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**TECHSPEC® 17.5mm FL f/5.6, 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:  
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):

0.0096 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/5.6 Aperture (f/#):

0.76 @ Full Field Distortion (%):

5.8 - 4.9 Back Focal Length BFL (mm):

M4 MgF<sub>2</sub> @ 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):

VIS (IR-Cut Filter) Lens Wavelength Range:

## Sensor

1/1.8" Maximum Sensor Format:

1.40 Pixel Size (µm):

## Threading & Mounting

N/A Filter Thread:

Mount:

## 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.