

TECHSPEC[®] f/2.5, Visible, 3.6mm HEO Series M12 Lens



3.6mm Focal Length

Stock **#58-841** **9 In Stock**

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1

+

S\$209⁰⁰

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Volume Pricing	
Qty 1-49	S\$209.00 each
Qty 50+	S\$164.00 each
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Product Downloads

General	
HEO Series	Series:
M12 Imaging Lens	Type:
No	IR Cut Filter:
Meets IEC IPX7 and IPX9K	Imaging Lens Type:

Physical & Mechanical Properties

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

Optical Properties

Horizontal Field of View @ Max Sensor Format: 725.0mm - 84.1°	
Field of View at Max Sensor Format: Horizontal: 725.9mm - 84.2° Vertical: 469.9mm - 60.5° Diagonal: 1240.8mm - 114.4°	
Horizontal Field of View, 1/3" Sensor: 725.0mm - 84.1°	
Horizontal Field of View, 1/4" Sensor: 469.3mm - 60.5°	
6.00	Maximum Image Circle (mm):
0.0018	Numerical Aperture NA, Object Side:
100 lp/mm @20% Contrast	Resolution, On-Axis:
4(3)	Number of Elements (Groups):
425 - 675	Wavelength Range (nm):
3.60	Focal Length FL (mm):
400 - ∞	Working Distance (mm):
f/2.5	Aperture (f/#):
-45.62 @ Full Field	Distortion (%):
4.69 - 4.67	Back Focal Length BFL (mm):
425 - 625nm BBAR	Coating Specification:
2.67	Entrance Pupil Position (mm):
5.08	Object Space Principal Plane (mm):
1.77	Image Space Principal Plane (mm):
-45.62	Maximum Distortion (%):
-5.72	Exit Pupil Position (mm):
VIS	Lens Wavelength Range:

Sensor

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

Threading & Mounting

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

Environmental & Durability Factors

IPX7 and IPX9K	Environmental Rating:
	Type of Ruggedization:

Regulatory Compliance

Certificate of Conformance:

[View](#)

Product Details

- Up to 1/2", S-Mount Lens
- Up to 1.2 MegaPixels, 5µm Pixel Size Sensors
- Meets IEC Ingress Protection Ratings of IPX7 and IPX9K
- 2.2mm to 8mm Focal Length

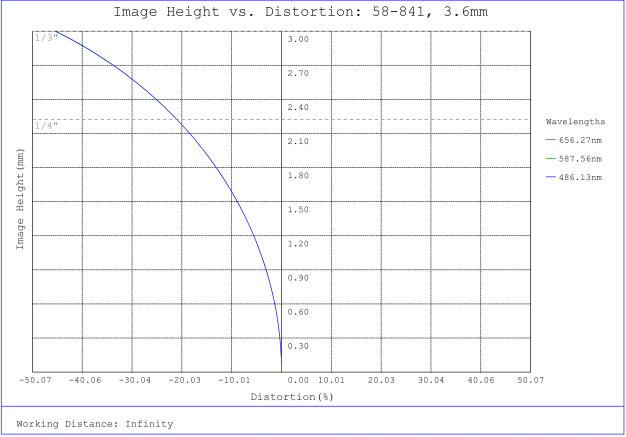
TECHSPEC® HEO Series M12 Lenses integrate high performance optics into a sealed, ruggedized enclosure. Designed to meet IEC Ingress Protection Codes IPX7 and IPX9K, these lenses withstand exposure to water up to 1 meter depth for 30 minutes and operate in close-range high-pressure, high-temperature water spray downs. Threaded for M12 x0.5, these lenses are optimized for 1/3" and 1/2" sensor formats. Each HEO Series Lens is waterproof, dustproof, and fog proof with the ability to be hermetically sealed to a camera. TECHSPEC® HEO Series M12 Lenses are ideal for harsh environment applications, such as automotive. Prescription data is available by submitting a [Request for Prescription Form](#)

Note: Compatible [TECHSPEC® M12 Imaging Lens Accessories](#) available.

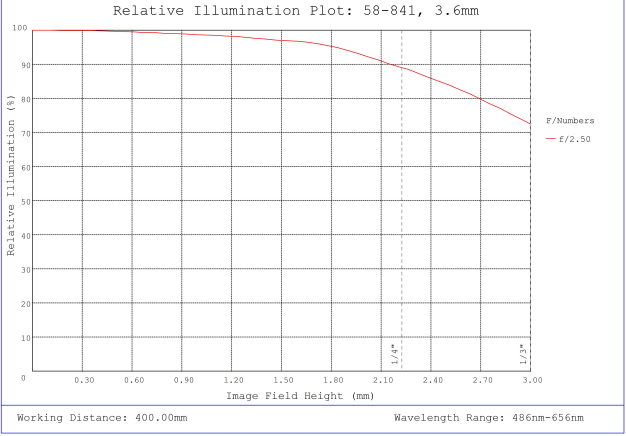
Edmund Optics has created multiple product families of our TECHSPEC® M12 S-Mount Lenses, which are designed to provide high resolution. These high performance lenses feature precision glass designs in a metal housing and have optimized specifications between each product family to meet your application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

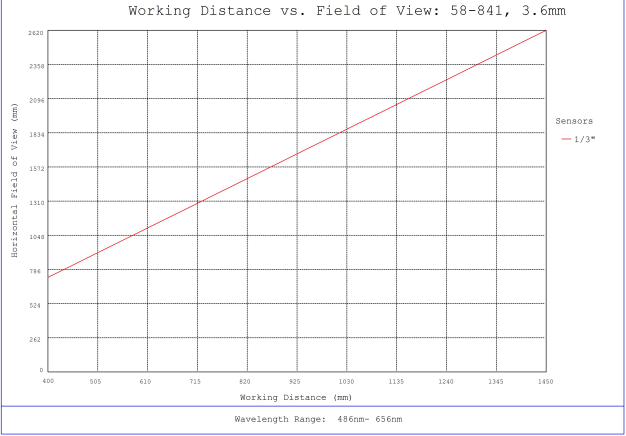
Technical Information



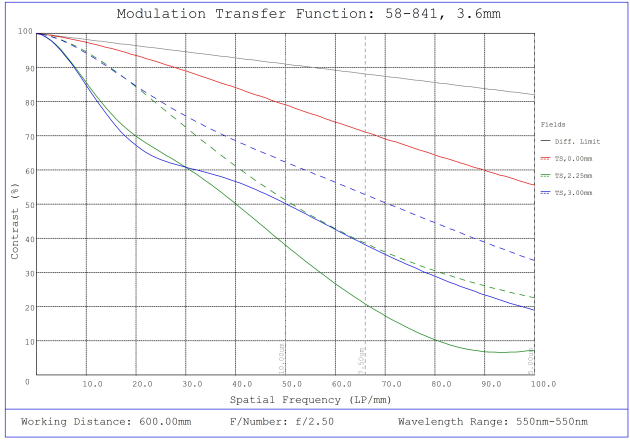
#58-841, f/2.5, Visible, 3.6mm HEO Series M12 Lens, Distortion Plot



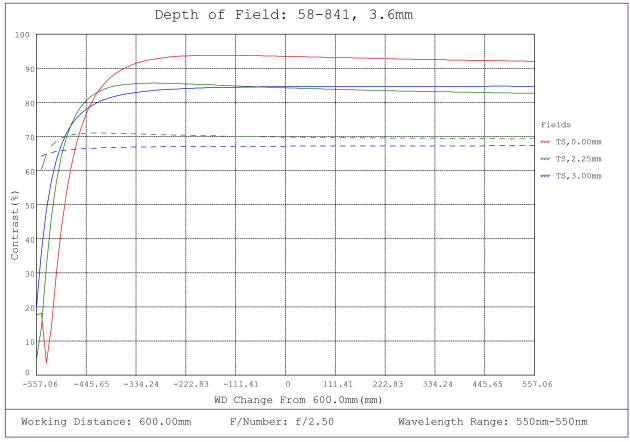
#58-841, f/2.5, Visible, 3.6mm HEO Series M12 Lens, Relative Illumination Plot



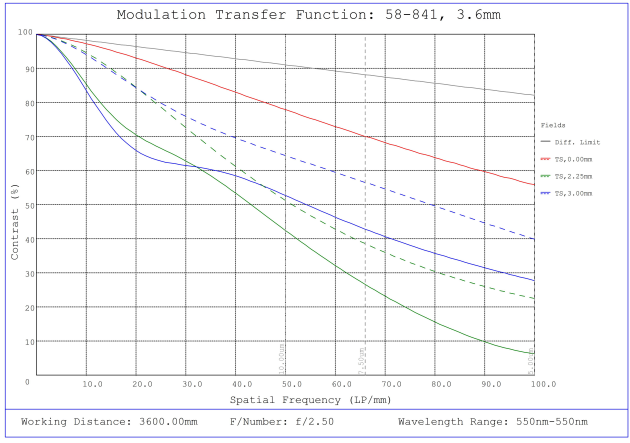
#58-841, f/2.5, Visible, 3.6mm HEO Series M12 Lens, Working Distance versus Field of View Plot



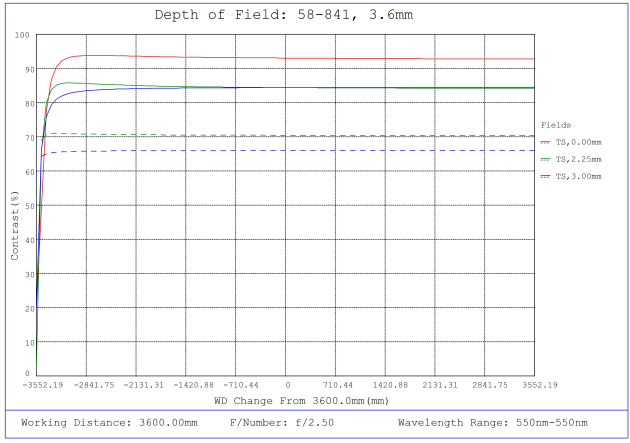
#58-841, f/2.5, Visible, 3.6mm HEO Series M12 Lens, Modulated Transfer Function (MTF) Plot, 600mm Working Distance, f2.5



#58-841, f/2.5, Visible, 3.6mm HEO Series M12 Lens, Depth of Field Plot, 600mm Working Distance, f2.5



#58-841, f/2.5, Visible, 3.6mm HEO Series M12 Lens, Modulated Transfer Function (MTF) Plot, 3600mm Working Distance, f2.5



#58-841, f/2.5, Visible, 3.6mm HEO Series M12 Lens, Depth of Field Plot, 3600mm Working Distance, f2.5

Focal Length	A	B	C	D
2.2mm	21.0mm	16.4mm	2.2mm	5.4mm
3.6mm	14.0mm	14.1mm	4.5mm	4.5mm
8.0mm	14.0mm	15.0mm	8.7mm	4.0mm



