

TECHSPEC[®] 100mm SWIR Series Fixed Focal Length Lens, M42 x 1.0



100mm SWIR Series Fixed Focal Length Lens

Stock #83-172 ■ In Stock

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Iris Option:

Variable

Length (mm):

191.80

Horizontal Field of View, 1/2" Sensor:

26.4mm - 3.6°

Horizontal Field of View, 2/3" Sensor:

36.3mm - 5.0°

Filter Thread:

M72 x0.75 (Female)

Maximum Diameter (mm): 84
Outer Diameter (mm): 84.00
Weight (g): 1853
Horizontal Field of View, 1/3" Sensor: 19.8mm - 2.7°
Maximum Rear Protrusion (mm): 0
Horizontal Field of View, 1" Sensor: 52.8mm - 7.3°
Maximum Image Circle (mm): 25.60
Numerical Aperture NA, Object Side: 0.0455
Horizontal Field of View @ Max Sensor Format: 71.4mm - 9.9°
Flange Distance (mm): 5.8
Horizontal Field of View, 4/3" Sensor: 71.4mm - 9.97°
Horizontal Field of View, 1.1" Sensor: 58.6mm - 8.1°
Number of Elements (Groups): 10 (10)
Note: Lens will cover larger 25.6mm and 20.5mm line scan sensors.
Horizontal Field of View, 1/1.8" Sensor: 29.7mm - 4.1°
Horizontal Field of View, 1/2.5" Sensor: 23.9mm - 3.3°
Type: Fixed Focal Length Lens
Focal Length FL (mm): 100.00
Primary Magnification PMAG: 0.243
Maximum Sensor Format: 4/3"
Working Distance (mm): 400 - ∞
Mount: M42 x 1.0
Aperture (f/#): f/2.25 - f/22
Coating: 0.8 - 1.8µm BBAR
Coating Specification: 0.8 - 1.8µm BBAR
Entrance Pupil Position (mm): 81.86
Horizontal Field of View, 1/4" Sensor: 14.8mm - 2.1°
Object Space Principal Plane (mm): 105.28
Image Space Principal Plane (mm): -51.10
Field of View at Max Sensor Format: Horizontal: 84.5mm - 11.7° Vertical: 63.3mm - 8.8° Diagonal: 105.4mm - 14.6°
Maximum Distortion (%): -0.25
Exit Pupil Position (mm): -81.67
Horizontal Field of View, 25.6mm Sensor: 104.1mm - 14.6°
Horizontal Field of View, 20.5mm Sensor: 83.2mm - 11.7°
Lens Wavelength Range: SWIR

Imaging Lens Type:
SWIR Lens

Storage Temperature (°C):
-20 to +60 For questions regarding operating temperature please contact our support team

Regulatory Compliance

RoHS:
[Compliant](#)

Certificate of Conformance:
[View](#)