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**TECHSPEC® 12.5mm FL f/4, Blue Series IR-Cut M12 Lens**



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- 1 + £66.<sup>00</sup>

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**General**

Blue Series **Product Family:**

M12 Imaging Lens **Type:**

Yes **IR Cut Filter:**

IR-Cut Filter

Special Type of Lens:

## Physical & Mechanical Properties

Fixed	Iris Option:
22.90	Length (mm):
15	Maximum Diameter (mm):
15	Outer Diameter (mm):
6	Weight (g):

## Optical Properties

Horizontal Field of View @ Max Sensor Format:  
28.9°

Field of View at Max Sensor Format:  
Horizontal: 78.1mm - 28.9°  
Vertical: 58.5mm - 21.8°  
Diagonal: 97.7mm - 35.7°

Horizontal Field of View, 1.2" Sensor:  
78.0mm - 28.8°

Horizontal Field of View, 1/2.5" Sensor:  
70.6mm - 26.2°

Horizontal Field of View, 1/3" Sensor:  
58.4mm - 21.8°

Horizontal Field of View, 1/4" Sensor:  
43.8mm - 16.4°

Maximum Image Circle (mm):  
8.00

Numerical Aperture NA, Object Side:  
0.0095

Number of Elements (Groups):  
5(5)

Wavelength Range (nm):  
400 - 700

Focal Length FL (mm):  
12.50

Working Distance (mm):  
150 - ∞

Aperture (f/#):  
f/4

Distortion (%):  
-0.36 @ Full Field

Back Focal Length BFL (mm):  
10.1 - 9.7

Coating Specification:  
M4 MgF<sub>2</sub> @ 550nm

Entrance Pupil Position (mm):  
10.87

Object Space Principal Plane (mm):  
10.14

Image Space Principal Plane (mm):  
-3.01

Maximum Distortion (%):  
-0.36

Exit Pupil Position (mm):  
-2.33

Lens Wavelength Range:  
VIS (IR-Cut Filter)

## Sensor

Maximum Sensor Format:  
1/2"

Pixel Size (µm):  
1.40

## Threading & Mounting

Filter Thread:  
N/A

Mount:  
S-Mount (M12 x 0.5)

## Regulatory Compliance

Compliant

RoHS 2015:

[View](#)

Certificate of Conformance:

Compliant

Reach 247:

## Product Details

- Up to 1/2", 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.