

TECHSPEC<sup>®</sup> 16mm FL f/2.5 Blue Series IR-Cut M12 Lens



Stock **#24-462** 20+ In Stock

-

1

+

€80<sup>.00</sup>

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SPECIFICATIONS

General

Blue Series

Series:

Type:

|                                                                                                                           |                                               |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| M12 Imaging Lens                                                                                                          |                                               |
| Yes                                                                                                                       | IR Cut Filter:                                |
| IR-Cut Filter                                                                                                             | Special Type of Lens:                         |
| Physical & Mechanical Properties                                                                                          |                                               |
| Fixed                                                                                                                     | Iris Option:                                  |
| 22.50                                                                                                                     | Length (mm):                                  |
| 16                                                                                                                        | Maximum Diameter (mm):                        |
| 16                                                                                                                        | Outer Diameter (mm):                          |
| Optical Properties                                                                                                        |                                               |
| 25.3°                                                                                                                     | Horizontal Field of View @ Max Sensor Format: |
| Field of View at Max Sensor Format:<br>Horizontal: 64.9mm - 25.3°<br>Vertical: 48.7mm - 19.1°<br>Diagonal: 81.2mm - 31.4° |                                               |
| 58.0mm - 22.5°                                                                                                            | Horizontal Field of View, 1.2" Sensor:        |
| 64.9mm - 25.3°                                                                                                            | Horizontal Field of View, 1/1.8" Sensor:      |
| 52.5mm - 20.5°                                                                                                            | Horizontal Field of View, 1/2.5" Sensor:      |
| 43.5mm - 17.0°                                                                                                            | Horizontal Field of View, 1/3" Sensor:        |
| 32.6mm - 12.8°                                                                                                            | Horizontal Field of View, 1/4" Sensor:        |
| 9.00                                                                                                                      | Maximum Image Circle (mm):                    |
| 0.026544                                                                                                                  | Numerical Aperture NA, Object Side:           |
| 6 (6)                                                                                                                     | Number of Elements (Groups):                  |
| 400 - 700                                                                                                                 | Wavelength Range (nm):                        |
| 16.00                                                                                                                     | Focal Length FL (mm):                         |
| 150 - ∞                                                                                                                   | Working Distance (mm):                        |
| f/2.5                                                                                                                     | Aperture (f/#):                               |
| -0.039@Full Field                                                                                                         | Distortion (%):                               |
| 10.79 - 10.05                                                                                                             | Back Focal Length BFL (mm):                   |
| N4 MgF <sub>2</sub> @ 588nm                                                                                               | Coating Specification:                        |
| 7.5143                                                                                                                    | Entrance Pupil Position (mm):                 |
| 7.21                                                                                                                      | Object Space Principal Plane (mm):            |
| -7.04                                                                                                                     | Image Space Principal Plane (mm):             |
| -0.039                                                                                                                    | Maximum Distortion (%):                       |
| -6.7445                                                                                                                   | Exit Pupil Position (mm):                     |
| VS (IR-Cut Filter)                                                                                                        | Lens Wavelength Range:                        |
| Sensor                                                                                                                    |                                               |
| 1/1.8"                                                                                                                    | Maximum Sensor Format:                        |
| 1.40                                                                                                                      | Pixel Size (μm):                              |
| Threading & Mounting                                                                                                      |                                               |
| N/A                                                                                                                       | Filter Thread:                                |

|                       |                             |
|-----------------------|-----------------------------|
| S-Mount (M12 x0.5)    | Mount:                      |
| Regulatory Compliance |                             |
| Compliant             | RoHS 2015:                  |
| View                  | Certificate of Conformance: |
| Compliant             | Reach 247:                  |

## PRODUCT DETAILS

- Up to ½", 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.