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E Series 16mm ⅔" Format Fixed Focal Length Lens

Stock **#27-043** **20+ In Stock**

- 1 + **A$414**.40

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Qty 1+	**A$414.40** each
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General

Product Family:
E Series

Physical & Mechanical Properties

Iris Option:
Variable

Length (mm):
38.10

Outer Diameter (mm):	25

Optical Properties

Horizontal Field of View, 2/3" Sensor:	30.7°
Maximum Image Circle (mm):	11.00
Number of Elements (Groups):	6 (5)
Focal Length FL (mm):	16.00
Working Distance (mm):	250 - ∞
Aperture (f/#):	f/4 - f/16
Coating:	λ/4 MgF_2
Maximum Distortion (%):	0.99
Lens Wavelength Range:	VIS

Sensor

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

Threading & Mounting

Filter Thread:	M22.5x0.5
Mount:	C-Mount

Regulatory Compliance

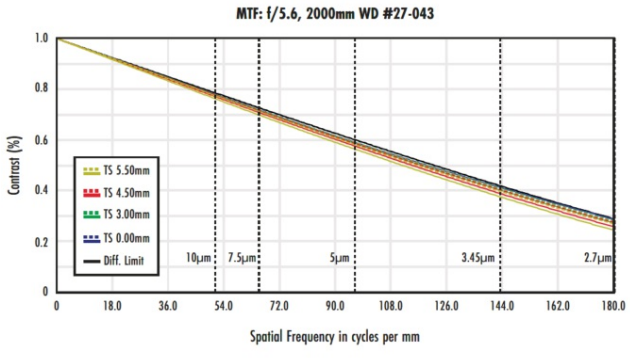
Certificate of Conformance:	View

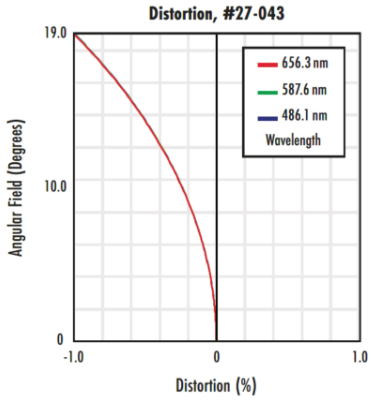
Product Details

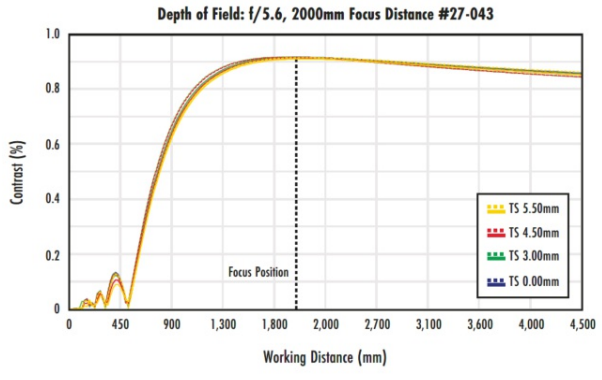
- Cost Effective Solution for Systems that Require Large Depth of Field
- Up to ⅔", C-Mount Lens
- Ideal for Logistics and Barcode Scanning Applications

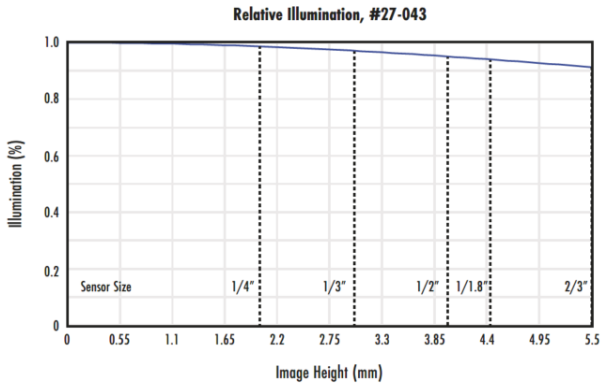
Edmund Optics E Series Fixed Focal Length Lenses provide an affordable fixed focal length imaging solution without compromising performance. These lenses are designed for logistics applications that need to identify product size and shape, read barcodes, and help find product locations. These systems often don't require lenses designed with more demanding specifications like large format sensor coverage and small pixels, which can be costly. Edmund Optics E Series Fixed Focal Length Lenses are a balance of performance and cost designed with a maximum format of 2/3". To maintain affordability in prototyping and mass production, the lens housings have been simplified by removing focusing mechanics. However, the focus can still be adjusted by threading the lenses into and out of the camera, then locked with a locking ring. These lenses maintain performance control with an adjustable iris ranging from f/4 to f/16.

Technical Information




Distortion, #27-043
19.0
10.0
0
-1.0
0
1.0
Angular Field (Degrees)
Distortion (%)
656.3 nm
587.6 nm
486.1 nm
Wavelength


Depth of Field: f/5.6, 2000mm Focus Distance #27-043
1.0
0.8
0.6
0.4
0.2
0
Contrast (%)
Focus Position
TS 5.50mm
TS 4.50mm
TS 3.00mm
TS 0.00mm
0
450
900
1,300
1,800
2,000
2,700
3,100
3,600
4,000
4,500
Working Distance (mm)


Relative Illumination, #27-043
1.0
0.8
0.6
0.4
0.2
0
Illumination (%)
Sensor Size
1/4"
1/3"
1/2"
1/1.8"
2/3"
0
0.55
1.1
1.65
2.2
2.75
3.3
3.85
4.4
4.95
5.5
Image Height (mm)

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