

TECHSPEC[®] 6mm FL f/5.6, Blue Series M12 Lens



6mm FL Blue Series M12 Lens



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1

+

₹7,395

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Product Downloads

General	
Blue Series	Series:
M12 Imaging Lens	Type:
No	IR Cut Filter:
High Performance M12 Lens	Imaging Lens Type:

Physical & Mechanical Properties

Fixed	Iris Option:
14.50	Length (mm):
14	Maximum Diameter (mm):
14	Outer Diameter (mm):
4	Weight (g):

Optical Properties

47.9°	Horizontal Field of View @ Max Sensor Format:
Horizontal: 135mm - 47.9° Vertical: 97.8mm - 35.6° Diagonal: 177.3mm - 60.7°	Field of View at Max Sensor Format:
134.9mm - 48.0°	Horizontal Field of View, 1/3" Sensor:
97.7mm - 35.7°	Horizontal Field of View, 1/4" Sensor:
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):
λ/4 MgF ₂ @ 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):
VIS	Lens Wavelength Range:

Sensor

1/3"	Maximum Sensor Format:
1.40	Pixel Size (μm):

Threading & Mounting

N/A	Filter Thread:
S-Mount (M12 x0.5)	Mount:

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:

Compliant	Reach 247:
China	Country of Origin:
Edmund Optics India Private Limited	Imported By:

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

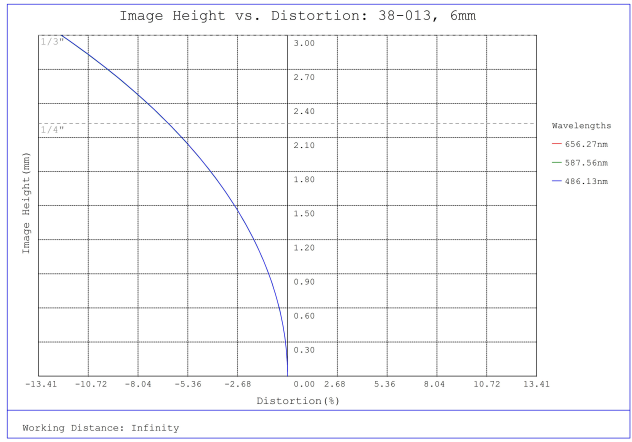
TECHSPEC® Blue Series M12 Lenses feature high resolution performance, along with the same great versatility of our **TECHSPEC® Green Series M12 Lenses**. Each lens consists of several precision glass elements mounted in a compact, aluminum housing. These lenses can connect to C-Mount cameras using the 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.

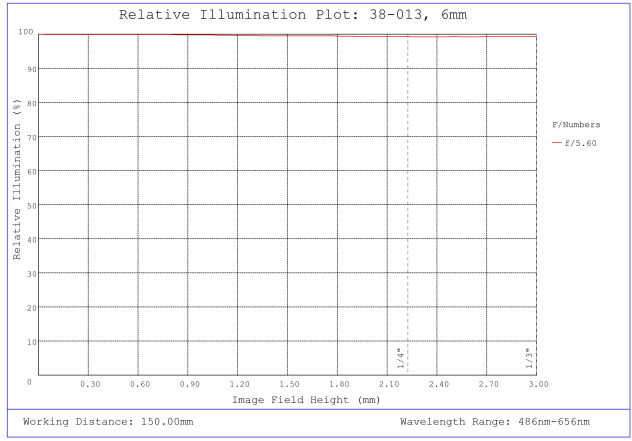
Edmund Optics has created multiple product families of our TECHSPEC® M12 S-Mount Lenses, which are designed to provide high resolution. These high performance lenses feature precision glass designs in a metal housing and have optimized specifications between each product family to meet your application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

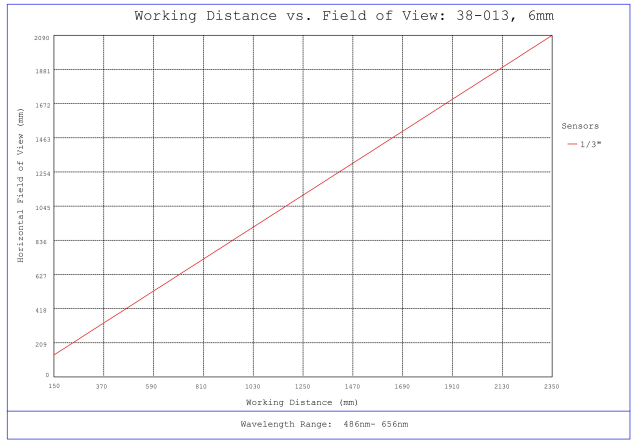
Technical Information



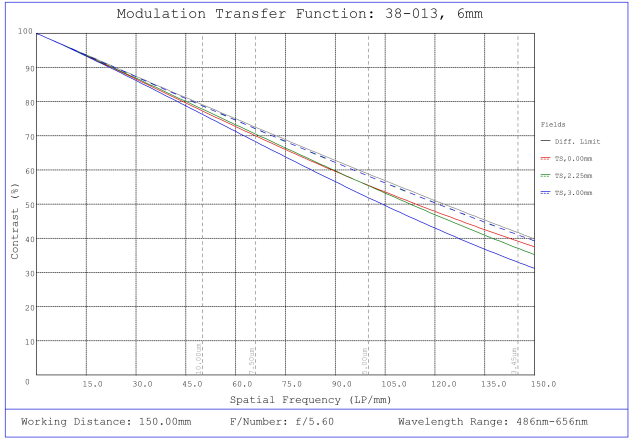
#38-013, 6mm FL f/5.6, Blue Series M12 Lens, Distortion Plot



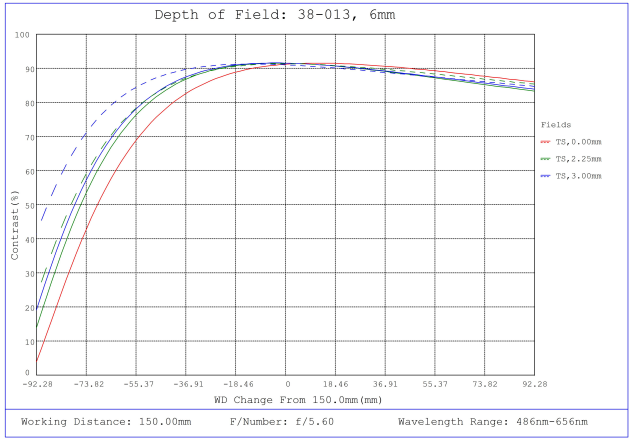
#38-013, 6mm FL f/5.6, Blue Series M12 Lens, Relative Illumination Plot



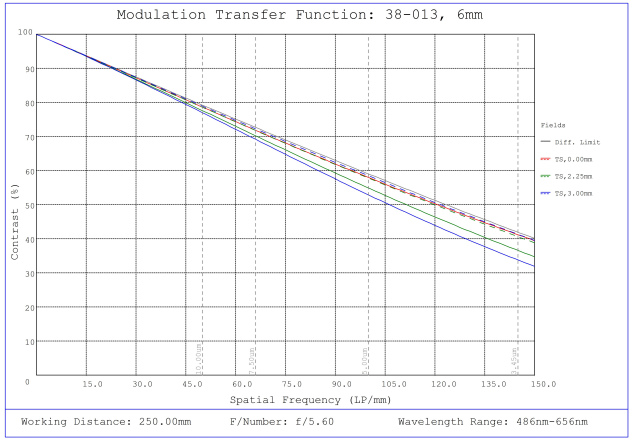
#38-013, 6mm FL f/5.6, Blue Series M12 Lens, Working Distance versus Field of View Plot



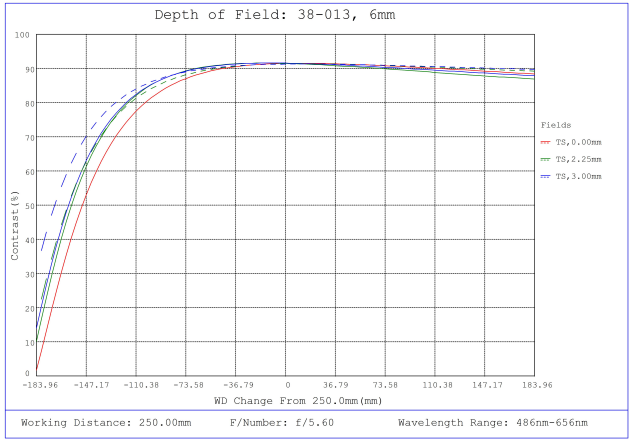
#38-013, 6mm FL f/5.6, Blue Series M12 Lens, Modulated Transfer Function (MTF) Plot, 150mm Working Distance, f5.6



#38-013, 6mm FL f/5.6, Blue Series M12 Lens, Depth of Field Plot, 150mm Working Distance, f5.6



#38-013, 6mm FL f/5.6, Blue Series M12 Lens, Modulated Transfer Function (MTF) Plot, 250mm Working Distance, f5.6



#38-013, 6mm FL f/5.6, Blue Series M12 Lens, Depth of Field Plot, 250mm Working Distance, f5.6

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.