

TECHSPEC<sup>®</sup> 25mm, f/5.6 Ci Series Fixed Focal Length Lens



25mm Focal Length

Stock #85-359 20+ In Stock

-

1

+

€215<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-24       | €215,00 each                  |
| Qty 25+        | €194,00 each                  |
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Ci Series

Series:

Type:

|                                                                                                                           |                               |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Fixed Focal Length Lens                                                                                                   |                               |
| Physical & Mechanical Properties                                                                                          |                               |
| Fixed                                                                                                                     | Iris Option:                  |
|                                                                                                                           |                               |
| 29.90                                                                                                                     | Length (mm):                  |
|                                                                                                                           |                               |
| 26.5                                                                                                                      | Maximum Diameter (mm):        |
|                                                                                                                           |                               |
| 26.5                                                                                                                      | Outer Diameter (mm):          |
|                                                                                                                           |                               |
| 28                                                                                                                        | Weight (g):                   |
|                                                                                                                           |                               |
| 1.33                                                                                                                      | Maximum Rear Protrusion (mm): |
|                                                                                                                           |                               |
| 26.50                                                                                                                     | Diameter (mm):                |
|                                                                                                                           |                               |
| Optical Properties                                                                                                        |                               |
| Horizontal Field of View @ Max Sensor Format:<br>35mm - 19.8°                                                             |                               |
| Field of View at Max Sensor Format:<br>Horizontal: 33.3mm - 19.8°<br>Vertical: 24.9mm - 14.9°<br>Diagonal: 41.8mm - 24.6° |                               |
| Horizontal Field of View, 2/3" Sensor:<br>35mm - 19.8°                                                                    |                               |
| Horizontal Field of View, 1/1.8" Sensor:<br>28.5mm - 16.1°                                                                |                               |
| Horizontal Field of View, 1/2" Sensor:<br>25.4mm - 14.5°                                                                  |                               |
| Horizontal Field of View, 1/2.5" Sensor:<br>22.6mm - 12.9°                                                                |                               |
| Horizontal Field of View, 1/3" Sensor:<br>19mm - 10.9°                                                                    |                               |
| Horizontal Field of View, 1/4" Sensor:<br>14.2mm - 8.2°                                                                   |                               |
| Maximum Image Circle (mm):<br>11.00                                                                                       |                               |
| Numerical Aperture NA, Object Side:<br>0.0192                                                                             |                               |
| Number of Elements (Groups):<br>7 (6)                                                                                     |                               |
| Focal Length FL (mm):<br>25.00                                                                                            |                               |
| Working Distance (mm):<br>100 - ∞                                                                                         |                               |
| Aperture (f/#):<br>f/5.6                                                                                                  |                               |
| Coating:<br>425 - 675nm BBAR                                                                                              |                               |
| Coating Specification:<br>425 - 675nm BBAR                                                                                |                               |
| Entrance Pupil Position (mm):<br>15.89                                                                                    |                               |
| Object Space Principal Plane (mm):<br>18.77                                                                               |                               |
| Image Space Principal Plane (mm):<br>-12.44                                                                               |                               |
| Maximum Distortion (%):<br>0.21                                                                                           |                               |
| Exit Pupil Position (mm):<br>-15.68                                                                                       |                               |
| Lens Wavelength Range:<br>VS                                                                                              |                               |
| Sensor                                                                                                                    |                               |
| Maximum Sensor Format:<br>2/3"                                                                                            |                               |
| Pixel Size (μm):<br>2.74                                                                                                  |                               |
| Threading & Mounting                                                                                                      |                               |
| Filter Thread:<br>M25.5 x0.50 (Male)                                                                                      |                               |

|                                                       |                             |
|-------------------------------------------------------|-----------------------------|
| #89-941 (Required)                                    | Filter Thread Adapter:      |
| M22.0 x0.75 (Male)                                    | Front Thread:               |
| C-Mount                                               | Mount:                      |
| Environmental & Durability Factors                    |                             |
| -20 to +60                                            | Storage Temperature (°C):   |
| Industrial (Fixed Aperture with Simplified Mechanics) | Type of Ruggedization:      |
| Regulatory Compliance                                 |                             |
| Compliant                                             | RoHS 2015:                  |
| View                                                  | Certificate of Conformance: |
| Compliant                                             | Reach 235:                  |

## PRODUCT DETAILS

These compact lenses are designed specifically for volume integration into applications such as analytical medical devices, including benchtop-based blood analyzers. For customized f/# versions to best suit your instrumentation application needs and to discuss volume requirements, please [contact us](#).

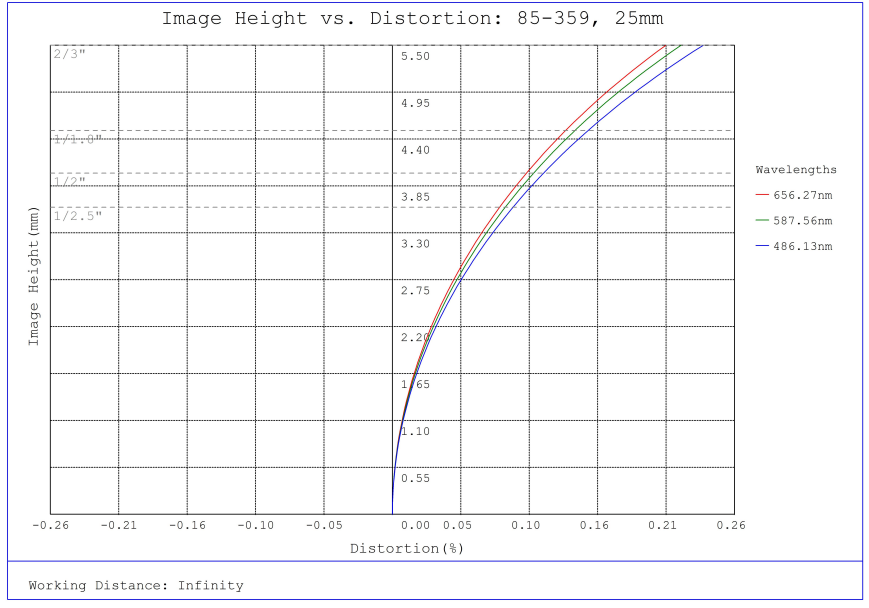
- Up to 2/3", C-Mount Lens
- Up to 7.5 MegaPixels, 2.8µm Pixel Size Sensors
- Instrumentation (Ci) Versions of our C Series Lenses with Streamlined Mechanical Designs and Fixed Apertures
- 3.5mm to 50mm Focal Length
- [Ruggedized \(Cr\) Designs](#) Also Available

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.

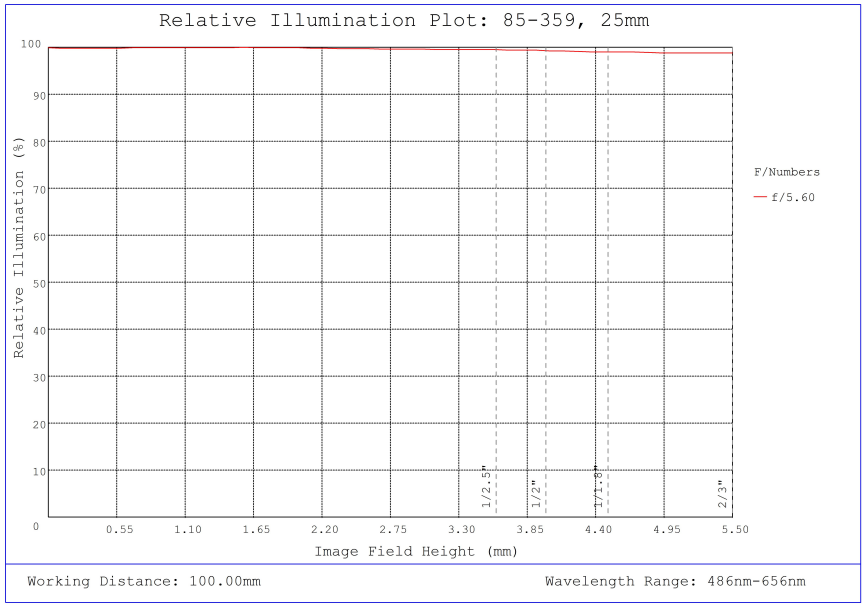
Edmund Optics has created a family of high performance optical designs (the C Series family) and developed 6 customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the C Series lenses providing the same optical performance in a variety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

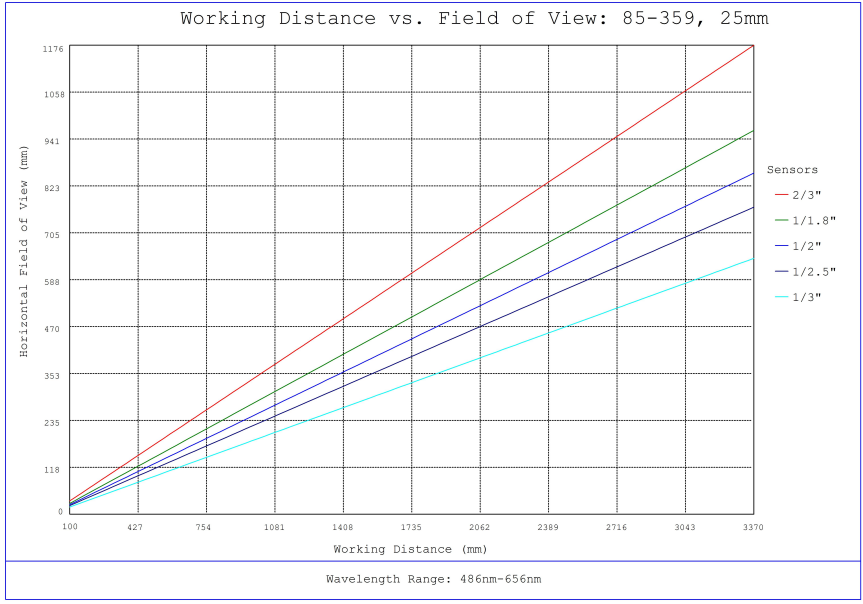
## TECHNICAL INFORMATION



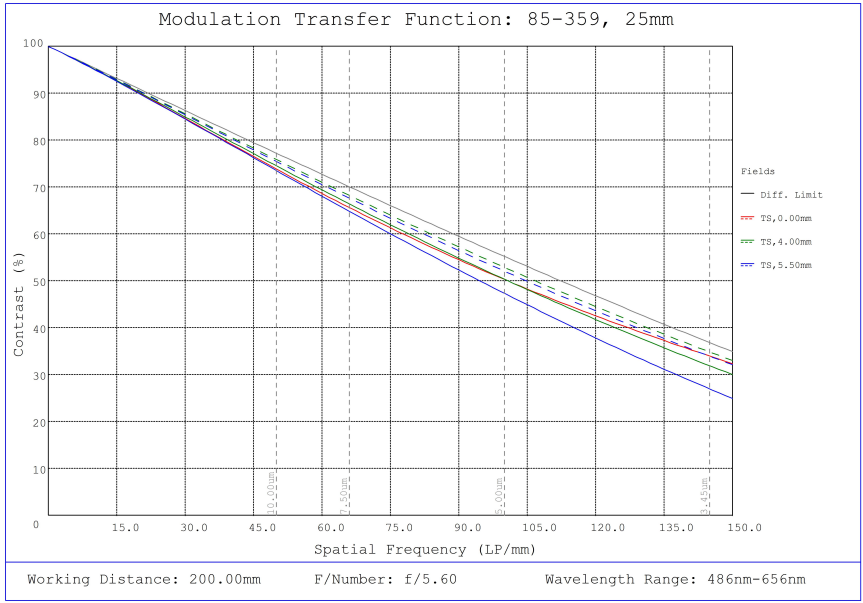
#85-359, 25mm, f/5.6 Ci Series Fixed Focal Length Lens, Distortion Plot



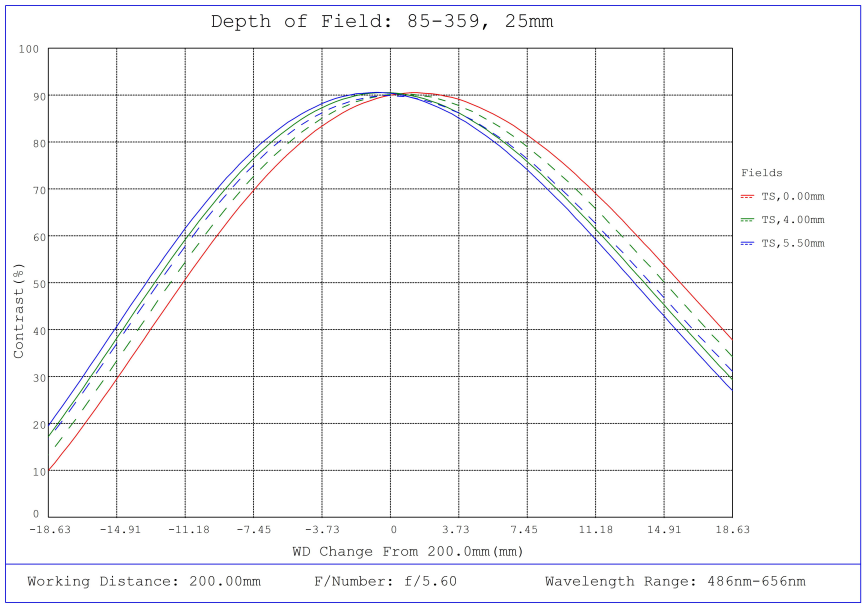
#85-359, 25mm, f/5.6 Ci Series Fixed Focal Length Lens, Relative Illumination Plot



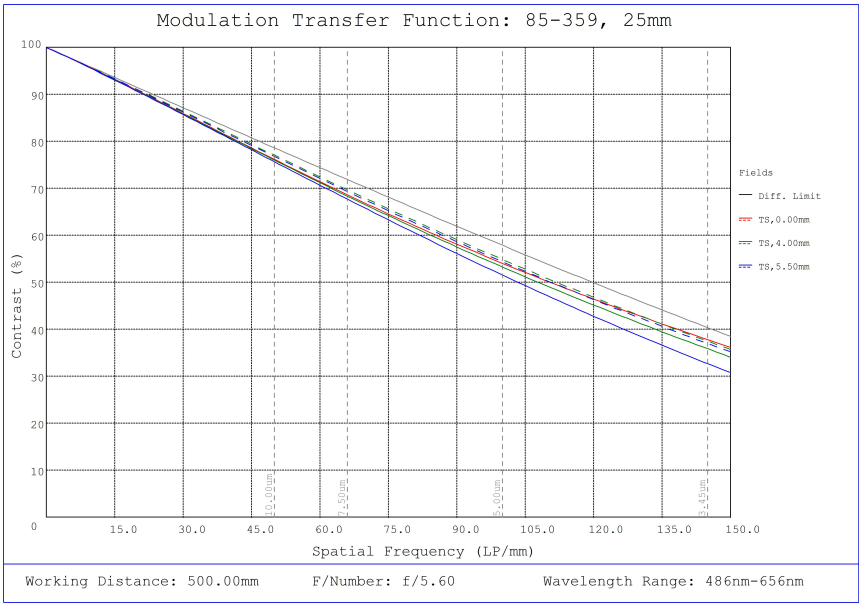
#85-359, 25mm, f/5.6 Ci Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



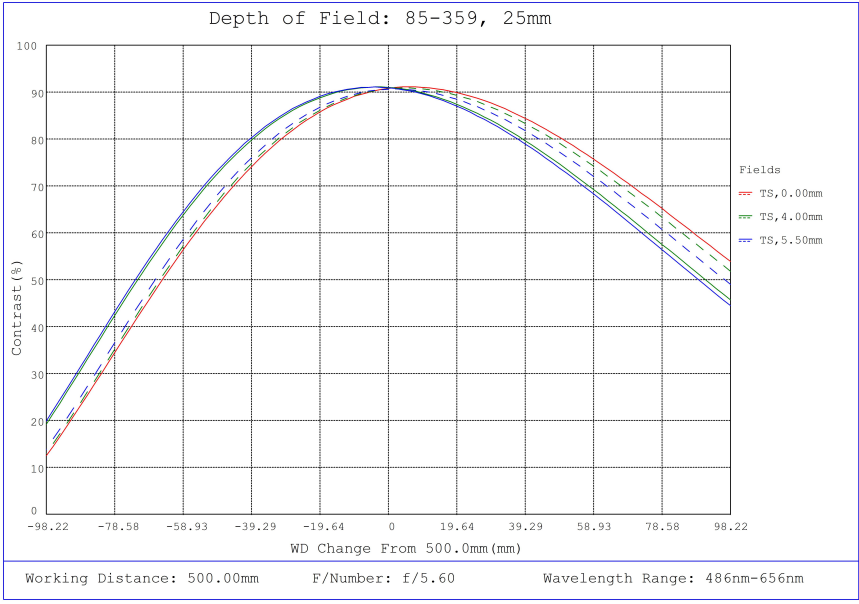
#85-359, 25mm, f/5.6 Ci Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 200mm Working Distance, f5.6



#85-359, 25mm, f/5.6 Ci Series Fixed Focal Length Lens, Depth of Field Plot, 200mm Working Distance, f5.6



#85-359, 25mm, f/5.6 Ci Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f5.6



#85-359, 25mm, f/5.6 Ci Series Fixed Focal Length Lens, Depth of Field Plot, 500mm Working Distance, f5.6

| 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