

TECHSPEC[®] 17.5mm FL f/8, 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:
20.70	Length (mm):
14	Maximum Diameter (mm):
14	Outer Diameter (mm):
7	Weight (g):
Optical Properties	
Horizontal Field of View @ Max Sensor Format: 23.1°	
Field of View at Max Sensor Format: Horizontal: 57.0mm - 23.1° Vertical: 38mm - 15.6° Diagonal: 63.3mm - 25.6°	
Horizontal Field of View, 1.2" Sensor: 50.7mm - 20.6°	
Horizontal Field of View, 1/1.8" Sensor: 57.0mm - 23.1°	
Horizontal Field of View, 1/2.5" Sensor: 45.9mm - 18.7°	
Horizontal Field of View, 1/3" Sensor: 38.0mm - 15.6°	
Horizontal Field of View, 1/4" Sensor: 28.5mm - 11.7°	
9.00	Maximum Image Circle (mm):
0.0067	Numerical Aperture NA, Object Side:
6(5)	Number of Elements (Groups):
400 - 700	Wavelength Range (nm):
17.50	Focal Length FL (mm):
150 - ∞	Working Distance (mm):
f/8	Aperture (f/#):
0.76 @Full Field	Distortion (%):
5.8 - 4.9	Back Focal Length BFL (mm):
λ/4 MgF ₂ @ 550nm	Coating Specification:
13.01	Entrance Pupil Position (mm):
5.57	Object Space Principal Plane (mm):
-12.71	Image Space Principal Plane (mm):
-0.76	Maximum Distortion (%):
-7.49	Exit Pupil Position (mm):
VS (IR-Cut Filter)	Lens Wavelength Range:
Sensor	
1/1.8"	Maximum Sensor Format:
1.40	Pixel Size (μm):
Threading & Mounting	

N/A	Filter Thread:
S-Mbunt (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-Mbunt Cameras ([#53-675](#)) or the M12 x0.5 C-Mbunt 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.