

## 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

Maximum Diameter (mm):

47.5

Outer Diameter (mm):

47.5

Weight (g):

210

## Optical Properties

Field of View @ Min Working Distance (mm):

115.00

Horizontal Field of View, 1" Sensor:

14.5°

Maximum Image Circle (mm):

16.00

Focal Length FL (mm):

50.00

Working Distance (mm):

500 - ∞

Aperture (f/#):

f/1.4 - f/16

Distortion (%):

<-0.1

Maximum Distortion (%):

0.05

Lens Wavelength Range:

SWIR

## Sensor

Maximum Sensor Format:

1"

Pixel Size (µm):

4.50

## Threading & Mounting

Filter Thread:

M40.5 x 0.50

Mount:

C-Mount

## Regulatory Compliance

RoHS 2015:

[Exempt](#)

Certificate of Conformance:

[View](#)

REACH 241:

[Contains SVHC\(s\)](#)

## 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

### SWIR Fixed Focal Length Lenses



