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**TECHSPEC® 6mm, f/11 UCi Series Fixed Focal Length Lens**



6mm UCi Series Fixed Focal Length Lens



Stock #33-867 **1 In Stock**

⊖ 1 ⊕ ₹16,356

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| Volume Pricing |                               |
| Qty 1+         | ₹16,356 each                  |
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**General**

|                         |                       |
|-------------------------|-----------------------|
| UCi Series              | <b>Series:</b>        |
| Fixed Focal Length Lens | <b>Type:</b>          |
| No                      | <b>IR Cut Filter:</b> |

**Physical & Mechanical Properties**

|       |                                      |
|-------|--------------------------------------|
| Fixed | <b>Iris Option:</b>                  |
| 47.30 | <b>Length (mm):</b>                  |
| 30.5  | <b>Maximum Diameter (mm):</b>        |
| 30.5  | <b>Outer Diameter (mm):</b>          |
| 52    | <b>Weight (g):</b>                   |
| 0     | <b>Maximum Rear Protrusion (mm):</b> |

## Optical Properties

|  |  |
|--|--|
| 72.8mm - 60.0°   | <b>Horizontal Field of View @ Max Sensor Format:</b> |
| Horizontal: 72.8mm - 60°<br>Vertical: 52.7mm - 45.4°<br>Diagonal: 95.5mm - 73.8° | <b>Field of View at Max Sensor Format:</b>           |
| 72.8mm - 60.0°   | <b>Horizontal Field of View, 1/2" Sensor:</b>        |
| 65.0mm - 54.6°   | <b>Horizontal Field of View, 1/2.5" Sensor:</b>      |
| 52.7mm - 45.4°   | <b>Horizontal Field of View, 1/3" Sensor:</b>        |
| 38.7mm - 34.2°   | <b>Horizontal Field of View, 1/4" Sensor:</b>        |
| 8.00   | <b>Maximum Image Circle (mm):</b>                    |
| 0.0043   | <b>Numerical Aperture NA, Object Side:</b>           |
| 9 (8)  | <b>Number of Elements (Groups):</b>                  |
| 6.00   | <b>Focal Length FL (mm):</b>                         |
| 50 - ∞   | <b>Working Distance (mm):</b>                        |
| f/11.0   | <b>Aperture (f/#):</b>                               |
| λ/4 MgF <sub>2</sub>   | <b>Coating:</b>                                      |
| λ/4 MgF <sub>2</sub>   | <b>Coating Specification:</b>                        |
| 12.61  | <b>Entrance Pupil Position (mm):</b>                 |
| 17.55  | <b>Object Space Principal Plane (mm):</b>            |
| 4.85   | <b>Image Space Principal Plane (mm):</b>             |
| -11.2  | <b>Maximum Distortion (%):</b>                       |
| -23.26   | <b>Exit Pupil Position (mm):</b>                     |
| VIS  | <b>Lens Wavelength Range:</b>                        |

## Sensor

|        |                                 |
|--------|---------------------------------|
| 1/2.5" | <b>Optimized Sensor Format:</b> |
| 1/2"   | <b>Maximum Sensor Format:</b>   |
| 1.85   | <b>Pixel Size (μm):</b>         |

## Threading & Mounting

|                     |                       |
|---------------------|-----------------------|
| M30.5 x 0.50 (Male) | <b>Filter Thread:</b> |
| S-Mount (M12 x 0.5) | <b>Mount:</b>         |

## Environmental & Durability Factors

|            |                                  |
|------------|----------------------------------|
| -20 to +60 | <b>Storage Temperature (°C):</b> |
|            | <b>Type of Ruggedization:</b>    |

## Regulatory Compliance

**Certificate of Conformance:**

[View](#)

**Country of Origin:**

China

**Importer:**

Edmund Optics India Private Limited

## 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  $\leq 2.2\mu\text{m}$  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:

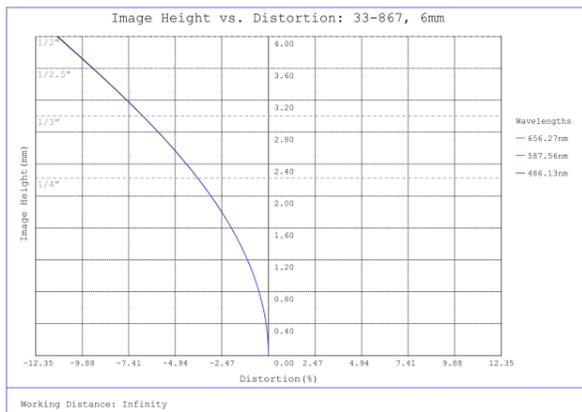
**UC Series:** Features locking cam focus and iris adjustment in an ultra-compact design and is the most adjustable version of these optical designs; they are the typical high-quality machine vision lenses.

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

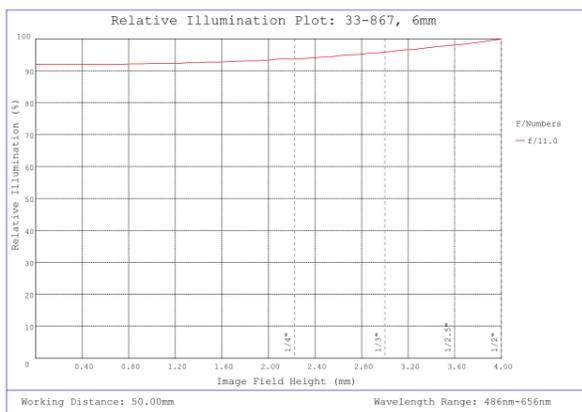
**UCr Series:** All optics glued in place and a locking C-clamp focus ring. [Stabilized Ruggedization](#) for reduced pixel shift and improved focus stability.

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

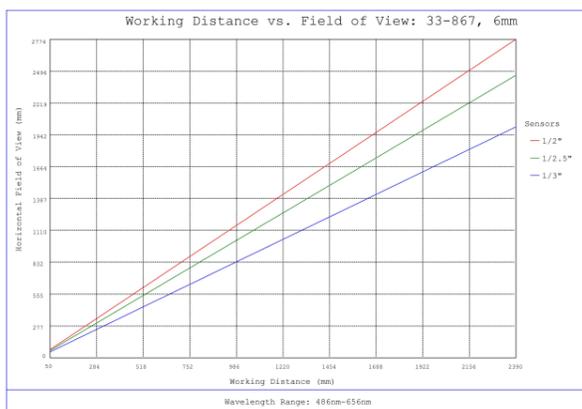
## Technical Information



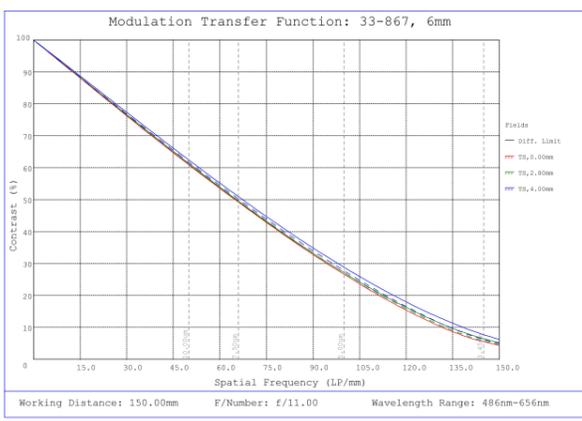
#33-867, 6mm, f/11 UCi Series Fixed Focal Length Lens, Distortion Plot



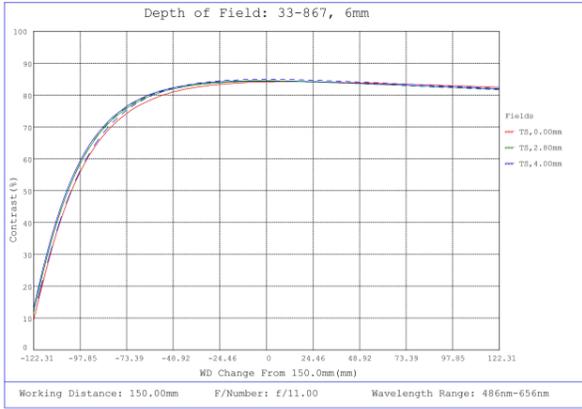
#33-867, 6mm, f/11 UCi Series Fixed Focal Length Lens, Relative Illumination Plot



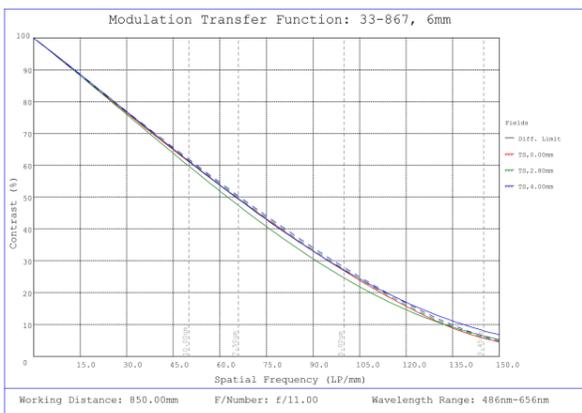
#33-867, 6mm, f/11 UCi Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



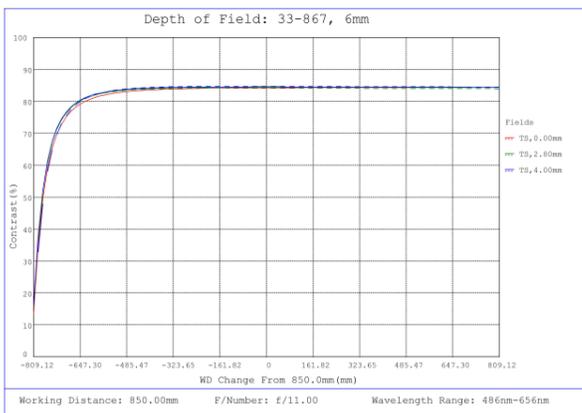
#33-867, 6mm, f/11 UCI Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 150mm Working Distance, f11



#33-867, 6mm, f/11 UCI Series Fixed Focal Length Lens, Depth of Field Plot, 150mm Working Distance, f11



#33-867, 6mm, f/11 UCI Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 850mm Working Distance, f11



#33-867, 6mm, f/11 UCI Series Fixed Focal Length Lens, Depth of Field Plot, 850mm Working Distance, f11

## Compatible Cameras