

TECHSPEC[®] 100mm, f/8 Cr Series Fixed Focal Length Lens



TECHSPEC[®] Cr Series Fixed Focal Length Lenses



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1

+

A\$518⁰⁰

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Note: This item requires accessories for use | [Learn More](#)

Product Downloads

General	
Cr Series	Series:
Fixed Focal Length Lens	Type:
Physical & Mechanical Properties	

Fixed	Iris Option:
82.73	Length (mm):
50	Maximum Diameter (mm):
50	Outer Diameter (mm):
1.64	Maximum Rear Protrusion (mm):

Optical Properties

Field of View at Max Sensor Format: Horizontal: 7.28° Vertical: 5.48° Diagonal: 9.07°	
5.02°	Horizontal Field of View, 2/3" Sensor:
4.11°	Horizontal Field of View, 1/1.8" Sensor:
3.66°	Horizontal Field of View, 1/2" Sensor:
3.29°	Horizontal Field of View, 1/2.5" Sensor:
21.60	Maximum Image Circle (mm):
0.008	Numerical Aperture NA, Object Side:
7 (6)	Number of Elements (Groups):
100.00	Focal Length FL (mm):
750 - ∞	Working Distance (mm):
f/8	Aperture (f/#):
425 - 675nm BBAR	Coating Specification:
31.419	Entrance Pupil Position (mm):
21.64	Object Space Principal Plane (mm):
-98.34	Image Space Principal Plane (mm):
0.866	Maximum Distortion (%):
-50.496	Exit Pupil Position (mm):
VS	Lens Wavelength Range:

Sensor

1"	Maximum Sensor Format:
2.74	Pixel Size (μm):

Threading & Mounting

M46 x0.75 (Female)	Filter Thread:
C-Mount	Mount:

Environmental & Durability Factors

Stabilized (Robust Mechanics for Shock and Vibration)	Type of Ruggedization:
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Regulatory Compliance

View	Certificate of Conformance:
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Product Details

- Up to 2/3", C-Mount Lens
- Up to 7.5 MegaPixels, 2.8µm Pixel Size Sensors
- Ruggedized (Cr) Designs (50g Shock) of our C Series Lens
- 3.5mm to 50mm Focal Length
- [Instrumentation \(Ci\) Versions](#) Also Available

TECHSPEC® Compact Ruggedized (Cr) Series Fixed Focal Length Lenses provide Stabilized Ruggedization, protecting the lens from damage while maintaining optical pointing and positioning after shock and vibration. All individual lens elements are glued in place to reduce object shift on the image. In addition, these lenses feature robust mechanics with a simplified focus and stainless steel locking C-Mount clamp. TECHSPEC® Cr Series Fixed Focal Length Lenses are ideal for calibrated imaging systems such as measurement and gauging, 3D stereo vision, robotics and sensing, autonomous vehicles, and object tracking. The object to image mapping is maintained even after heavy shock and vibration; if the center of the object maps onto the center pixel, it will always map to that same center pixel.

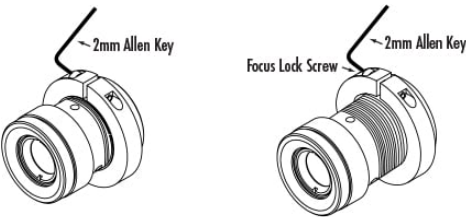
These lenses won the [1st place 2018 Inspect Award](#) and the [Silver Level 2018 Innovators Award](#).

Note: To learn more about ruggedization, visit our [Ruggedization Resource Webpage](#).

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



1. Use a 2mm allen key to loosen the focus lock screw. Do not remove the lock screw from the mount.
2. By loosening the lock screw, you now have the ability to rotate the lens in and out of the C-Mount.
The focus will change as you rotate the lens – continue rotating the lens until you’ve reached the desired focus.
3. To secure the lens within the C-Mount at the desired focus, use the 2mm allen key to re-tighten the focus lock screw.

How to focus a Cr Series Lens

