

## 0.69X 65mm WD, In-Line Illumination 1.2" Telecentric Lens

#72-171



1.2" Sensor In-Line Illumination Telecentric Lenses

1.2" Sensor In-Line Illumination Telecentric Lenses are designed for cameras with SONY IMX367, 530, and 540 or equivalents allowing for large fields of view. These lenses are designed with an in-line illumination port that accepts a 1/4" fiber optic light guide with incorporated M3 set screws in the in-line illumination port to light guide and include a lockable ring to rotate the lens and ensure alignment with the camera sensor. These telecentric lenses are designed to achieve high coaxial uniformity on 3 $\mu$ m, 24.5MP sensors and reduce parallax errors yielding maximum image quality with an excellent degree of measurement accuracy. 1.2" Sensor In-Line Illumination Telecentric Lenses are available in magnifications ranging from 0.5X – 3.45X and offer low f/#s and a low distortion of <0.01%. These lenses are ideal for applications including machine vision, metrology, automotive and electronic inspection, measurement, and gauging.

**Note:** 1/4" [Fiber optic light guides](#) are sold separately.

## General

Type:	Telecentric Lens
Style:	In-Line Illumination
Compatible Light Guide/Source:	1/4" (0.312")

## Physical & Mechanical Properties

Length (mm):	160.00
Ferrule Diameter (inches):	0.312
Maximum Diameter (mm):	19.3

## Optical Properties

Horizontal Field of View, 1/2" Sensor:	9.8mm
Horizontal Field of View, 2/3" Sensor:	11.6mm
Horizontal Field of View @ Max Sensor Format:	21.01mm
Primary Magnification PMAG:	0.69X
Working Distance (mm):	65.00
Aperture (f/#):	f/6.0
Distortion (%):	<0.01%
Lens Wavelength Range:	VIS

## Sensor

Maximum Sensor Format:	1.2"
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## Threading & Mounting

Mount:	C-Mount
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May 28, 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
72-171	0.69X 65mm WD, In-Line Illumination 1.2" 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 28, 2025

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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