

# 4.61mm FL, High Resolution, f/1.6, Micro Video Lens



Stock #17-159 **20+ In Stock**

1 **MRP ₹8,496**

Price inclusive of all taxes

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Product Downloads
<a href="#">EO Spec Sheet</a>

## General

<b>Product Family:</b> Long Working Distance Optimized Imaging Lenses	<b>Note:</b> High Resolution
<b>Type:</b> M12 Imaging Lens	<b>IR Cut Filter:</b> No

## Physical & Mechanical Properties

<b>Iris Option:</b> Fixed	<b>Length (mm):</b> 29.70
<b>Maximum Diameter (mm):</b> 19	<b>Outer Diameter (mm):</b> 19

## Optical Properties

<b>Maximum Image Circle (mm):</b> 8.00	<b>Focal Length FL (mm):</b> 4.61
<b>Working Distance (mm):</b> 400 - ∞	<b>Aperture (f/#):</b> f/1.6
<b>Lens Wavelength Range:</b> VIS	

## Sensor

<b>Maximum Sensor Format:</b> 1/2"	<b>Pixel Size (µm):</b> 3.45
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## Threading & Mounting

<b>Filter Thread:</b> N/A	<b>Mount:</b> S-Mount (M12 x 0.5)
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## Regulatory Compliance

<b>RoHS 2015:</b> <b>Exempt</b>	<b>Certificate of Conformance:</b> <a href="#">View</a>
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Reach 242: **Contains SVHC(s)**

Country of Origin: South Korea

**Imported By:** Edmund Optics  
India Private Limited  
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## Product Details

- Up to 2/3", S-Mount Lens
- Wide Field of View Board Camera Lens
- 1.68mm to 50mm Focal Length

Long Working Distance Optimized Imaging Lenses are designed for use in micro sensor board cameras. These lenses provide excellent image quality in a small, versatile package. Optimized to cover 2/3" sensor formats, they are an ideal choice for wide angle and close focus applications. Long Working Distance Optimized Imaging Lenses have 1.68 to 50mm focal lengths. All lenses are threaded for M12 x 0.5. Some models with Back Focal Distances (dimension "C") less than 4mm may be incompatible with some color cameras due to the camera's Bayer filter. We recommend such lenses for use with monochrome cameras only. Lenses are designed for the 400nm to 700nm range.

**Note:** A line of [M12 Imaging Lens Accessories](#) is available for these products.

## Technical Information

*Infinite Conjugate M12 Imaging Lenses*

*C-Mount Adapter (#53-675)*

Stock #		Focal Length (mm)	Aperture (f/#)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
No-IR Cut Filter	IR Cut Filter @650nm							
#59-776	#66-880	1.68	2.5	15.0	13.2	3.3	2.8	15.1
#56-774	#66-881**	1.74	2.8	21.0	19.61	3.33	3.2	N/A
#64-106	-	1.9	2.0	17.0	14.58	4.2	4.0	15.24
#55-569	#66-883	2.1	2.0	17.0	18.3	4.8	3.7	19.4
#57-681	#66-884***	2.5	2.5	17.0	19.1	4.4	3.7	20.3
#55-570	#66-885	2.9	2.0	15.0	17.4	5.2	5.8	17.8
#59-778	#66-886	3.0	2.0	14.0	15.3	5.3	3.9	N/A
#57-684	#66-890	6.05	1.8	15.0	15.6	8.0	6.0	N/A
#55-573	#66-891	6.37	2.4	14.8	13.12	5.3	3.3	N/A
#55-574	#66-892	8.0	2.5	15.0	13.5	5.8	3.0	N/A
#63-762	#59-779	10.1	2.8	15.0	13.4	6.1	3.2	N/A
#65-251	#64-107	10.4	2.8	14.0	8.93	6.4	4.0	N/A
#56-775	#66-893	12.0	2.0	14.0	12.1	6.2	4.0	N/A
#64-108	#66-894	16.0	2.0	14.0	14.4	8.0	4.5	N/A
#83-107	-	16.0	4.0	14.0	14.4	8.0	4.5	N/A
#56-776	#66-895	25.0	2.5	25.0	23.2	8.1	6.7	N/A
#59-780	#66-896	35.0	2.0	25.0	23.4	15.8*	6.0	N/A
#59-781	#66-897	50.0	2.5	27.0	52.8	4.1	8.0	N/A

\*Note: 35.0mm lens has a large flange focal length. Please make proper adjustments when mounting.  
 \*\*#66-881, B(mm): 20.49  
 \*\*\*#66-884, B(mm): 19.8, E(mm): 21

Stock #	Focal Length (mm)	Aperture (f/#)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
<a href="#">#88-587</a>	3.0	2.0	15.0	15.35	5.2	4	16
<a href="#">#88-588</a>	3.5	2.5	15.0	15.4	6.9	4	N/A
<a href="#">#11-323</a>	3.7	1.6	19	24.04	5.46	6.5	24.16
<a href="#">#11-324</a>	4.0	1.8	20	23.8	5.01	7	24.72
<a href="#">#88-589</a>	4.0	2.0	15.0	16.1	5.9	3.8	N/A
<a href="#">#88-590</a>	4.3	2.0	22.0	20.96	5.5	6	21.93
<a href="#">#11-325</a>	4.6	1.6	19	24.18	5.44	7	24.32
<a href="#">#88-591</a>	4.6	2.0	12.0	13.1	1.9	6	N/A
<a href="#">#88-592</a>	5.6	2.0	17.0	22.21	5.3	5	22.38
<a href="#">#89-750</a>	6.0	2.0	14.0	15.1	6.7	3.93	N/A
<a href="#">#11-326</a>	7.0	1.6	19	25.24	5.47	7.2	24.2
<a href="#">#89-751</a>	8.0	2.0	15.0	14.4	6.8	4.5	N/A
<a href="#">#89-752</a>	12.0	2.0	15.0	14.3	5.7	4.5	N/A

## Related Products



C, S, and T-Mount  
Extensions Tubes



#63-975 - 16mm, S-Mount Ring  
Mount, 1/4-20 Tapped Hole  
₹6,558

Qty

## Frequently Purchased Together



#03-629 - C-Mount Double Male  
Thread Ring  
₹3,709

Qty



#03-630 - C-Mount Double Female  
Thread Ring  
₹3,709

Qty



#35-088 - 1/4-20 Mounting Adapter  
for IDS Imaging USB 3/GigE/PoE  
Camera - Rev 2  
₹4,779

Qty



#43-953 - 2" x 2", Optical Cast  
Plastic IR Longpass Filter  
₹2,346

Qty

## Resources

**Media Type**

- Application Note
- Video
- Published Article
- FAQ
- Glossary
- Technical Tool

**APPLICATION NOTE**  
**Anti-Reflection (AR) Coatings**

**APPLICATION NOTE**  
**An Introduction to Optical Coatings**

**VIDEO**  
**Wavelength and f#**

**APPLICATION NOTE**  
**Understanding Focal Length and Field of View**

**APPLICATION NOTE**  
**Introduction to Modulation Transfer Function**

**WEBINARS**  
**Choosing the Right Machine Vision Lens**

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