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**TECHSPEC® 3.5mm, f/4 Ci Series Fixed Focal Length Lens**



3.5mm Focal Length

Stock **#87-547** **1 In Stock**

MRP ₹25,185

**Price inclusive of all taxes**

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Volume Pricing	
Qty 1-24	₹25,185 each
Qty 25+	₹22,796 each
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**General**

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

**Physical & Mechanical Properties**

**Iris Option:**  
 Fixed

39.38	<b>Length (mm):</b>
50	<b>Maximum Diameter (mm):</b>
50	<b>Outer Diameter (mm):</b>
97	<b>Weight (g):</b>
2.64	<b>Maximum Rear Protrusion (mm):</b>
26.50	<b>Diameter (mm):</b>

## Optical Properties

41.2mm - 102.8°	<b>Horizontal Field of View @ Max Sensor Format:</b>
Horizontal: 41.2mm - 102.3° Vertical: 26.8mm - 82.3° Diagonal: 63.5mm - 117°	<b>Field of View at Max Sensor Format:</b>
41.2mm - 102.8°	<b>Horizontal Field of View, 1/1.8" Sensor:</b>
29.5mm - 87.2°	<b>Horizontal Field of View, 1/2" Sensor:</b>
23.0mm - 74.4°	<b>Horizontal Field of View, 1/3" Sensor:</b>
16.3mm - 57.4°	<b>Horizontal Field of View, 1/4" Sensor:</b>
9.00	<b>Maximum Image Circle (mm):</b>
0.0286	<b>Numerical Aperture NA, Object Side:</b>
8 (7)	<b>Number of Elements (Groups):</b>
3.50	<b>Focal Length FL (mm):</b>
0 - ∞	<b>Working Distance (mm):</b>
f/4	<b>Aperture (f/#):</b>
425 - 675nm BBAR	<b>Coating:</b>
425 - 675nm BBAR	<b>Coating Specification:</b>
15.27	<b>Entrance Pupil Position (mm):</b>
18.31	<b>Object Space Principal Plane (mm):</b>
7.49	<b>Image Space Principal Plane (mm):</b>
-20.94	<b>Maximum Distortion (%):</b>
-15.28	<b>Exit Pupil Position (mm):</b>
VIS	<b>Lens Wavelength Range:</b>

## Sensor

1/1.8"	<b>Maximum Sensor Format:</b>
2.74	<b>Pixel Size (µm):</b>

## Threading & Mounting

M105 x 1.00 (Male)	<b>Filter Thread:</b>
<a href="#">#89-848 (Required)</a>	<b>Filter Thread Adapter:</b>
M50.0 x 0.5 (Male)	<b>Front Thread:</b>
C-Mount	<b>Mount:</b>

## Environmental & Durability Factors

	<b>Storage Temperature (°C):</b>
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Type of Ruggedization:  
Industrial (Fixed Aperture with Simplified Mechanics)

## Regulatory Compliance

View Certificate of Conformance:

Country of Origin:  
China

Imported By:  
Edmund Optics India Private Limited  
267, Greystone Building, Second Floor,  
6th Cross Rd, Binnamangala,  
Stage 1, Indiranagar, Bengaluru,  
Karnataka, India 560038  
Phone: +91-80-6845 0000

## Product Details

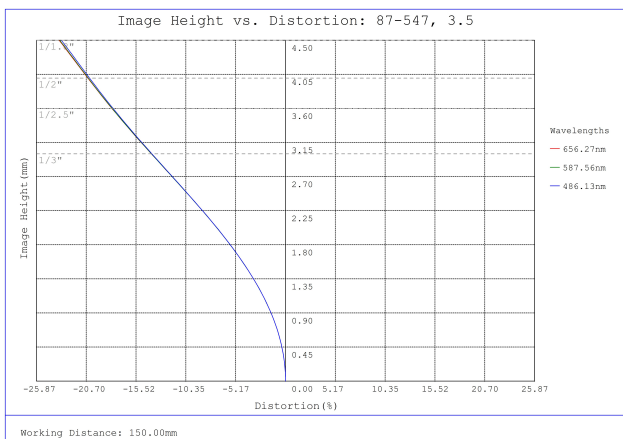
- Up to 2/3", C-Mount Lens
- Up to 7.5 MegaPixels, 2.8µm Pixel Size Sensors
- Instrumentation (Ci) Versions of our C Series Lenses with Streamlined Mechanical Designs and Fixed Apertures
- 3.5mm to 50mm Focal Length
- **Ruggedized (Cr) Designs** Also Available

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.

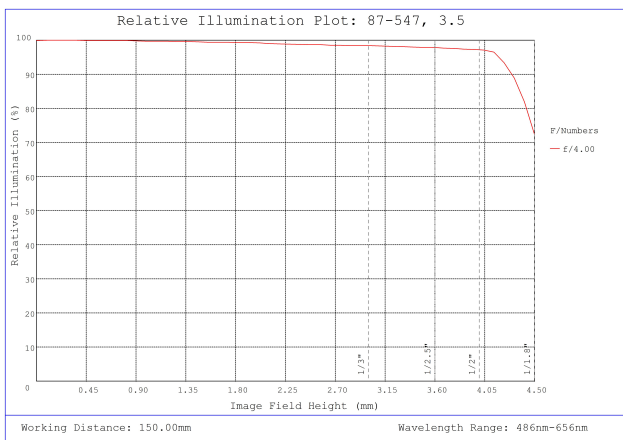
Edmund Optics has created a family of high performance optical designs (the C Series family) and developed 6 customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the C Series lenses providing the same optical performance in a variety 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.

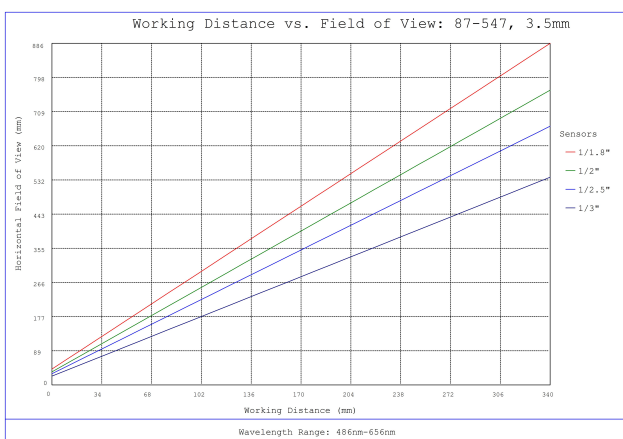
## Technical Information



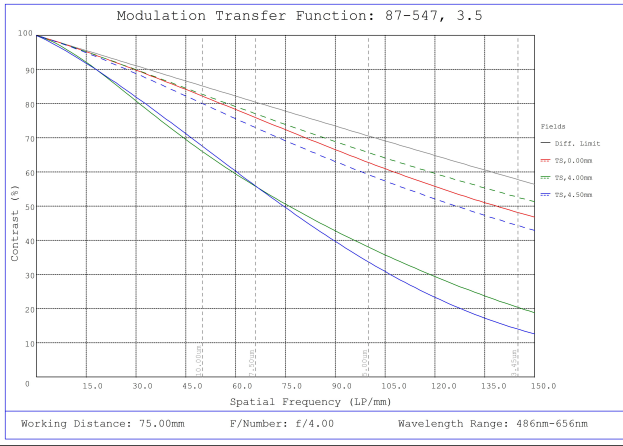
#87-547, 3.5mm, f/4 Ci Series Fixed Focal Length Lens, Distortion Plot



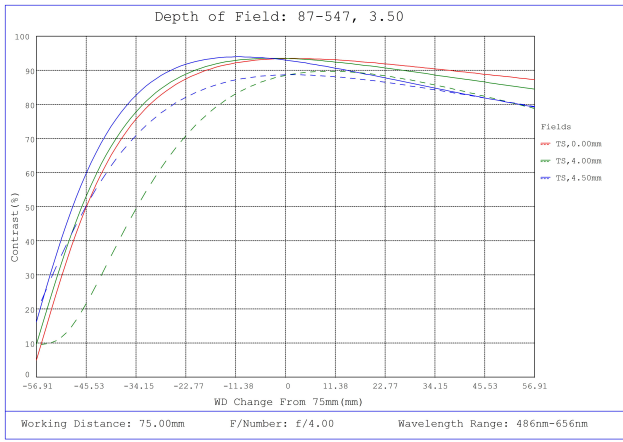
#87-547, 3.5mm, f/4 Ci Series Fixed Focal Length Lens, Relative Illumination Plot



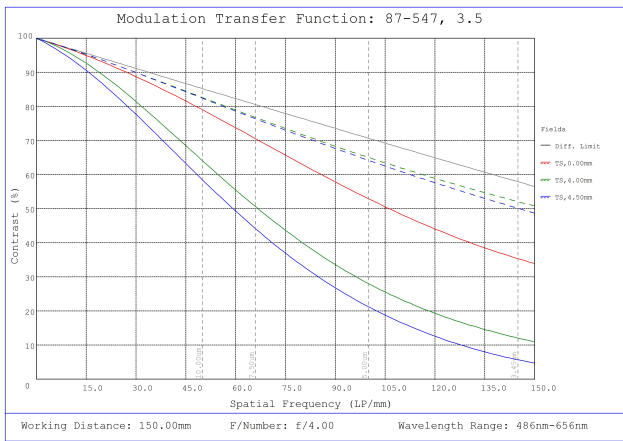
#87-547, 3.5mm, f/4 Ci Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



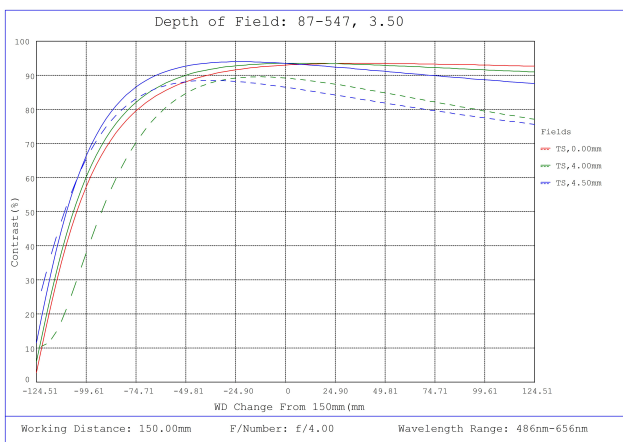
#87-547, 3.5mm, f/4 Ci Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 75mm Working Distance, f4



#87-547, 3.5mm, f/4 Ci Series Fixed Focal Length Lens, Depth of Field Plot, 75mm Working Distance, f4

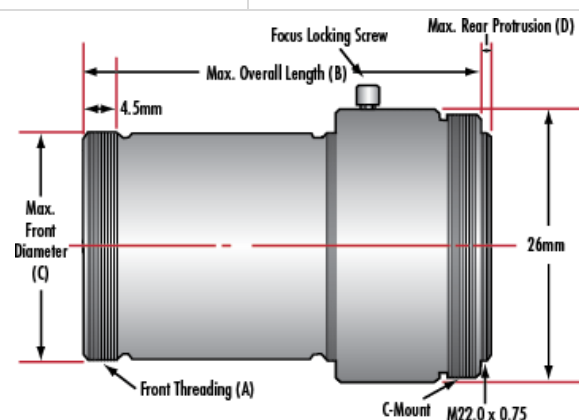


#87-547, 3.5mm, f/4 Ci Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 150mm Working Distance, f4



#87-547, 3.5mm, f/4 Ci Series Fixed Focal Length Lens, Depth of Field Plot, 150mm Working Distance, f4

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



## Compatible Cameras

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