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**TECHSPEC® 17.5mm FL f/2.5, Blue Series IR-Cut M12 Lens**



Stock #24-466 **20+ In Stock**

- 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°

Maximum Image Circle (mm):  
9.00

Numerical Aperture NA, Object Side:  
0.0214

Number of Elements (Groups):  
6(5)

Wavelength Range (nm):  
400 - 700

Focal Length FL (mm):  
17.50

Working Distance (mm):  
150 - ∞

Aperture (f/#):  
f/2.5

Distortion (%):  
0.76 @ Full Field

Back Focal Length BFL (mm):  
5.8 - 4.9

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

Entrance Pupil Position (mm):  
13.01

Object Space Principal Plane (mm):  
5.57

Image Space Principal Plane (mm):  
-12.71

Maximum Distortion (%):  
-0.76

Exit Pupil Position (mm):  
-7.49

Lens Wavelength Range:  
VIS (IR-Cut Filter)

## 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.