

TECHSPEC® 35mm f/4, UCi Series Fixed Focal Length Lens



35mm UCi Series Fixed Focal Length Lens



Stock #33-899 2 In Stock

-

1

+

€250<sup>.00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | €250,00 each                  |
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Prices shown are exclusive of VAT/local taxes

Product Downloads

| General                 |                |
|-------------------------|----------------|
| UCi Series              | Series:        |
| Fixed Focal Length Lens | Type:          |
| No                      | IR Cut Filter: |

| Physical & Mechanical Properties |                                                                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Fixed                            | Iris Option:                                                                                                             |
|                                  |                                                                                                                          |
| 52.19                            | Length (mm):                                                                                                             |
|                                  |                                                                                                                          |
| 26.5                             | Maximum Diameter (mm):                                                                                                   |
|                                  |                                                                                                                          |
| 26.5                             | Outer Diameter (mm):                                                                                                     |
|                                  |                                                                                                                          |
| 2.21                             | Maximum Rear Protrusion (mm):                                                                                            |
|                                  |                                                                                                                          |
| 52.19                            | Maximum Length (mm):                                                                                                     |
|                                  |                                                                                                                          |
| Optical Properties               |                                                                                                                          |
|                                  | Horizontal Field of View @ Max Sensor Format:<br>45.6mm - 11.9°                                                          |
|                                  |                                                                                                                          |
|                                  | Field of View at Max Sensor Format:<br>Horizontal: 45.6mm - 11.9°<br>Vertical: 34.1mm - 8.9°<br>Diagonal: 57.2mm - 14.8° |
|                                  |                                                                                                                          |
|                                  | Horizontal Field of View, 1/1.8" Sensor:<br>45.6mm - 11.9°                                                               |
|                                  |                                                                                                                          |
|                                  | Horizontal Field of View, 1/2" Sensor:<br>40.5mm - 10.6°                                                                 |
|                                  |                                                                                                                          |
|                                  | Horizontal Field of View, 1/2.5" Sensor:<br>36.7mm - 9.6°                                                                |
|                                  |                                                                                                                          |
|                                  | Horizontal Field of View, 1/3" Sensor:<br>30.3mm - 7.9°                                                                  |
|                                  |                                                                                                                          |
|                                  | Horizontal Field of View, 1/4" Sensor:<br>22.7mm - 6.0°                                                                  |
|                                  |                                                                                                                          |
| 9.00                             | Maximum Image Circle (mm):                                                                                               |
|                                  |                                                                                                                          |
| 0.0182                           | Numerical Aperture NA, Object Side:                                                                                      |
|                                  |                                                                                                                          |
| 7 (5)                            | Number of Elements (Groups):                                                                                             |
|                                  |                                                                                                                          |
| 35.00                            | Focal Length FL (mm):                                                                                                    |
|                                  |                                                                                                                          |
| 200 - ∞                          | Working Distance (mm):                                                                                                   |
|                                  |                                                                                                                          |
| f/4.0                            | Aperture (f/#):                                                                                                          |
|                                  |                                                                                                                          |
| λ/4 MgF <sub>2</sub>             | Coating:                                                                                                                 |
|                                  |                                                                                                                          |
| λ/4 MgF <sub>2</sub>             | Coating Specification:                                                                                                   |
|                                  |                                                                                                                          |
| 34.01                            | Entrance Pupil Position (mm):                                                                                            |
|                                  |                                                                                                                          |
| 49.25                            | Object Space Principal Plane (mm):                                                                                       |
|                                  |                                                                                                                          |
| -19.45                           | Image Space Principal Plane (mm):                                                                                        |
|                                  |                                                                                                                          |
| -0.22                            | Maximum Distortion (%):                                                                                                  |
|                                  |                                                                                                                          |
| -46.71                           | Exit Pupil Position (mm):                                                                                                |
|                                  |                                                                                                                          |
| VIS                              | Lens Wavelength Range:                                                                                                   |
|                                  |                                                                                                                          |
| Sensor                           |                                                                                                                          |
| 1/2.5"                           | Optimized Sensor Format:                                                                                                 |
|                                  |                                                                                                                          |
| 1/1.8"                           | Maximum Sensor Format:                                                                                                   |
|                                  |                                                                                                                          |
| 1.85                             | Pixel Size (μm):                                                                                                         |
|                                  |                                                                                                                          |
| Threading & Mounting             |                                                                                                                          |
| N/A                              | Filter Thread:                                                                                                           |
|                                  |                                                                                                                          |
| C-Mount                          | Mount:                                                                                                                   |
|                                  |                                                                                                                          |
|                                  |                                                                                                                          |

Environmental & Durability Factors

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| <b>Storage Temperature (°C):</b> | -20 to +60                                            |
| <b>Type of Ruggedization:</b>    | Industrial (Fixed Aperture with Simplified Mechanics) |

Regulatory Compliance

|                                    |                      |
|------------------------------------|----------------------|
| <b>Certificate of Conformance:</b> | <a href="#">View</a> |
|------------------------------------|----------------------|

Product Details

- Up to 1/1.8", C-Mount, S-Mount Lens
- Up to 12 MegaPixels, 1.85µm Pixel Size Sensors
- Instrumentation (UCi) versions of our UC Series Lenses with Streamlined Mechanical Designs and Fixed Apertures
- 4mm to 35mm Focal Length

TECHSPEC® UCi Series Fixed Focal Length Lenses utilize the same optics as the TECHSPEC UC Series Lenses and feature 4K resolution. These lenses are designed for small pixels ≤2.2µm and offer a wide range of fixed apertures for a variety of applications. While optimized for 1/2.5" sensors, many focal length options can be used on sensors up to 1/1.8". TECHSPEC® UCi Series Fixed Focal Length Lenses are ideal for OEM applications that require small, robust, and lightweight imaging solutions.

**Note:** For adjustable aperture options, see our [TECHSPEC® UC Series Fixed Focal Length Lenses](#).

Edmund Optics has created a family of high-performance ultra-compact optical designs (the UC Series family) and developed 3 customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the UC Series lenses providing the same optical performance in a variety of optomechanical solutions to meet your application requirements:

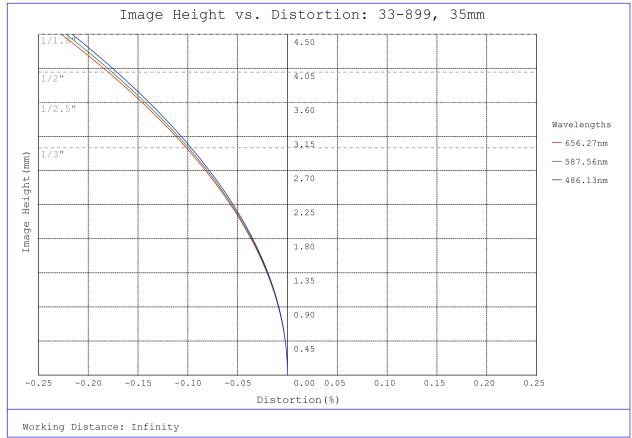
**UC Series:** Features locking cam focus and iris adjustment in an ultra-compact design and is the most adjustable version of these optical designs; they are the typical high-quality machine vision lenses.

**UCi Series:** Simplified mechanics featuring fixed apertures with compact housing. [Industrial Ruggedization](#) for reduced size, cost, and locked focus.

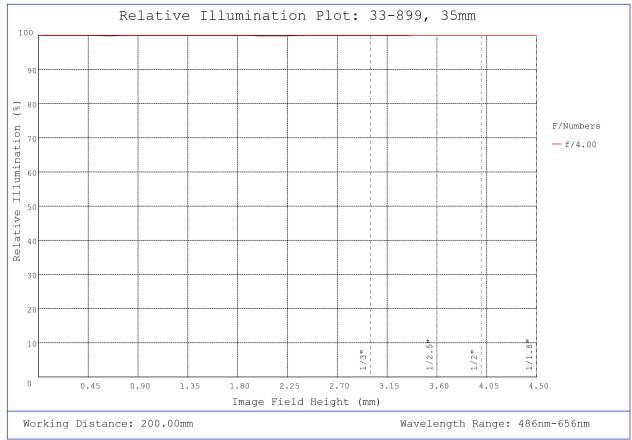
**UCr Series:** All optics glued in place and a locking C-clamp focus ring. [Stabilized Ruggedization](#) for reduced pixel shift and improved focus stability.

**UCw Series:** Waterproof, designed to meet IEC [Ingress Protection](#) Code IPX7 to withstand exposure to water up to 1 meter depth for 30 minutes.

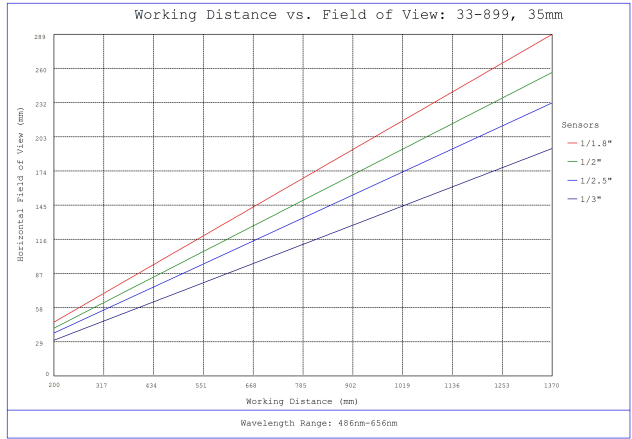
Technical Information



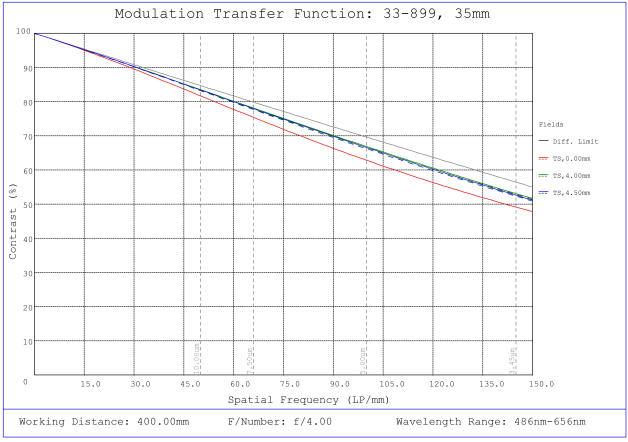
#33-899, 35mm f/4, UCi Series Fixed Focal Length Lens, Distortion Plot



#33-899, 35mm f/4, UCi Series Fixed Focal Length Lens, Relative Illumination Plot



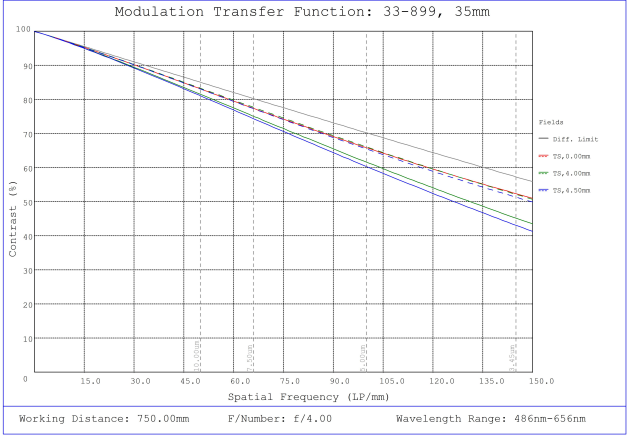
#33-899, 35mm f/4, UCi Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



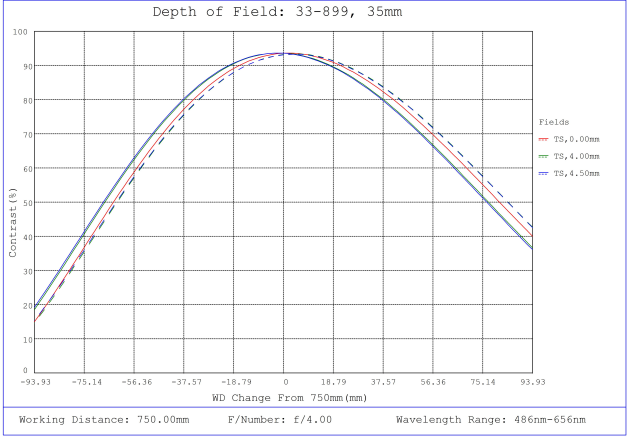
#33-899, 35mm f/4, UCi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 400mm Working Distance, f4



#33-899, 35mm f/4, UCi Series Fixed Focal Length Lens, Depth of Field Plot, 400mm Working Distance, f4



#33-899, 35mm f/4, UCi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 750mm Working Distance, f4



#33-899, 35mm f/4, UCi Series Fixed Focal Length Lens, Depth of Field Plot, 750mm Working Distance, f4

Compatible Cameras