

TECHSPEC® 50mm SWIR Series Fixed Focal Length Lens, M42 x 1.0



50mm SWIR Fixed Focal Length Lens

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1

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Iris Option:
Variable

Length (mm):
124.00

Horizontal Field of View, 1/2" Sensor:
36.3mm - 7.3°

Horizontal Field of View, 2/3" Sensor:
50.0mm - 10.0°

Filter Thread:
M43 x0.75 (Female)

Maximum Diameter (mm): 56
Outer Diameter (mm): 56.0
Weight (g): 572
Horizontal Field of View, 1/3" Sensor: 27.2mm - 5.5°
Maximum Rear Protrusion (mm): 0
Horizontal Field of View, 1" Sensor: 72.7mm - 14.6°
Maximum Image Circle (mm): 25.60
Numerical Aperture NA, Object Side: 0.037
Horizontal Field of View @ Max Sensor Format: 98.5mm - 19.7°
Flange Distance (mm): 5.8
Horizontal Field of View, 4/3" Sensor: 98.5mm - 19.7°
Horizontal Field of View, 1.1" Sensor: 80.7mm - 16.2°
Number of Elements (Groups): 10 (6)
Note: Lens will cover larger 25.6mm and 20.5mm line scan sensors.
Horizontal Field of View, 1/1.8" Sensor: 40.9mm - 8.2°
Horizontal Field of View, 1/2.5" Sensor: 32.9mm - 6.6°
Type: Fixed Focal Length Lens
Focal Length FL (mm): 50.00
Primary Magnification PMAG: 0.177
Maximum Sensor Format: 4/3"
Working Distance (mm): 275 - ∞
Mount: M42 x 1.0
Aperture (f/#): f/2.15 - f/16
Coating: 0.8 - 1.8µm BBAR
Coating Specification: 0.8 - 1.8µm BBAR
Entrance Pupil Position (mm): 27.75
Horizontal Field of View, 1/4" Sensor: 20.4mm - 4.1°
Object Space Principal Plane (mm): 47.17
Image Space Principal Plane (mm): -28.14
Field of View at Max Sensor Format: Horizontal: 116.8mm - 23.3° Vertical: 87.4mm - 17.5° Diagonal: 146.3mm - 29°
Maximum Distortion (%): -1.02
Exit Pupil Position (mm): -59.88
Horizontal Field of View, 25.6mm Sensor: 140.7mm - 29.8°
Horizontal Field of View, 20.5mm Sensor: 112.3mm - 23.4°
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](#)