

[See all 97 Products in Family](#)

## TECHSPEC® 6mm FL f/4, Blue Series IR-Cut M12 Lens



Stock **#24-447** [CONTACT US](#)

1  MRP ₹9,027

Price inclusive of all taxes

**ADD TO CART**

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-49       | ₹9,027 each                   |
| Qty 50+        | ₹7,143 each                   |
| Need More?     | <a href="#">Request Quote</a> |

### Product Downloads

#### 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:**

14.50 **Length (mm):**

14 **Maximum Diameter (mm):**

14 **Outer Diameter (mm):**

4 **Weight (g):**

## Optical Properties

**Horizontal Field of View @ Max Sensor Format:**  
47.9°

**Field of View at Max Sensor Format:**  
Horizontal: 135mm - 47.9°  
Vertical: 97.8mm - 35.6°  
Diagonal: 177.3mm - 60.7°

**Horizontal Field of View, 1/3" Sensor:**  
134.9mm - 48.0°

**Horizontal Field of View, 1/4" Sensor:**  
97.7mm - 35.7°

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

0.0047 **Numerical Aperture NA, Object Side:**

6(5) **Number of Elements (Groups):**

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

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

150 - ∞ **Working Distance (mm):**

f/4 **Aperture (f/#):**

-12.17 @ Full Field **Distortion (%):**

6.9 - 6.8 **Back Focal Length BFL (mm):**

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

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

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

2.31 **Image Space Principal Plane (mm):**

-12.17 **Maximum Distortion (%):**

-9.11 **Exit Pupil Position (mm):**

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

## Sensor

1/3" **Maximum Sensor Format:**

1.40 **Pixel Size (µm):**

## Threading & Mounting

N/A **Filter Thread:**

S-Mount (M12 x0.5) **Mount:**

## Regulatory Compliance

**RoHS 2015:**  
Compliant

**Certificate of Conformance:**

[View](#)

**Reach 247:**

**Compliant**

**Country of Origin:**

China

**Imported By:**

Edmund Optics India Private Limited  
267, Greystone Building, Second Floor,  
6th Cross Rd, Binnamangala,  
Stage 1, Indiranagar, Bengaluru,  
Karnataka, India 560038  
Phone: +91- 80-6845 0000

## 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.

;