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E Series 6mm ⅔" Format Fixed Focal Length Lens

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- 1 + €259.00

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General

Product Family:
E Series

Note:
It is recommended to use C-Mount Camera Imaging Filters when filters are required.

Imaging Lens Type:
Fixed Focal Length Lens

Physical & Mechanical Properties

Iris Option:
Variable

Length (mm):
41.01

Maximum Diameter (mm):
30.0

Outer Diameter (mm):
30.0

Maximum Rear Protrusion (mm):
1.85

Maximum Length (mm):
41.01

Optical Properties

Horizontal Field of View @ Max Sensor Format:
76.7°

Horizontal Field of View, 1/1.8" Sensor:
64.9°

Horizontal Field of View, 1/2" Sensor:
58.5°

Maximum Image Circle (mm):
11.00

Numerical Aperture NA, Object Side:
0.002

Number of Elements (Groups):
8 (7)

Wavelength Range (nm):
400 - 700

Focal Length FL (mm):
6.00

Working Distance (mm):
250 - ∞

Aperture (f/#):
f/4 - f/16

Back Focal Length BFL (mm):
0.849

Coating:
λ/4 MgF_2

Entrance Pupil Position (mm):
11.65

Object Space Principal Plane (mm):
16.17

Image Space Principal Plane (mm):
6.91

Maximum Distortion (%):
2.42

Exit Pupil Position (mm):
-11.23

Lens Wavelength Range:
VIS

Wavelength:
VIS

Sensor

Optimized Sensor Format:
2/3"

Maximum Sensor Format:
2/3"

Pixel Size (µm):
2.74

Threading & Mounting

Filter Thread:
N/A

Front Thread:
M30.5 x 0.5 (Male)

Mount:
C-Mount

Environmental & Durability Factors

Storage Temperature (°C):
-20 to +60 For questions regarding operating

temperature please contact our support team

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.

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