

**TECHSPEC® 16mm, f/4 UCi Series Fixed Focal Length Lens**



16mm UCi Series Fixed Focal Length Lens



Stock #33-885 **1 In Stock**

− 1 + €235<sup>00</sup>

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**General**

UCi Series **Product Family:**

Fixed Focal Length Lens **Type:**

No **IR Cut Filter:**

## Physical & Mechanical Properties

Fixed Iris Option:

26.70 Length (mm):

18 Maximum Diameter (mm):

25 Outer Diameter (mm):

13 Weight (g):

0 Maximum Rear Protrusion (mm):

25.5 Maximum Length (mm):

## Optical Properties

Horizontal Field of View @ Max Sensor Format:  
98.5mm - 25.3°

Field of View at Max Sensor Format:  
Horizontal: 93.6mm - 25.3°  
Vertical: 70.2mm - 19.1°  
Diagonal: 117mm - 31.3°

Horizontal Field of View, 1/1.8" Sensor:  
93.6mm - 25.3°

Horizontal Field of View, 1/2" Sensor:  
83.2mm - 22.5°

Horizontal Field of View, 1/2.5" Sensor:  
75.4mm - 20.5°

Horizontal Field of View, 1/3" Sensor:  
62.4mm - 17.0°

Horizontal Field of View, 1/4" Sensor:  
46.8mm - 12.8°

9.00 Maximum Image Circle (mm):

0.0093 Numerical Aperture NA, Object Side:

7 (5) Number of Elements (Groups):

16.00 Focal Length FL (mm):

200 - ∞ Working Distance (mm):

f/4.0 Aperture (f/#):

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

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

10.68 Entrance Pupil Position (mm):

20.18 Object Space Principal Plane (mm):

-6.67 Image Space Principal Plane (mm):

-0.53 Maximum Distortion (%):

-29.94 Exit Pupil Position (mm):

VIS Lens Wavelength Range:

## Sensor

1/2.5" Optimized Sensor Format:

1/1.8" Maximum Sensor Format:

1.85 Pixel Size (μm):

## Threading & Mounting

M18 x 0.50 (Male) Filter Thread:

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

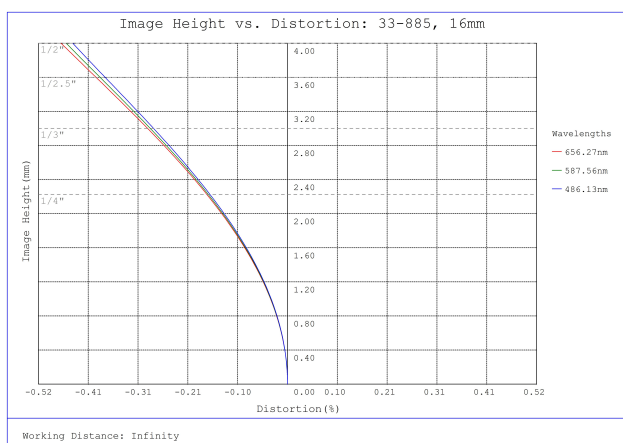
**UC Series:** Features locking cam focus and iris adjustment in an ultra-compact design and is the most adjustable version of these optical designs; they are the typical high-quality machine vision lenses.

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

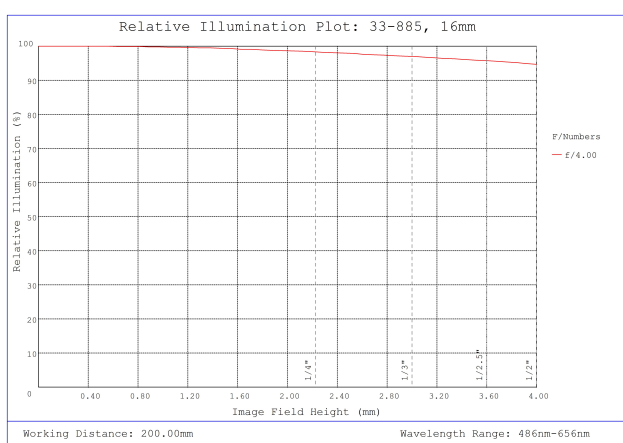
**UCr Series:** All optics glued in place and a locking C-clamp focus ring. [Stabilized Ruggedization](#) for reduced pixel shift and improved focus stability.

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

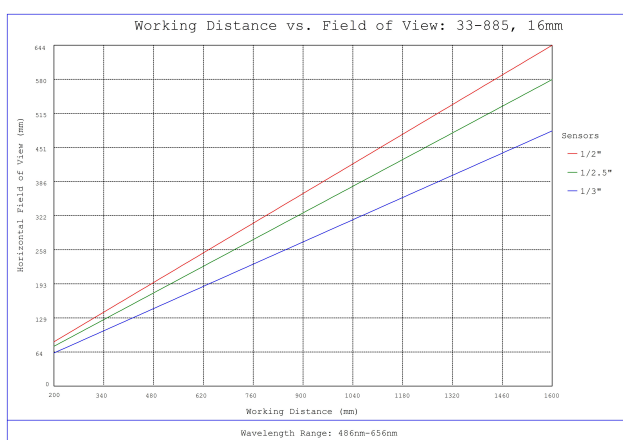
## Technical Information



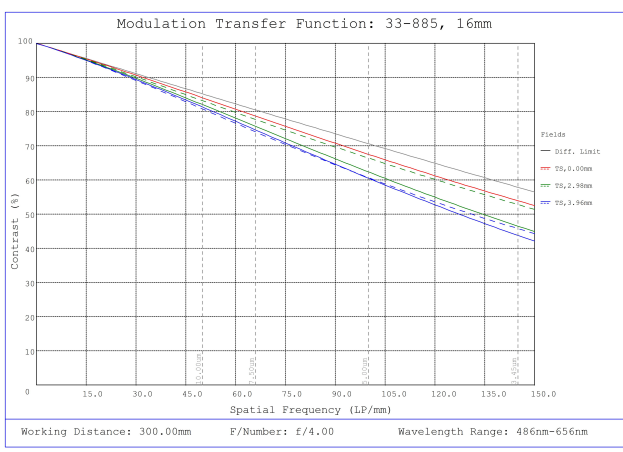
#33-885, 16mm, f/4 UCi Series Fixed Focal Length Lens, Distortion Plot



#33-885, 16mm, f/4 UCi Series Fixed Focal Length Lens, Relative Illumination Plot



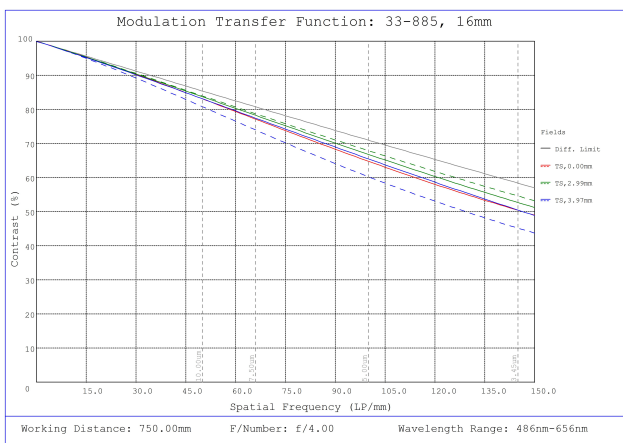
#33-885, 16mm, f/4 UCi Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



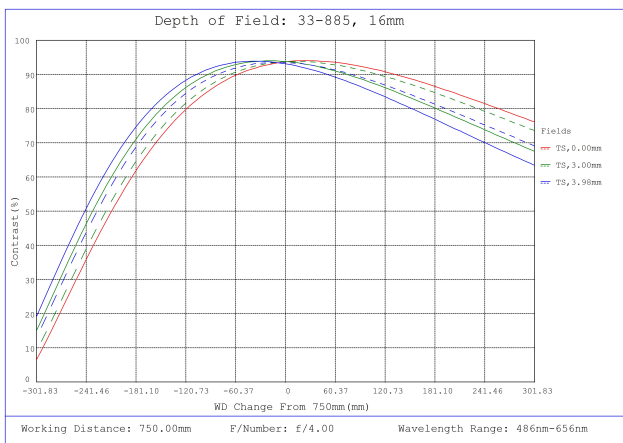
#33-885, 16mm, f/4 UCI Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 300mm Working Distance, f4



#33-885, 16mm, f/4 UCI Series Fixed Focal Length Lens, Depth of Field Plot, 300mm Working Distance, f4



#33-885, 16mm, f/4 UCI Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 750mm Working Distance, f4



#33-885, 16mm, f/4 UCI Series Fixed Focal Length Lens, Depth of Field Plot, 750mm Working Distance, f4

## Compatible Cameras