

**TECHSPEC® 10mm FL f/4, Blue Series M12 Lens**



10mm FL Blue Series M12 Lens



Stock #69-263 **20+ In Stock**

1 **£63.00**

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Qty 1-49	£63.00 each
Qty 50+	£50.00 each
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Product Downloads

**General**

Blue Series **Product Family:**

M12 Imaging Lens **Type:**

**IR Cut Filter:**

No

**Imaging Lens Type:**

High Performance M12 Lens

### Physical & Mechanical Properties

Fixed **Iris Option:**

17.00 **Length (mm):**

14 **Maximum Diameter (mm):**

14 **Outer Diameter (mm):**

5 **Weight (g):**

### Optical Properties

**Horizontal Field of View @ Max Sensor Format:**  
27.1°

**Field of View at Max Sensor Format:**  
Horizontal: 71.8mm - 27.1°  
Vertical: 53.8mm - 20.5°  
Diagonal: 89.9mm - 33.6°

**Horizontal Field of View, 1/3" Sensor:**  
71.8mm - 27.1°

**Horizontal Field of View, 1/4" Sensor:**  
53.8mm - 20.5°

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

0.0079 **Numerical Aperture NA, Object Side:**

5(4) **Number of Elements (Groups):**

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

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

150 - ∞ **Working Distance (mm):**

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

-0.25 @ Full Field **Distortion (%):**

6.6 - 6.3 **Back Focal Length BFL (mm):**

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

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

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

-3.29 **Image Space Principal Plane (mm):**

-0.25 **Maximum Distortion (%):**

-3.08 **Exit Pupil Position (mm):**

VIS **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

**RoHS 2015:**  
Compliant

## 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

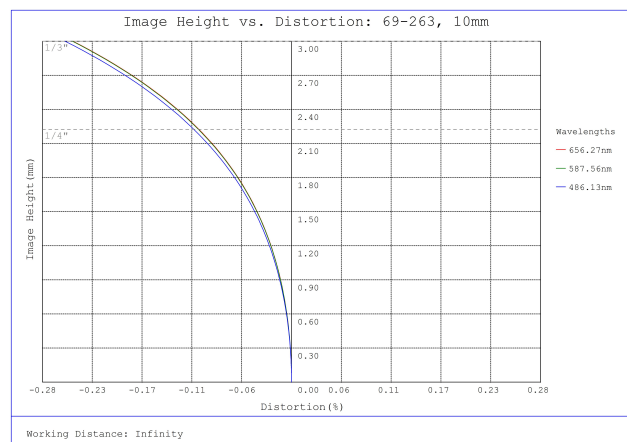
TECHSPEC® Blue Series M12 Lenses feature high resolution performance, along with the same great versatility of our [TECHSPEC® Green Series M12 Lenses](#). Each lens consists of several precision glass elements mounted in a compact, aluminum housing. These lenses can connect to C-Mount cameras using the M12 x 0.5 Adapter for C-Mount Cameras ([#53-675](#)) or the M12 x 0.5 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.

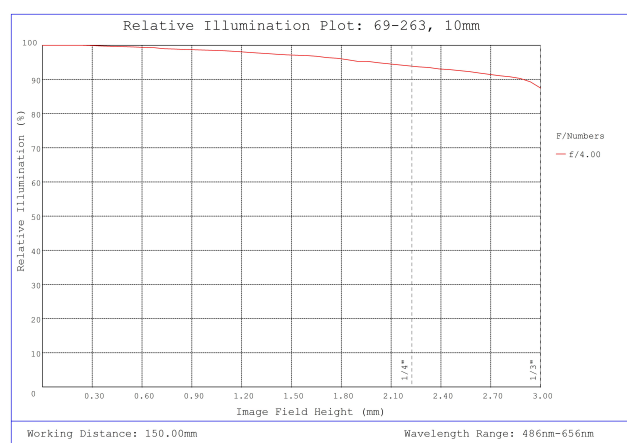
Edmund Optics has created multiple product families of our TECHSPEC® M12 S-Mount Lenses, which are designed to provide high resolution. These high performance lenses feature precision glass designs in a metal housing and have optimized specifications between each product family to meet your application 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.

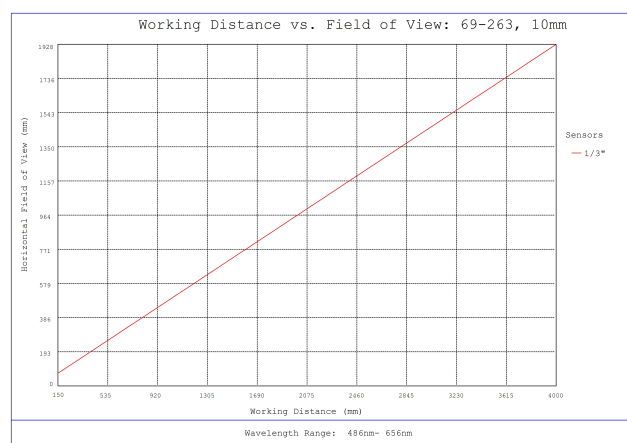
## Technical Information



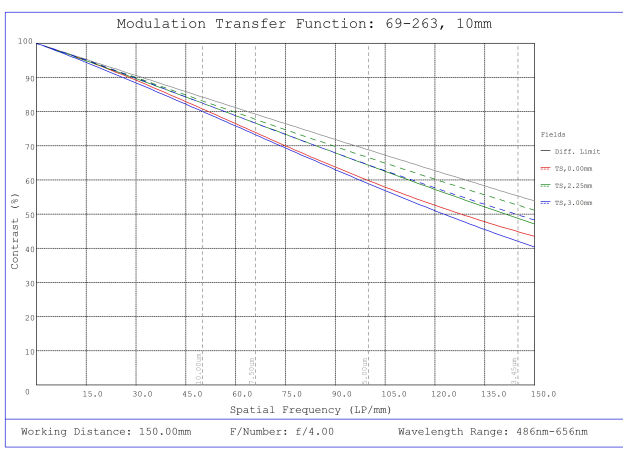
#69-263, 10mm FL f/4, Blue Series M12 Lens, Distortion Plot



#69-263, 10mm FL f/4, Blue Series M12 Lens, Relative Illumination Plot



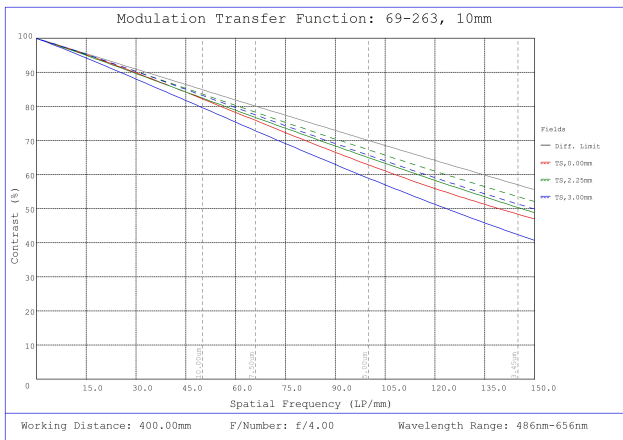
#69-263, 10mm FL f/4, Blue Series M12 Lens, Working Distance versus Field of View Plot



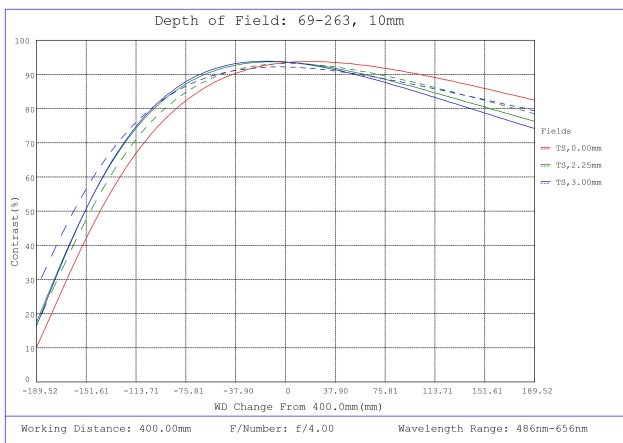
#69-263, 10mm FL f/4, Blue Series M12 Lens, Modulated Transfer Function (MTF) Plot, 150mm Working Distance, f4



#69-263, 10mm FL f/4, Blue Series M12 Lens, Depth of Field Plot, 150mm Working Distance, f4



#69-263, 10mm FL f/4, Blue Series M12 Lens, Modulated Transfer Function (MTF) Plot, 400mm Working Distance, f4



#69-263, 10mm FL f/4, Blue Series M12 Lens, Depth of Field Plot, 400mm Working Distance, f4

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.

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