

55mm Focal Length Partially Telecentric Video Lens



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

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

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1

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S\$1,027⁰⁰

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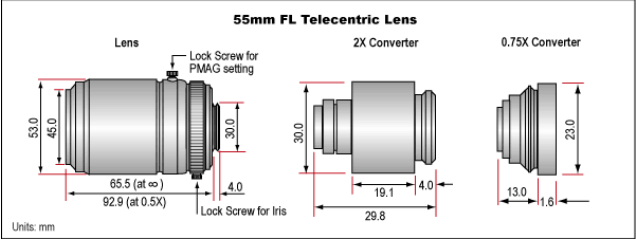
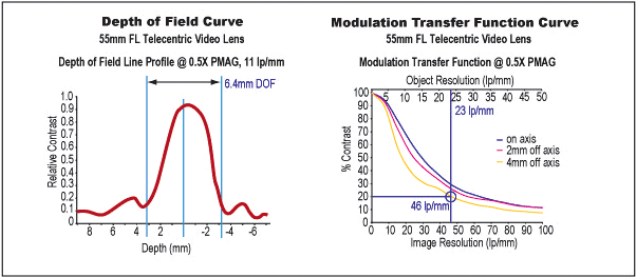
General	
Series: 55mm FL Partially-Telecentric Imaging Lenses	
Note: PMAG: Non-Telecentric: 0.5X - 0X Telecentric: 0.5X - 0.4X Working Distance (mm): Non-Telecentric: 127 - ∞ Telecentric: 127 - 158.75	
Type: Telecentric Lens	
Special Type of Lens: Partially Telecentric	

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" - ∞