

TECHSPEC[®] 16mm FL f/8.0 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	
IR Cut Filter:	Yes
Special Type of Lens:	IR-Cut Filter
Physical & Mechanical Properties	
Iris Option:	Fixed
Length (mm):	22.50
Maximum Diameter (mm):	16
Outer Diameter (mm):	16
Optical Properties	
Horizontal Field of View @ Max Sensor Format:	25.3°
Field of View at Max Sensor Format:	Horizontal: 64.9mm - 25.3° Vertical: 48.7mm - 19.1° Diagonal: 81.2mm - 31.4°
Horizontal Field of View, 1.2" Sensor:	58.0mm - 22.5°
Horizontal Field of View, 1/1.8" Sensor:	64.9mm - 25.3°
Horizontal Field of View, 1/2.5" Sensor:	52.5mm - 20.5°
Horizontal Field of View, 1/3" Sensor:	43.5mm - 17.0°
Horizontal Field of View, 1/4" Sensor:	32.6mm - 12.8°
Maximum Image Circle (mm):	9.00
Numerical Aperture NA, Object Side:	0.008535
Number of Elements (Groups):	6 (6)
Wavelength Range (nm):	400 - 700
Focal Length FL (mm):	16.00
Working Distance (mm):	150 - ∞
Aperture (f/#):	f/8.0
Distortion (%):	-0.039@ Full Field
Back Focal Length BFL (mm):	10.79 - 10.05
Coating Specification:	λ/4 MgF ₂ @ 588nm
Entrance Pupil Position (mm):	7.5143
Object Space Principal Plane (mm):	7.21
Image Space Principal Plane (mm):	-7.04
Maximum Distortion (%):	-0.039
Exit Pupil Position (mm):	-6.7445
Lens Wavelength Range:	VS (IR-Cut Filter)
Sensor	
Maximum Sensor Format:	1/1.8"
Pixel Size (μm):	1.40
Threading & Mounting	
Filter Thread:	N/A

S-Mount (M12 x0.5)	Mount:
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](#).

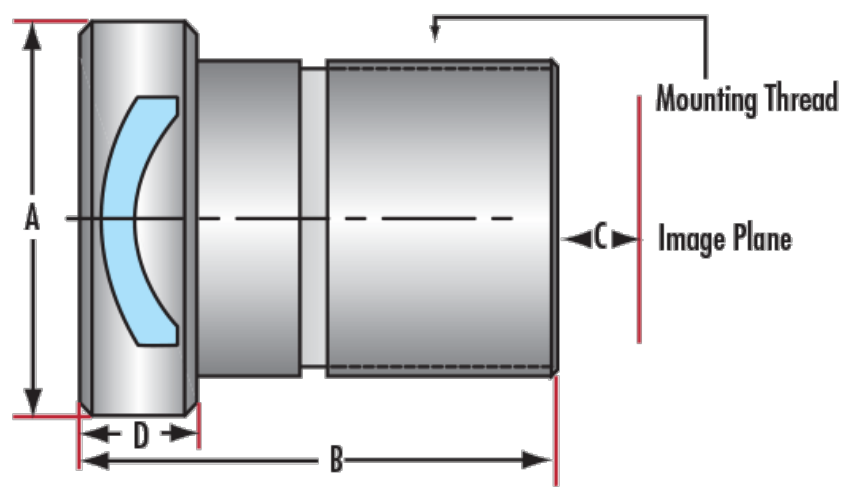
Note: Compatible [TECHSPEC® M12 Imaging Lens Accessories](#) available.

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.