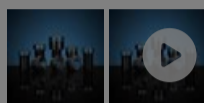
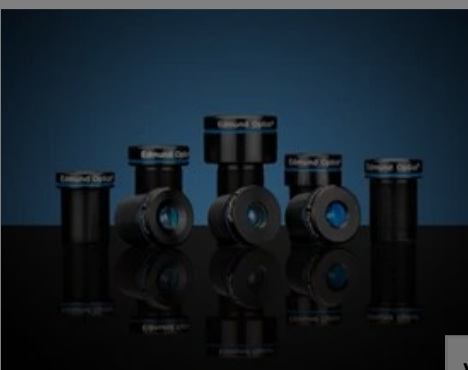


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**TECHSPEC® 4mm F**



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1

€79<sup>,00</sup>

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Volume Pricing	
Qty 1-49	€79,00 each
Qty 50+	€63,00 each
Need More?	<a href="#">Request Quote</a>

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:step
- PDF Drawing:pdf
- IGES:igs
- Zemax
- eDrawing:eprt
- EO Spec Sheet

General

<b>Product Family:</b>	Blue Series	<b>Type:</b>	M12 Imaging Lens
<b>IR Cut Filter:</b>	Yes	<b>Special Type of Lens:</b>	IR-Cut Filter

Physical & Mechanical Properties

<b>Iris Option:</b>	Fixed	<b>Length (mm):</b>	19.70
<b>Maximum Diameter (mm):</b>	14	<b>Outer Diameter (mm):</b>	14
<b>Weight (g):</b>	6		

Optical Properties

<b>Horizontal Field of View @ Max Sensor Format:</b>	71.1°	<b>Field of View at Max Sensor Format:</b>	Horizontal: 220mm - 71.1° Vertical: 152.6mm - 52.6° Diagonal: 310.8mm - 90.8°
<b>Horizontal Field of View, 1/3" Sensor:</b>	219.4mm - 71.0°	<b>Horizontal Field of View, 1/4" Sensor:</b>	152.3mm - 52.5°
<b>Maximum Image Circle (mm):</b>	6.00	<b>Numerical Aperture NA, Object Side:</b>	0.0032
<b>Number of Elements (Groups):</b>	6(5)	<b>Wavelength Range (nm):</b>	400 - 700
<b>Focal Length FL (mm):</b>	4.00	<b>Working Distance (mm):</b>	150 - ∞
<b>Aperture (f/#):</b>	f/4	<b>Distortion (%):</b>	-25.68 @ Full Field

<b>Back Focal Length BFL (mm):</b>	6.1 - 6.0	<b>Coating Specification:</b>	$\lambda/4$ MgF <sub>2</sub> @ 550nm
<b>Entrance Pupil Position (mm):</b>	5.21	<b>Object Space</b>	7.82
<b>Image Space Principal Plane (mm):</b>	2.85	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.</p> <p><b>Select Your Country/Region:</b></p> </div>	
<b>Exit Pupil Position (mm):</b>	-4.99		
<b>Sensor</b>			
<b>Maximum Sensor Format:</b>	1/3"	<b>Pixel Size (μm):</b>	1.40
<b>Threading &amp; Mounting</b>			
<b>Filter Thread:</b>	N/A	<b>Mount:</b>	S-Mount (M12 x 0.5)
<b>Regulatory Compliance</b>			
<b>RoHS 2015:</b>	<b>Compliant</b>	<b>Certificate of Conformance:</b>	<b>View</b>
<b>Reach 247:</b>	<b>Compliant</b>		

## 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

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			3.7mm
12.5mm	15.0mm			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

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\*Specified for Optimized Working Distance of 150 - 250mm.

## Accessories

**Note:** Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	M12 Lock Nut, 10 Pack		#16-788	€116,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	M12 Lock Nut		#64-102	€16,50 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	M12 Lens Holder for Camera Boards		#66-382	€12,00 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	C-Mount to M12 Lens Adapter w/Oring		#59-241	€46,75 <a href="#">Request Quote</a>	3 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	C-Mount to M12 Lens Adapter		#53-675	€32,75 <a href="#">Request Quote</a>	20+ In Stock <input type="text" value="1"/>

## Related Products



C, S, and T-Mount Extensions Tubes



#63-975 - 16mm, S-Mount Ring Mount, 1/4-20 Tapped Hole  
€65,00

Qty

## Frequently Purchased Together



#33-444 - 300mm, White, EuroBrite™ Linear Array  
€435,00

Qty



€40,00

Qty



€33,25

Qty



#68-228 - S-Mount Brass Spacer Ring Kit (2 of each size)  
€96,50

Qty



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# Resources

## Media Type

- Application Note
- Video
- Published Article
- FAQ
- Glossary
- Technical Tool

APPLICATION NOTE

### Anti-Reflection (AR) Coatings

APPLICATION NOTE

### An Introduction to Optical Coatings

VIDEO

### Wavelength and f#

APPLICATION NOTE

### Understanding Focal Length and Field of View

APPLICATION NOTE

### Introduction to Modulation Transfer Function

WEBINARS

### Choosing the Right Machine Vision Lens

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