

TECHSPEC® 6mm FL f/8.0, Rugged Blue Series IR-Cut M12 Lens



Stock #25-056 [CONTACT US](#)

1 **MRP ₹11,303**

Price inclusive of all taxes

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TECHSPEC® Rugged Blue Series M12 Lenses



Volume Pricing	
Qty 1-49	₹11,303 each
Qty 50+	₹8,870 each
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Product Downloads

[Zemax](#) [EO Spec Sheet](#)

General

Product Family: Rugged 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): 14.10
Maximum Diameter (mm): 14	Outer Diameter (mm): 14
Weight (g): 4	

Optical Properties

Horizontal Field of View @ Max Sensor Format: 134.9mm - 48.0°	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: 134.6mm - 47.7°	Horizontal Field of View, 1/4" Sensor: 96.5mm - 35.2°
Maximum Image Circle (mm): 6.00	Numerical Aperture NA, Object Side: 0.0024
Number of Elements (Groups): 5(4)	Wavelength Range (nm): 400 - 700
Focal Length FL (mm): 6.00	Working Distance (mm): 150 - ∞
Aperture (f/#): f/8.0	Distortion (%): -12.17 @ Full Field
Back Focal Length BFL: 6.9 - 6.8	Coating Specification: λ/4 MgF ₂ @ 550nm

(mm):			
Entrance Pupil Position (mm):	3.12	Object Space Principal Plane (mm):	6.98
Image Space Principal Plane (mm):	2.31	Maximum Distortion (%):	-12.17
Exit Pupil Position (mm):	-9.11	Lens Wavelength Range:	VIS
Sensor			
Maximum Sensor Format:	1/3"	Pixel Size (µm):	1.40
Threading & Mounting			
Filter Thread:	N/A	Mount:	S-Mount (M12 x 0.5)
Environmental & Durability Factors			
Type of Ruggedization:	Stabilized (Robust Mechanics for Shock and Vibration)		
Regulatory Compliance			
Certificate of Conformance:	View		
Country of Origin:	China	Imported By:	Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91-80-6845 0000

Product Details

- Up to 1/2", S-Mount Lens
- Up to 5 MegaPixels, 1.4µm Pixel Size Sensors
- Ruggedized Designs (50g Shock) of our Blue Series Lens with Individual Optics Glued in Place
- 2mm to 25mm Focal Length
- **Non-Ruggedized Designs** Also Available

TECHSPEC® Rugged Blue Series M12 Lenses have **stabilized ruggedization**, protecting the lens from damage, while reducing pixel shift and maintaining optical pointing stability after shock and vibration. Each lens consists of several precision glass optics that are glued in place inside a compact, aluminum housing. Gluing the glass optics prevents even the smallest movements that often cause pixel shift. Object to image mapping is maintained even after heavy shock and vibration; if the center of the object maps onto the center pixel, it will always map to that same center pixel. TECHSPEC Rugged Blue Series M12 Lenses are ideal for calibrated imaging applications such as measurement and gauging, 3D stereo vision, robotics and sensing, autonomous vehicles, and object tracking. These lenses are available in a variety of f/# options ranging from f/2.5 to f/8.

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

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	₹12,319 Request Quote	CONTACT US 1
MORE+	M12 Lock Nut		#64-102	₹1,752 Request Quote	20+ In Stock 1
MORE+	M12 Lens Holder for Camera Boards		#66-382	₹1,290 Request Quote	20+ In Stock 1
MORE+	C-Mount to M12 Lens Adapter w/Oring		#59-241	₹4,965 Request Quote	3 In Stock 1
MORE+	C-Mount to M12 Lens Adapter		#53-675	₹3,479 Request Quote	20+ In Stock 1

Related Products



C, S, and T-Mount Extensions Tubes



#63-975 - 16mm, S-Mount Ring Mount, 1/4-20 Tapped Hole
₹6,558

Qty

Frequently Purchased Together



#36-372 - 12.5mm FL f/2.5, Rugged Blue Series M12 Lens
₹11,303

Qty



#37-382 - 6mm FL f/2.5, Rugged Blue Series M12 Lens
₹11,303

Qty



#25-053 - 6mm FL f/2.5, Rugged Blue Series IR-Cut M12 Lens
₹11,303

Qty



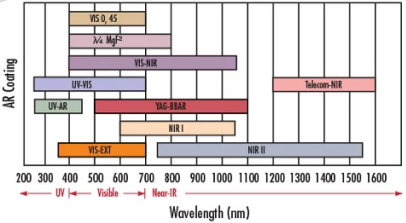
#25-055 - 6mm FL f/5.6, Rugged Blue Series IR-Cut M12 Lens
₹11,303

Qty

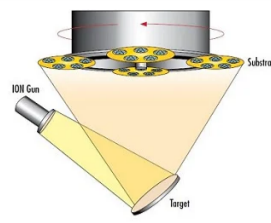
Resources

Media Type

- Application Note
- Video
- Trending in Optics
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- Glossary
- Technical Tool



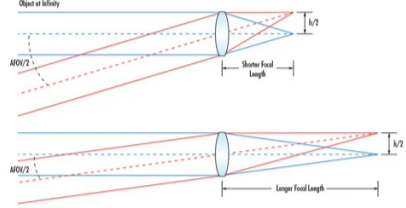
APPLICATION NOTE
Anti-Reflection (AR) Coatings



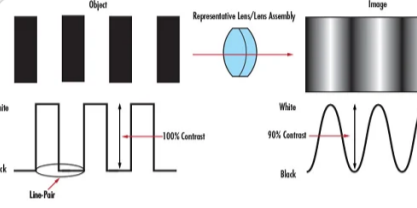
APPLICATION NOTE
An Introduction to Optical Coatings



VIDEO
Wavelength and f#



APPLICATION NOTE
Understanding Focal Length and Field of View



APPLICATION NOTE
Introduction to Modulation Transfer Function



VIDEO
LIGHT TALK - EPISODE 5: Ruggedized Imaging Lenses?

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