

TECHSPEC®

35mm, f/1.8 Cw Series Fixed Focal Length Lens



35mm Focal Length



Stock #15-655 14 In Stock

-

1

+

C\$665⁰⁰

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General

Series:	
Cw Series	
Note:	
C-Mount compatible with O-ring 25mm ID x2mm	
Type:	
Fixed Focal Length Lens	

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: 22.1mm - 14.3°	
Field of View at Max Sensor Format: Horizontal: 14.3° Vertical: 10.8° 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):
0.0711	Numerical Aperture NA, Object Side:
7 (6)	Number of Elements (Groups):
35.00	Focal Length FL (mm):
100 - ∞	Working Distance (mm):
f/1.8	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)	

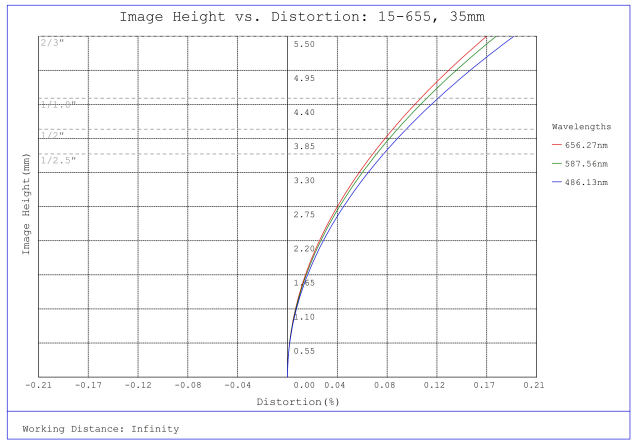
Regulatory Compliance

	Certificate of Conformance:
View	

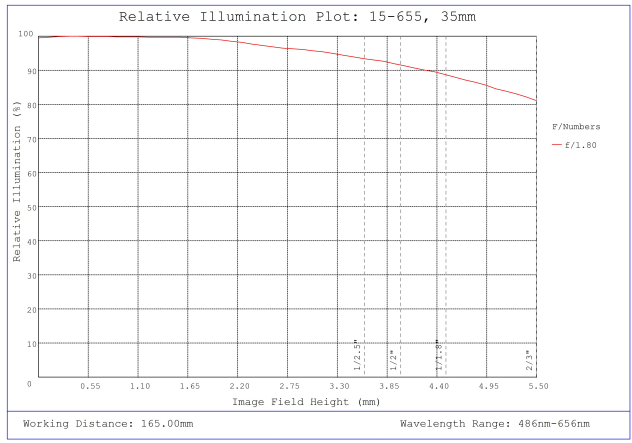
Product Details

- 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.

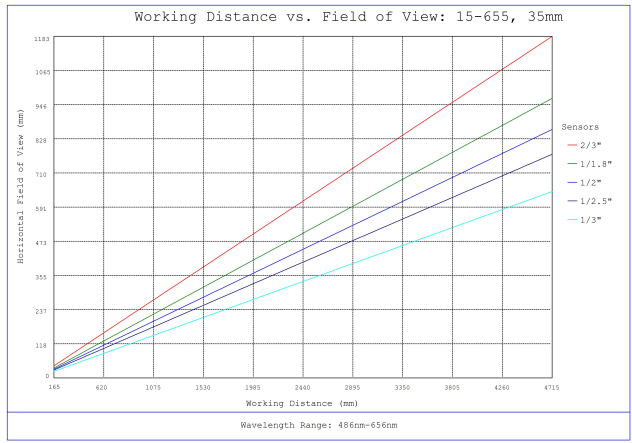
Technical Information



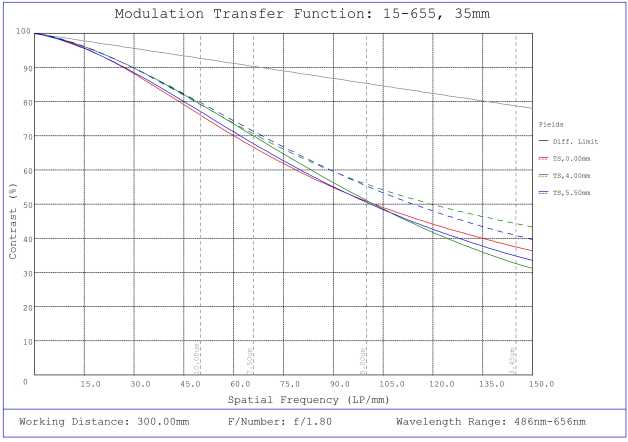
#15-655, 35mm, f/1.8 Cw Series Fixed Focal Length Lens, Distortion Plot



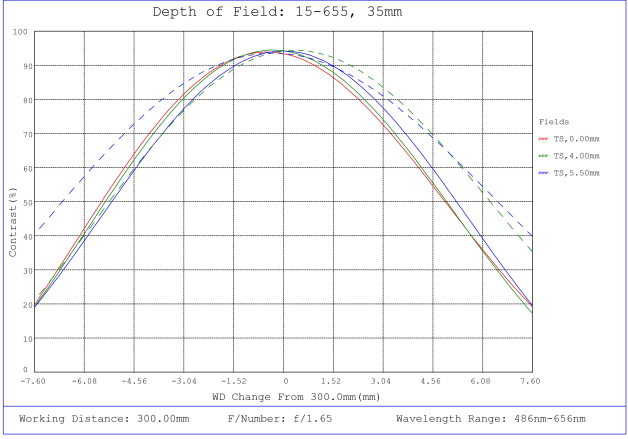
#15-655, 35mm, f/1.8 Cw Series Fixed Focal Length Lens, Relative Illumination Plot



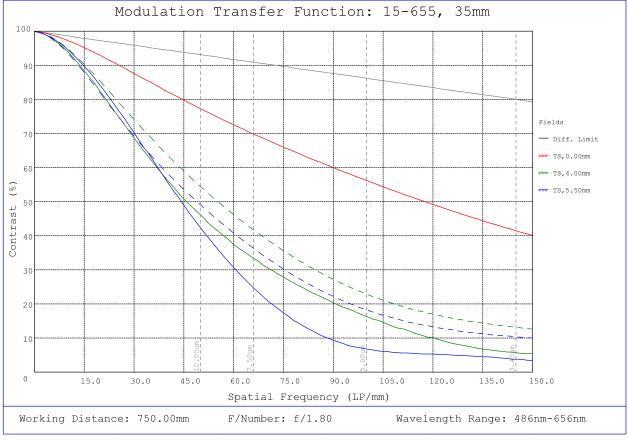
#15-655, 35mm, f/1.8 Cw Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



#15-655, 35mm, f/1.8 Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 300mm Working Distance, f1.8



#15-655, 35mm, f/1.8 Cw Series Fixed Focal Length Lens, Depth of Field Plot, 300mm Working Distance, f1.6



#15-655, 35mm, f/1.8 Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 750mm Working Distance, f1.8



#15-655, 35mm, f/1.8 Cw Series Fixed Focal Length Lens, Depth of Field Plot, 750mm Working Distance, f1.8