

1.0X, High Resolution Inline Telecentric Lens



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General

Series:
High Res In-Line Illumination C-Mnt Telecentric Lenses

Note:
Magnification Tolerance %: ±3

Type:
Telecentric Lens

Compatible Light Guide/Source:
1/4" (0.312")

Type of Illumination:
In-Line Illumination

Physical & Mechanical Properties

200.00 **Length (mm):**

45 **Maximum Diameter (mm):**

Optical Properties

8.8mm **Horizontal Field of View, 2/3" Sensor:**

11.00 **Maximum Image Circle (mm):**

0.072 **Numerical Aperture NA, Object Side:**

5.20 **Resolving Power, Image Space (μm):**

± 1.00 **Working Distance Tolerance (mm):**

1X **Primary Magnification PMAG:**

1.00 **Telecentric Lens Magnification:**

120.00 **Working Distance (mm):**

f/7 - Closed **Aperture (f/#):**

≤ 0.05 **Distortion (%):**

1X **Magnification:**

VIS **Lens Wavelength Range:**

Sensor

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

2.60 **Pixel Size (μm):**

Threading & Mounting

N/A **Filter Thread:**

C-Mount **Mount:**

Regulatory Compliance

[View](#) **Certificate of Conformance:**

Product Details

- Designed for High Resolution Imaging
- In-line Illumination Port (0.312" Ferrule)
- 2/3" Max. Sensor Format

This line of high resolution telecentrics was designed to allow of in-line illumination. This make them ideal for applications that need intense and direct illumination. The coaxial port accepts 1/4" fiber bundles with a 0.312" ferrule diameter, which readily connects to our wide selection of light guides and illuminators.

The lenses feature a standard C-Mount threading to connect to the most common 2/3" and smaller machine vision cameras. Designed to have $\pm 0.05\%$ distortion, these lenses are perfect for challenging measurement applications.