TECHSPEC® 75mm C Series Fixed Focal Length Lens

#33-310



Phone: 1-800-363-1992 or 1-856-573-6250, Fax: 1-856-573-6295
101 EAST GLOUCESTER PIKE | P.O BOX 9000
BARRINGTON, NJ 08007-1380 USA
www.edmundoptics.com

TECHSPEC® C Series Fixed Focal Length Lenses are designed for use in machine vision applications with the working distance and resolution requirements of factory automation and inspection in mind. TECHSPEC® C Series Fixed Focal Length Lenses feature large maximum apertures, allowing these high performance lenses to be used in even the most restrictive lighting conditions. Each lens has a broadband anti-reflection coating, locking iris and focus adjustment with recessed set screws, and a ruggedized, robust housing for space-restrictive applications. C Series lenses are manufactured to high tolerances, which result in high levels of imaging performance with low lens-to-lens variation. Through combining optical performance, industrial features, and compact package sizes, our TECHSPEC® C Series Fixed Focal Length Lenses are ideal for use in factory automation and inspection.

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General

Product Family:	C Series
Type:	Fixed Focal Length Lens

Physical & Mechanical Properties

Iris Option:	Variable
Length (mm):	98.76
Maximum Diameter (mm):	48
Outer Diameter (mm):	48
Maximum Rear Protrusion (mm):	7.24

Optical Properties

Horizontal Field of View @ Max Sensor Format:	5.76°
Field of View at Max Sensor Format:	Horizontal: 5.76° Vertical: 4.32° Diagonal: 7.19°
Horizontal Field of View, 2/3" Sensor:	5.76°
Horizontal Field of View, 1/1.8" Sensor:	4.71°
Horizontal Field of View, 1/2" Sensor:	4.19°
Horizontal Field of View, 1/2.5" Sensor:	3.77°
Horizontal Field of View, 1/3" Sensor:	3.14°
Maximum Image Circle (mm):	11.00
Numerical Aperture NA, Object Side:	0.05111
Number of Elements (Groups):	7 (6)
Focal Length FL (mm):	75.00
Working Distance (mm):	500 - ∞
Aperture (f/#):	f/2.0 - f/16.0
Coating:	425 - 675nm BBAR
Coating Specification:	425 - 675nm BBAR
Entrance Pupil Position (mm):	63.265
Object Space Principal Plane (mm):	-15.01
Image Space Principal Plane (mm):	-64.79
Maximum Distortion (%):	0.068
Exit Pupil Position (mm):	-31.983
Lens Wavelength Range:	VIS

Sensor

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Maximum Sensor Format:	2/3"
Pixel Size (µm):	2.74

Threading & Mounting

Filter Thread:	M43 x 0.75 (Female)
Mount:	C-Mount

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November 09, 2026

To Whom It May Concern,

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

Stock No.	*Description*
33-310	75mm C Series Fixed Focal Length Lens

This item is EU RoHS (2015/863/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
November 09, 2026

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

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Stock No.	Description
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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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This item does not contain any of the substances listed on the Reach SVHC list as of 05 November 2025 in quantities exceeding 0.1% weight by weight.

Please note the following:

- Entry 11 of Annex V of the REACH regulation EC 1907/2006 as amended by regulation 987/2008, exempts “non-hazardous” glass components from registration.
- Items considered to be packing materials and which do not form part of, or are not required for the operation of, the product, are not considered to be within scope of this declaration.
- EO does not routinely analyze products for substances not purposely added or specified within the design specifications, drawings and assembly procedures.

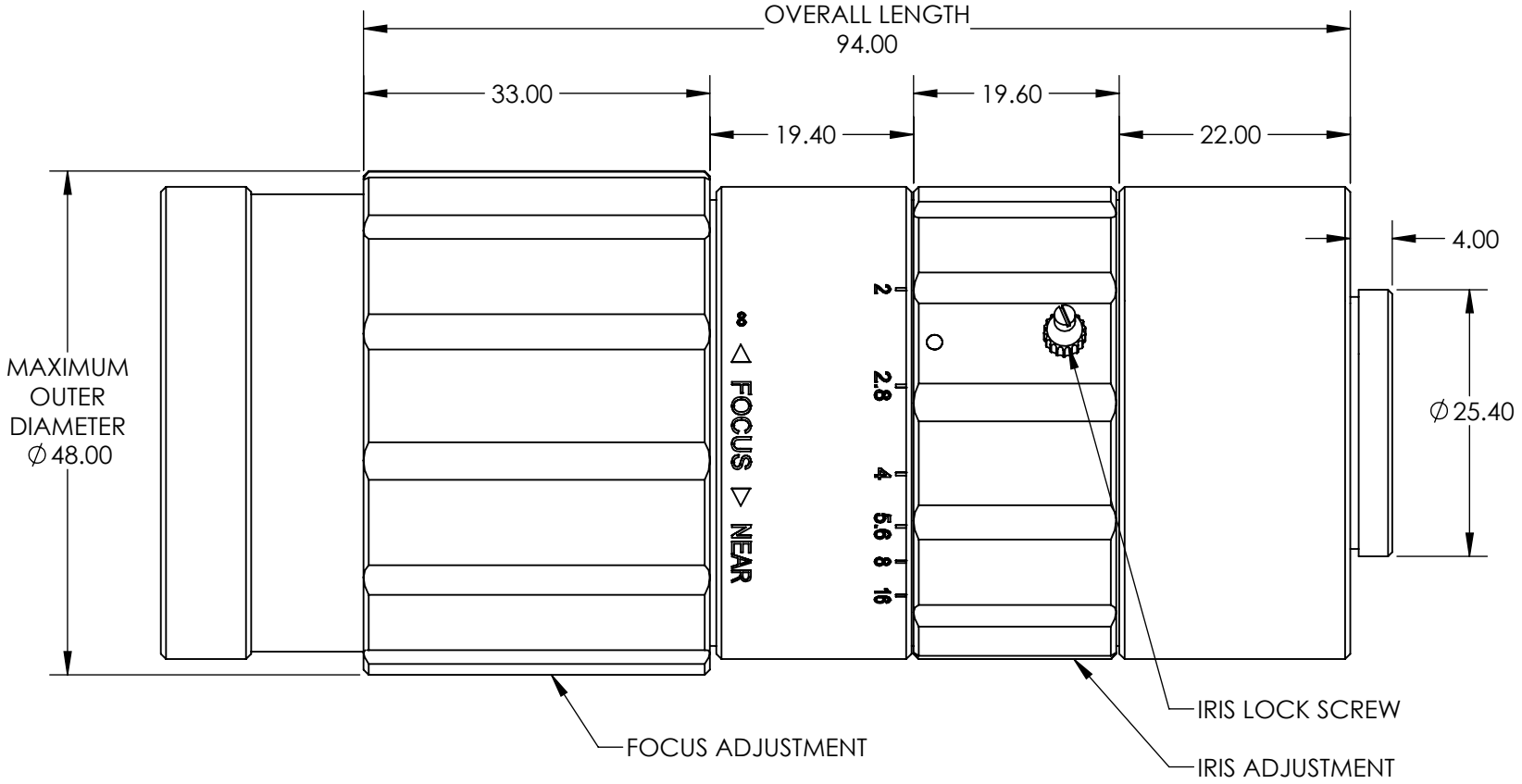
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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
DIMENSIONS ARE FOR REFERENCE ONLY

Edmund Optics®

THIRD ANGLE PROJECTION		TITLE	75mm C Series Fixed Focal Length Lens	
ALL DIMS IN	mm	DWG NO	33310	SHEET 1 OF 1