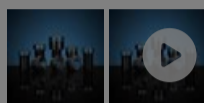
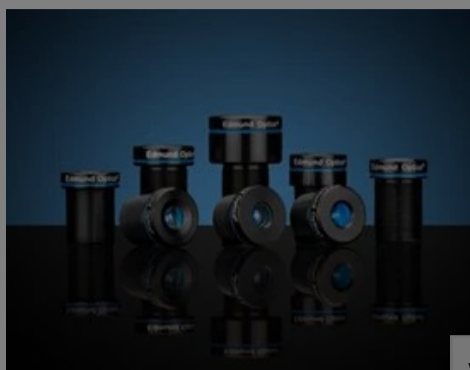


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TECHSPEC® 8mm F



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1 €80^{,00}

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Qty 1-49	€80,00 each
Qty 50+	€64,00 each
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Product Downloads

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

General

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

Physical & Mechanical Properties

Iris Option:	Fixed	Length (mm):	12.30
Maximum Diameter (mm):	14	Outer Diameter (mm):	14
Weight (g):	3		

Optical Properties

Horizontal Field of View @ Max Sensor Format:	34.2°	Field of View at Max Sensor Format:	Horizontal: 92.8mm - 34.2° Vertical: 68.9mm - 25.7° Diagonal: 117.5mm - 42.6°
Horizontal Field of View, 1/3" Sensor:	94.0mm - 34.2°	Horizontal Field of View, 1/4" Sensor:	69.8mm - 25.7°
Maximum Image Circle (mm):	6.00	Numerical Aperture NA, Object Side:	0.0032
Number of Elements (Groups):	5(5)	Wavelength Range (nm):	400 - 700
Focal Length FL (mm):	8.00	Working Distance (mm):	150 - ∞
Aperture (f/#):	f/8	Distortion (%):	-3.63 @ Full Field

Back Focal Length BFL (mm):	8.8 - 8.6	Coating Specification:	$\lambda/4$ MgF ₂ @ 550nm
Entrance Pupil Position (mm):	5.04	Object Space	8.13
Image Space Principal Plane (mm):	0.94	<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>Select Your Country/Region:</p> </div>	
Exit Pupil Position (mm):	-4.09		
Sensor			
Maximum Sensor Format:	1/3"	Pixel Size (μm):	1.40
Threading & Mounting			
Filter Thread:	N/A	Mount:	S-Mount (M12 x 0.5)
Regulatory Compliance			
RoHS 2015:	Compliant	Certificate of Conformance:	View
Reach 247:	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

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



#34-552 - English Ball Point Hex Driver Set
€112,00

Qty



#

€59,50

Qty



€27,00

Qty



#83-951 - 8mm FL f/8, Blue Series M12 Lens
€81,00

Qty



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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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