

TECHSPEC® 25mm, f/4 Cw Series Fixed Focal Length Lens

25mm Focal Length

Stock #15-649 **20+ In Stock** 1 A\$346⁰⁰**ADD TO CART**

Volume Pricing	
Qty 1+	A\$346.00 each
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SPECIFICATIONS**General**

Cw Series

Series:

Note:

Type:
Fixed Focal Length Lens

Physical & Mechanical Properties

Fixed	Iris Option:
41.40	Length (mm):
37.77	Maximum Diameter (mm):
34.1	Outer Diameter (mm):
4.2	Maximum Rear Protrusion (mm):
38.00	Diameter (mm):

Optical Properties

Horizontal Field of View @ Max Sensor Format:
38.3mm - 16.6°

Field of View at Max Sensor Format:
Horizontal: 19.8°
Vertical: 14.9°
Diagonal: 24.6°

Horizontal Field of View, 2/3" Sensor:
16.6°

Horizontal Field of View, 1/1.8" Sensor:
13.6°

Horizontal Field of View, 1/2" Sensor:
12.1°

Horizontal Field of View, 1/2.5" Sensor:
11.0°

Horizontal Field of View, 1/3" Sensor:
9.1°

Horizontal Field of View, 1/4" Sensor:
6.8°

Maximum Image Circle (mm):
11.00

Numerical Aperture NA, Object Side:
0.024

Number of Elements (Groups):
7 (6)

Focal Length FL (mm):
25.00

Working Distance (mm):
100 - ∞

Aperture (f/#):
f/4

Coating:
425 - 675nm BBAR

Coating Specification:
425 - 675nm BBAR

Entrance Pupil Position (mm):
21.65

Object Space Principal Plane (mm):
24.53

Image Space Principal Plane (mm):
-12.44

Maximum Distortion (%):
0.22

Exit Pupil Position (mm):
-15.69

Lens Wavelength Range:
VIS

Sensor

Maximum Sensor Format:
2/3"

Pixel Size (μm):
2.74

Threading & Mounting

Filter Thread:
M30.5 x 0.50 (Female)

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

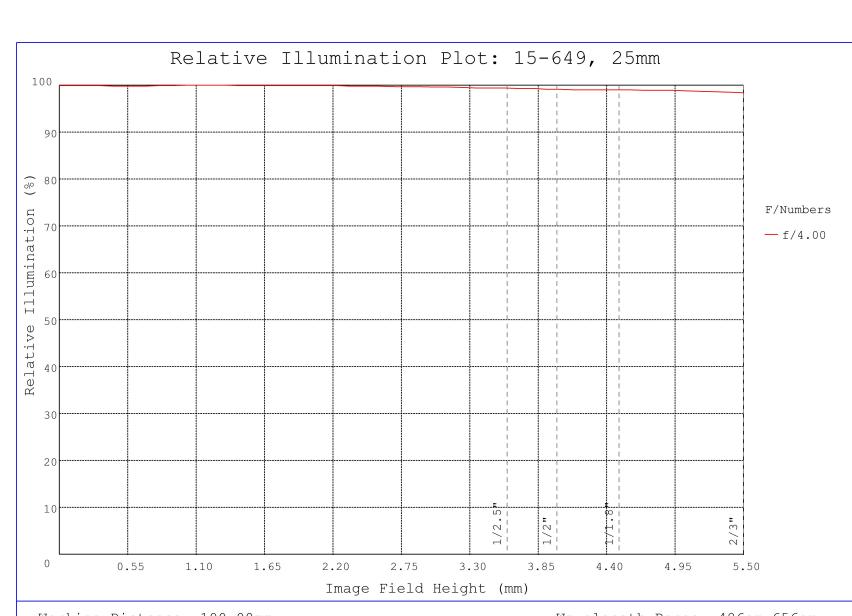
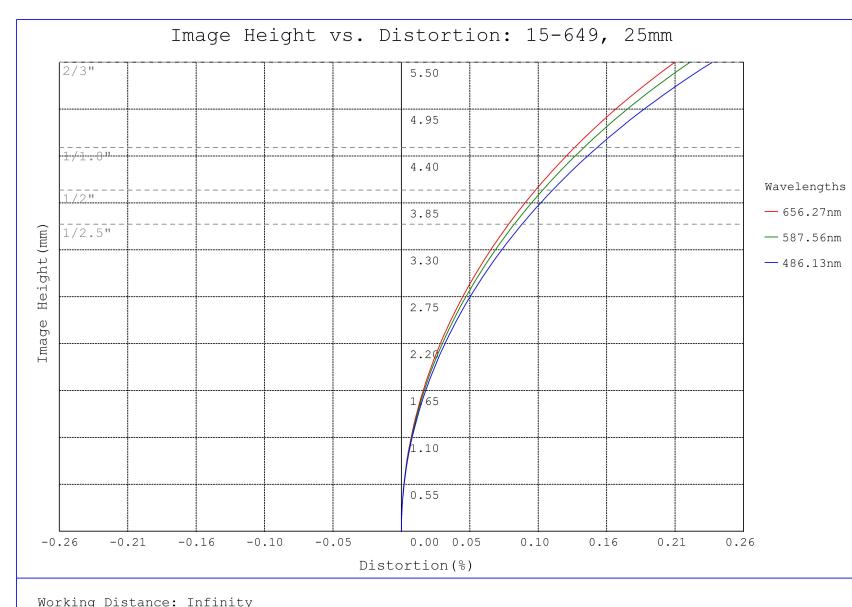
- Up to 2/3", C-Mount Lens
- Waterproof (Cw) Versions of C Series Fixed Focal Length Lenses
- Meets IEC Ingress Protection Ratings of IPX7 and IPX9K
- Designed to Eliminate the Need for a Protective Lens Cover

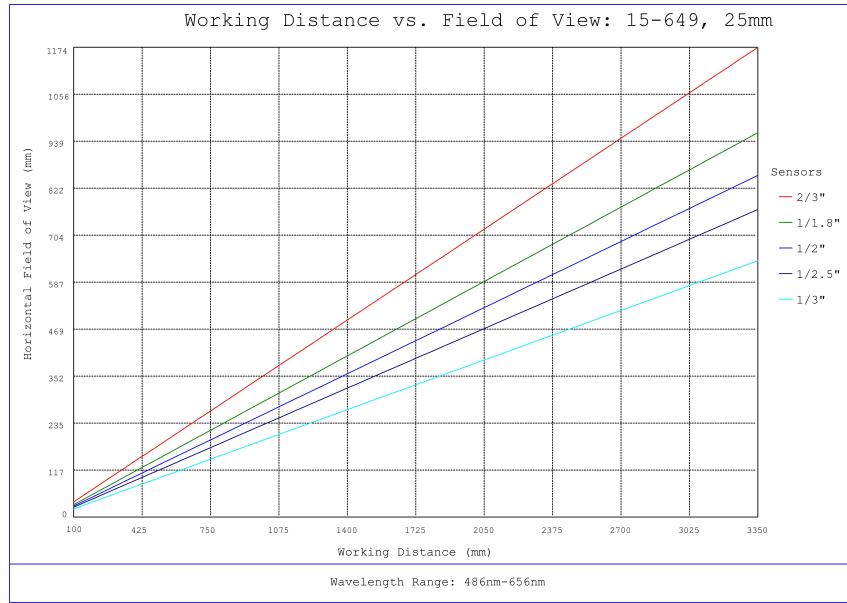
TECHSPEC® Cw Series Fixed Focal Length Lenses are waterproof versions of our [TECHSPEC® C Series Fixed Focal Length Lenses](#). Designed to meet IEC Ingress Protection Codes IPX7 and IPX9K, these lenses withstand exposure to water up to 1 meter depth for 30 minutes and operate in close-range high pressure, 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:

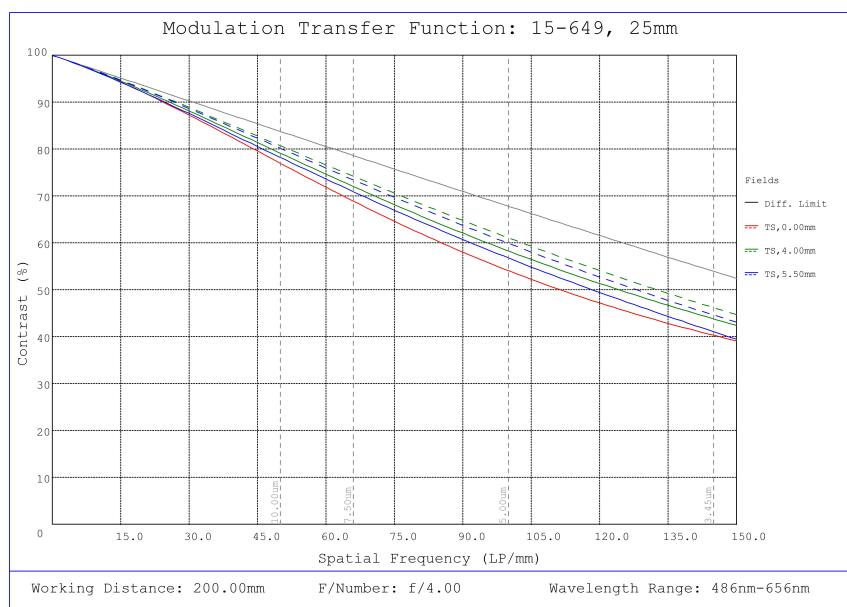
- C Series:** Features locking cam focus and iris adjustment and is the most adjustable version of these optical designs; they are the typical high quality machine vision lenses. Also available with a [VIS-NIR Broadband Anti-Reflection \(BBAR\) Coating](#).
- CI Series:** Simplified mechanics featuring 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





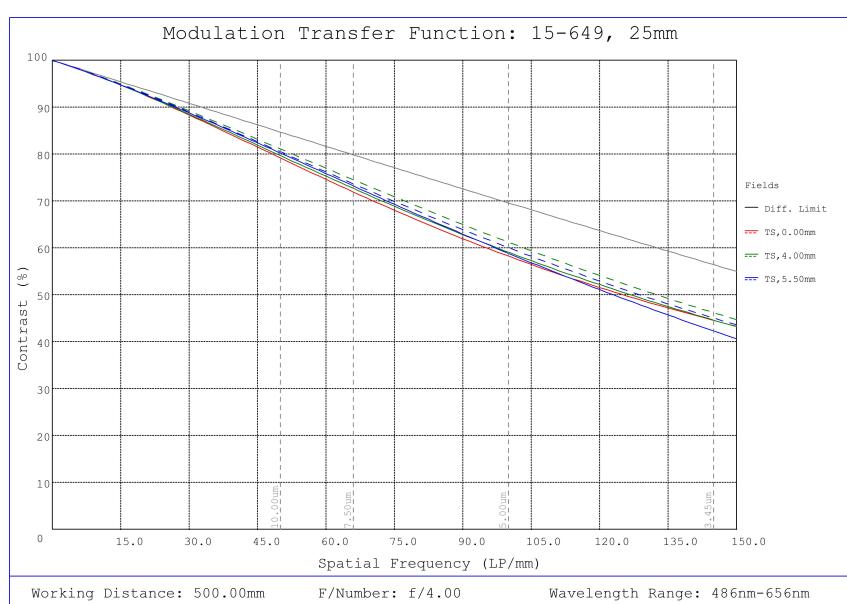
#15-649, 25mm, f/4 Cw Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



#15-649, 25mm, f/4 Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 200mm Working Distance, f4



#15-649, 25mm, f/4 Cw Series Fixed Focal Length Lens, Depth of Field Plot, 200mm Working Distance, f4



#15-649, 25mm, f/4 Cw Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f4



#15-649, 25mm, f/4 Cw Series Fixed Focal Length Lens, Depth of Field Plot, 500mm Working Distance, f4