

TECHSPEC[®] 16mm, f/8 UCi Series Fixed Focal Length Lens



16mm UCi Series Fixed Focal Length Lens



Stock **#33-887** 20+ In Stock

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1

+

C\$378⁰⁰

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Volume Pricing	
Qty 1+	C\$378.00 each
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Product Downloads

General	
UCi Series	Series:
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°
	Maximum Image Circle (mm): 9.00
0.0047	Numerical Aperture NA, Object Side:
	Number of Elements (Groups): 7 (5)
16.00	Focal Length FL (mm):
	Working Distance (mm): 200 - ∞
f/8.0	Aperture (f/#):
	Coating: λ/4 MgF ₂
λ/4 MgF ₂	Coating Specification:
	Entrance Pupil Position (mm): 10.68
20.18	Object Space Principal Plane (mm):
	Image Space Principal Plane (mm): -6.67
-0.53	Maximum Distortion (%):
	Exit Pupil Position (mm): -29.94
VIS	Lens Wavelength Range:

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

Threading & Mounting	
M18 x0.50 (Male)	Filter Thread:
	Mount: S-Mount (M12 x0.5)

Environmental & Durability Factors

Storage Temperature (°C):	-20 to +60
Type of Ruggedization:	Industrial (Fixed Aperture with Simplified Mechanics)

Regulatory Compliance

Certificate of Conformance:	View
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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:

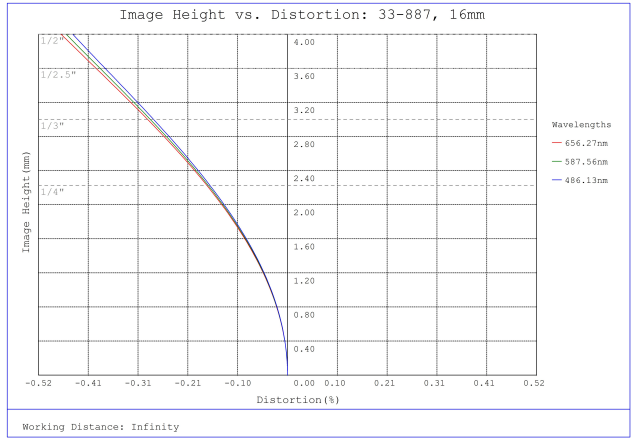
UC Series: Features locking cam focus and iris adjustment in an ultra-compact design and is the most adjustable version of these optical designs; they are the typical high-quality machine vision lenses.

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

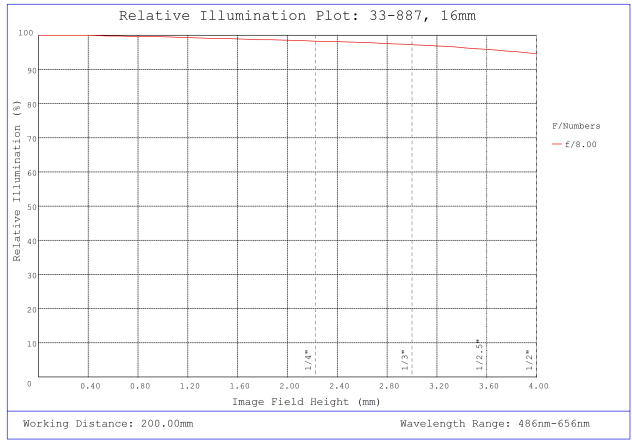
UCr Series: All optics glued in place and a locking C-clamp focus ring. [Stabilized Ruggedization](#) for reduced pixel shift and improved focus stability.

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

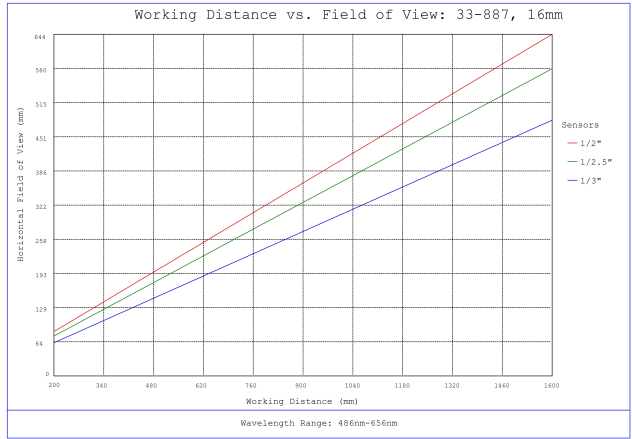
Technical Information



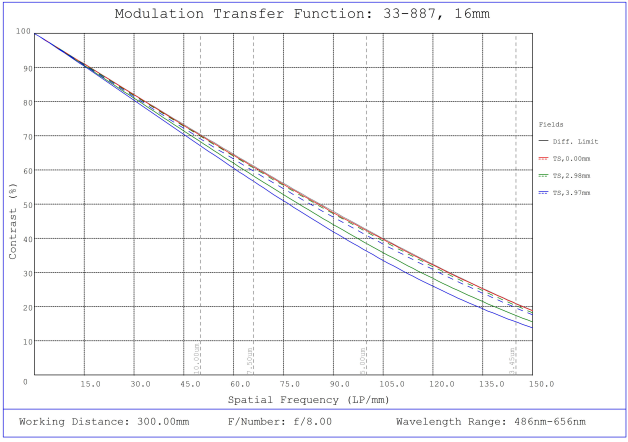
#33-887, 16mm, f/8 UCi Series Fixed Focal Length Lens, Distortion Plot



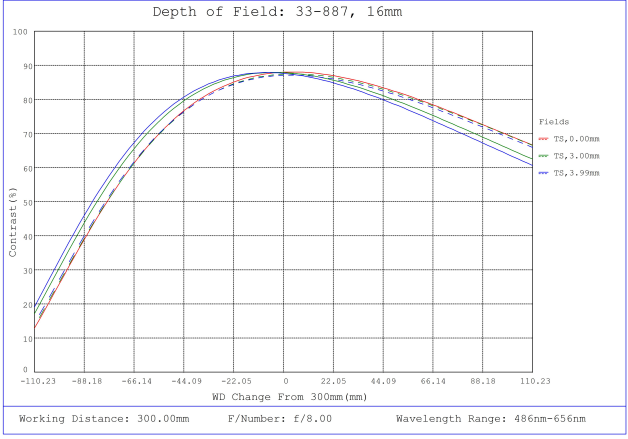
#33-887, 16mm, f/8 UCi Series Fixed Focal Length Lens, Relative Illumination Plot



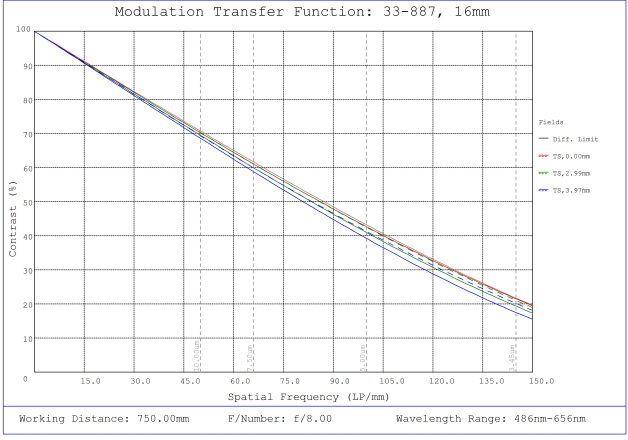
#33-887, 16mm, f/8 UCi Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



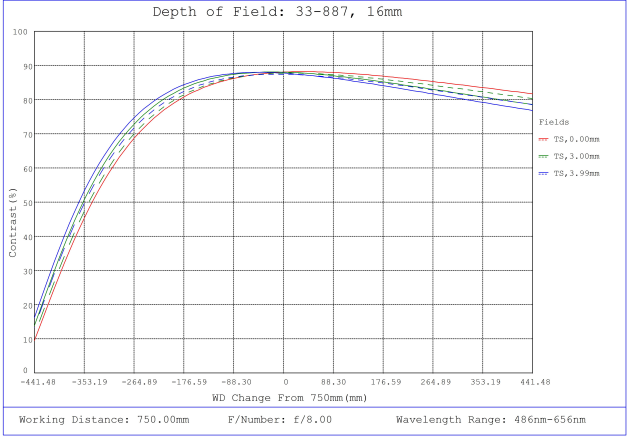
#33-887, 16mm, f/8 UCi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 300mm Working Distance, f8



#33-887, 16mm, f/8 UCi Series Fixed Focal Length Lens, Depth of Field Plot, 300mm Working Distance, f8



#33-887, 16mm, f/8 UCi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 750mm Working Distance, f8



#33-887, 16mm, f/8 UCi Series Fixed Focal Length Lens, Depth of Field Plot, 750mm Working Distance, f8

Compatible Cameras