

TECHSPEC® 1.0X M Series Fixed Magnification Non-Telecentric Lens
#87-533



TECHSPEC® M Series Variable Magnification Lenses are designed for applications that may require constant adjustment of a system's field of view. Each lens provides a range of magnifications that users can adjust or lock down with a set screw. With coverage for up to $\frac{2}{3}$ " format sensors, these lenses feature compact, C-mount compatible designs for easy system integration. TECHSPEC® M Series Variable Magnification Lenses also include an adjustable iris to control light throughput and improve image quality. These lenses are ideal for use in high magnification machine vision and factory automation.

Note: Customized magnification versions are also available to meet volume requirements. Please contact technical support to discuss your specific requirements.

General

Type:	Fixed Magnification Lens
Style:	Non-Telecentric, Fixed Magnification

Physical & Mechanical Properties

Iris Option:	Variable
Length (mm):	75.45
Maximum Diameter (mm):	30
Maximum Rear Protrusion (mm):	0

Optical Properties

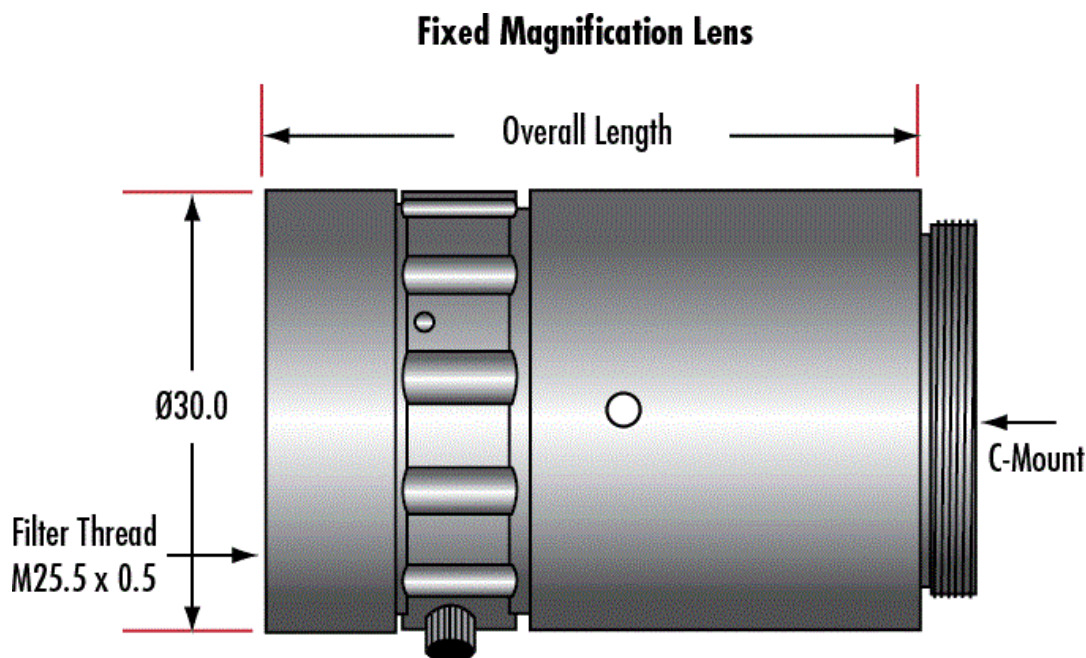
Resolution:	75 lp/mm @ >20%
Maximum Image Circle (mm):	11.00
Numerical Aperture NA, Object Side:	0.0559
Number of Elements (Groups):	5 (4)
Typical Distortion @ 588nm (%):	<0.02
Primary Magnification PMAG:	1.0X
Working Distance (mm):	61.5
Aperture (f/#):	f/4 - f/22
Coating Specification:	$\lambda/4$ MgF ₂ @ 550nm
Entrance Pupil Position (mm):	22.56
Object Space Principal Plane (mm):	13.59
Image Space Principal Plane (mm):	-16.06
Field of View at Max Sensor Format:	Horizontal: 8.9mm - 5.7° Vertical: 6.7mm - 4.3° Diagonal: 11.1mm - 7.1°
Maximum Distortion (%):	-0.01
FOV @ Max Sensor Format, H x V (mm):	8.8 x 6.6
Exit Pupil Position (mm):	-8.74
Lens Wavelength Range:	VIS

Sensor

Maximum Sensor Format:	2/3"
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Threading & Mounting

Filter Thread:	M25.5 x 0.50 (Female)
Mount:	C-Mount



April 18, 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
87-533	1.0X M Series Fixed Magnification Non-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
April 18, 2025

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



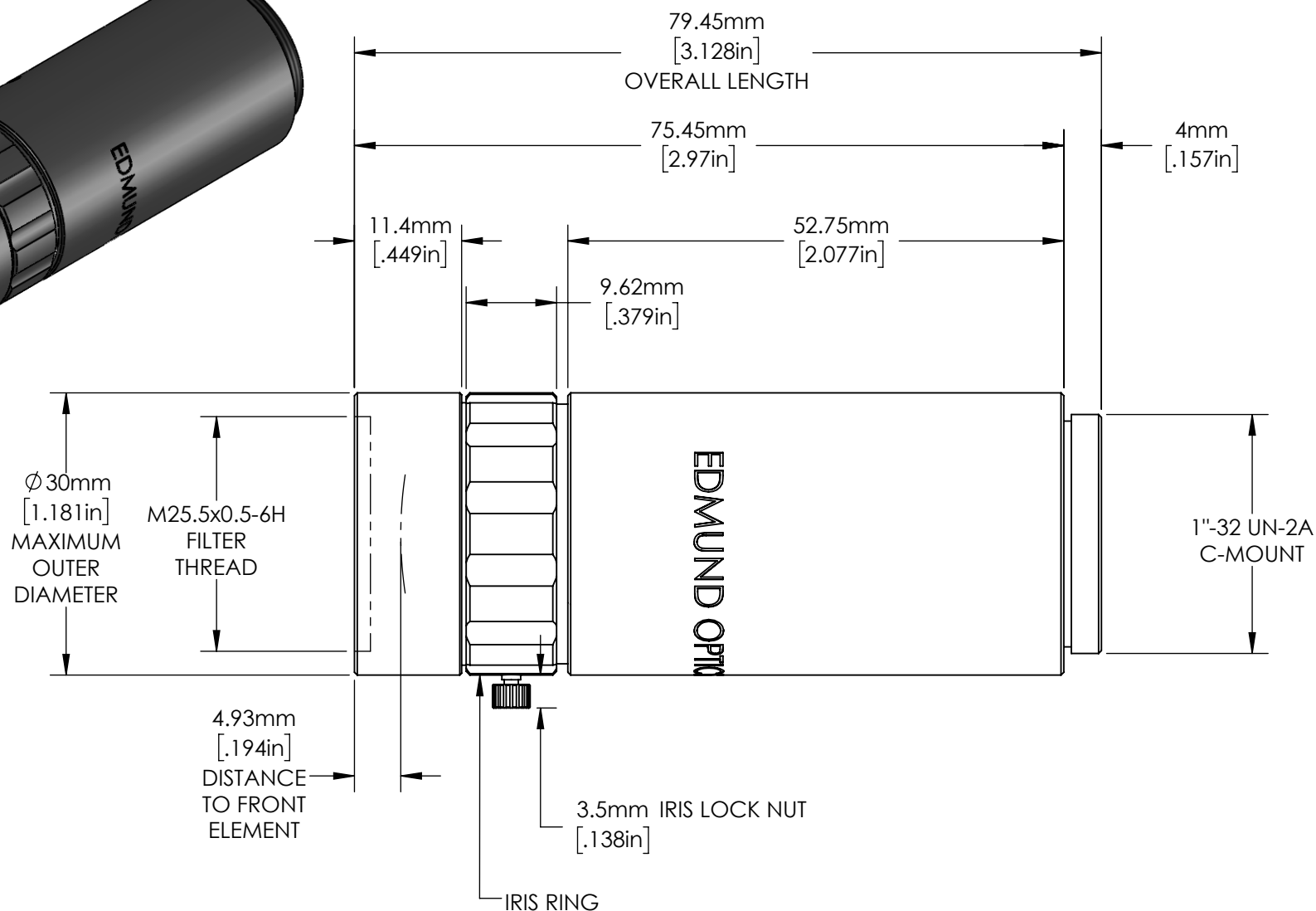
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Edmund Optics certifies that all articles included in this shipment are in compliance with the terms and conditions of this order. The company also certifies that the articles included in this shipment are in accordance to all agreed upon specifications 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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 FOR DETAILED SPECIFICATIONS,
 PLEASE REFER TO THE SPEC SHEET.



Edmund Optics®

TITLE 1.0X VariMagTL™ Fixed Magnification Non-Telecentric Lens

DWG NO 87533

SHEET
1 OF 1

