

## 50mm FL SWIR Series Fixed Focal Length Lens



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### Volume Pricing

Qty 1+	£1,829.00 each
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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	<b>Maximum Diameter (mm):</b>
47.5	<b>Outer Diameter (mm):</b>
47.5	<b>Weight (g):</b>
210	

### Optical Properties

115.00	<b>Field of View @ Min Working Distance (mm):</b>
14.5°	<b>Horizontal Field of View, 1" Sensor:</b>
16.00	<b>Maximum Image Circle (mm):</b>
50.00	<b>Focal Length FL (mm):</b>
500 - ∞	<b>Working Distance (mm):</b>
f/1.4 - f/16	<b>Aperture (f/#):</b>
<-0.1	<b>Distortion (%):</b>
0.05	<b>Maximum Distortion (%):</b>
SWIR	<b>Lens Wavelength Range:</b>

### Sensor

1"	<b>Maximum Sensor Format:</b>
4.50	<b>Pixel Size (µm):</b>

### Threading & Mounting

M40.5 x 0.50	<b>Filter Thread:</b>
C-Mount	<b>Mount:</b>

### Regulatory Compliance

<a href="#">Exempt</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Contains SVHC(s)</a>	<b>REACH 241:</b>

## 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



