

[See all 49 Products in Family](#)

**TECHSPEC® 6mm, f/4 UCi Series Fixed Focal Length Lens**



6mm UCi Series Fixed Focal Length Lens



Stock #33-864 **2 In Stock**

⊖ 1 ⊕ MRP ₹23,440

Price inclusive of all taxes

**ADD TO CART**

Volume Pricing	
Qty 1+	₹23,440 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

UCi Series **Product Family:**

Fixed Focal Length Lens **Type:**

No **IR Cut Filter:**

## Physical & Mechanical Properties

Fixed	Iris Option:
47.30	Length (mm):
30.5	Maximum Diameter (mm):
30.5	Outer Diameter (mm):
52	Weight (g):
0	Maximum Rear Protrusion (mm):

## Optical Properties

Horizontal Field of View @ Max Sensor Format:  
72.8mm - 60.0°

Field of View at Max Sensor Format:  
Horizontal: 72.8mm - 60°  
Vertical: 52.7mm - 45.4°  
Diagonal: 95.5mm - 73.8°

Horizontal Field of View, 1/2" Sensor:  
72.8mm - 60.0°

Horizontal Field of View, 1/2.5" Sensor:  
65.0mm - 54.6°

Horizontal Field of View, 1/3" Sensor:  
52.7mm - 45.4°

Horizontal Field of View, 1/4" Sensor:  
38.7mm - 34.2°

Maximum Image Circle (mm):  
8.00

Numerical Aperture NA, Object Side:  
0.0117

Number of Elements (Groups):  
9 (8)

Focal Length FL (mm):  
6.00

Working Distance (mm):  
50 - ∞

Aperture (f#):  
f/4.0

Coating:  
M4 MgF<sub>2</sub>

Coating Specification:  
M4 MgF<sub>2</sub>

Entrance Pupil Position (mm):  
12.61

Object Space Principal Plane (mm):  
17.55

Image Space Principal Plane (mm):  
4.85

Maximum Distortion (%):  
-11.2

Exit Pupil Position (mm):  
-23.26

Lens Wavelength Range:  
VIS

## Sensor

Optimized Sensor Format:  
1/2.5"

Maximum Sensor Format:  
1/2"

Pixel Size (μm):  
1.85

## Threading & Mounting

Filter Thread:  
M30.5 x 0.50 (Male)

Mount:  
S-Mount (M12 x 0.5)

## Environmental & Durability Factors

Storage Temperature (°C):

**Type of Ruggedization:**  
Industrial (Fixed Aperture with Simplified Mechanics)

## Regulatory Compliance

**Certificate of Conformance:**  
[View](#)

**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 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:

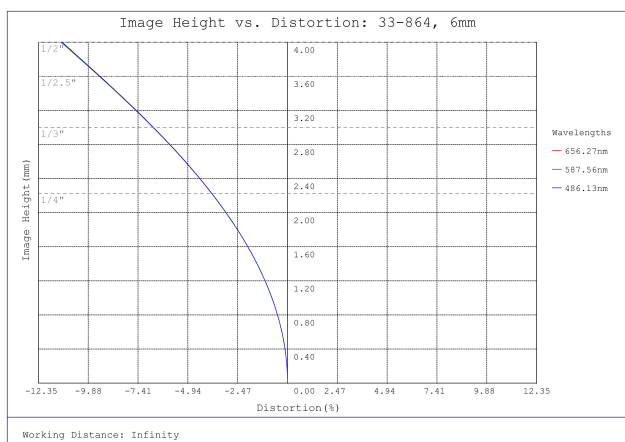
**UC Series:** Features locking cam focus and iris adjustment in an ultra-compact design and is the most adjustable version of these optical designs; they are the typical high-quality machine vision lenses.

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

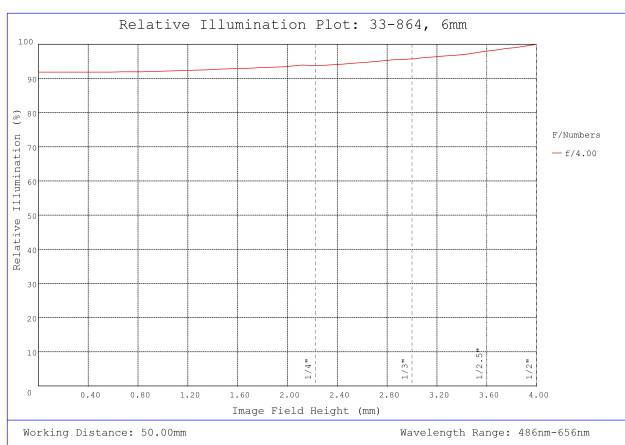
**UCr Series:** All optics glued in place and a locking C-clamp focus ring. [Stabilized Ruggedization](#) for reduced pixel shift and improved focus stability.

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

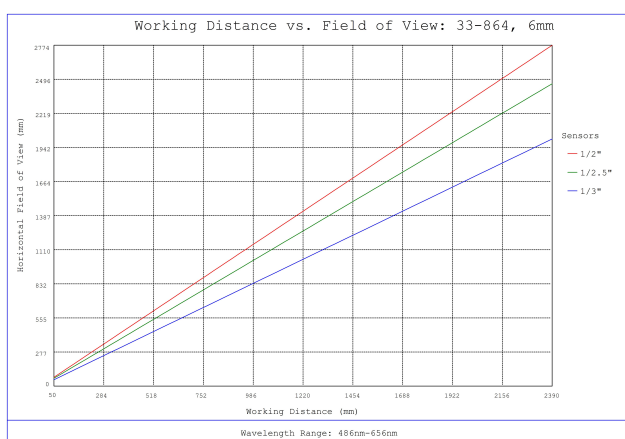
## Technical Information



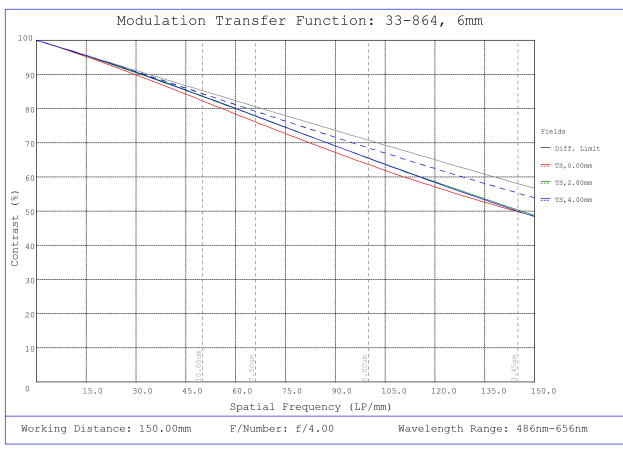
#33-864, 6mm, f/4 UCi Series Fixed Focal Length Lens, Distortion Plot



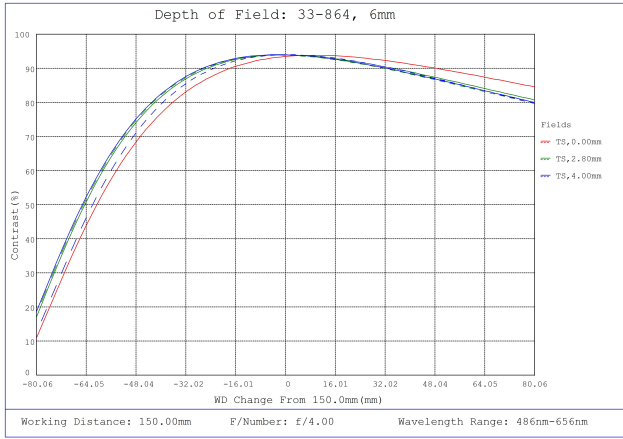
#33-864, 6mm, f/4 UCi Series Fixed Focal Length Lens, Relative Illumination Plot



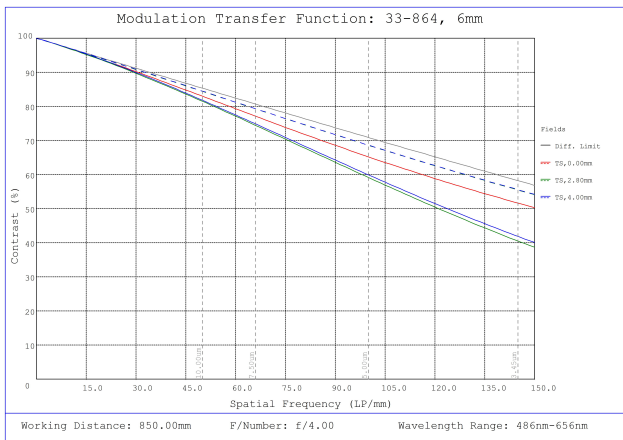
#33-864, 6mm, f/4 UCi Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



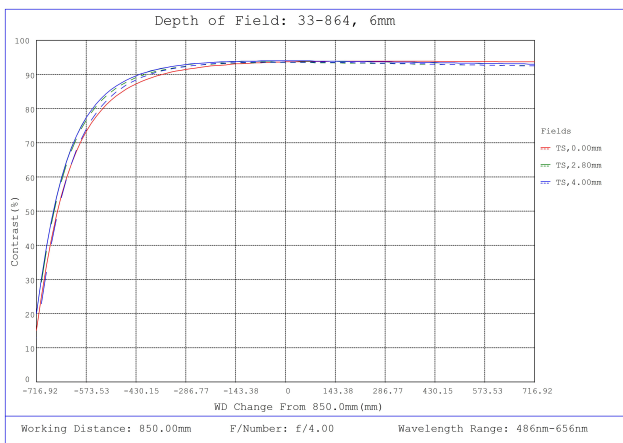
#33-864, 6mm, f/4 UCI Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 150mm Working Distance, f4



#33-864, 6mm, f/4 UCI Series Fixed Focal Length Lens, Depth of Field Plot, 150mm Working Distance, f4



#33-864, 6mm, f/4 UCI Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 850mm Working Distance, f4



#33-864, 6mm, f/4 UCI Series Fixed Focal Length Lens, Depth of Field Plot, 850mm Working Distance, f4

## Compatible Cameras