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55mm Focal Length Partially Telecentric Video Lens



55mm Focal Length Partially Telecentric Video Lens, #52-271

Stock **#52-271** **20+ In Stock**

⊖ 1 ⊕ £587⁰⁰

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Product Downloads

General

Series:
55mm FL Partially-Telecentric Imaging Lenses

Note:
PMAG: Non-Telecentric: 0.5X - 0X
Telecentric: 0.5X - 0.4X
Working Distance (mm): Non-Telecentric: 127 - ∞
Telecentric: 127 - 158.75

Type:
Telecentric Lens

Special Type of Lens:

Partially Telecentric

Physical & Mechanical Properties

Variable **Iris Option:**

92.90 **Length (mm):**

53 **Maximum Diameter (mm):**

53 **Outer Diameter (mm):**

314.68 **Weight (g):**

Optical Properties

Horizontal Field of View, 1/2" Sensor:
Non-Telecentric: 12.8mm - 6.7°
Telecentric: 12.8 - 16.0mm

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

55.00 **Focal Length FL (mm):**

0.5X - 0.4X **Primary Magnification PMAG:**

127 - 158.75 **Working Distance (mm):**

f/2.8 - f/32 **Aperture (f#):**

<1.0 **Distortion (%):**

0.5X - 0.4X **Magnification:**

1 **Maximum Distortion (%):**

VIS **Lens Wavelength Range:**

Sensor

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

7.00 **Pixel Size (µm):**

Threading & Mounting

M43 x 0.75 **Filter Thread:**

C-Mount **Mount:**

Regulatory Compliance

[Exempt](#) **RoHS 2015:**

[Contains SVHC\(s\)](#) **Reach 224:**

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

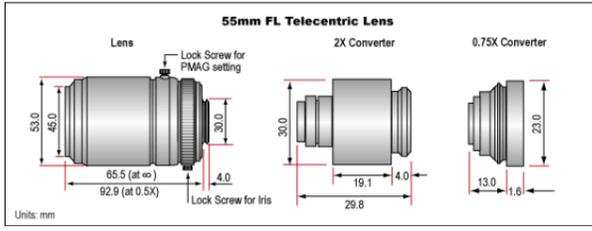
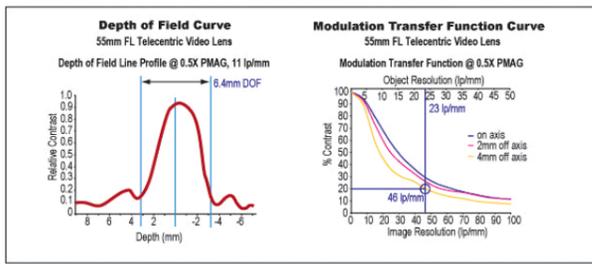
Product Details

- 2/3", C-Mount Lens
- Up to 1.3 MegaPixels, 7µm Pixel Size Sensors
- Function as Both Macro and Telecentric Lens
- ±12.5mm of Object Movement Before 1% Error Image Scale Occurs

55mm FL Partially-Telecentric Imaging Lenses allow ±12.5mm of object movement (at 0.5X magnification) before a 1% error in image scale occurs, while conventional lenses permit typically ±1.7mm of movement under the same conditions. Telecentric lenses yield constant magnification over a range of working distances, virtually eliminating viewing angle error. The lens' protective window (at C-Mount end) needs to be removed for use with adapter lenses. 55mm FL Partially-Telecentric Imaging Lenses are ideal in machine vision applications requiring accurate measurement of three-dimensional objects with slight height variations. By eliminating the perspective distortion and magnification error inherent in conventional lenses, they yield dimensionally accurate images that are easily interpreted by software.

For mounting these lenses, our [Industrial Boom Stands](#) and mounting adapters are recommended as workstation platforms. Ring light guides can not be mounted directly on this lens because of the front focusing adjustment.

Technical Information



| | Telecentric Specifications | | Non-Telecentric Specifications | |
|-----------------------------------|----------------------------|--|--------------------------------|---------------------------|
| | Lens with 2X Converter | | Lens with 2X Converter | Lens with 0.75X Converter |
| Primary Magnification PMAG | 1.0X - 0.4X (full range) | | 1.0X - 0X | 0.375X - 0X |
| Field of View | 6.4 - 16.0mm | | 6.4mm - 3.3° | 17.0 - 8.9° |
| Working Distance | 5.25" - 11.25" | | 5.25" - ∞ | 5" - ∞ |