

TECHSPEC[®] 8mm FL f/2.5, Blue Series IR-Cut M12 Lens



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1

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€80^{.00}

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SPECIFICATIONS

General

Blue Series

Series:

Type:

M12 Imaging Lens	
Yes	IR Cut Filter:
IR-Cut Filter	Special Type of Lens:
Physical & Mechanical Properties	
Fixed	Iris Option:
12.30	Length (mm):
14	Maximum Diameter (mm):
14	Outer Diameter (mm):
3	Weight (g):
Optical Properties	
Horizontal Field of View @ Max Sensor Format: 34.2°	
Field of View at Max Sensor Format: Horizontal: 92.8mm - 34.2° Vertical: 68.9mm - 25.7° Diagonal: 117.5mm - 42.6°	
Horizontal Field of View, 1/3" Sensor: 94.0mm - 34.2°	
Horizontal Field of View, 1/4" Sensor: 69.8mm - 25.7°	
Maximum Image Circle (mm): 6.00	
Numerical Aperture NA, Object Side: 0.0103	
Number of Elements (Groups): 5(5)	
Wavelength Range (nm): 400 - 700	
Focal Length FL (mm): 8.00	
Working Distance (mm): 150 - ∞	
Aperture (f/#): f/2.5	
Distortion (%): -3.63 @ Full Field	
Back Focal Length BFL (mm): 8.8 - 8.6	
Coating Specification: λ/4 MgF ₂ @ 550nm	
Entrance Pupil Position (mm): 5.04	
Object Space Principal Plane (mm): 8.13	
Image Space Principal Plane (mm): 0.94	
Maximum Distortion (%): -3.63	
Exit Pupil Position (mm): -4.09	
Lens Wavelength Range: VIS (IR-Cut Filter)	
Sensor	
Maximum Sensor Format: 1/3"	
Pixel Size (μm): 1.40	
Threading & Mounting	
Filter Thread: N/A	
Mount: S-Mbunt (M12 x 0.5)	
Regulatory Compliance	

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

PRODUCT DETAILS

- Up to ½", S-Mount Lens
 - Up to 5 MegaPixels, 1.4µm Pixel Size Sensors
 - High Resolution Board Camera Lens Optimized for Close WD
 - 2mm to 35mm Focal Length
 - **Ruggedized Designs** Also Available
- TECHSPEC® Blue Series M12 Lenses feature high resolution performance, along with the same great versatility of our **TECHSPEC® Green Series M12 Lenses**. Each lens consists of several precision glass elements mounted in a compact, aluminum housing. These lenses can connect to C-Mount cameras using the M12 x0.5 Adapter for C-Mount Cameras (**#53-675**) or the M12 x0.5 C-Mount Adapter with Rubber O-Ring (**#59-241**) for vibration-sensitive environments. TECHSPEC® Blue Series M12 Lenses are ideal for automotive, industrial, and medical imaging application. Prescription data is available by submitting a **Request for Prescription Form**.

Note: Compatible **TECHSPEC® M12 Imaging Lens Accessories** available.

Edmund Optics has created multiple product families of our TECHSPEC® M12 S-Mount Lenses, which are designed to provide high resolution. These high performance lenses feature precision glass designs in a metal housing and have optimized specifications between each product family to meet your application needs.

- Blue Series M12 Lenses: High resolution finite conjugate designs optimized for machine vision working distances.
- **Rugged Blue Series M12 Lenses: Stabilized ruggedization** versions of our Blue Series M12 Lenses, utilizing the same optics.
- **Green Series M12 Lenses:** Finite conjugate designs optimized for machine vision working distances.
- **Red Series M12 Lenses:** Infinite conjugate designs optimized for high resolution performance out to infinity.
- **HEO Series M12 Lenses:** Harsh Environment Optics (HEO) sealed versions of our Red Series M12 Lenses.
- **Liquid Lens M12 Lenses:** Integrated liquid lens for fast electronic focus.

TECHNICAL INFORMATION

Focal Length	A	B	C*	D
2.0mm	18.0mm	21.7mm	2.26mm	4.75mm
3.0mm	14.0mm	17.1mm	4.8 - 4.7mm	5.8mm
4.0mm	14.0mm	19.7mm	6.1 - 6.0mm	4.4mm
5.0mm	14.0mm	14.6mm	4.0 - 3.9mm	3.7mm
6.0mm	14.0mm	14.1mm	6.9 - 6.8mm	4.5mm
8.0mm	14.0mm	12.3mm	8.8 - 8.6mm	3.7mm
10.0mm	14.0mm	17.0mm	6.6 - 6.3mm	3.7mm
12.5mm	15.0mm	22.9mm	10.1 - 9.7mm	4.8mm
17.5mm	14.0mm	20.7mm	5.8 - 4.9mm	7.6mm
25.0mm	18.0mm	30.0mm	8.5 - 6.5mm	11.5mm
35.0mm	18.0mm	29.5mm	18.72 - 14.0mm	14.5mm



*Specified for Optimized Working Distance of 150 - 250mm.