

**TECHSPEC® 0.367X CobaltTL Telecentric Lens**

#88-602



0.367X Magnification

TECHSPEC® CobaltTL Telecentric Lenses are designed for semiconductor and electronics inspection, measurement, and gauging applications. These telecentric lenses achieve high light throughput with industry leading low  $f/\#$ s. Featuring less than  $0.015^\circ$  telecentricity and low 0.013% distortion, these lenses are ideal for image stitching applications. These 17.6mm diagonal sensor format lenses are compatible with the Sony IMX304 1.1" sensors and other similar format sensors such as the Sony IMX183. TECHSPEC® CobaltTL Telecentric Lenses produce unparalleled levels of contrast yielding maximum image quality with the highest degree of measurement accuracy. In-line versions provide the ability to rotate/reposition the inline illumination port to allow for maximum flexibility when machine building. TECHSPEC® CobaltTL Telecentric Lenses are compatible with high vibration environments and feature a removable recessed set screw for securely locking the iris in place.

Flange Distance (mm):	17.5
Coating:	425 - 675nm BBAR
Depth of Field (mm):	±7.92mm at f/10 (20% @ 20 lp/mm)

## Optical

Horizontal Field of View, 1/2" Sensor:	21.82mm
Horizontal Field of View, 2/3" Sensor:	30mm
Horizontal Field of View, 1" Sensor:	43.66mm
Numerical Aperture NA, Object Side:	0.031
Horizontal Field of View, 1.1" Sensor:	38.41mm
Horizontal Field of View, 1/1.8" Sensor:	24.55mm
Typical Telecentricity @ 588nm (°):	<0.114
Typical Distortion @ 588nm (%):	<0.084
Primary Magnification PMAG:	0.367X
Maximum Sensor Format:	1.1"
Working Distance (mm):	169
Aperture (f/#):	f/6 - f/16
FOV @ Max Sensor Format, H x V (mm):	38.4 x 28.8
Lens Wavelength Range:	VIS

## Mechanical

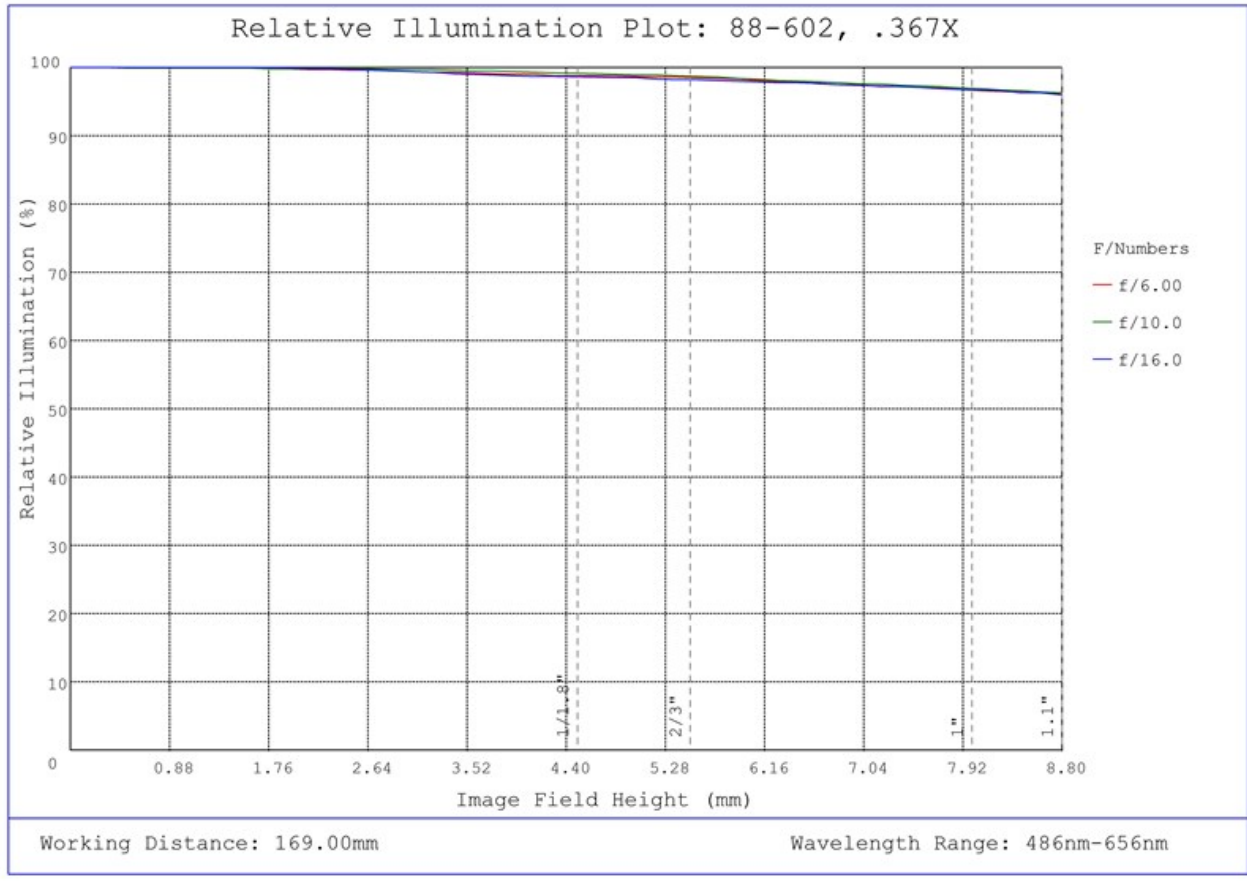
Length (mm):	163.50
Filter Thread:	M67 x 0.75 (Female)
Maximum Diameter (mm):	70.0
Weight (g):	627
Number of Elements (Groups):	10 (7)
Mount:	C-Mount

## General

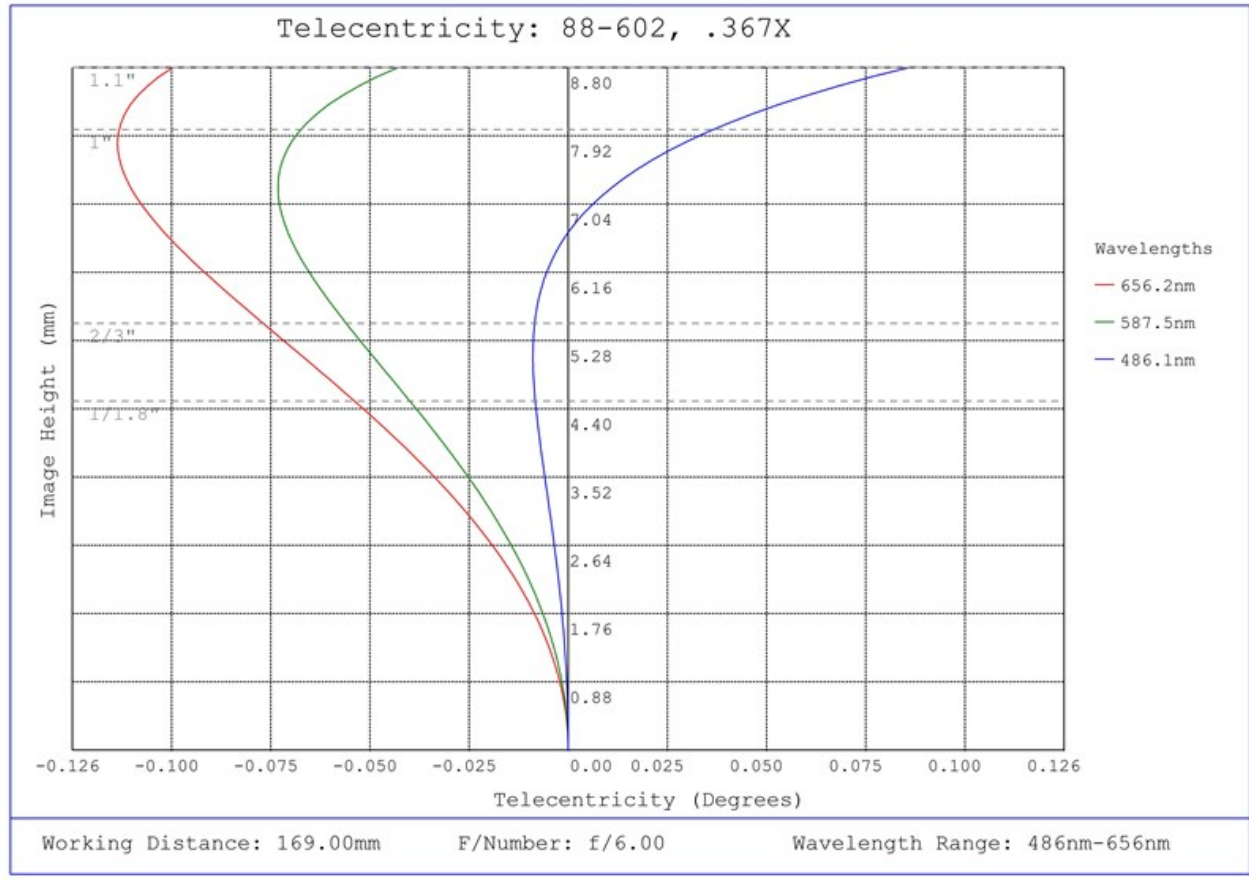
Stock No. of Mounting Clamp:	<a href="#">#89-721</a> Sold Separately
Type:	Telecentric Lens



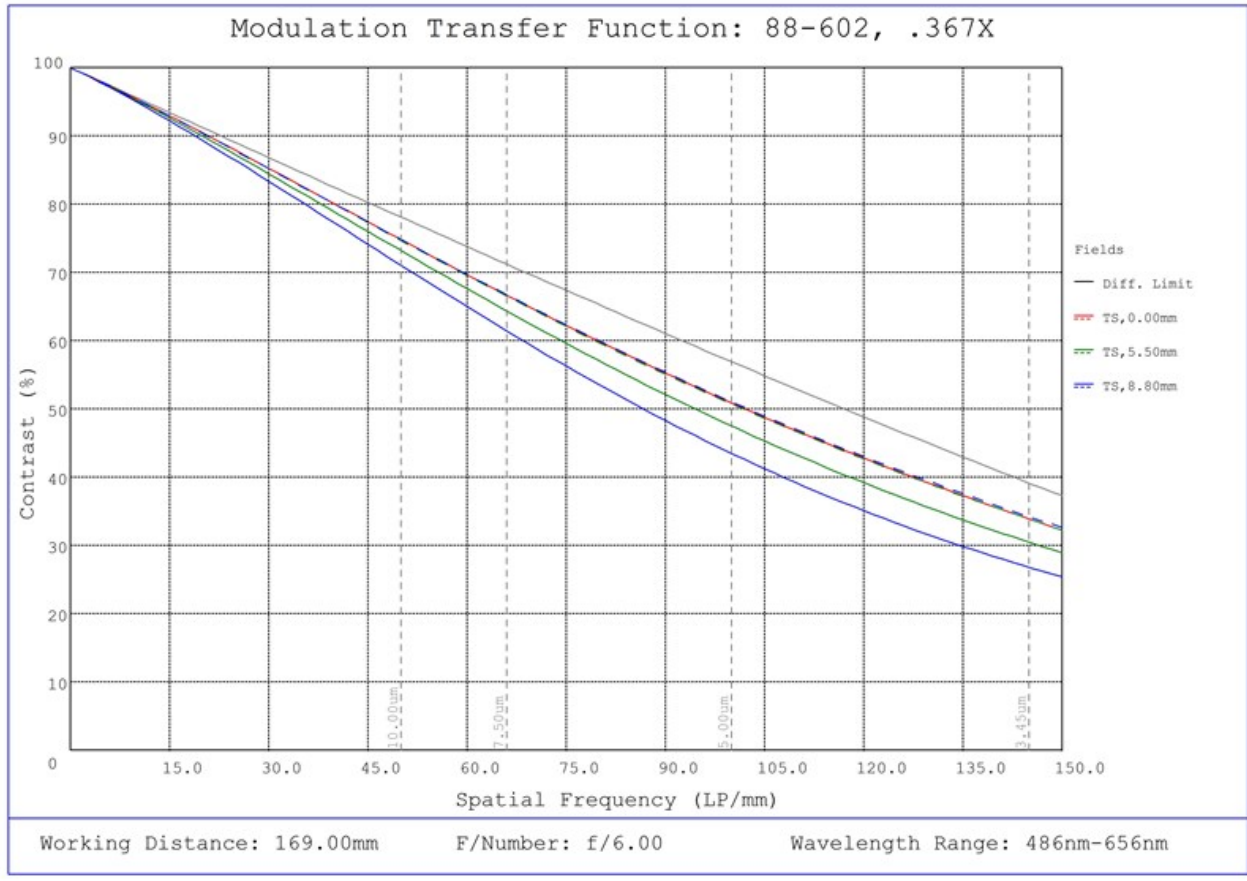
#88-602, 0.367X CobaltTL Telecentric Lens, Distortion Plot



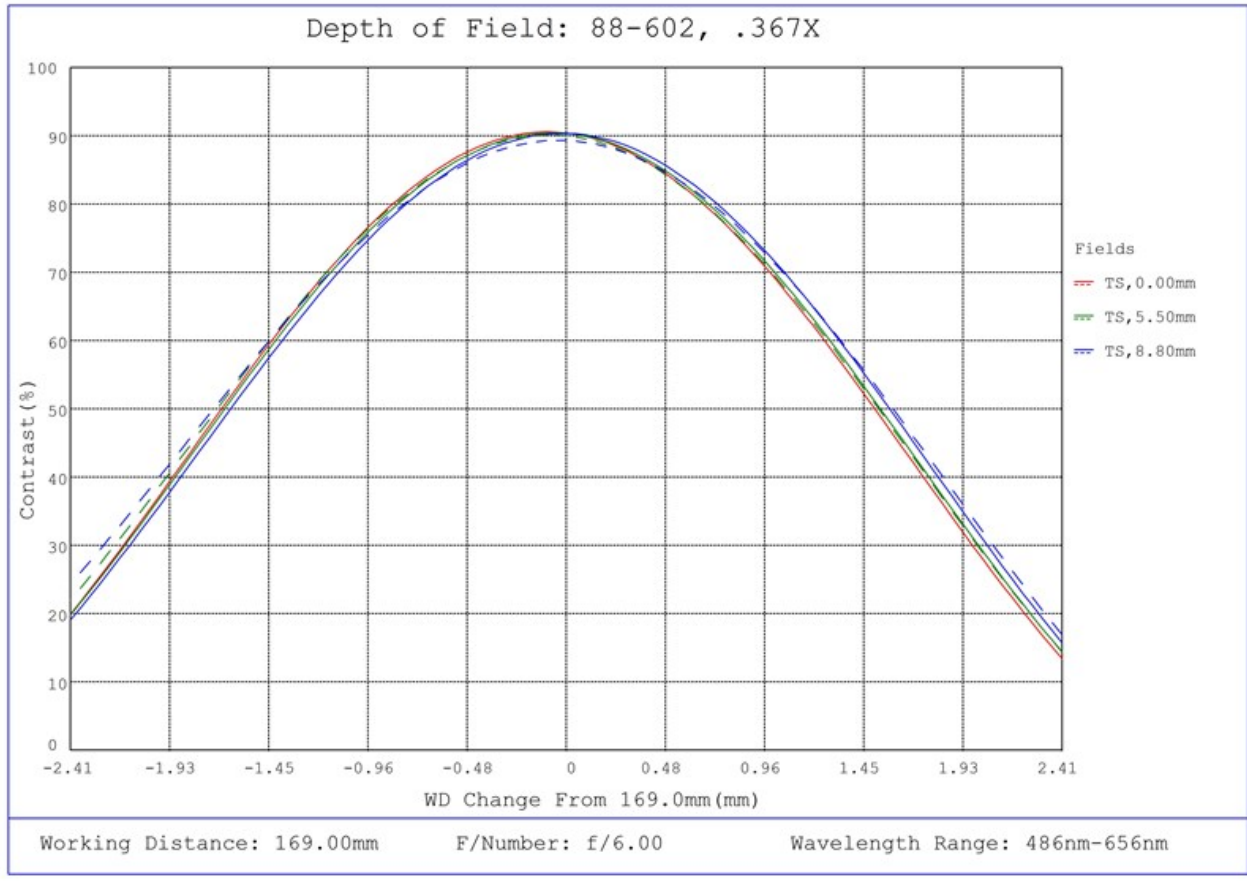
#88-602, 0.367X CobaltTL Telecentric Lens, Relative Illumination Plot



#88-602, 0.367X CobaltTL Telecentric Lens, Telecentricity Plot

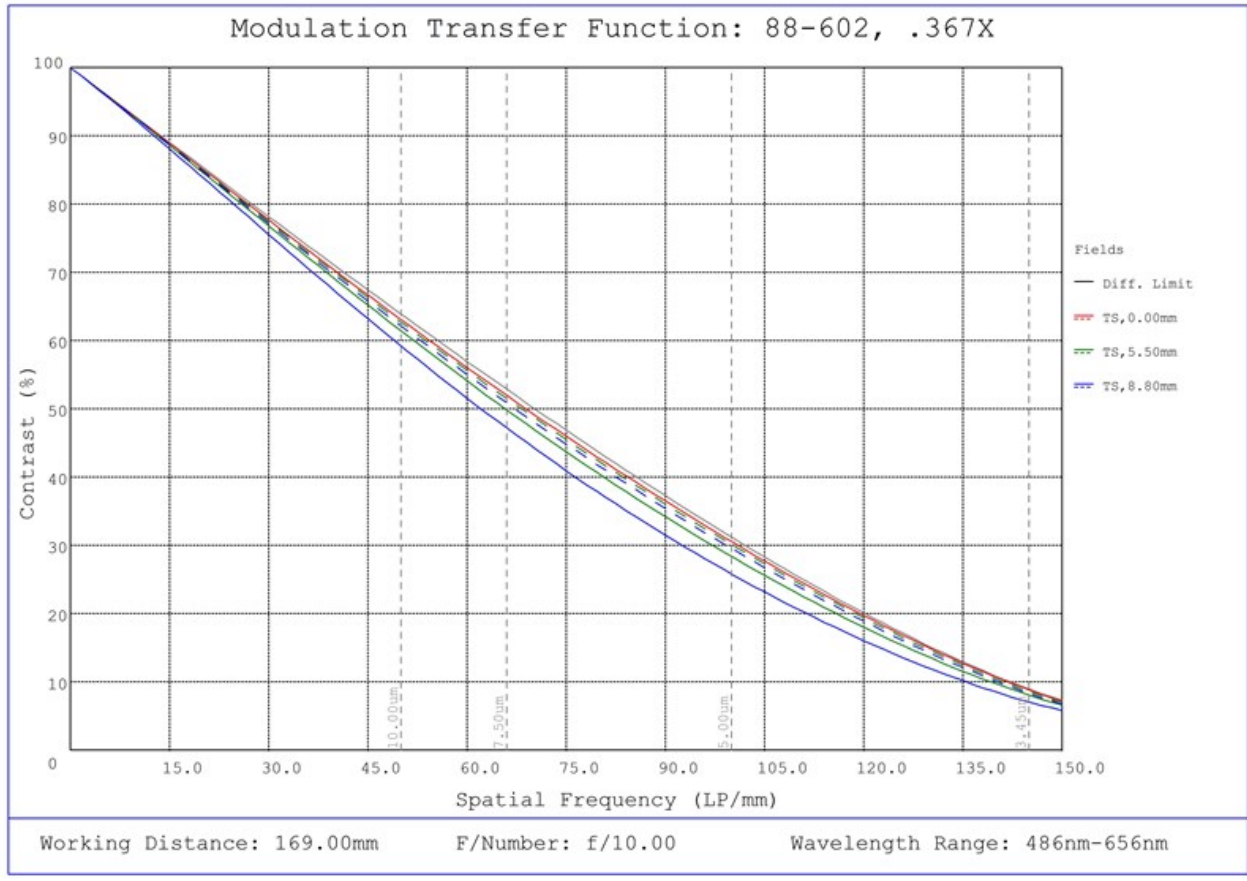


#88-602, 0.367X CobaltTL Telecentric Lens, Modulated Transfer Function (MTF) Plot, 169mm Working Distance, f6



#88-602, 0.367X CobaltTL Telecentric Lens, Depth of Field Plot, 169mm Working Distance, f6





#88-602, 0.367X CobaltTL Telecentric Lens, Modulated Transfer Function (MTF) Plot, 169mm Working Distance, f10





#88-602, 0.367X CobaltTL Telecentric Lens, Depth of Field Plot, 169mm Working Distance, f10



September 08, 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>
88-602	0.367X CobaltTL Telecentric 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  
September 08, 2023

Edmund Optics Inc. - 101 E Gloucester Pike, Barrington, NJ 08007 | 1-800-363-1992 | [Compliance@edmundoptics.com](mailto:Compliance@edmundoptics.com)



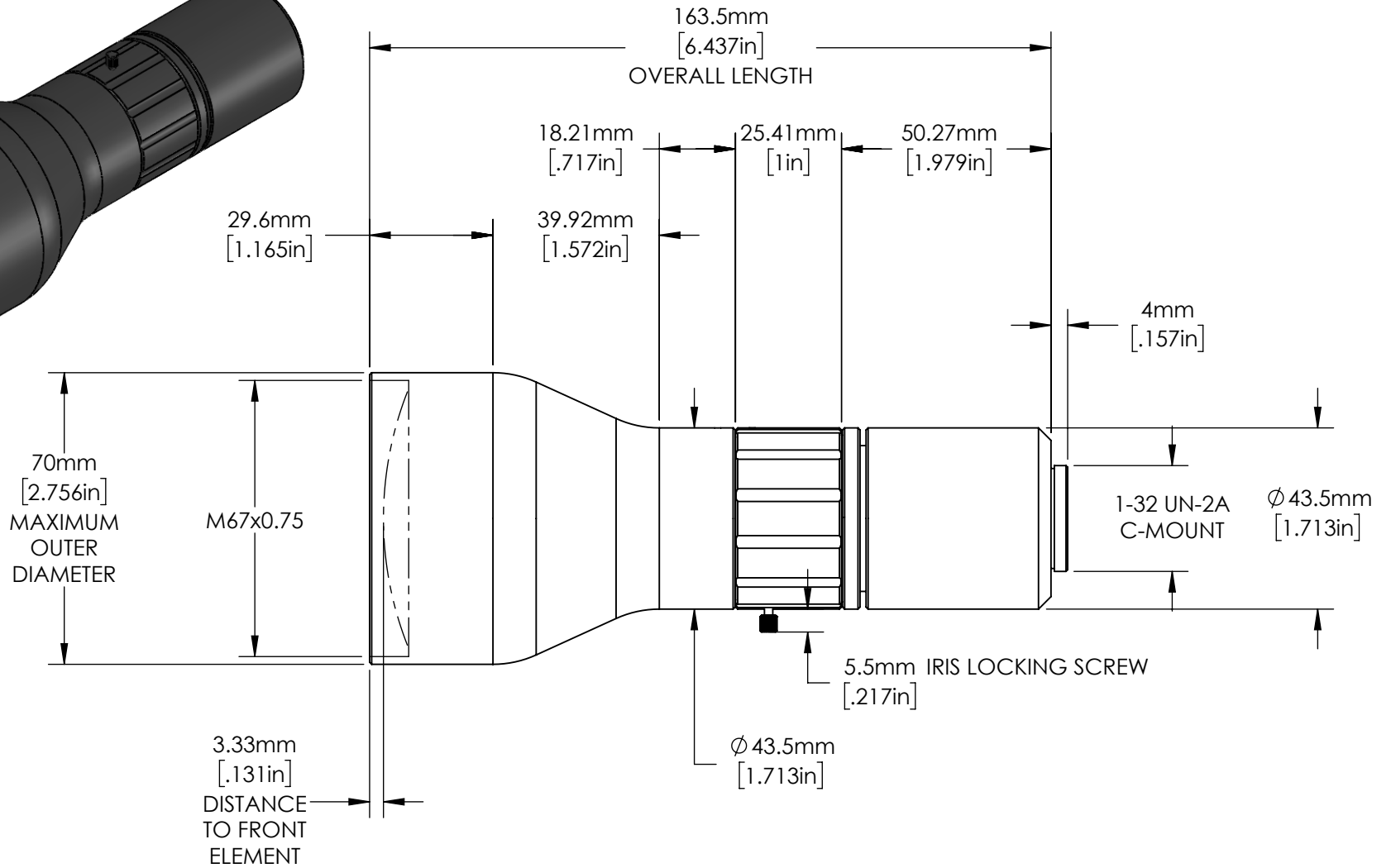
September 08, 2023

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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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DIMENSIONS ARE FOR REFERENCE ONLY.

**EO**® Edmund Optics®

TITLE	0.367X, 1" C-Mount PlatinumTL™ Telecentric Lens		
DWG NO	88602		SHEET 1 OF 1

