

50mm FL SWIR Series Fixed Focal Length Lens



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General

Product Family:
1" SWIR Series Fixed Focal Length Lenses

Type:
Fixed Focal Length Lens

Physical & Mechanical Properties

Iris Option:
Variable

Length (mm):
48.00

47.5 Maximum Diameter (mm):

47.5 Outer Diameter (mm):

210 Weight (g):

Optical Properties

115.00 Field of View @ Min Working Distance (mm):

14.5° Horizontal Field of View, 1" Sensor:

16.00 Maximum Image Circle (mm):

50.00 Focal Length FL (mm):

500 - ∞ Working Distance (mm):

f/1.4 - f/16 Aperture (f/#):

<-0.1 Distortion (%):

0.05 Maximum Distortion (%):

SWR Lens Wavelength Range:

Sensor

1" Maximum Sensor Format:

4.50 Pixel Size (µm):

Threading & Mounting

M40.5 x 0.50 Filter Thread:

C-Mount Mount:

Regulatory Compliance

[Exempt](#) RoHS 2015:

[View](#) Certificate of Conformance:

[Contains SVHC\(s\)](#) REACH 241:

Product Details

- 1", C-Mount Lens
- Spectral Range of 800 - 2000nm for InGaAs SWIR Sensors
- 8mm to 50mm Focal Lengths

Short Wave Fixed Focal Length Lenses are the best choice for use with SWIR cameras. The SWIR spectrum is an ideal choice for a variety of applications, including solar cell inspection, security, and biomedical imaging. When utilized in conjunction with a SWIR camera, these lenses will permit imaging through silicon, imaging outdoors without additional illumination, detecting bruising on fruit, and a host of additional infrared applications.

Technical Information



