

TECHSPEC® 4mm, f/5.6 UCi Series Fixed Focal Length Lens



4mm UCi Series Fixed Focal Length Lens



Stock #33-858 **20+ In Stock**

− 1 + €235⁰⁰

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Qty 1+	€235,00 each
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SPECIFICATIONS

General

UCi Series **Series:**

Fixed Focal Length Lens **Type:**

No **IR Cut Filter:**

Physical & Mechanical Properties

Fixed **Iris Option:**

48.30 **Length (mm):**

40 **Maximum Diameter (mm):**

40 **Outer Diameter (mm):**

44 **Weight (g):**

0 **Maximum Rear Protrusion (mm):**

Optical Properties

Horizontal Field of View @ Max Sensor Format:
23.0mm - 84.8°

Field of View at Max Sensor Format:
Horizontal: 22.9mm - 84.8°
Vertical: 15.6mm - 65.4°
Diagonal: 33.6mm - 101.7°

Horizontal Field of View, 1/2" Sensor:
23.0mm - 84.8°

Horizontal Field of View, 1/2.5" Sensor:
20.0mm - 77.8°

Horizontal Field of View, 1/3" Sensor:
15.6mm - 65.4°

Horizontal Field of View, 1/4" Sensor:
11.2mm - 49.7°

8.00 **Maximum Image Circle (mm):**

0.0288 **Numerical Aperture NA, Object Side:**

8 (7) **Number of Elements (Groups):**

4.00 **Focal Length FL (mm):**

0 - ∞ **Working Distance (mm):**

f/5.6 **Aperture (f/#):**

N4 MgF₂ **Coating:**

N4 MgF₂ **Coating Specification:**

12.69 **Entrance Pupil Position (mm):**

16.04 **Object Space Principal Plane (mm):**

5.84 **Image Space Principal Plane (mm):**

-20.44 **Maximum Distortion (%):**

-12.68 **Exit Pupil Position (mm):**

VS **Lens Wavelength Range:**

Sensor

1/2.5" **Optimized Sensor Format:**

1/2" **Maximum Sensor Format:**

1.85 **Pixel Size (μm):**

Threading & Mounting

M62 x 0.75 (Male) **Filter Thread:**

Filter Thread Adapter:

S-Mount (M12 x 0.5) **Mount:**

Environmental & Durability Factors

Storage Temperature (°C):
-20 to +60

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

Regulatory Compliance

Certificate of Conformance:
[View](#)

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:

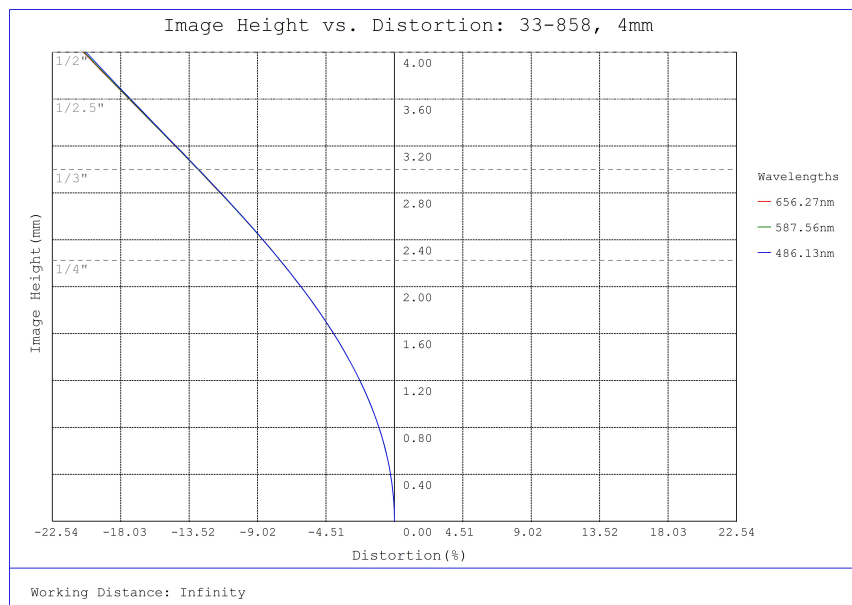
UC Series: Features locking cam focus and iris adjustment in an ultra-compact design and is the most adjustable version of these optical designs; they are the typical high-quality machine vision lenses.

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

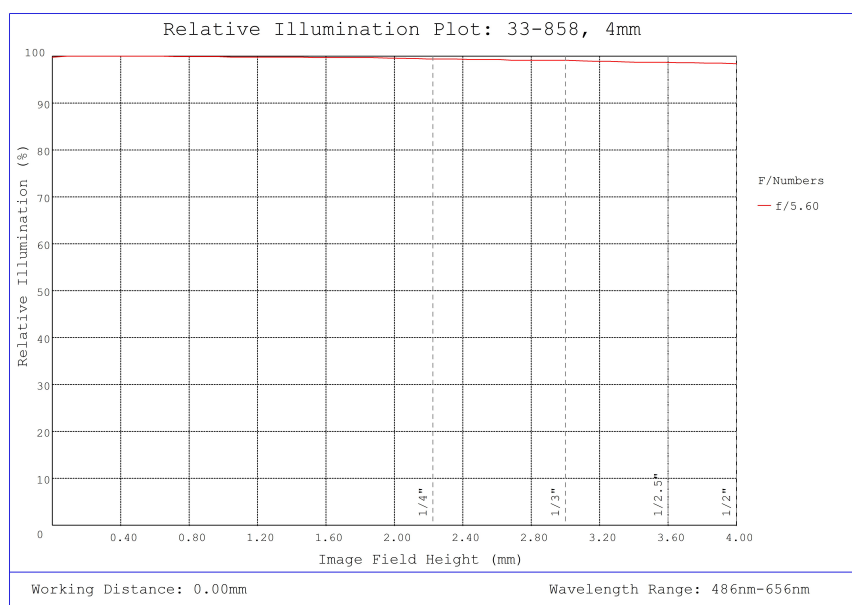
UCr Series: All optics glued in place and a locking C-clamp focus ring. [Stabilized Ruggedization](#) for reduced pixel shift and improved focus stability.

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

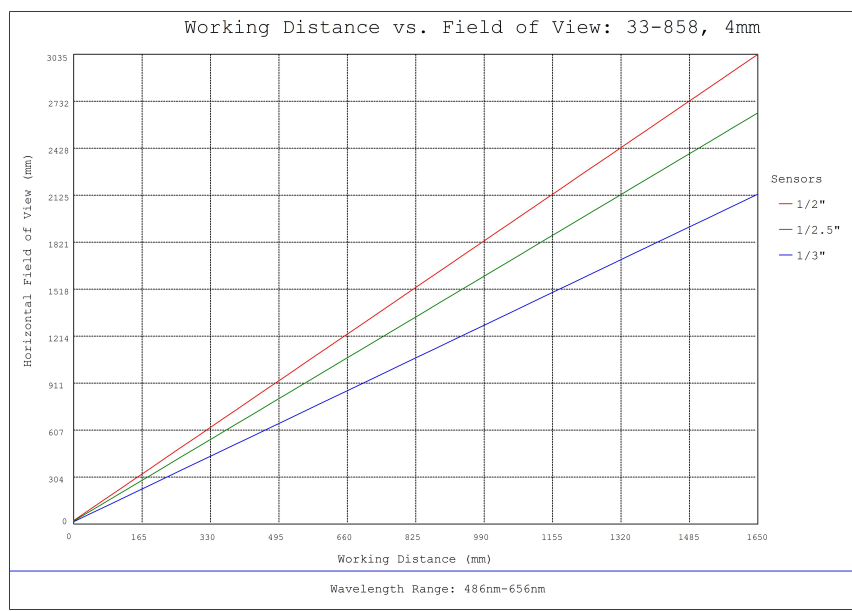
TECHNICAL INFORMATION



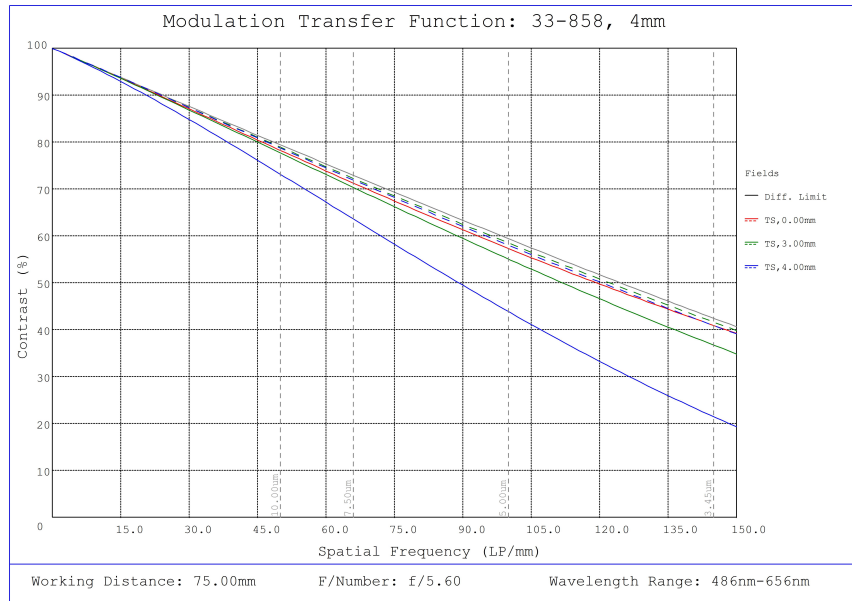
#33-858, 4mm, f/5.6 UCi Series Fixed Focal Length Lens, Distortion Plot



#33-858, 4mm, f/5.6 UCi Series Fixed Focal Length Lens, Relative Illumination Plot



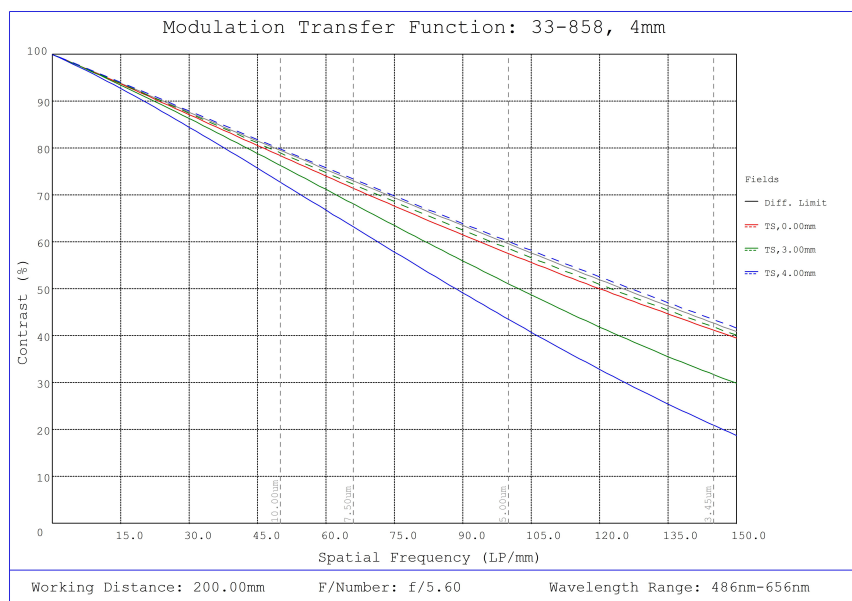
#33-858, 4mm, f/5.6 UCI Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



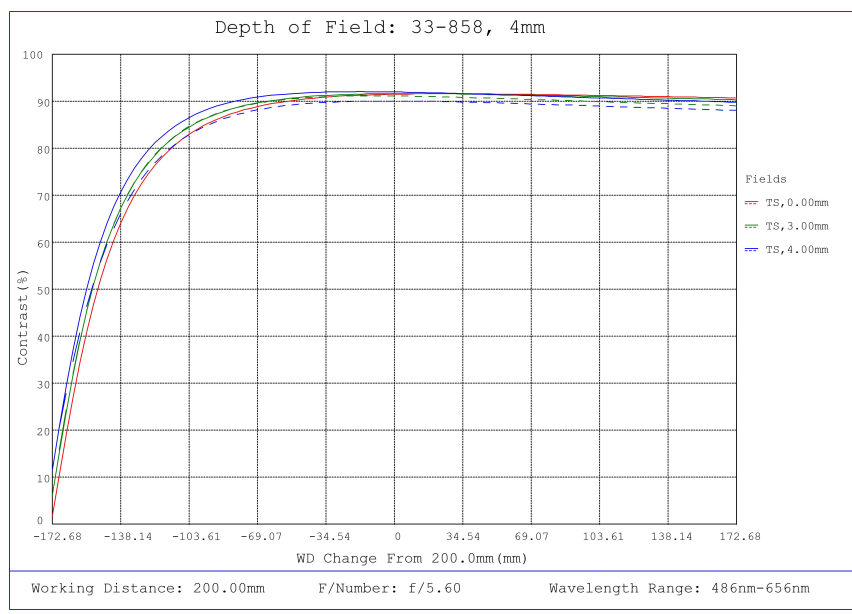
#33-858, 4mm, f/5.6 UCI Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 75mm Working Distance, f5.6



#33-858, 4mm, f/5.6 UCI Series Fixed Focal Length Lens, Depth of Field Plot, 75mm Working Distance, f5.6



#33-858, 4mm, f/5.6 UCI Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 200mm Working Distance, f5.6



#33-858, 4mm, f/5.6 UCi Series Fixed Focal Length Lens, Depth of Field Plot, 200mm Working Distance, f5.6

COMPATIBLE CAMERAS