

TECHSPEC® 3.5mm, f/11 Cr Series Fixed Focal Length Lens

#37-397



3.5mm Cr Series Fixed Focal Length Lens

TECHSPEC® Compact Ruggedized (Cr) Series Fixed Focal Length Lenses provide Stabilized Ruggedization, protecting the lens from damage while maintaining optical pointing and positioning after shock and vibration. All individual lens elements are glued in place to reduce object shift on the image. In addition, these lenses feature robust mechanics with a simplified focus and stainless steel locking C-Mount clamp. TECHSPEC® Cr Series Fixed Focal Length Lenses are ideal for calibrated imaging systems such as measurement and gauging, 3D stereo vision, robotics and sensing, autonomous vehicles, and object tracking. The object to image mapping is maintained even after heavy shock and vibration; if the center of the object maps onto the center pixel, it will always map to that same center pixel.

These lenses won the [1st place 2018 Inspect Award](#) and the [Silver Level 2018 Innovators Award](#).

Note: To learn more about ruggedization, visit our [Ruggedization Resource Webpage](#).

Front Thread:	M50.0 x 0.5 (Male)
Diameter (mm):	33.80
Coating:	425 - 675nm BBAR
Storage Temperature (°C):	-20 to +60 For questions regarding operating temperature please contact our support team

Optical

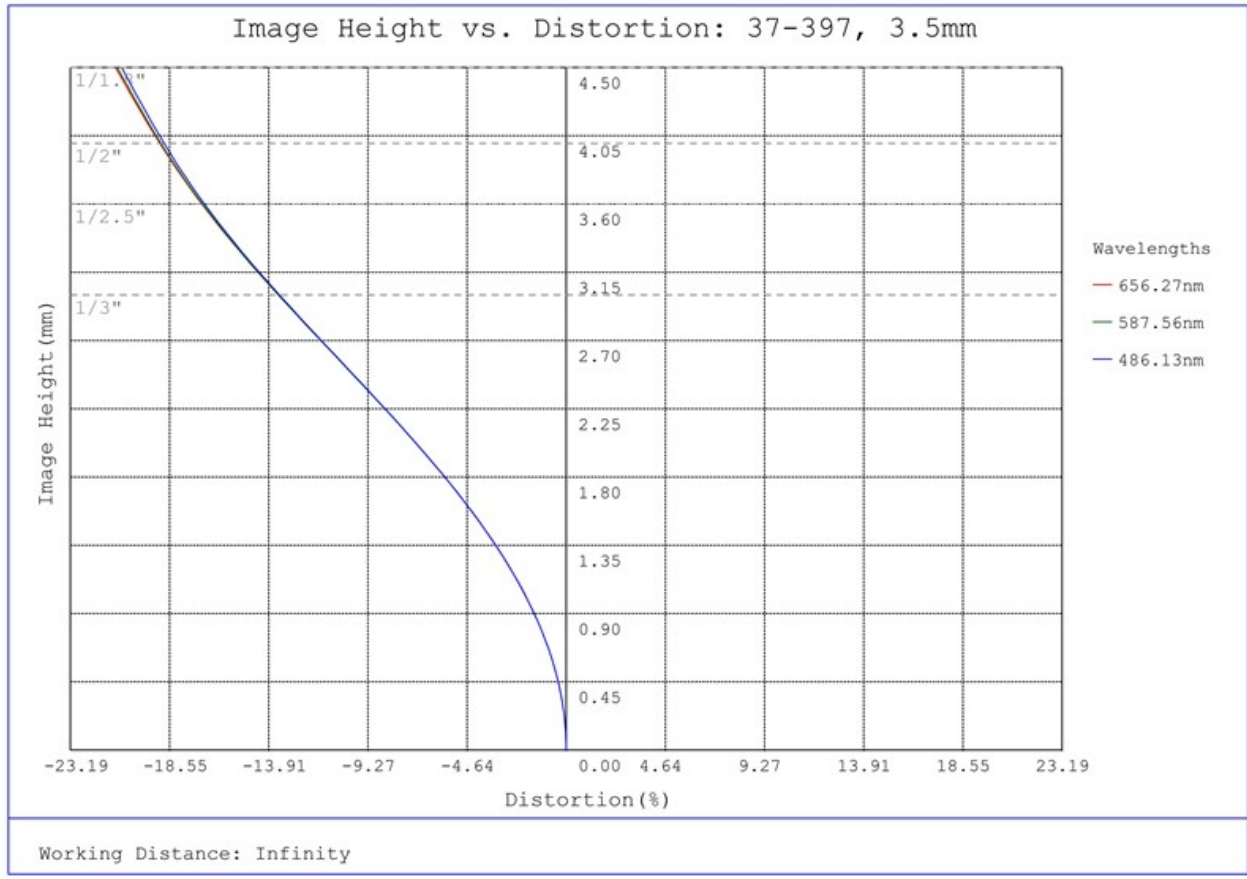
Horizontal Field of View, 1/2" Sensor:	29.5mm - 87.2°
Horizontal Field of View, 1/3" Sensor:	23.0mm - 74.4°
Maximum Image Circle (mm):	9.00
Horizontal Field of View @ Max Sensor Format:	41.2mm - 102.8°
Horizontal Field of View, 1/1.8" Sensor:	41.2mm - 102.8°
Focal Length FL (mm):	3.50
Maximum Sensor Format:	1/1.8"
Working Distance (mm):	0 - ∞
Aperture (f/#):	f/11
Horizontal Field of View, 1/4" Sensor:	16.3mm - 57.4°
Lens Wavelength Range:	VIS

Mechanical

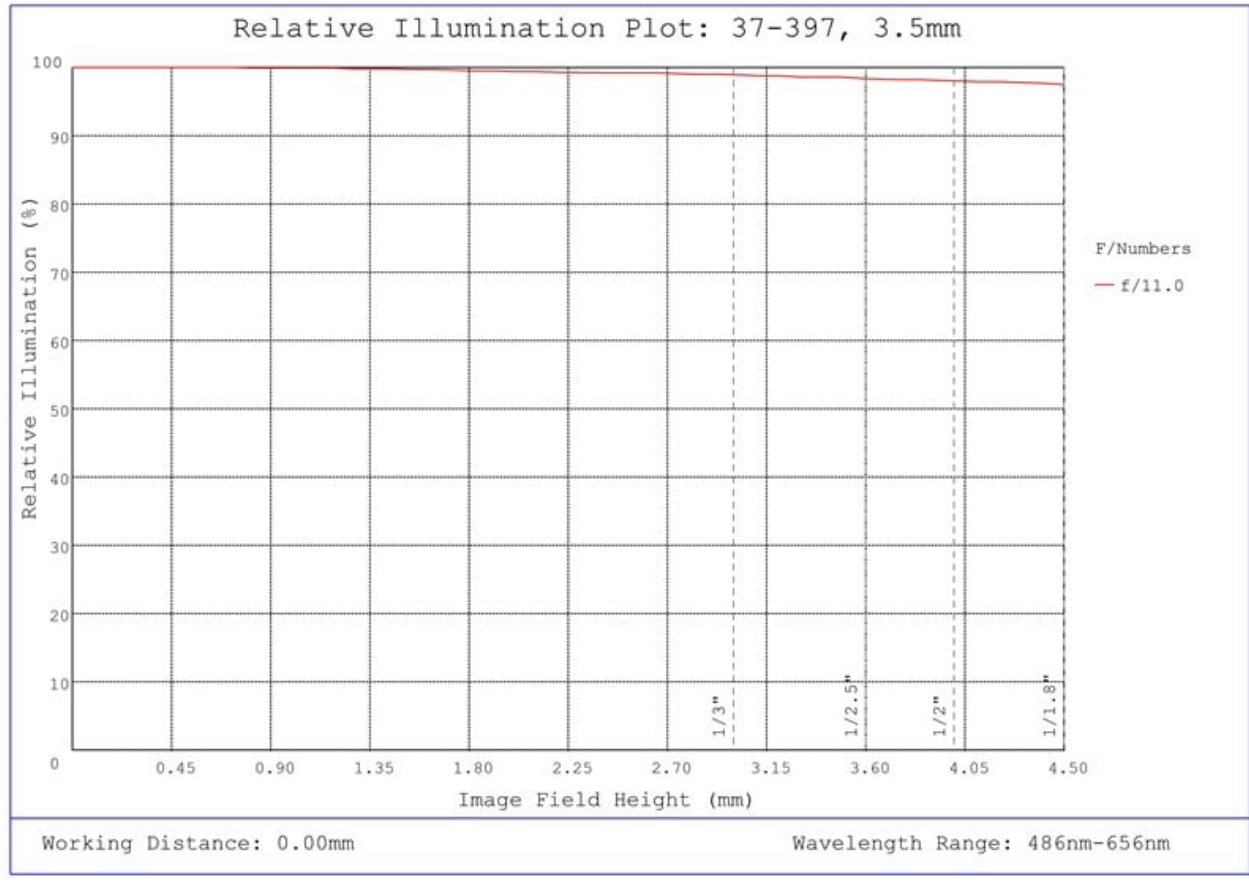
Iris Option:	Fixed
Length (mm):	39.01
Filter Thread:	M105 x 1.00 with required adapter #89-848
Weight (g):	120
Number of Elements (Groups):	8 (7)
Mount:	C-Mount

General

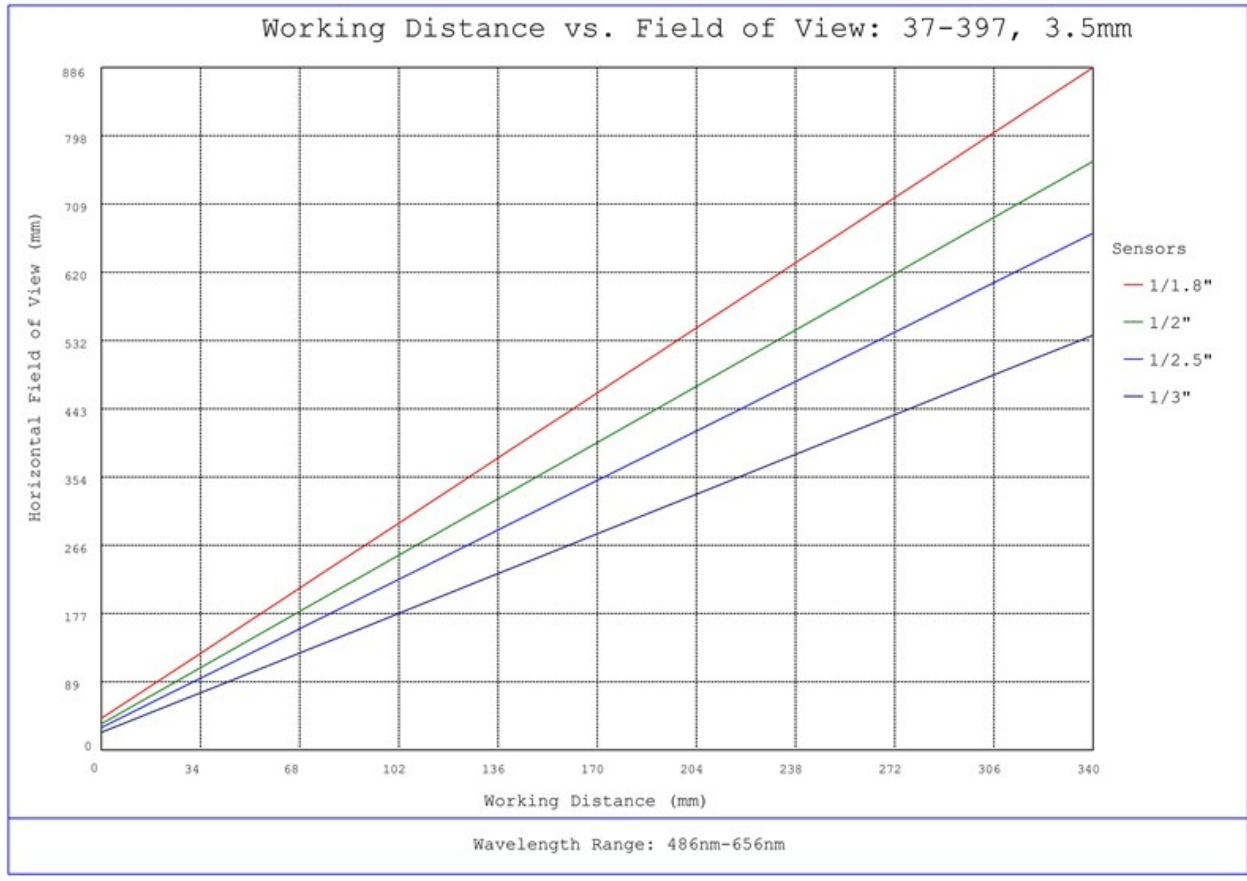
Type:	Fixed Focal Length Lens
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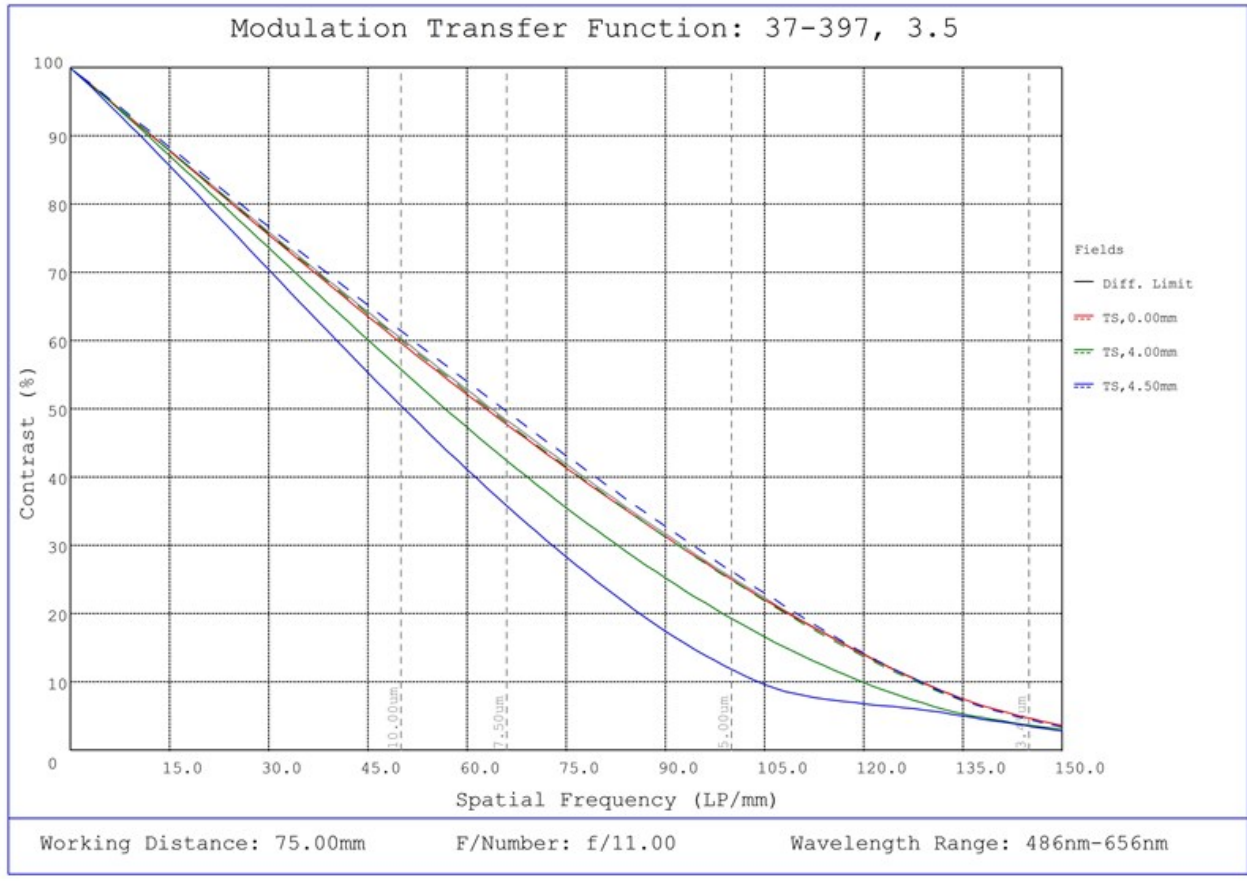
#37-397, 3.5mm, f/11 Cr Series Fixed Focal Length Lens, Distortion Plot



#37-397, 3.5mm, f/11 Cr Series Fixed Focal Length Lens, Relative Illumination Plot



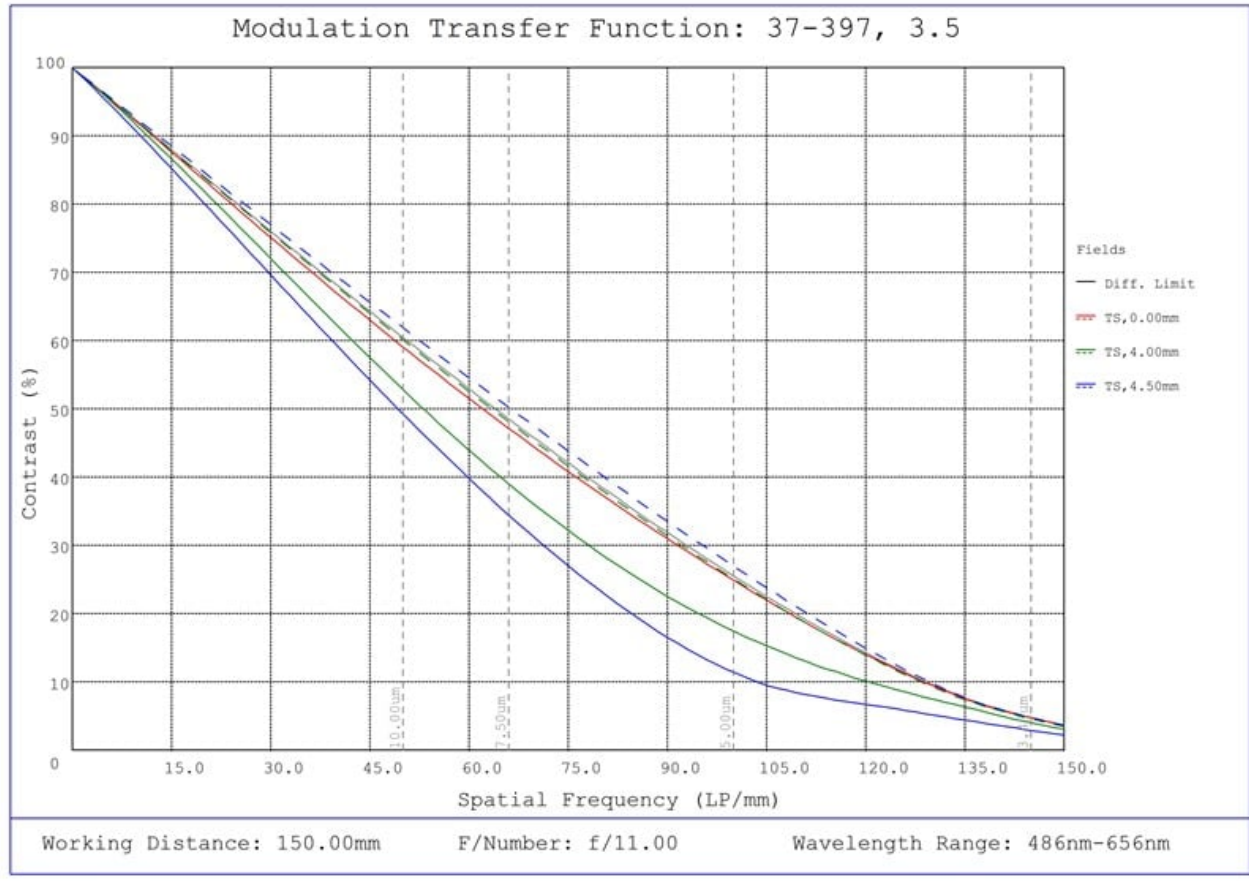
#37-397, 3.5mm, f/11 Cr Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



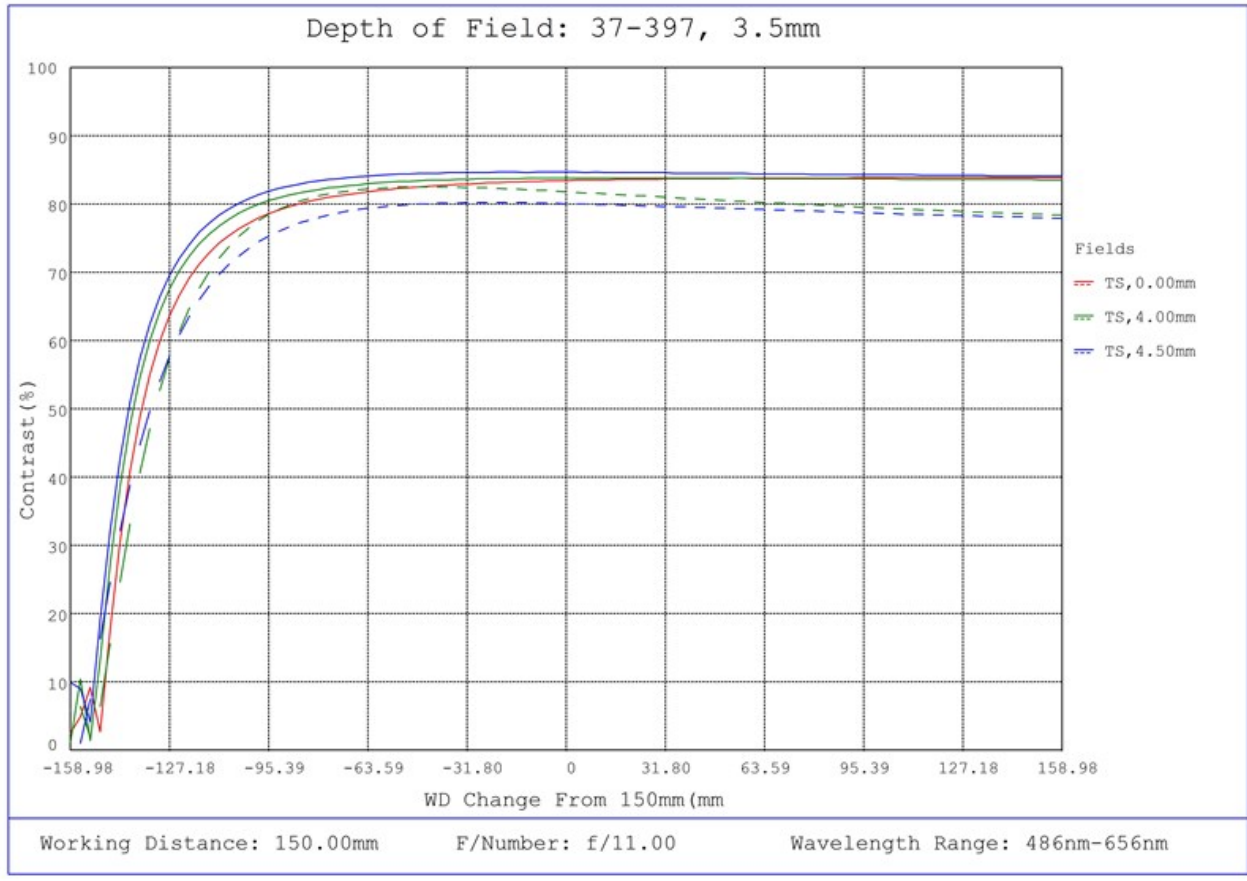
#37-397, 3.5mm, f/11 Cr Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 75mm Working Distance, f11



#37-397, 3.5mm, f/11 Cr Series Fixed Focal Length Lens, Depth of Field Plot, 75mm Working Distance, f11



#37-397, 3.5mm, f/11 Cr Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 150mm Working Distance, f11



#37-397, 3.5mm, f/11 Cr Series Fixed Focal Length Lens, Depth of Field Plot, 150mm Working Distance, f11



October 01, 2023

To Whom It May Concern,

This document certifies that the product stated below has been reviewed as requested by Edmund Optics:

<i>Stock No.</i>	<i>Description</i>
37-397	3.5mm, f/11 Cr Series Fixed Focal Length Lens

This item is EU RoHS (2011/65/EU) compliant without the use of exemptions.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.



Jay Budd, Director of Corporate Compliance
October 01, 2023

Edmund Optics Inc. - 101 E Gloucester Pike, Barrington, NJ 08007 | 1-800-363-1992 | Compliance@edmundoptics.com



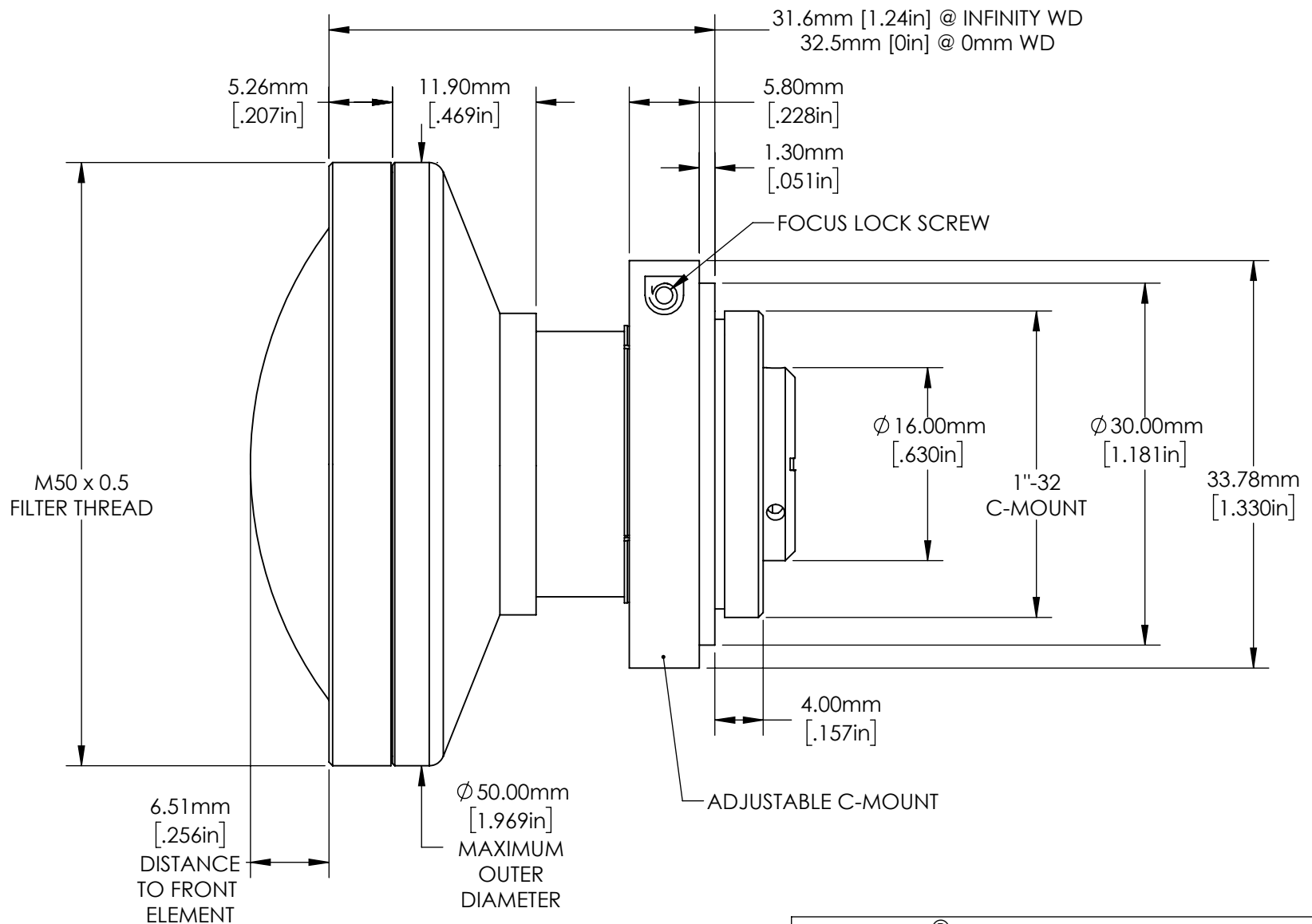
October 01, 2023

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Edmund Optics certifies that all articles included in this shipment are in compliance with the terms and conditions of this order. The company also certifies that the articles included in this shipment are in accordance to all agreed upon specifications and quality assurance provisions. Please call 1-800-363-1992 should any questions arise from this shipment.



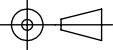
Jeff Harvey- EVP of Operations



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THIRD ANGLE PROJECTION 		TITLE	3.5mm, f/11 Cr Series Fixed Focal Length Lens	
ALL DIMS IN	mm	DWG NO	37397	SHEET 1 OF 1