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TECHSPEC® 6mm, f/5.6 UCi Series Fixed Focal Length Lens

6mm UCi Series Fixed Focal Length Lens

Stock **#33-865** **20+ In Stock**

- 1 + **A$341.00**

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Volume Pricing	
Qty 1+	**A$341.00** each
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General

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

Physical & Mechanical Properties

Iris Option:
Fixed

Length (mm):
47.30

Maximum Diameter (mm):
30.5

Outer Diameter (mm):
30.5

Weight (g):
52

Maximum Rear Protrusion (mm):
0

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:
0.0084

Number of Elements (Groups):
9 (8)

Focal Length FL (mm):
6.00

Working Distance (mm):
50 - ∞

Aperture (f/#):
f/5.6

Coating:
λ/4 MgF_2

Coating Specification:
λ/4 MgF_2

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):
-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 ≤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:

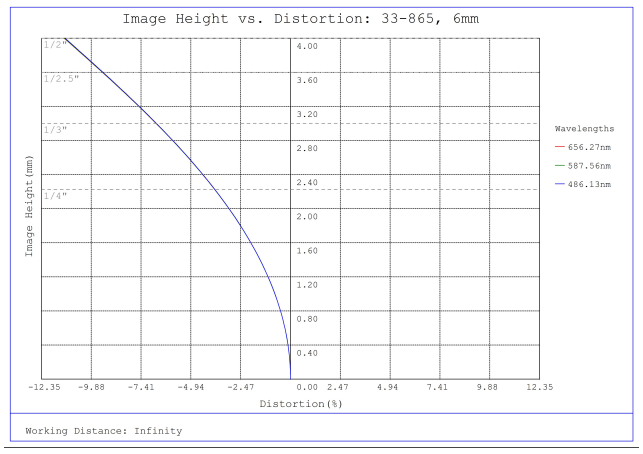
UC Series: Features locking cam focus and iris adjustment in an ultra-compact design and is the most adjustable version of these optical designs; they are the typical high-quality machine vision lenses.

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

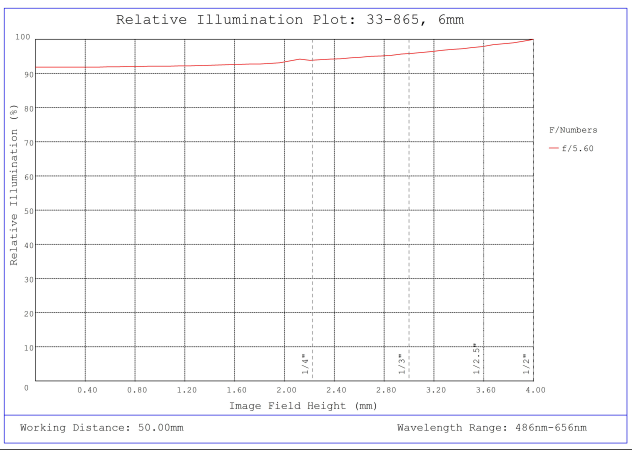
UCr Series: All optics glued in place and a locking C-clamp focus ring. **Stabilized Ruggedization** for reduced pixel shift and improved focus stability.

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

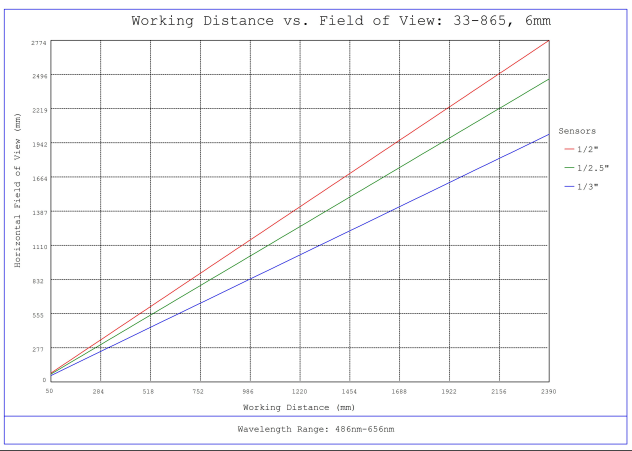
Technical Information



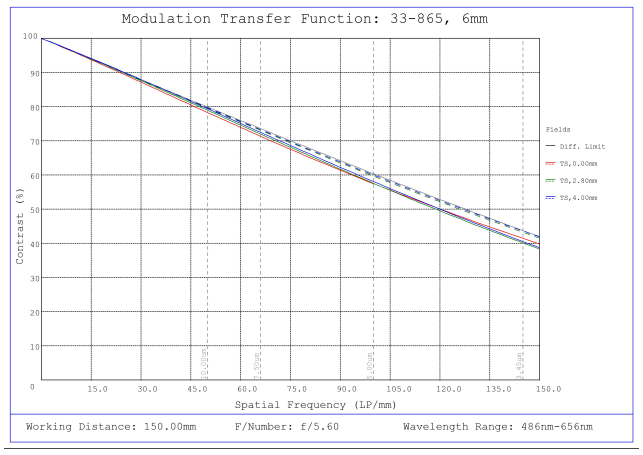
#33-865, 6mm, f/5.6 UCi Series Fixed Focal Length Lens, Distortion Plot



#33-865, 6mm, f/5.6 UCi Series Fixed Focal Length Lens, Relative Illumination Plot

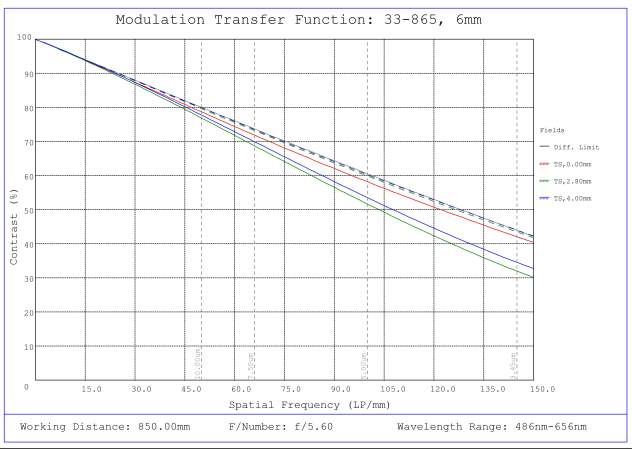


#33-865, 6mm, f/5.6 UCi Series Fixed Focal Length Lens, Working Distance versus Field of View Plot

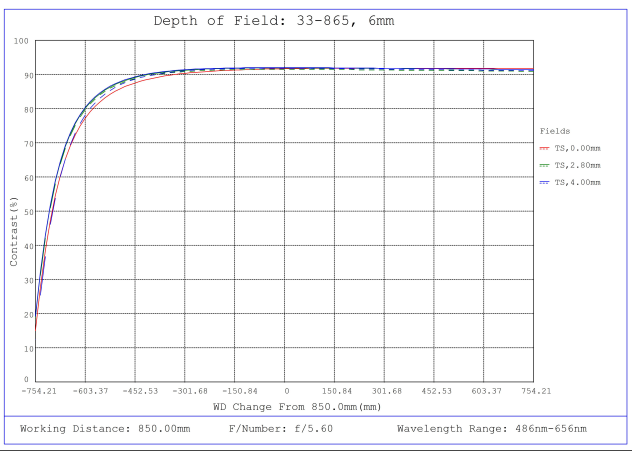


#33-865, 6mm, f/5.6 UCi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 150mm Working Distance, f5.6

#33-865, 6mm, f/5.6 UCi Series Fixed Focal Length Lens, Depth of Field Plot, 150mm Working Distance, f5.6



#33-865, 6mm, f/5.6 UCi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 850mm Working Distance, f5.6



#33-865, 6mm, f/5.6 UCi Series Fixed Focal Length Lens, Depth of Field Plot, 850mm Working Distance, f5.6

Compatible Cameras

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