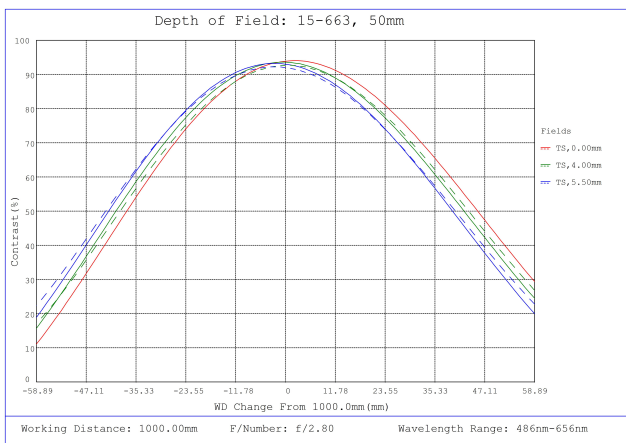
#15-663, 50mm, f/2.8 Sealed Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f2.8



#15-663, 50mm, f/2.8 Sealed Cw Series Fixed Focal Length Lens, Depth of Field Plot, 500mm Working Distance, f2.8



#15-663, 50mm, f/2.8 Sealed Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 1000mm Working Distance, f2.8



#15-663, 50mm, f/2.8 Sealed Cw Series Fixed Focal Length Lens, Depth of Field Plot, 1000mm Working Distance, f2.8