

TECHSPEC® 0.28X CobaltTL Telecentric Lens

#62-921



0.28X 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):	±12.44mm at f/10 (20% @ 20 lp/mm)

Optical

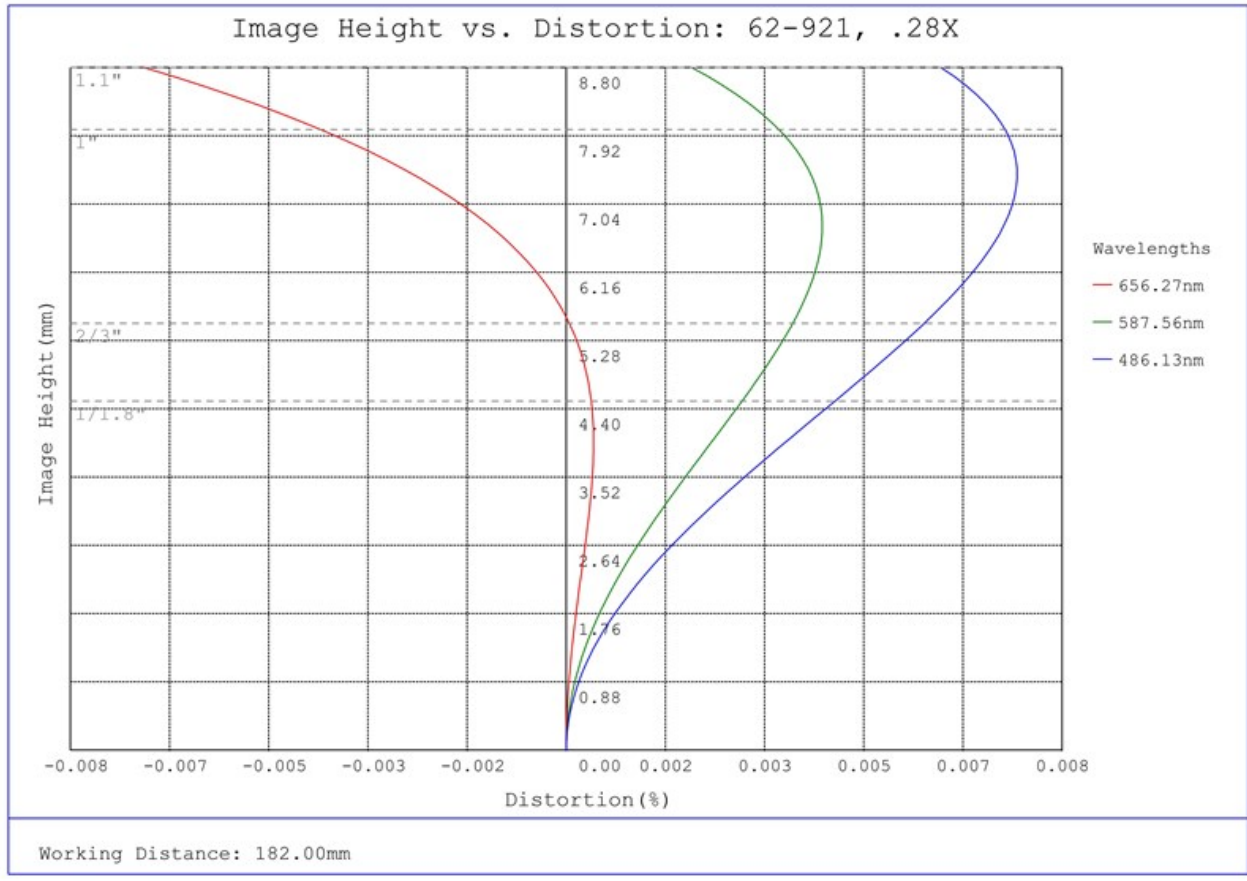
Horizontal Field of View, 1/2" Sensor:	28.86mm
Horizontal Field of View, 2/3" Sensor:	39.69mm
Horizontal Field of View, 1" Sensor:	57.73mm
Numerical Aperture NA, Object Side:	0.023
Horizontal Field of View, 1.1" Sensor:	50.8mm
Horizontal Field of View, 1/1.8" Sensor:	32.47mm
Typical Telecentricity @ 588nm (°):	<0.113
Typical Distortion @ 588nm (%):	<0.008
Primary Magnification PMAG:	0.28X
Maximum Sensor Format:	1.1"
Working Distance (mm):	182
Aperture (f/#):	f/6 - f/22
FOV @ Max Sensor Format, H x V (mm):	50.7 x 37.1
Lens Wavelength Range:	VIS

Mechanical

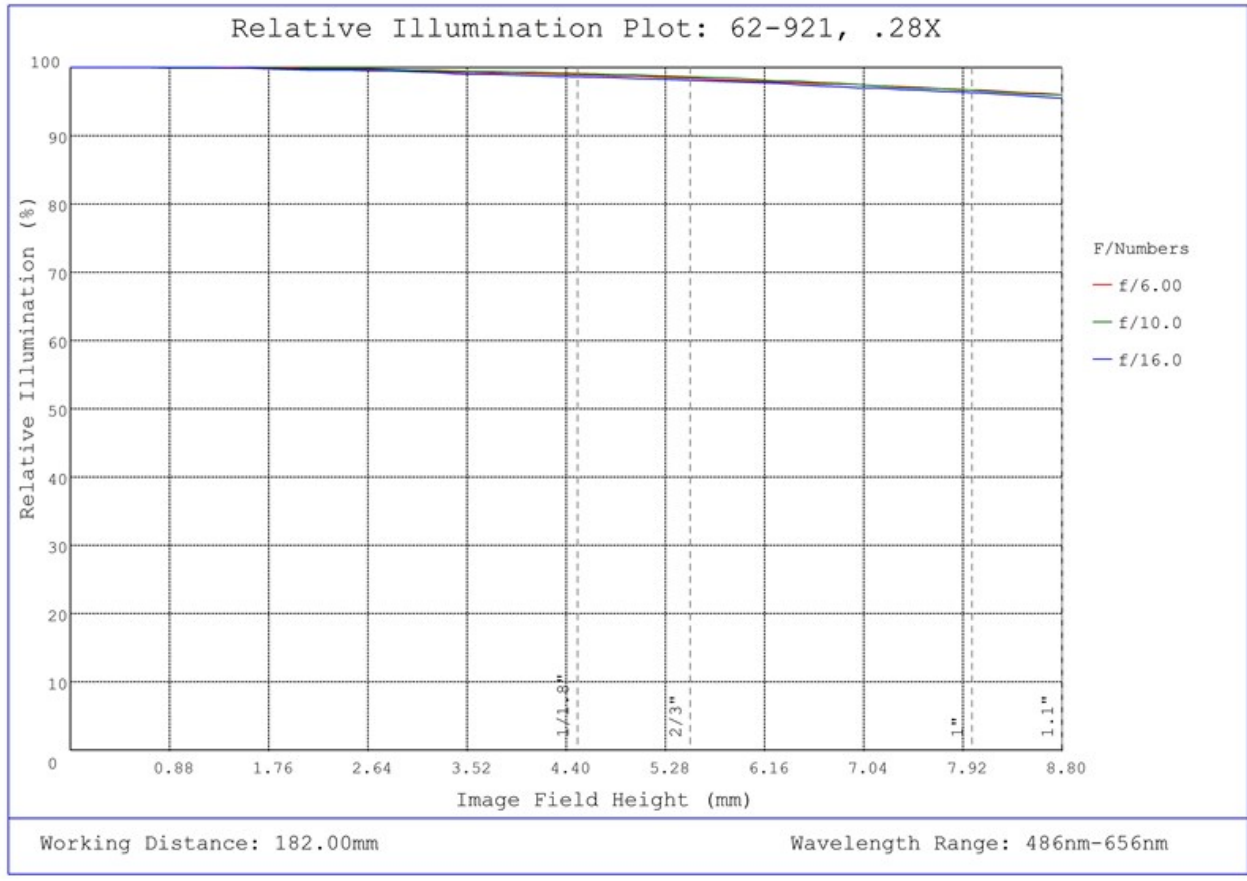
Length (mm):	197.50
Filter Thread:	M132 x 0.75 (Female)
Maximum Diameter (mm):	138.6
Weight (g):	736
Number of Elements (Groups):	10 (7)
Mount:	C-Mount

General

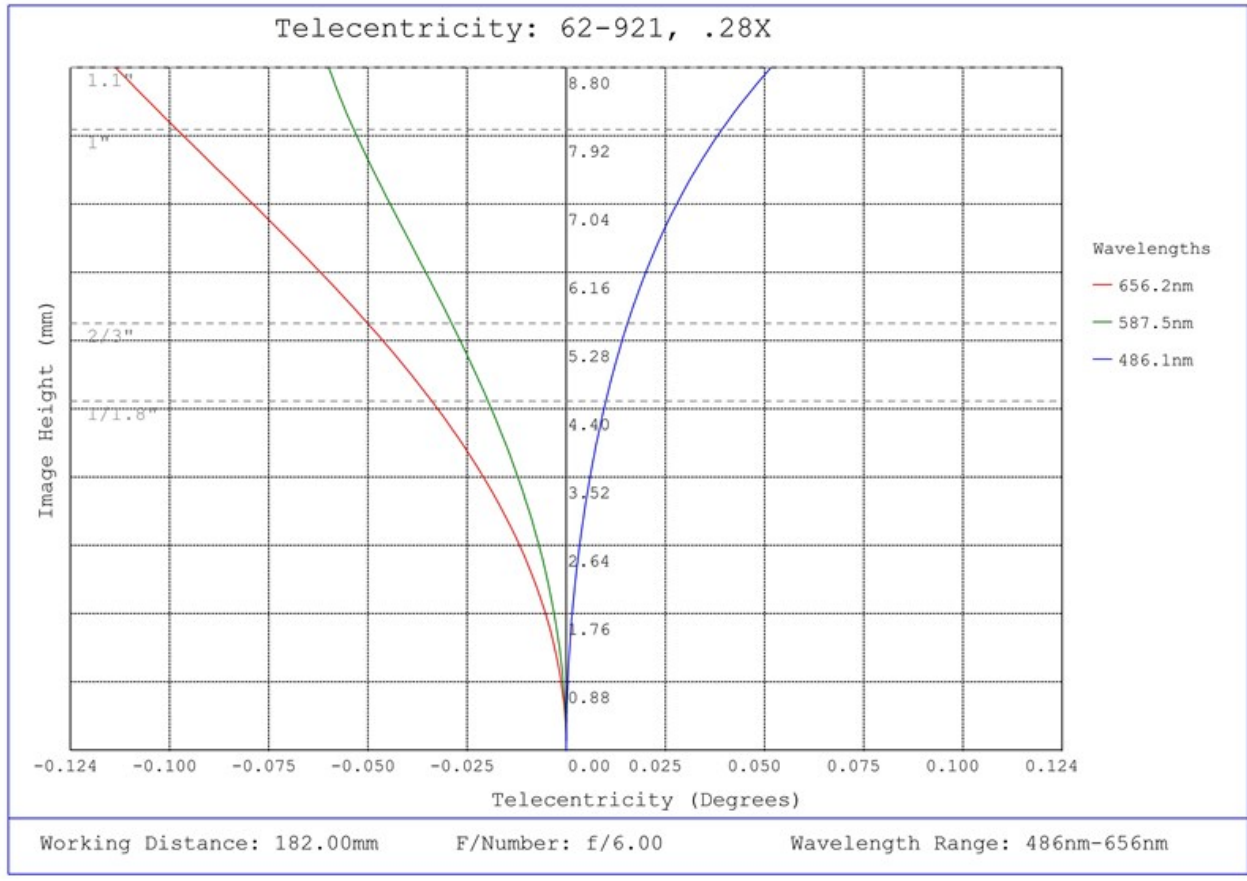
Stock No. of Mounting Clamp:	#63-440 Sold Separately
Note:	Lens will cover a 20mm diagonal sensor.
Type:	Telecentric Lens



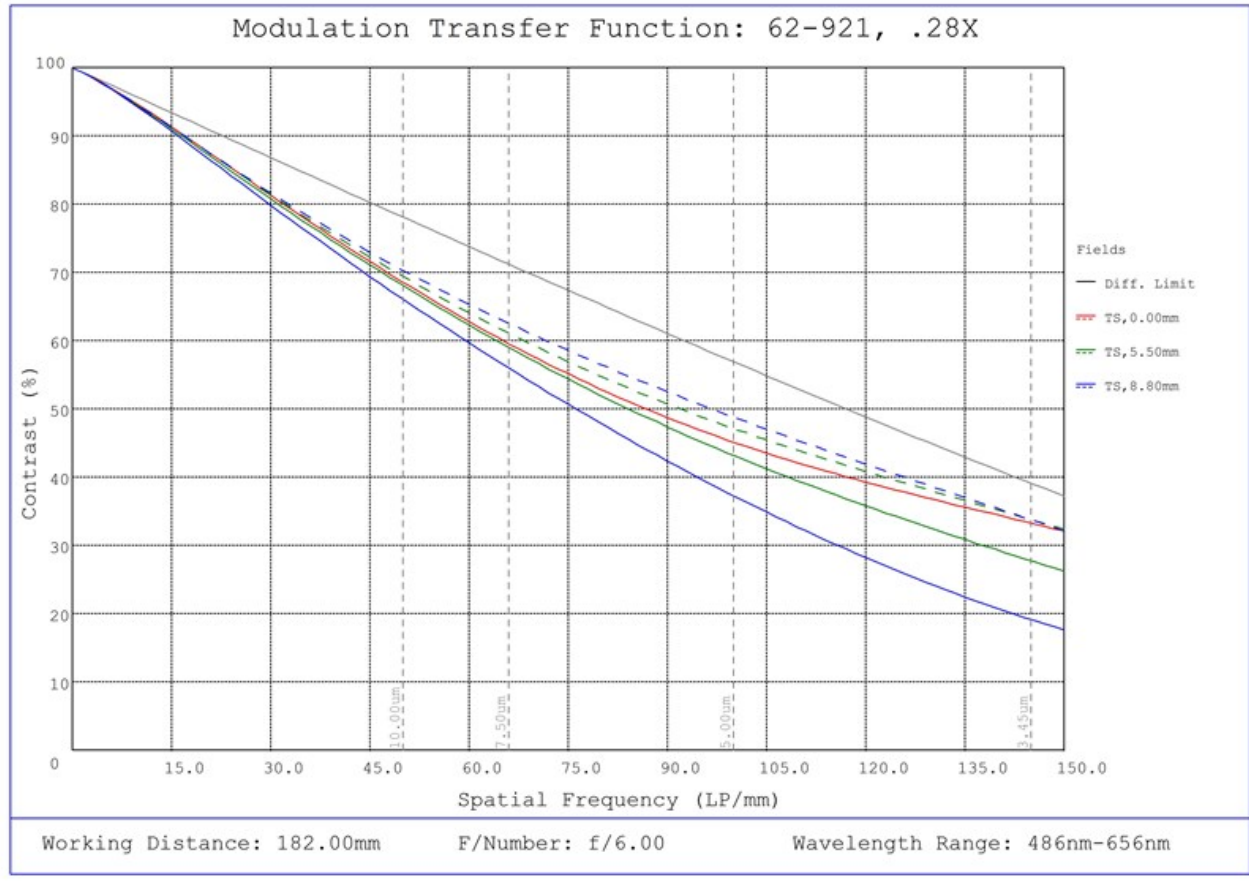
#62-921, 0.28X CobaltTL Telecentric Lens, Distortion Plot



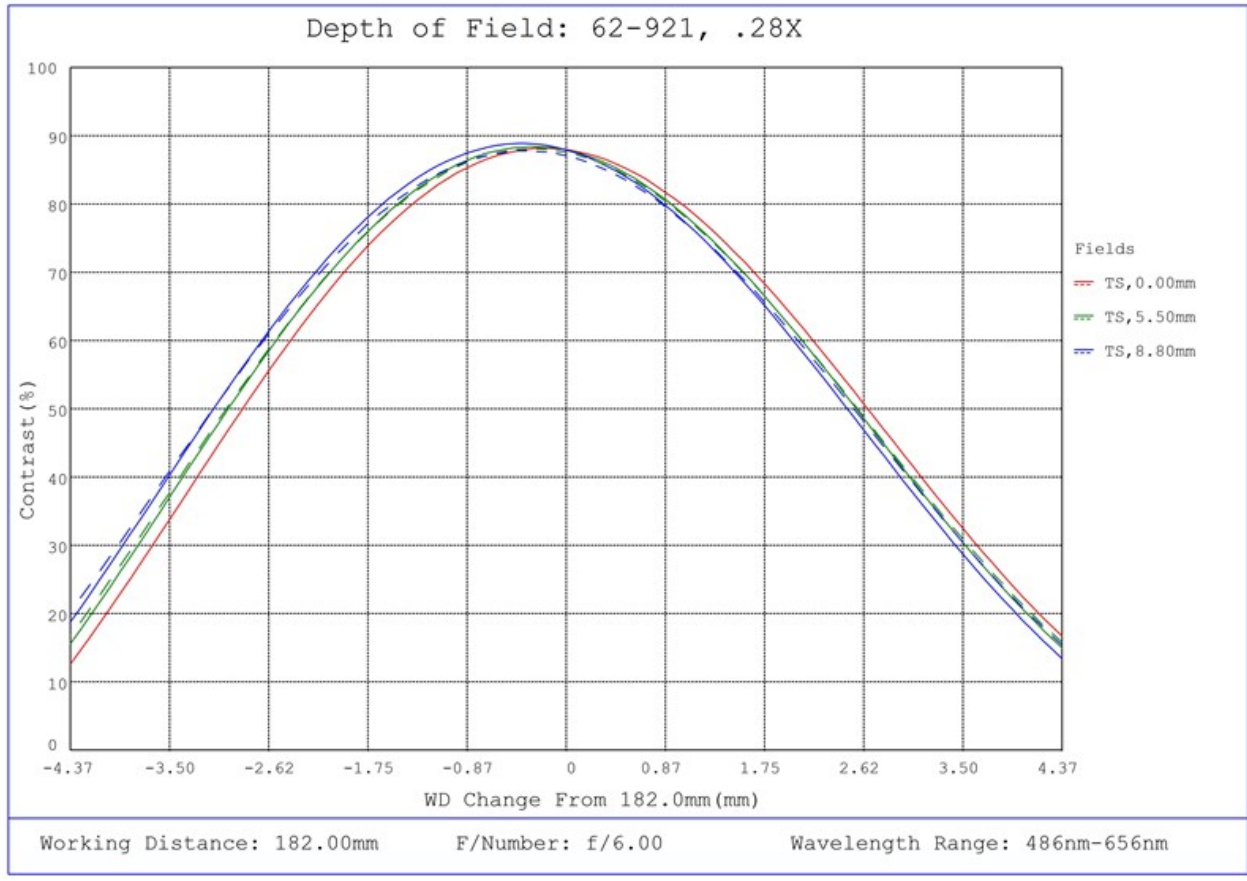
#62-921, 0.28X CobaltTL Telecentric Lens, Relative Illumination Plot



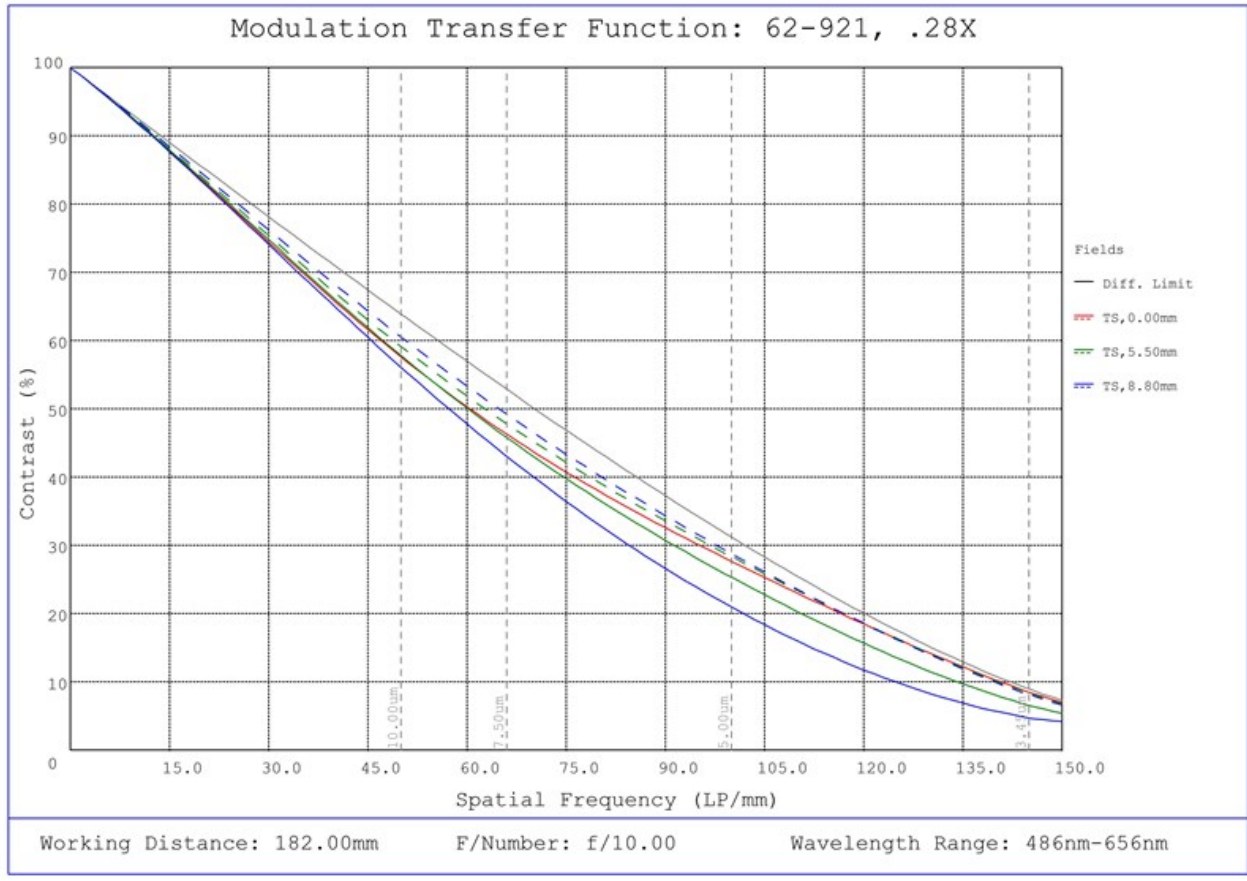
#62-921, 0.28X CobaltTL Telecentric Lens, Telecentricity Plot



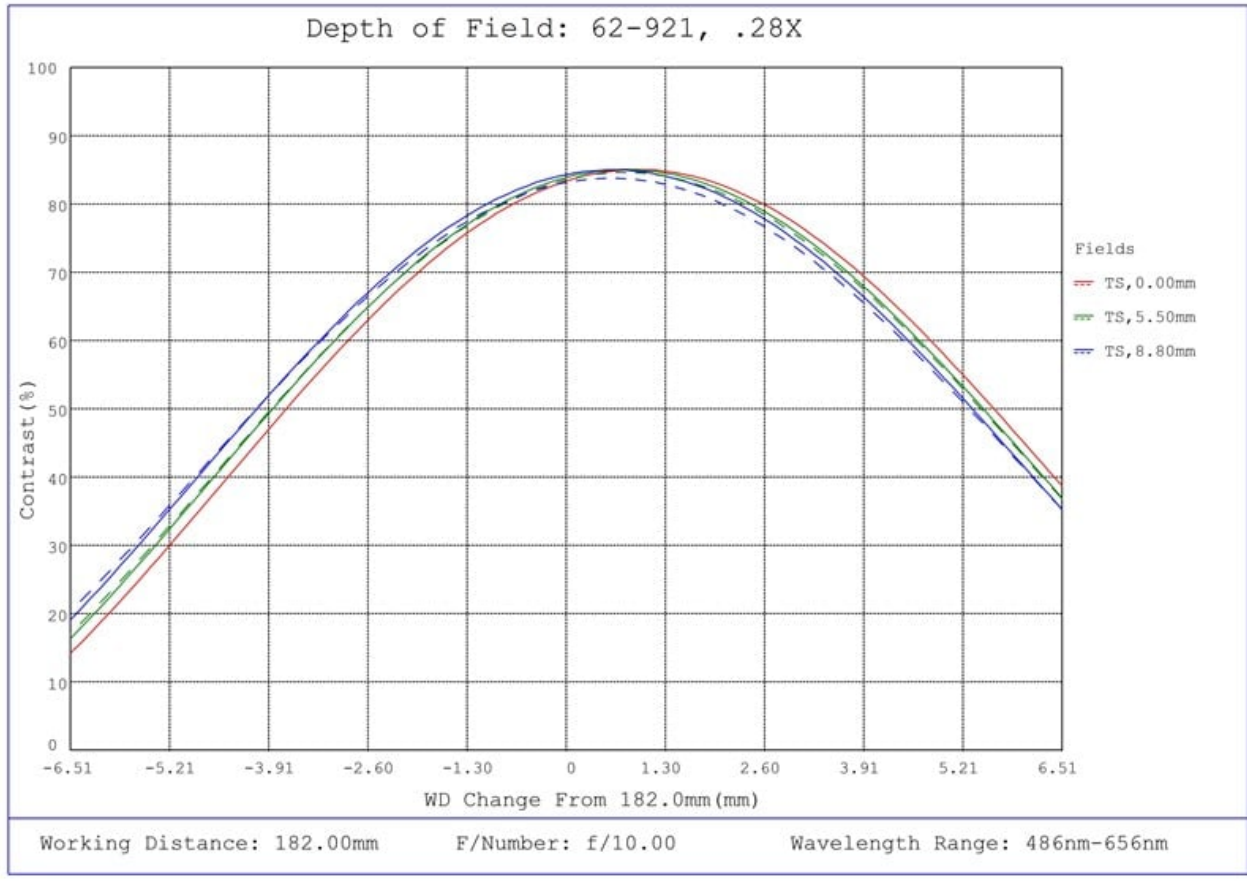
#62-921, 0.28X CobaltTL Telecentric Lens, Modulated Transfer Function (MTF) Plot, 182mm Working Distance, f6



#62-921, 0.28X CobaltTL Telecentric Lens, Depth of Field Plot, 182mm Working Distance, f6



#62-921, 0.28X CobaltTL Telecentric Lens, Modulated Transfer Function (MTF) Plot, 182mm Working Distance, f10



#62-921, 0.28X CobaltTL Telecentric Lens, Depth of Field Plot, 182mm 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>
62-921	0.28X CobaltTL Telecentric Lens

This item is EU RoHS (2011/65/EU) exempt based on an exemption; for details on the exemptions for this product [contact us](#).

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

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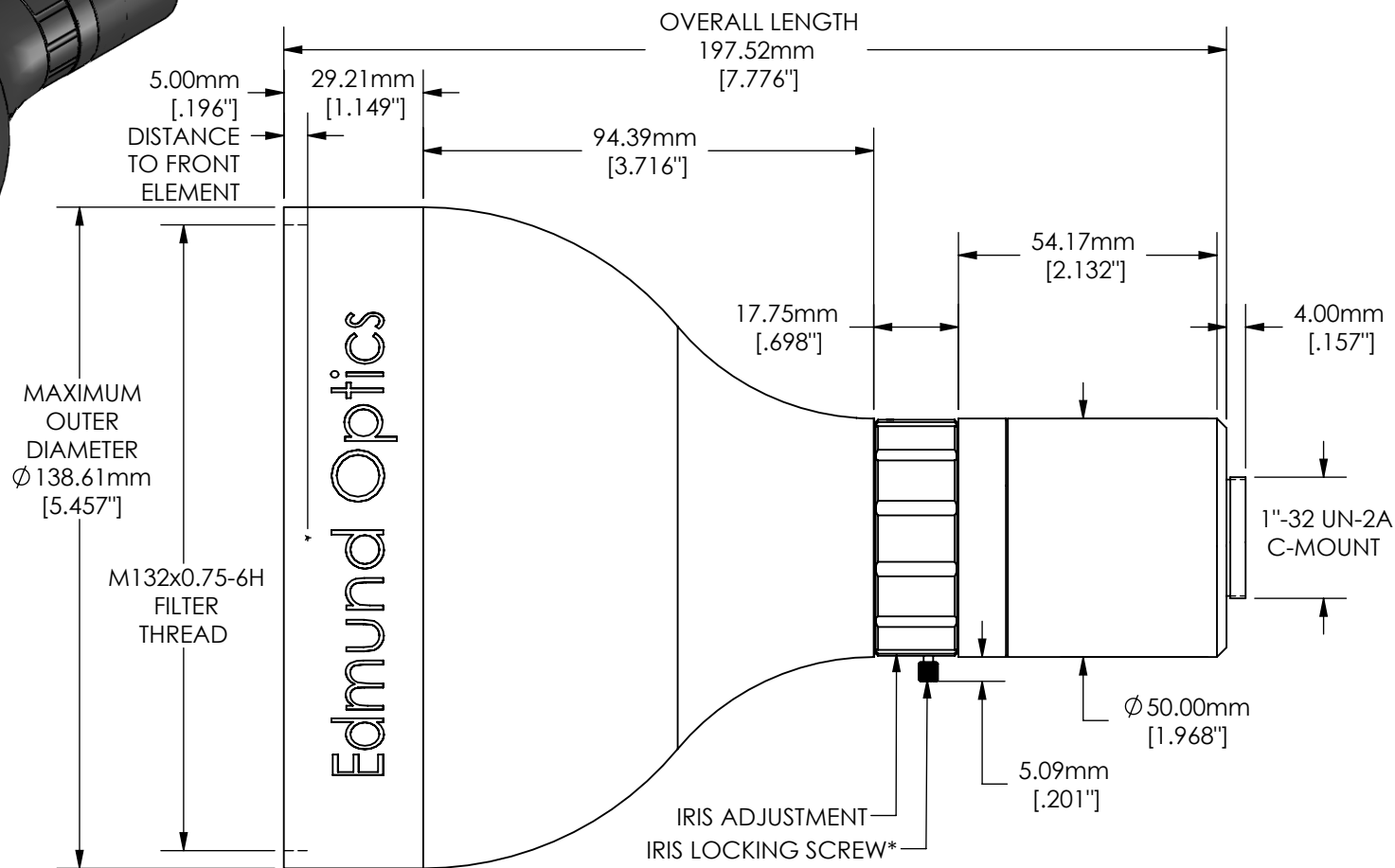
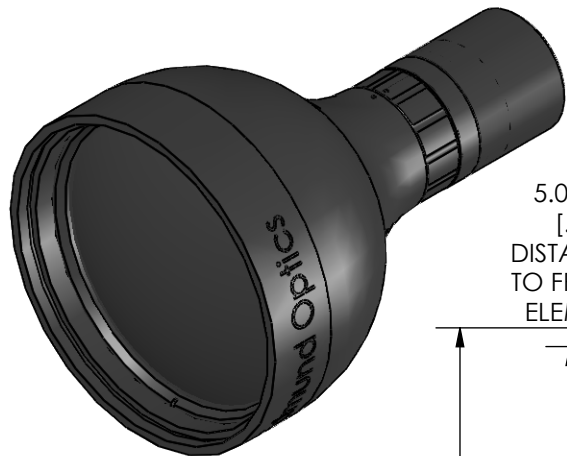
September 08, 2023

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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



* ALSO INCLUDES RECESSED SET SCREW OPTION

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DIMENSIONS ARE FOR REFERENCE ONLY.
FOR DETAILED SPECIFICATIONS,
PLEASE REFER TO THE SPEC SHEET.



Edmund Optics

TITLE 0.28X, 1" C-Mount PlatinumTL™ Telecentric Lens

DWG NO 62921

SHEET
1 OF 1

Enable 3D View