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TECHSPEC® 6mm FL f/5.6, Blue Series IR-Cut M12 Lens



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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:
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):

0.0034 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/5.6 Aperture (f#):

-12.17 @ Full Field Distortion (%):

6.9 - 6.8 Back Focal Length BFL (mm):

M4 MgF₂ @ 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):

VS (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 x 0.5) Mount:

Regulatory Compliance

Compliant RoHS 2015:

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.