

**TECHSPEC® 0.093X, 2/3" C-Mount TitanTL® Telecentric Lens**

#34-006



TitanTL® Telecentric Lens

TECHSPEC® TitanTL® Telecentric Lenses are designed for machine vision systems and metrology applications that require a large field of view. These lenses feature large maximum sensor formats, a variety of working distance and magnification options, and a rear filter holder on the back of the lenses to allow for easy filter integration. On our 118mm, 182mm and 242mm FOV versions, the integrated mounting flange allows for ease of securing each lens without requiring an additional mount and provides an easy to locate reference plane. TECHSPEC® TitanTL® Telecentric Lenses contain shims that provide adjustment for variation in camera sensor location, an adjustable iris and a 3 set screw lens mount for simple rotational alignment to the camera. Typical applications include automotive and electronic inspection, measurement and gauging applications.

These lenses won the [Silver Level 2017 Innovators Award](#).

**Note:** Detailed inspection reports included with each lens.

## General

Stock No. of Mounting Clamp:	<a href="#">#28-640</a> (Sold Separately)
Note:	TitanTL®
Type:	Telecentric Lens

## Physical & Mechanical Properties

Iris Option:	Variable
Weight (kg):	3.46
Rear Filter Diameter (mm):	25.4

## Optical Properties

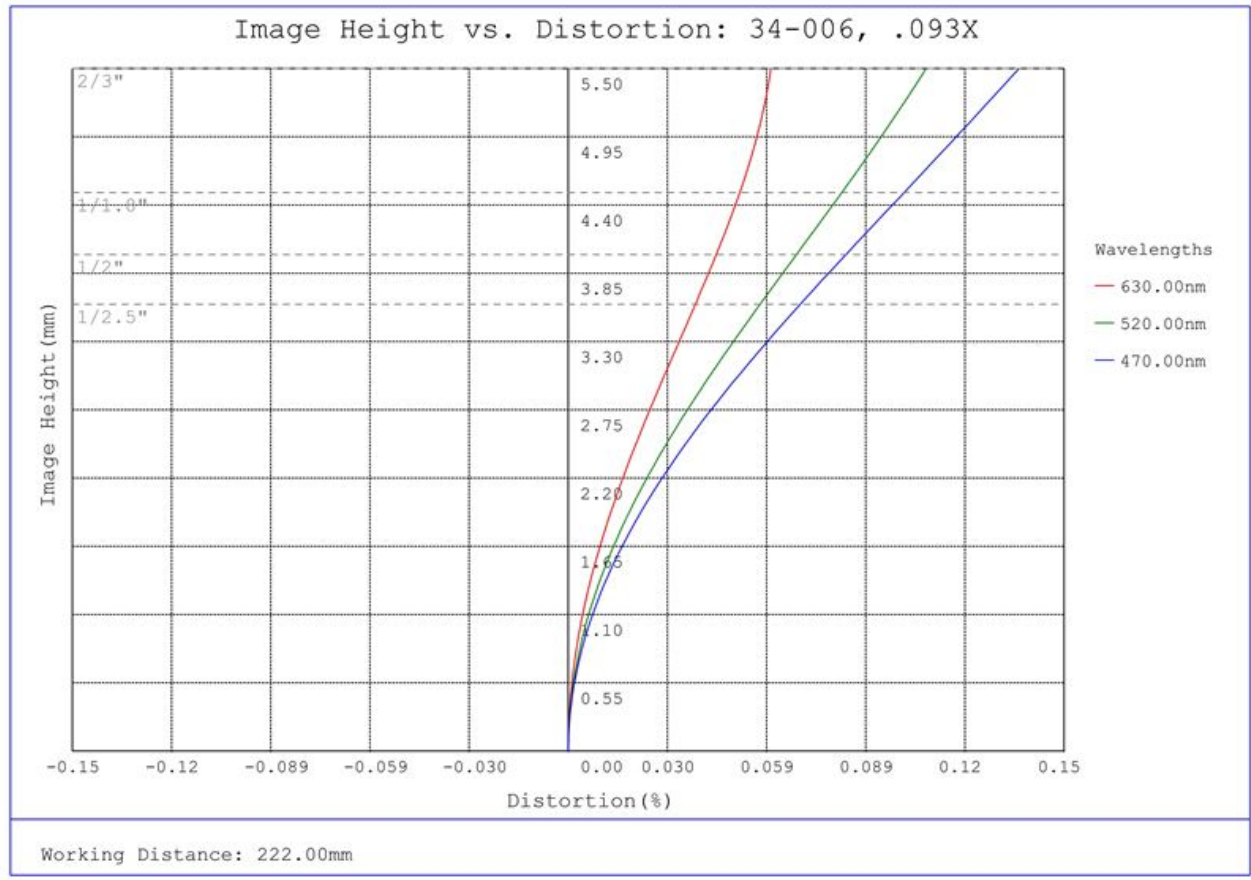
Horizontal Field of View, 1/2" Sensor:	68.5mm
Horizontal Field of View, 2/3" Sensor:	94.1mm
Maximum Image Circle (mm):	11.00
Numerical Aperture NA, Object Side:	0.0058
Resolution, Image Space:	70 lp/mm @ 40% (MTF, open)
Number of Elements (Groups):	6 (4)
Horizontal Field of View, 1/1.8" Sensor:	77.0mm
Primary Magnification PMAG:	0.093X
Working Distance (mm):	222
Aperture (f/#):	f/8 - f/22
Coating:	$\lambda/4$ MgF <sub>2</sub>
Depth of Field (mm):	±45.1mm (20% @ 20 lp/mm, open)
FOV @ Max Sensor Format, H x V (mm):	94.6 x 71.0
Resolution, Image Space MTF @ F8:	70 lp/mm @ 40%
Typical Distortion @ 520nm (%):	<0.10
Typical Telecentricity @ 520nm (°):	<0.1
Lens Wavelength Range:	VIS

## Sensor

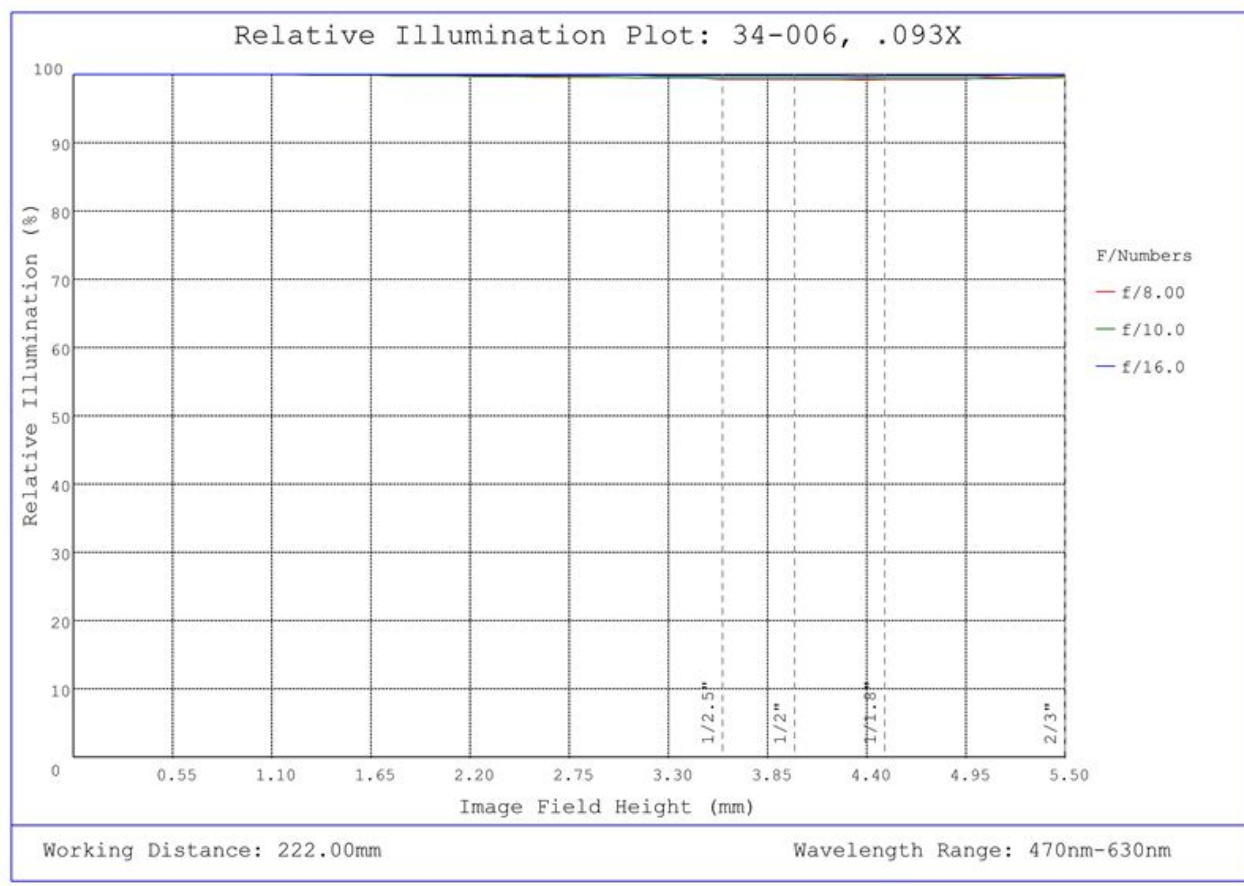
Maximum Sensor Format:	2/3"
------------------------	------

## Threading & Mounting

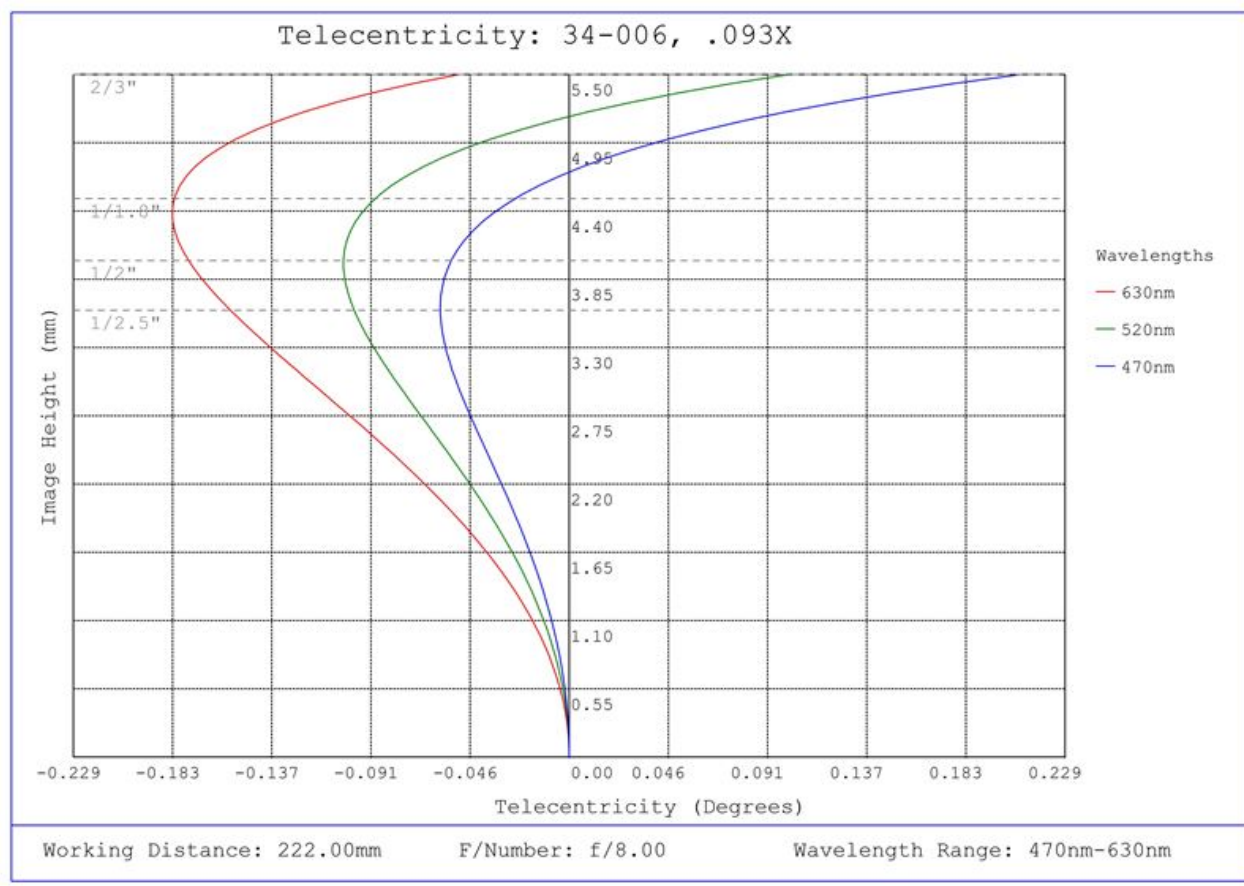
Mount:	C-Mount
--------	---------



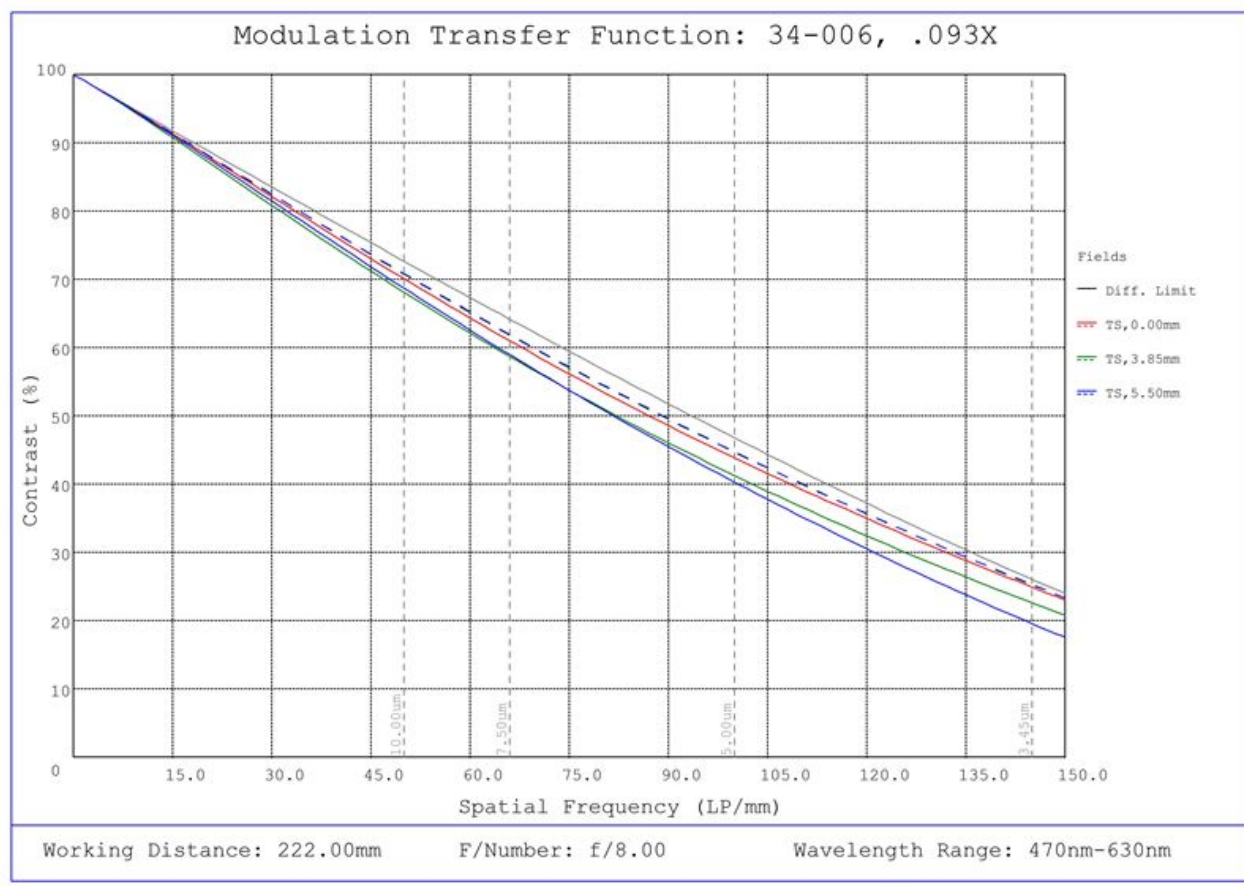
#34-006, 0.093X, 2/3" C-Mount TitanTL® Telecentric Lens, Distortion Plot



#34-006, 0.093X, 2/3" C-Mount TitanTL® Telecentric Lens, Relative Illumination Plot



#34-006, 0.093X, 2/3" C-Mount TitanTL® Telecentric Lens, Telecentricity Plot

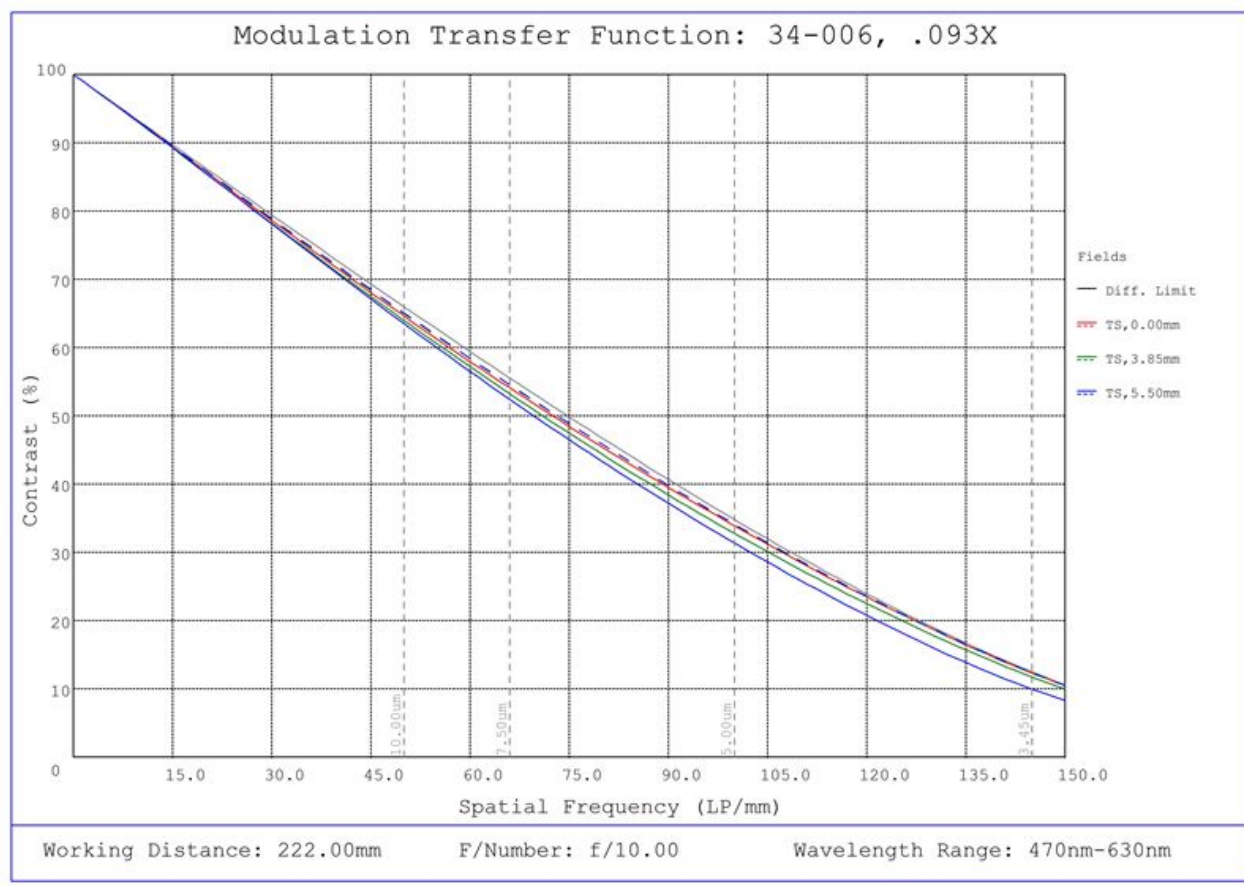


#34-006, 0.093X, 2/3" C-Mount TitanTL® Telecentric Lens, Modulated Transfer Function (MTF) Plot, 222mm Working Distance, f8



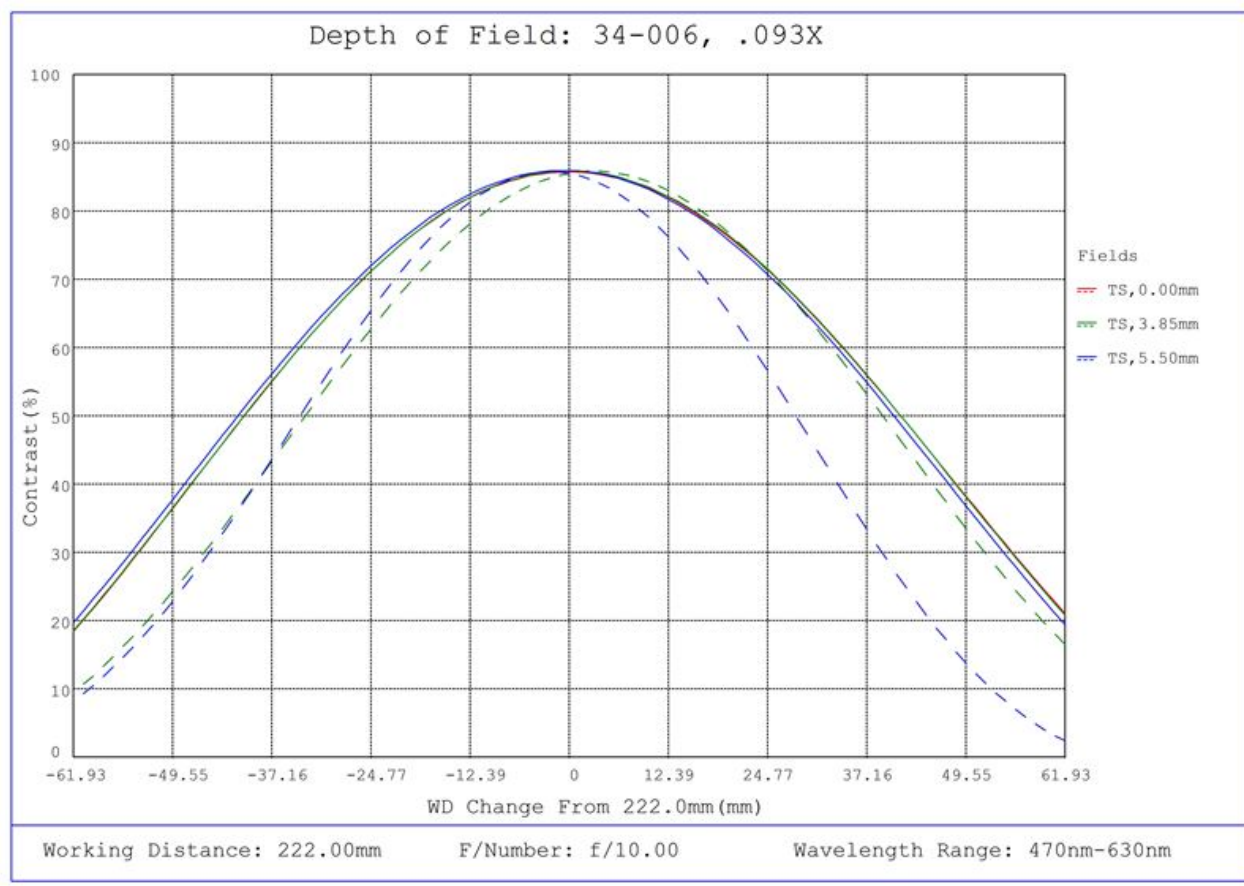
#34-006, 0.093X, 2/3" C-Mount TitanTL® Telecentric Lens, Depth of Field Plot, 222mm Working Distance, f8





#34-006, 0.093X, 2/3" C-Mount TitanTL® Telecentric Lens, Modulated Transfer Function (MTF) Plot, 222mm Working Distance, f10





#34-006, 0.093X, 2/3" C-Mount TitanTL® Telecentric Lens, Depth of Field Plot, 222mm Working Distance, f10



May 23, 2025

To Whom It May Concern,

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

Stock No.	Description
34-006	0.093X, 2/3" C-Mount TitanTL® 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  
May 23, 2025

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



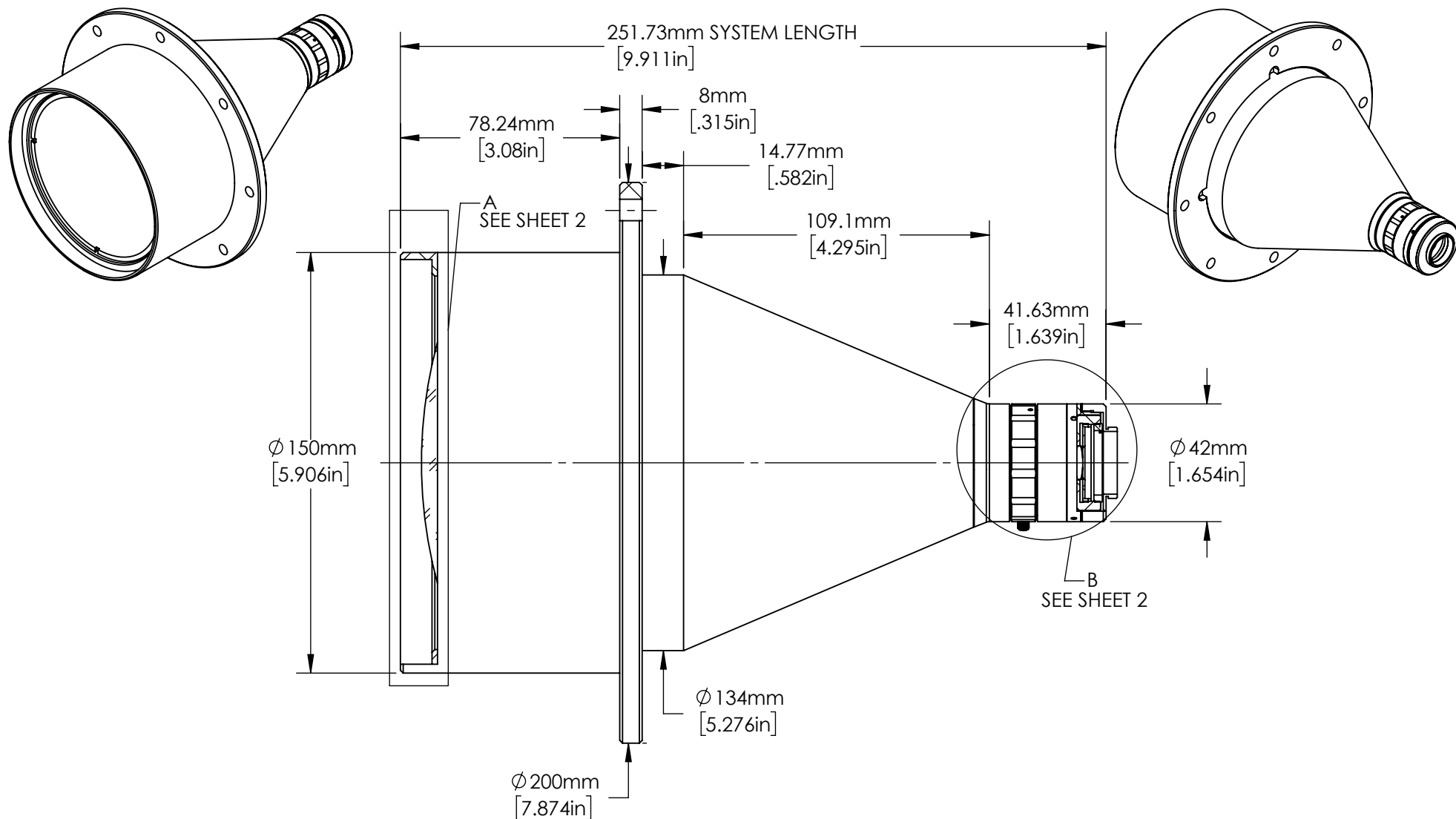
May 23, 2025

Stock No.	Description
34-006	0.093X, 2/3" C-Mount TitanTL® Telecentric Lens

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



**FOR INFORMATION ONLY:**  
**DO NOT MANUFACTURE**  
**PARTS TO THIS DRAWING**

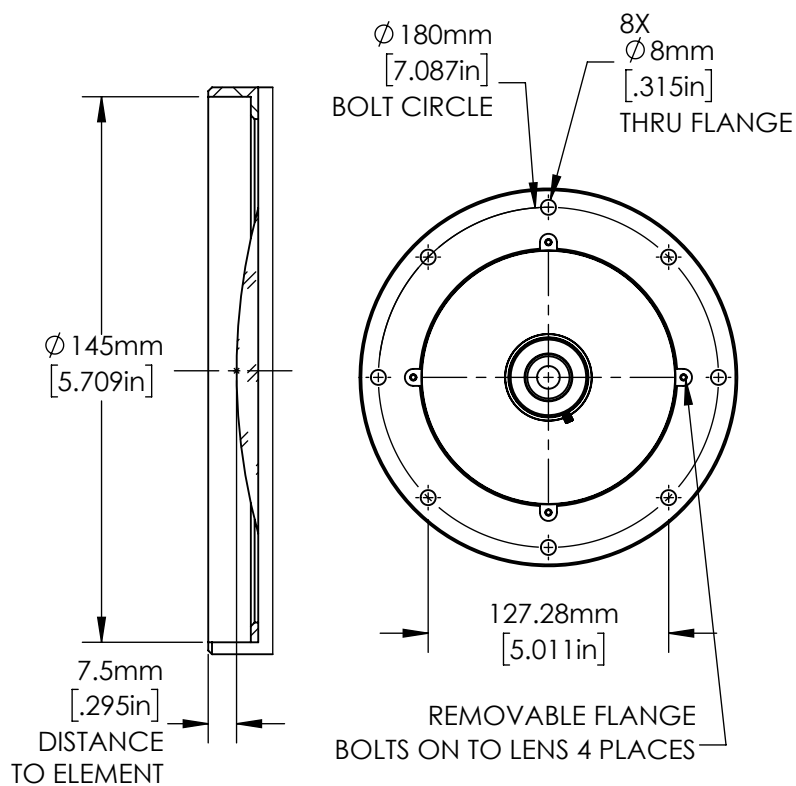
SPECIFICATIONS SUBJECT TO CHANGE  
 WITHOUT NOTICE.  
 DIMENSIONS ARE FOR REFERENCE ONLY.  
 FOR DETAILED SPECIFICATIONS,  
 PLEASE REFER TO THE SPEC SHEET.



**Edmund Optics®**

TITLE	0.093X, 2/3" C-Mount TitanTL® Telecentric Lens		
DWG NO	34006		SHEET 1 OF 2

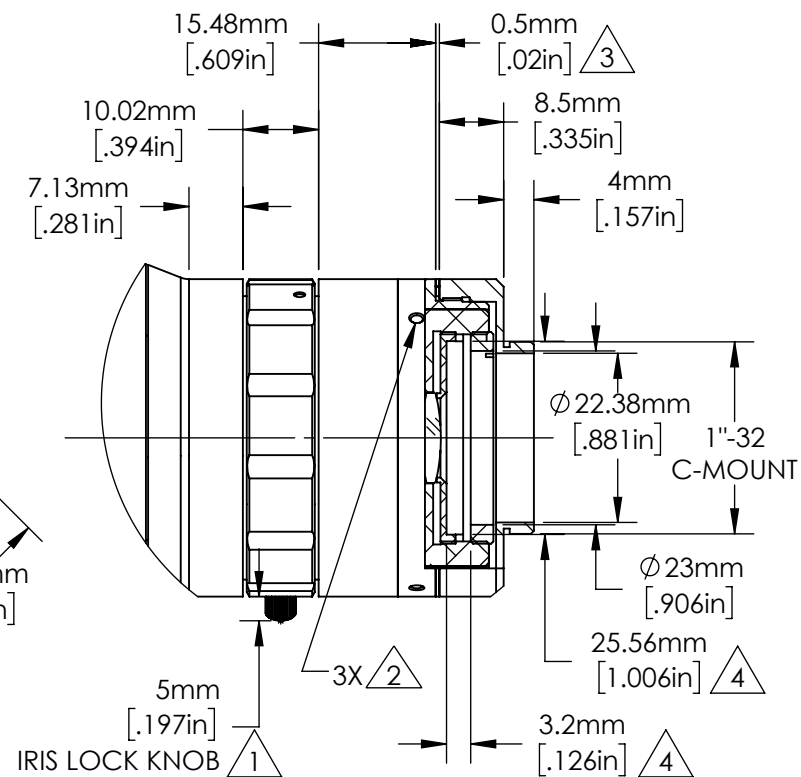
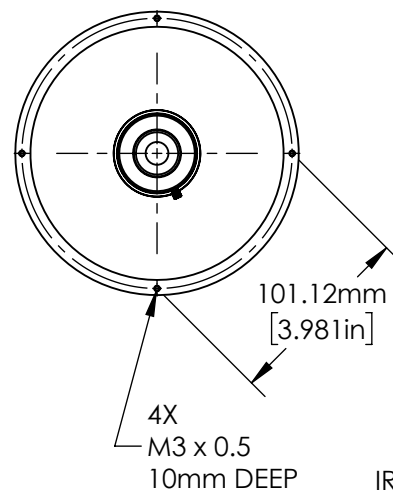
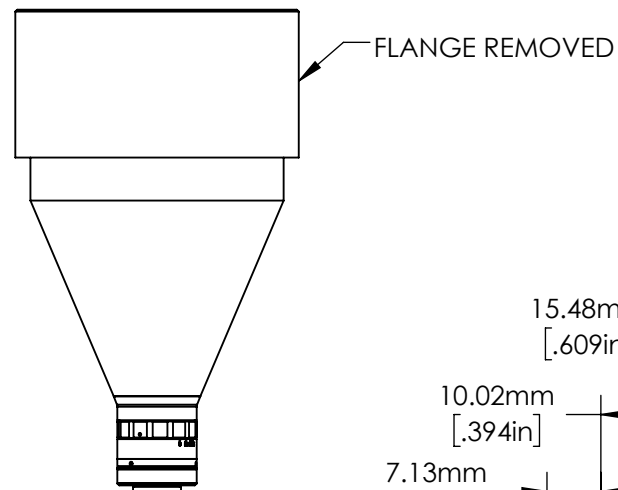
**FOR INFORMATION ONLY:**  
**DO NOT MANUFACTURE**  
**PARTS TO THIS DRAWING**



### DETAIL A

NOTES:

1. INCLUDES OPTIONAL RECESSED SET SCREW.
2. M2 SET SCREWS ALLOW LENS TO ROTATE ABOUT C-MOUNT.
3. FACTORY INSTALLED SPACER(S).
4. SPACE FOR A SEPARATELY PURCHASED FILTER.



DETAIL B

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE  
DIMENSIONS ARE FOR REFERENCE ONLY



TITLE	0.093X, 2/3" C-Mount TitanTL® Telecentric Lens		
DWG NO	34006		SHEET 2 OF 2

