

TECHSPEC[®] 75mm C Series Fixed Focal Length Lens



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1

+

€380⁰⁰

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General

C Series	Series:
Fixed Focal Length Lens	Type:

Physical & Mechanical Properties

Variable	Iris Option:
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98.76	Length (mm):
48	Maximum Diameter (mm):
48	Outer Diameter (mm):

7.24	Maximum Rear Protrusion (mm):
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Optical Properties

5.76°	Horizontal Field of View @ Max Sensor Format:
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Horizontal: 5.76° Vertical: 4.32° Diagonal: 7.19°	Field of View at Max Sensor Format:
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5.76°	Horizontal Field of View, 2/3" Sensor:
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4.71°	Horizontal Field of View, 1/1.8" Sensor:
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4.19°	Horizontal Field of View, 1/2" Sensor:
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3.77°	Horizontal Field of View, 1/2.5" Sensor:
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3.14°	Horizontal Field of View, 1/3" Sensor:
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11.00	Maximum Image Circle (mm):
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0.05111	Numerical Aperture NA, Object Side:
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7 (6)	Number of Elements (Groups):
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75.00	Focal Length FL (mm):
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500 - ∞	Working Distance (mm):
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f/2.0 - f/16.0	Aperture (f/#):
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425 - 675nm BBAR	Coating:
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425 - 675nm BBAR	Coating Specification:
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63.265	Entrance Pupil Position (mm):
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-15.01	Object Space Principal Plane (mm):
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-64.79	Image Space Principal Plane (mm):
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0.068	Maximum Distortion (%):
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-31.983	Exit Pupil Position (mm):
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VIS	Lens Wavelength Range:
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Sensor

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

M43 x0.75 (Female)	Filter Thread:
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C-Mount	Mount:
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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
- Compact (C), FA Lens for Machine Vision
- 3.5mm to 100mm Focal Length

TECHSPEC® C Series Fixed Focal Length Lenses are designed for use in machine vision applications with the working distance and resolution requirements of factory automation and inspection in mind. TECHSPEC® C Series Fixed Focal Length Lenses feature large maximum apertures, allowing these high performance lenses to be used in even the most restrictive lighting conditions. Each lens has a broadband anti-reflection coating, locking iris and focus adjustment with recessed set screws, and a ruggedized, robust housing for space-restrictive applications. C Series lenses are manufactured to high tolerances, which result in high levels of imaging performance with low lens-to-lens variation. Through combining optical performance, industrial features, and compact package sizes, our TECHSPEC® C Series Fixed Focal Length Lenses are ideal for use in factory automation and inspection.

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 \(BBAR\)](#) or [SWIR](#) 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

