

TECHSPEC® 0.55X CobaltTL Telecentric Lens

#88-603



0.55X 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° 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):	±3.53mm at f/10 (20% @ 20 lp/mm)

Optical

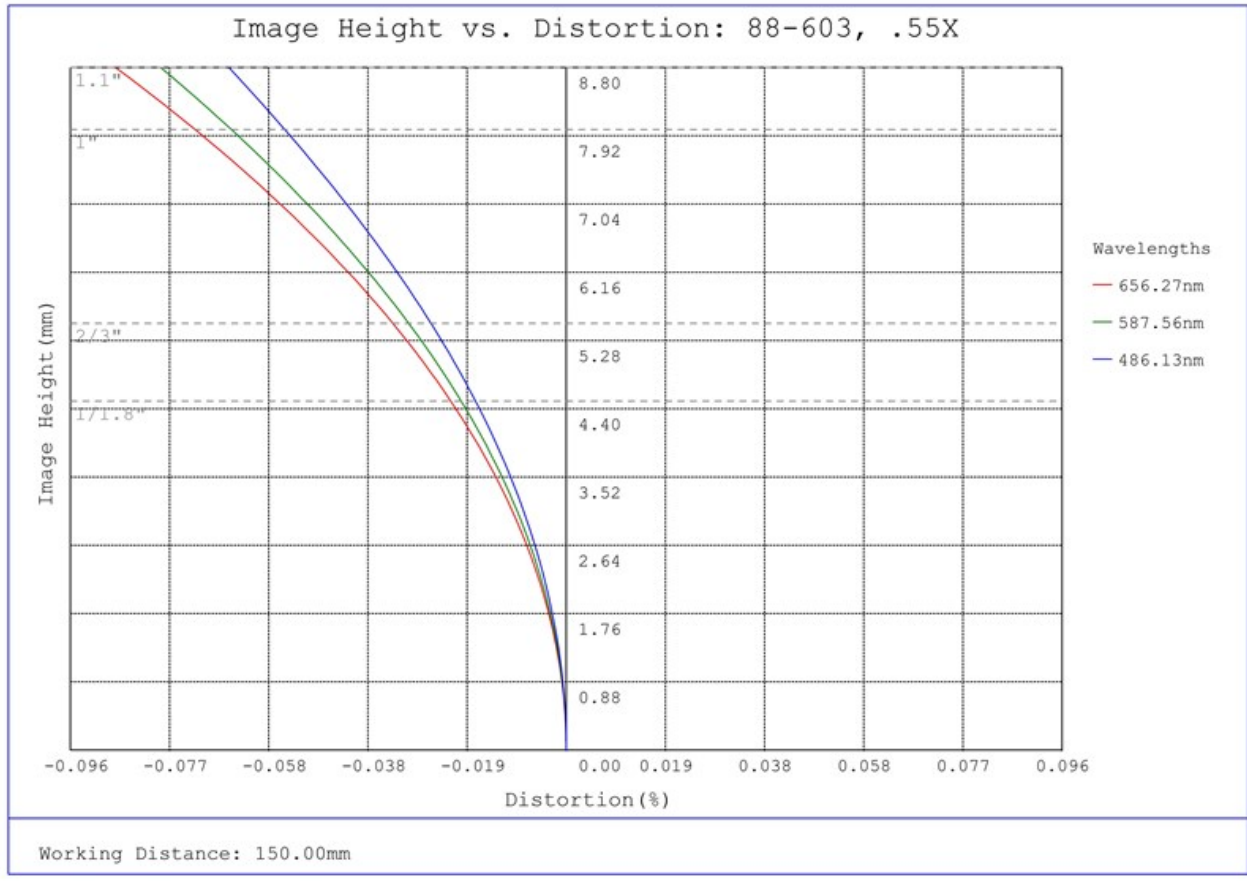
Horizontal Field of View, 1/2" Sensor:	14.55mm
Horizontal Field of View, 2/3" Sensor:	20.01mm
Horizontal Field of View, 1" Sensor:	29.11mm
Numerical Aperture NA, Object Side:	0.046
Horizontal Field of View, 1.1" Sensor:	25.61mm
Horizontal Field of View, 1/1.8" Sensor:	16.37mm
Typical Telecentricity @ 588nm (°):	<0.084
Typical Distortion @ 588nm (%):	<0.087
Primary Magnification PMAG:	0.55X
Maximum Sensor Format:	1.1"
Working Distance (mm):	150.00
Aperture (f/#):	f/6 - f/16
FOV @ Max Sensor Format, H x V (mm):	25.6 x 19.2
Lens Wavelength Range:	VIS

Mechanical

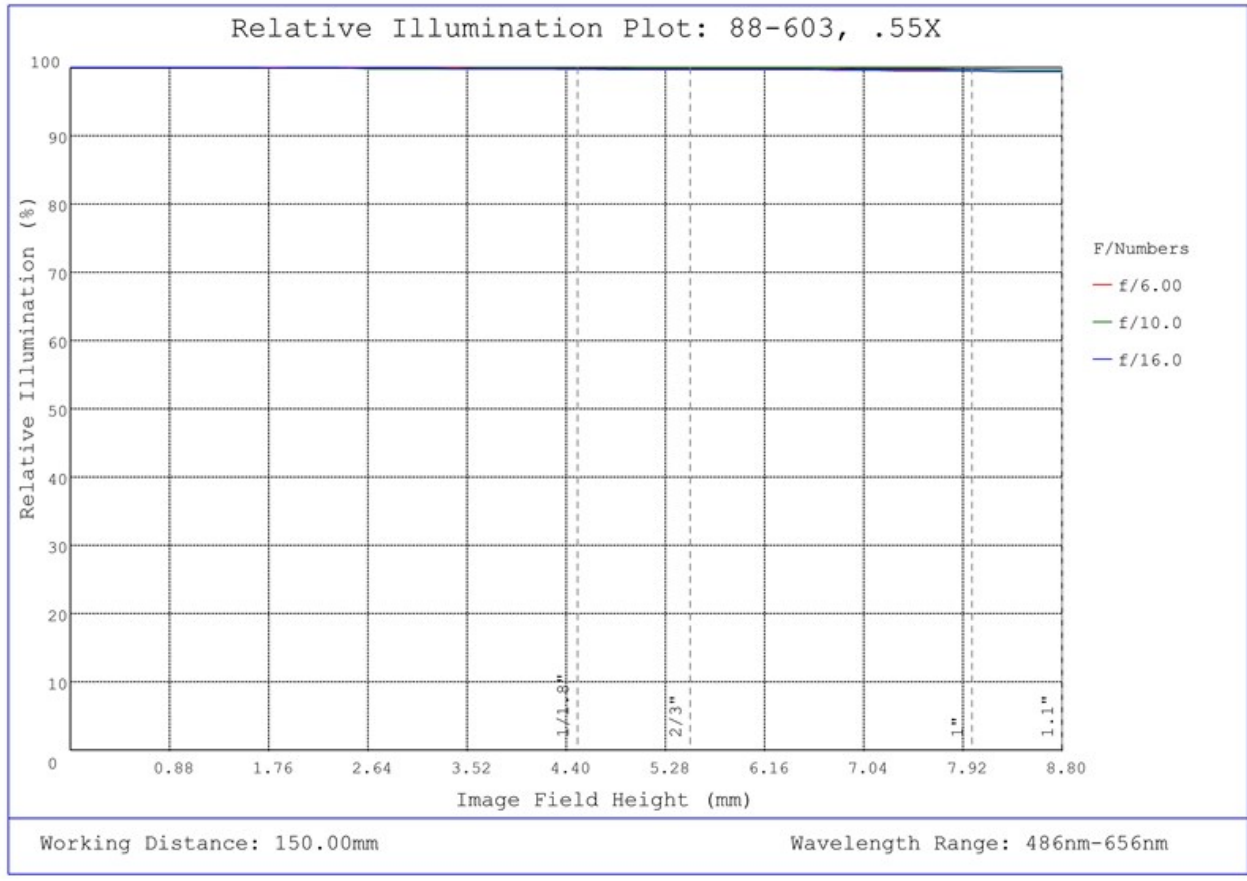
Length (mm):	182.50
Filter Thread:	M58 x 0.75 (Female)
Maximum Diameter (mm):	62.0
Weight (g):	629
Number of Elements (Groups):	10 (7)
Mount:	C-Mount

General

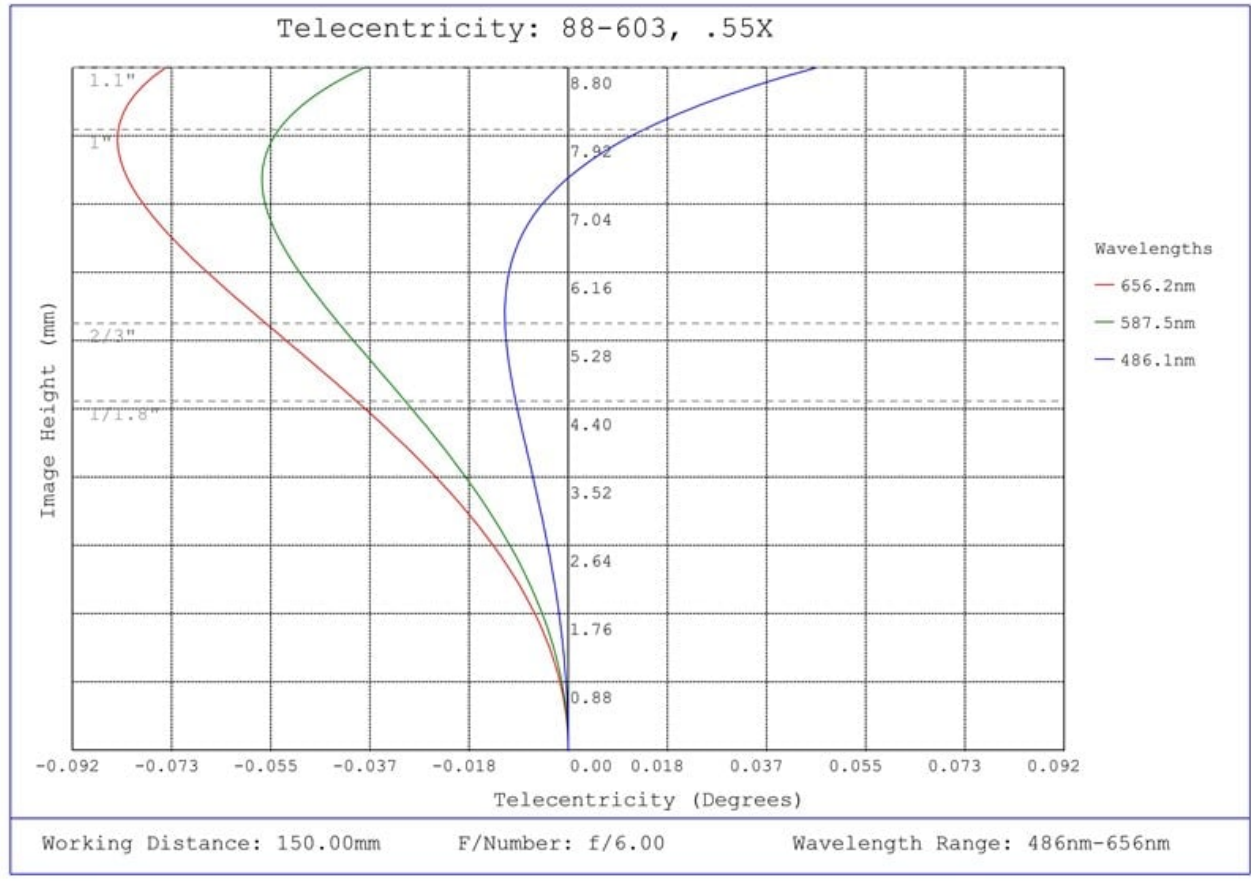
Stock No. of Mounting Clamp:	#89-721 Sold Separately
Type:	Telecentric Lens



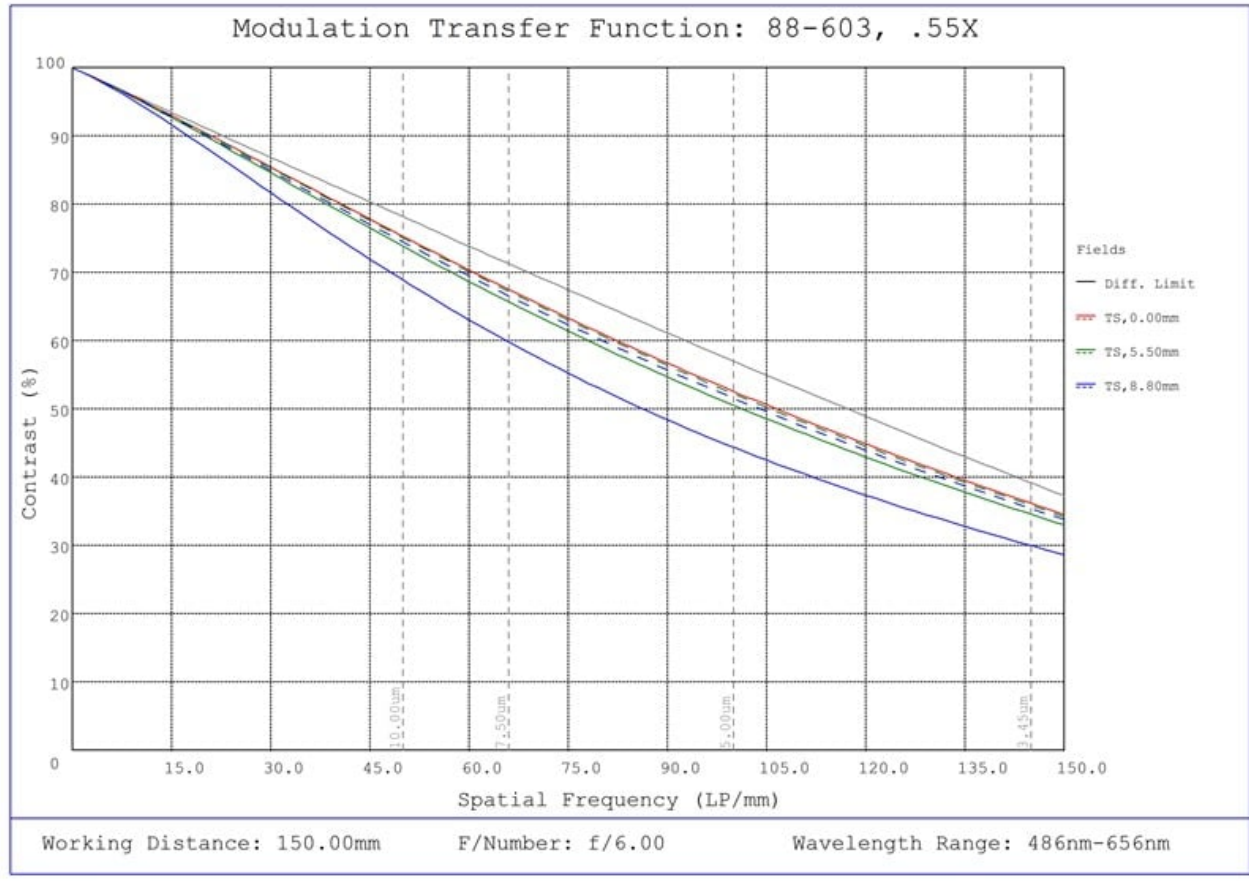
#88-603, 0.55X CobaltTL Telecentric Lens, Distortion Plot



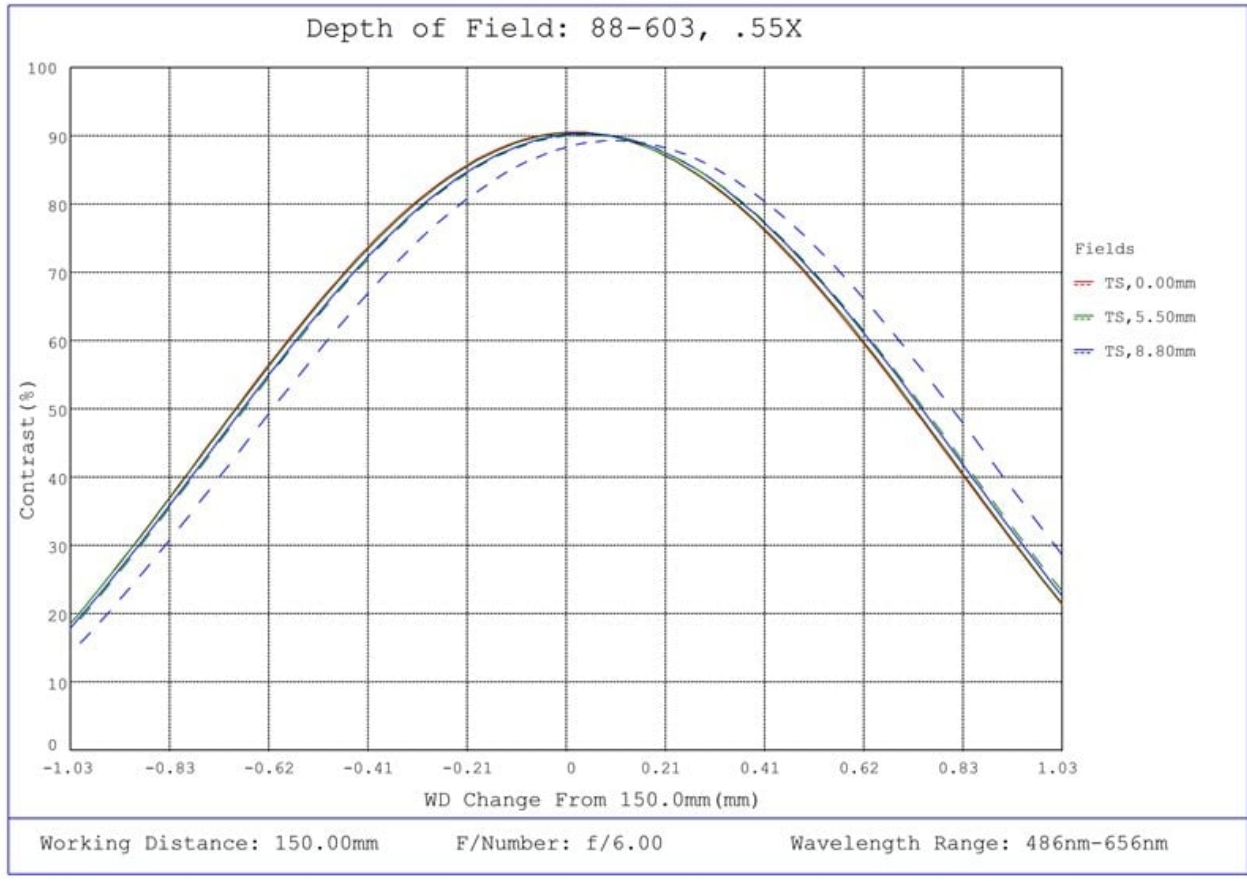
#88-603, 0.55X CobaltTL Telecentric Lens, Relative Illumination Plot



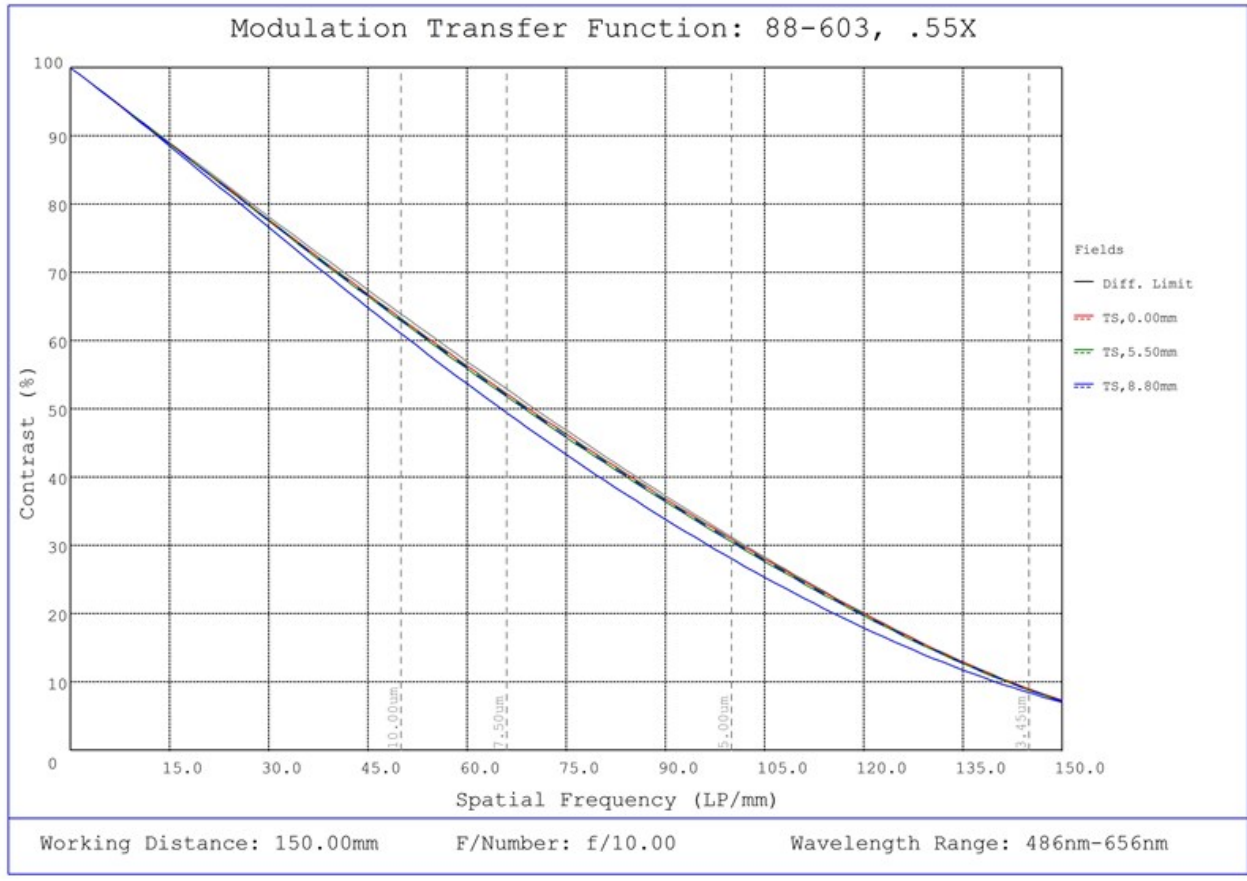
#88-603, 0.55X CobaltTL Telecentric Lens, Telecentricity Plot



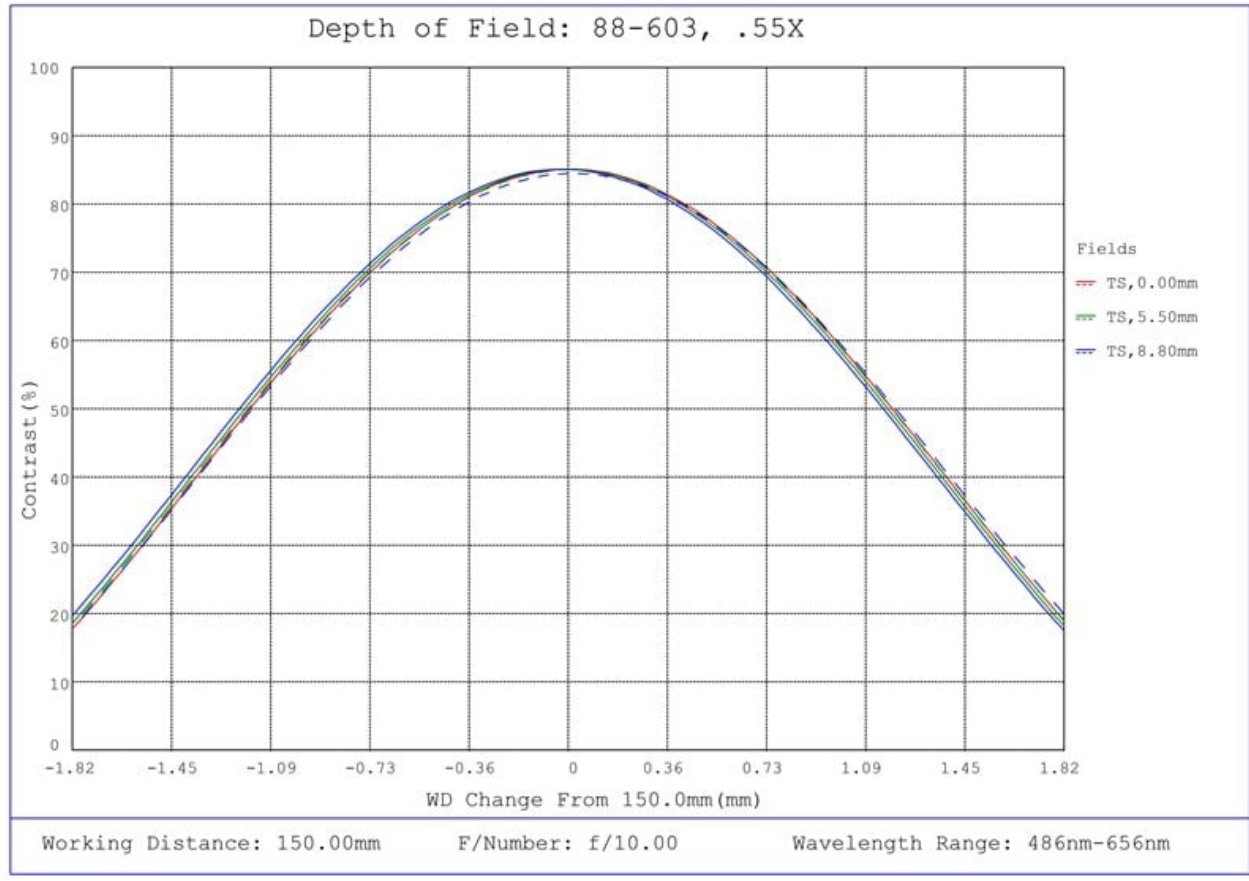
#88-603, 0.55X CobaltTL Telecentric Lens, Modulated Transfer Function (MTF) Plot, 150mm Working Distance, f6



#88-603, 0.55X CobaltTTL Telecentric Lens, Depth of Field Plot, 150mm Working Distance, f6



#88-603, 0.55X CobaltTL Telecentric Lens, Modulated Transfer Function (MTF) Plot, 150mm Working Distance, f10



#88-603, 0.55X CobaltTL Telecentric Lens, Depth of Field Plot, 150mm 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>
88-603	0.55X 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



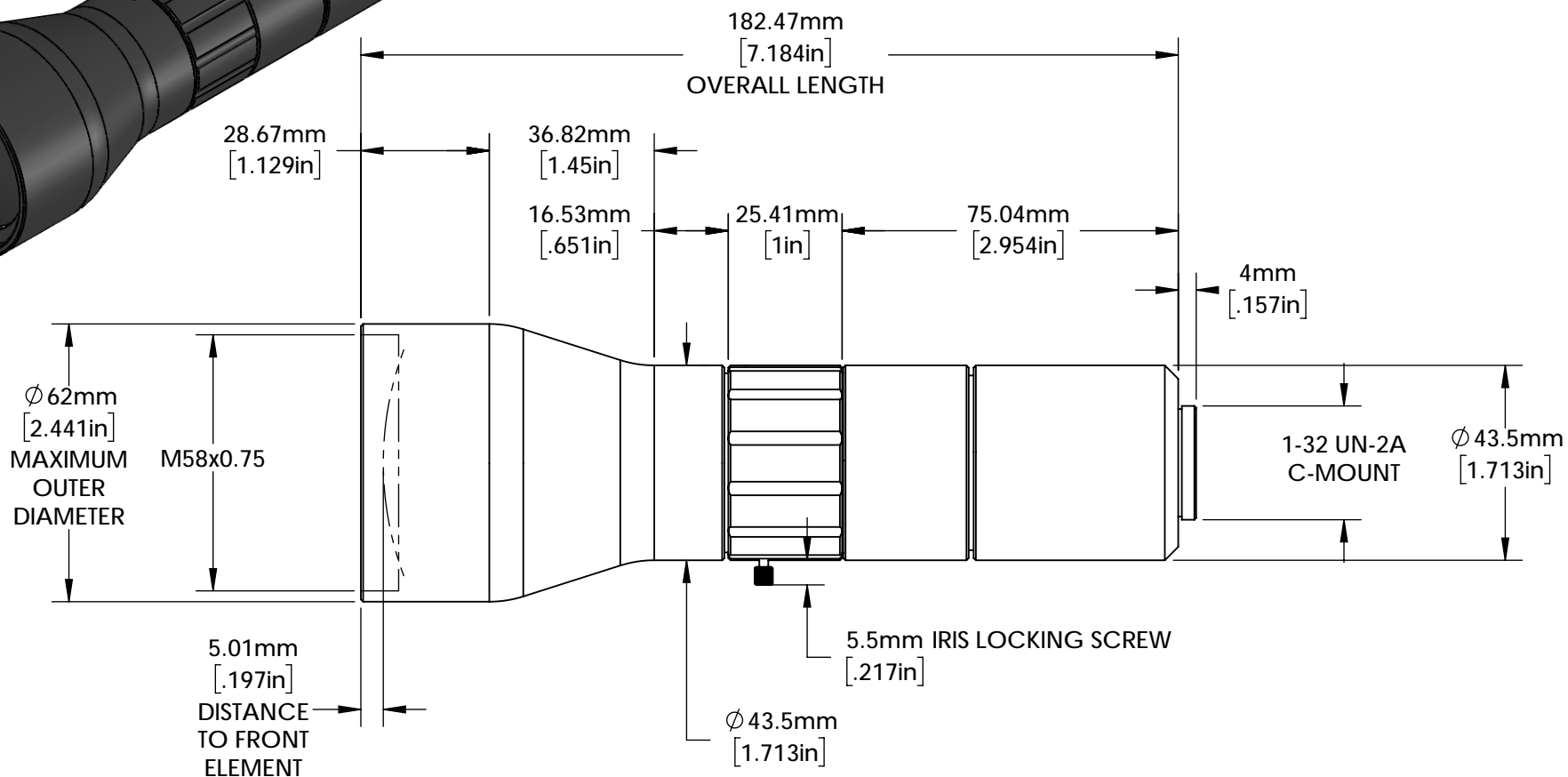
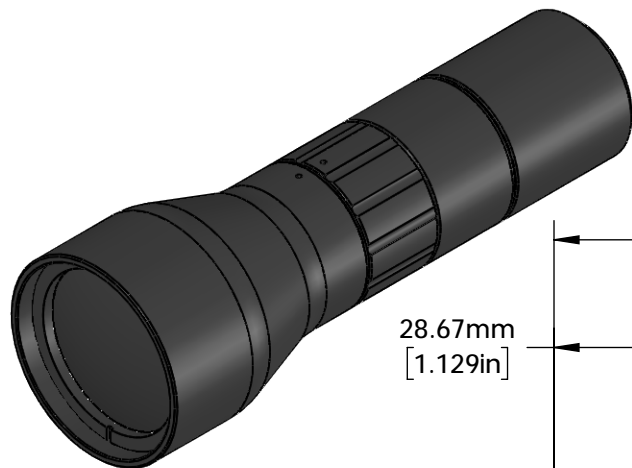
September 08, 2023

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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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Edmund Optics®

TITLE	0.55X CobaltTL Telecentric Lens		
DWG NO	88603		SHEET 1 OF 1

