

# 6.05mm FL, No IR-Cut Filter, f/1.8, Micro Video Lens




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1 **MRP ₹7,510**

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

## General

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

## Physical & Mechanical Properties

<b>Iris Option:</b> Fixed	<b>Length (mm):</b> 15.26
<b>Maximum Diameter (mm):</b> 15.0	<b>Outer Diameter (mm):</b> 15

## Optical Properties

<b>Horizontal Field of View @ Max Sensor Format:</b> 46	<b>Maximum Image Circle (mm):</b> 6.00
<b>Resolution, On-Axis:</b> 72 lp/mm @ 20% Contrast	<b>Resolution, 0.7 Field:</b> 55 lp/mm @ 20% Contrast
<b>Resolution, Full Field:</b> 46 lp/mm @ 20% Contrast	<b>Focal Length FL (mm):</b> 6.00
<b>Working Distance (mm):</b> 400 - ∞	<b>Aperture (f/#):</b> f/1.8
<b>Distortion (%):</b> -10 @ Full Field	<b>Maximum Distortion (%):</b> -10
<b>Lens Wavelength Range:</b> VIS	

## Sensor

<b>Maximum Sensor Format:</b> 1/3"	<b>Pixel Size (µm):</b> 3.45
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## Threading & Mounting

**Filter Thread:** M12 x 0.50

**Mount:** S-Mount (M12 x 0.5)

## Regulatory Compliance

**RoHS 2015:** [Exempt](#)

**Certificate of Conformance:** [View](#)

**Reach 242:** [Contains SVHC\(s\)](#)

**Country of Origin:** South Korea

**Imported By:** Edmund Optics India Private Limited  
267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038  
Phone: +91-80-6845 0000

## 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							
<a href="#">#59-776</a>	<a href="#">#66-880</a>	1.68	2.5	15.0	13.2	3.3	2.8	15.1
<a href="#">#56-774</a>	<a href="#">#66-881</a> **	1.74	2.8	21.0	19.61	3.33	3.2	N/A
<a href="#">#64-106</a>	-	1.9	2.0	17.0	14.58	4.2	4.0	15.24
<a href="#">#55-569</a>	<a href="#">#66-883</a>	2.1	2.0	17.0	18.3	4.8	3.7	19.4
<a href="#">#57-681</a>	<a href="#">#66-884</a> ***	2.5	2.5	17.0	19.1	4.4	3.7	20.3
<a href="#">#55-570</a>	<a href="#">#66-885</a>	2.9	2.0	15.0	17.4	5.2	5.8	17.8
<a href="#">#59-778</a>	<a href="#">#66-886</a>	3.0	2.0	14.0	15.3	5.3	3.9	N/A
<a href="#">#57-684</a>	<a href="#">#66-890</a>	6.05	1.8	15.0	15.6	8.0	6.0	N/A
<a href="#">#55-573</a>	<a href="#">#66-891</a>	6.37	2.4	14.8	13.12	5.3	3.3	N/A
<a href="#">#55-574</a>	<a href="#">#66-892</a>	8.0	2.5	15.0	13.5	5.8	3.0	N/A
<a href="#">#63-762</a>	<a href="#">#59-779</a>	10.1	2.8	15.0	13.4	6.1	3.2	N/A
<a href="#">#65-251</a>	<a href="#">#64-107</a>	10.4	2.8	14.0	8.93	6.4	4.0	N/A
<a href="#">#56-775</a>	<a href="#">#66-893</a>	12.0	2.0	14.0	12.1	6.2	4.0	N/A
<a href="#">#64-108</a>	<a href="#">#66-894</a>	16.0	2.0	14.0	14.4	8.0	4.5	N/A
<a href="#">#83-107</a>	-	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
<p>*<b>Note:</b> 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</p>								

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

### Related Products



#57-909 - 6.4mm FL, Red Series M12 Lens  
₹9,937

Qty



#87-231 - f/1.9, 6mm Focal Length Green Series M12 Lens  
₹8,648

Qty



#63-759 - f/2.5, Visible, 8.0mm HEO Series M12 Lens  
₹15,854

Qty

### Frequently Purchased Together



#30-263 - 12mm Max. Aperture, Iris Diaphragm  
₹4,919

Qty



#32-325 - 25mm Dia. x 75mm FL, MgF<sub>2</sub> Coated, Achromatic Doublet Lens  
₹12,309

Qty



#34-471 - 12.5mm Dia. White Diffusing Glass  
₹3,053

Qty



#34-473 - 25mm Dia. White Diffusing Glass  
₹3,632

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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