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TECHSPEC® 12.5mm FL f/2.5, Blue Series IR-Cut M12 Lens



Stock #24-458 **11 In Stock**

⊖ 1 ⊕ £66⁰⁰

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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):**

5 **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°

8.00 **Maximum Image Circle (mm):**

0.0151 **Numerical Aperture NA, Object Side:**

5(5) **Number of Elements (Groups):**

400 - 700 **Wavelength Range (nm):**

12.50 **Focal Length FL (mm):**

150 - ∞ **Working Distance (mm):**

f/2.5 **Aperture (f#):**

-0.36 @ Full Field **Distortion (%):**

10.1 - 9.7 **Back Focal Length BFL (mm):**

M4 MgF₂ @ 550nm **Coating Specification:**

10.87 **Entrance Pupil Position (mm):**

10.14 **Object Space Principal Plane (mm):**

-3.01 **Image Space Principal Plane (mm):**

-0.36 **Maximum Distortion (%):**

-2.33 **Exit Pupil Position (mm):**

VS (IR-Cut Filter) **Lens Wavelength Range:**

Sensor

1/2" **Maximum Sensor Format:**

1.40 **Pixel Size (μm):**

Threading & Mounting

N/A **Filter Thread:**

S-Mount (M12 x 0.5) **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.