

50mm FL SWIR Series Fixed Focal Length Lens



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General

Series:
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 (%):
SWIR	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:
Japan	Country of Origin:
Edmund Optics India Private Limited	Imported By:

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

