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TECHSPEC® 100mm, f/4 Ci Series Fixed Focal Length Lens



TECHSPEC® Ci Series Fixed Focal Length Lenses



Stock #15-509 **1 In Stock**

MRP ₹24,957

! Price inclusive of all taxes

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Qty 1-24	₹24,957 each
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Product Downloads

General

Ci Series **Product Family:**
 Fixed Focal Length Lens **Type:**

Physical & Mechanical Properties

Fixed Iris Option:

81.80

Length (mm):

48

Maximum Diameter (mm):

48

Outer Diameter (mm):

1.64

Maximum Rear Protrusion (mm):

1.64

Optical Properties

Field of View at Max Sensor Format:

Horizontal: 7.28°

Vertical: 5.48°

Diagonal: 9.07°

Horizontal Field of View, 2/3" Sensor:

5.02°

Horizontal Field of View, 1/1.8" Sensor:

4.11°

Horizontal Field of View, 1/2" Sensor:

3.66°

Horizontal Field of View, 1/2.5" Sensor:

3.29°

Maximum Image Circle (mm):

21.60

Numerical Aperture NA, Object Side:

0.016

Number of Elements (Groups):

6 (5)

Focal Length FL (mm):

100.00

Working Distance (mm):

750 - ∞

Aperture (f/#):

f/4

Coating Specification:

425 - 675nm BBAR

Entrance Pupil Position (mm):

31.419

Object Space Principal Plane (mm):

21.64

Image Space Principal Plane (mm):

-98.34

Maximum Distortion (%):

0.866

Exit Pupil Position (mm):

-50.496

Lens Wavelength Range:

VIS

Sensor

Maximum Sensor Format:

1"

Pixel Size (µm):

2.74

Threading & Mounting

Filter Thread:

M46 x 0.75 (Female)

Mount:

C-Mount

Environmental & Durability Factors

Type of Ruggedization:

Industrial (Fixed Aperture with Simplified Mechanics)

Regulatory Compliance

Certificate of Conformance:

[View](#)

Country of Origin:

China

Imported By:

Product Details

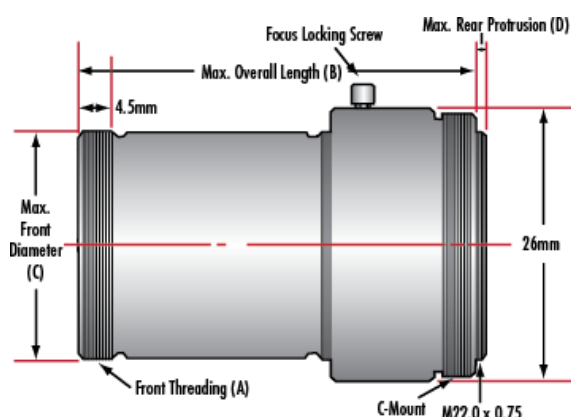
- Up to 2/3", C-Mount Lens
- Up to 7.5 MegaPixels, 2.8µm Pixel Size Sensors
- Instrumentation (Ci) Versions of our C Series Lenses with Streamlined Mechanical Designs and Fixed Apertures
- 3.5mm to 50mm Focal Length
- **Ruggedized (Cr) Designs** Also Available

TECHSPEC® Ci Series Fixed Focal Length Lenses are a streamlined version of our C Series Fixed Focal Length Lenses. They feature the same low lens-to-lens variation and broadband anti-reflection (BBAR) coating for maximum light transmission, while offering reduced weight and size. An adjustable, lockable focus allows for setting and locking the best focus position for instrumentation integration. TECHSPEC® Ci Series Fixed Focal Length Lenses are designed specifically for volume integration into applications such as factory inspection and automation to benchtop biomedical devices. The Ci Series offers a wide range of aperture options, ensuring maximum flexibility of resolution, throughput, and depth of field.

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



Focal Length	A	B	C	D
6mm	M34.0 x 0.5	47.8mm	34mm	1.17mm
12mm	M22.0 x 0.75	29.0mm	22mm	0.96mm
16mm	M22.0 x 0.75	40.8mm	22mm	1.09mm
25mm	M22.0 x 0.75	29.9mm	22mm	1.33mm
35mm	M25.5 x 0.5	41mm	22.5mm	3.82mm
50mm	M30.5 x 0.5	49.5mm	30.5mm	2.06mm

