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TECHSPEC[®]

35mm f/1.85, UCi Series Fixed Focal Length Lens



35mm UCi Series Fixed Focal Length Lens



Stock #33-897 13 In Stock

-

1

+

€250^{.00}

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Volume Pricing	
Qty 1+	€250,00 each
Need More?	Request Quote

i Prices shown are exclusive of VAT/local taxes

Product Downloads

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

Imaging Lens Type:
High Performance Lens with Compact Form Factor
and Fixed Aperture

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: 45.6mm - 11.9°	
Field of View at Max Sensor Format: Horizontal: 45.6mm - 11.9° Vertical: 34.1mm - 8.9° Diagonal: 57.2mm - 14.9°	
Horizontal Field of View, 1/1.8" Sensor: 45.6mm - 11.9°	
Horizontal Field of View, 1/2" Sensor: 40.5mm - 10.6°	
Horizontal Field of View, 1/2.5" Sensor: 36.7mm - 9.6°	
Horizontal Field of View, 1/3" Sensor: 30.3mm - 7.9°	
Horizontal Field of View, 1/4" Sensor: 22.7mm - 6.0°	
9.00	Maximum Image Circle (mm):
Numerical Aperture NA, Object Side: 0.0394	
7 (5)	Number of Elements (Groups):
Focal Length FL (mm): 35.00	
Working Distance (mm): 200 - ∞	
f/1.85	Aperture (f/#):
N/4 MgF ₂	Coating:
Coating Specification: N/4 MgF ₂	
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):
Lens Wavelength Range: VIS	

Sensor

1/2.5"	Optimized Sensor Format:
1/1.8"	Maximum Sensor Format:
1.85	Pixel Size (µm):

Threading & Mounting

N/A	Filter Thread:
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C-Mount

Mount:

Environmental & Durability Factors

-20 to +60

Storage Temperature (°C):

Type of Ruggedization:

Industrial (Fixed Aperture with Simplified Mechanics)

Regulatory Compliance

View

Certificate of Conformance:

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:

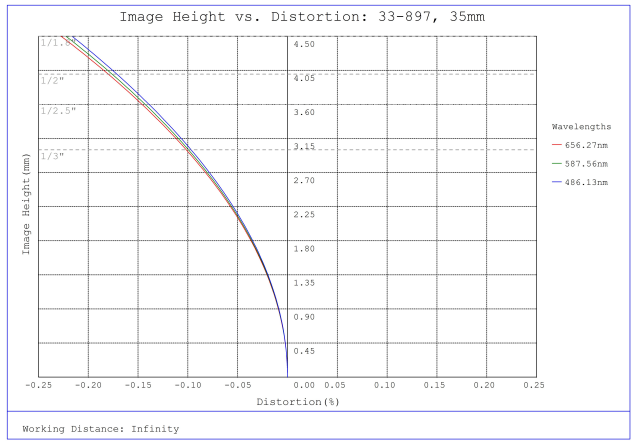
UC Series: Features locking cam focus and iris adjustment in an ultra-compact design and is the most adjustable version of these optical designs; they are the typical high-quality machine vision lenses.

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

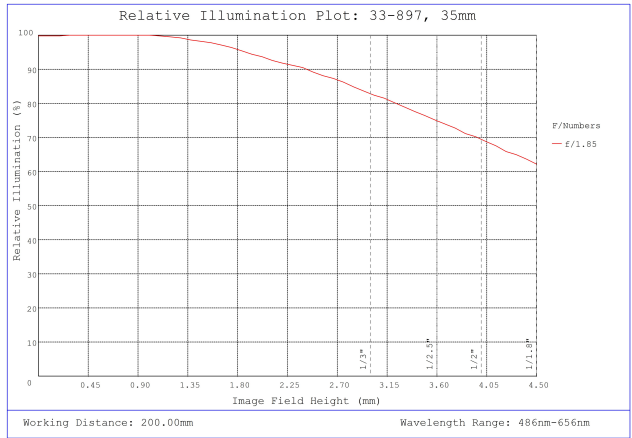
UCr Series: All optics glued in place and a locking C-clamp focus ring. [Stabilized Ruggedization](#) for reduced pixel shift and improved focus stability.

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

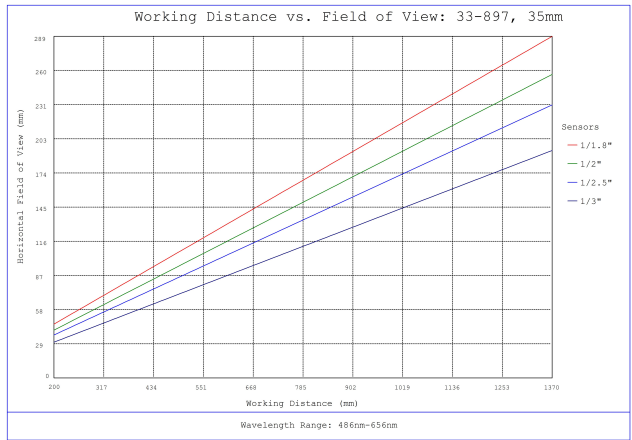
Technical Information



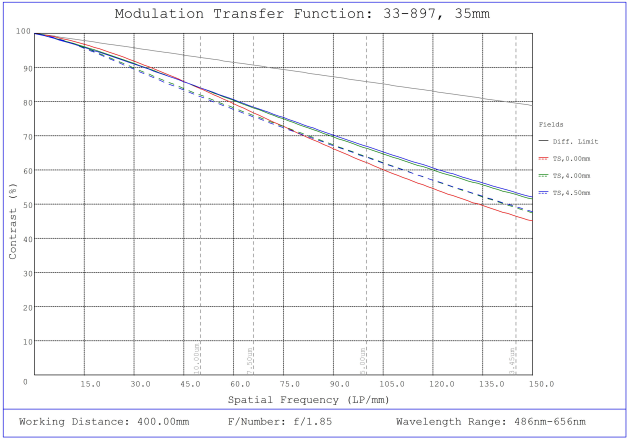
#33-897, 35mm f/1.85, UCi Series Fixed Focal Length Lens, Distortion Plot



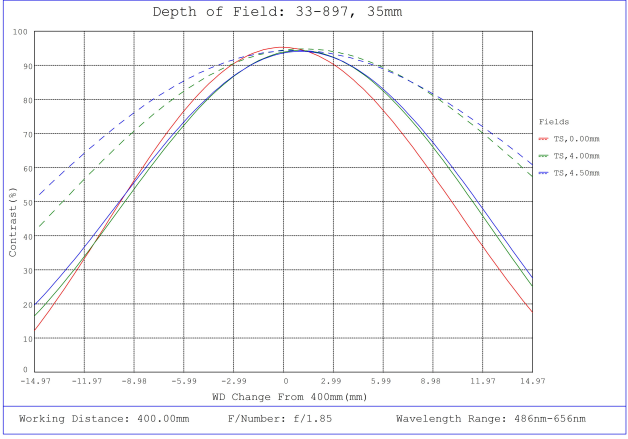
#33-897, 35mm f/1.85, UCi Series Fixed Focal Length Lens, Relative Illumination Plot



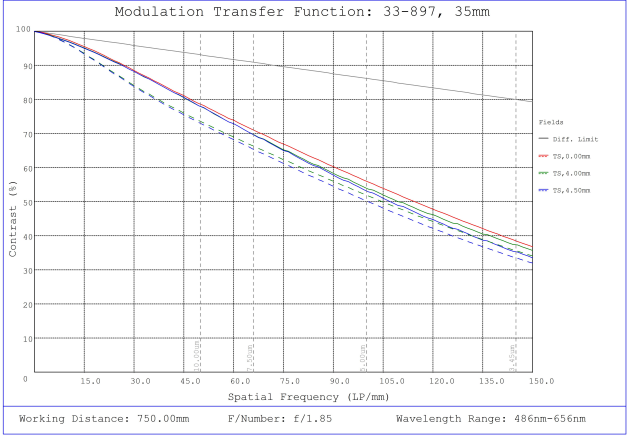
#33-897, 35mm f/1.85, UCi Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



#33-897, 35mm f/1.85, UCi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 400mm Working Distance, f1.8



#33-897, 35mm f/1.85, UCi Series Fixed Focal Length Lens, Depth of Field Plot, 400mm Working Distance, f1.8



#33-897, 35mm f/1.85, UCi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 750mm Working Distance, f1.8



#33-897, 35mm f/1.85, UCi Series Fixed Focal Length Lens, Depth of Field Plot, 750mm Working Distance, f1.8

Compatible Cameras