

50mm Focal Length Lens, 1" Sensor Format



1" Format Fixed Focal Length Lenses



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General

1" Format Fixed Focal Length Lenses	Series:
Fixed Focal Length Lens	Type:

Physical & Mechanical Properties

Iris Option:

Variable	
Length (mm):	49.00
Maximum Diameter (mm):	47.5
Outer Diameter (mm):	47.5
Weight (g):	200

Optical Properties

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

Sensor

Maximum Sensor Format:	1"
Pixel Size (µm):	5.00

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

- Up to 1", C-Mount Lens
- "Fast" Lenses for Increased Throughput
- 4.7mm to 75mm Focal Length

1" Format Fixed Focal Length Lenses provide high throughput and high resolution across the entire camera sensor, allowing for excellent imaging even in less-than-ideal lighting conditions. Offered in 9 focal lengths from 4.7mm to 75mm, this complete family covers many of the applications in the market today. Engineered to minimize distortion, these lenses provide a perfect image for a human operator or an automated system. 1" Format Fixed Focal Length Lenses also feature a standard C-Mount lens mount for easy integration with the most common machine vision [cameras](#) we offer. All lenses feature front filter threading to attach to your choice of [optical filter](#).