

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



3.6mm Focal Length

Stock **#58-845** **2 In Stock**

-

1

+

₹9,683

ADD TO CART

Volume Pricing	
Qty 1+	₹9,683 each
Need More?	Request Quote

Product Downloads

SPECIFICATIONS

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: 730mm - 84.5° Vertical: 471.6mm - 60.7° Diagonal: 1258.2mm - 115.1°		
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):	
600 - 1050	Wavelength Range (nm):	
3.60	Focal Length FL (mm):	
400 - ∞	Working Distance (mm):	
f/2.5	Aperture (f/#):	
-46.19 @ Full Field	Distortion (%):	
4.48 - 4.46	Back Focal Length BFL (mm):	
600 - 1050nm BBAR	Coating Specification:	
2.68	Entrance Pupil Position (mm):	
5.12	Object Space Principal Plane (mm):	
1.78	Image Space Principal Plane (mm):	
46.19	Maximum Distortion (%):	
-5.93	Exit Pupil Position (mm):	
NIR	Lens Wavelength Range:	
Sensor		
1/3"	Maximum Sensor Format:	
5.00	Pixel Size (µm):	
Threading & Mounting		
N/A	Filter Thread:	
S-Mbunt (M12 x 0.5)	Mount:	
Environmental & Durability Factors		
Environmental Rating:		

IPX7 and IPX9K

Type of Ruggedization:
Waterproof (IPX7 and IPX9K)

Regulatory Compliance

Certificate of Conformance:
[View](#)

PRODUCT DETAILS

- Up to ½", 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

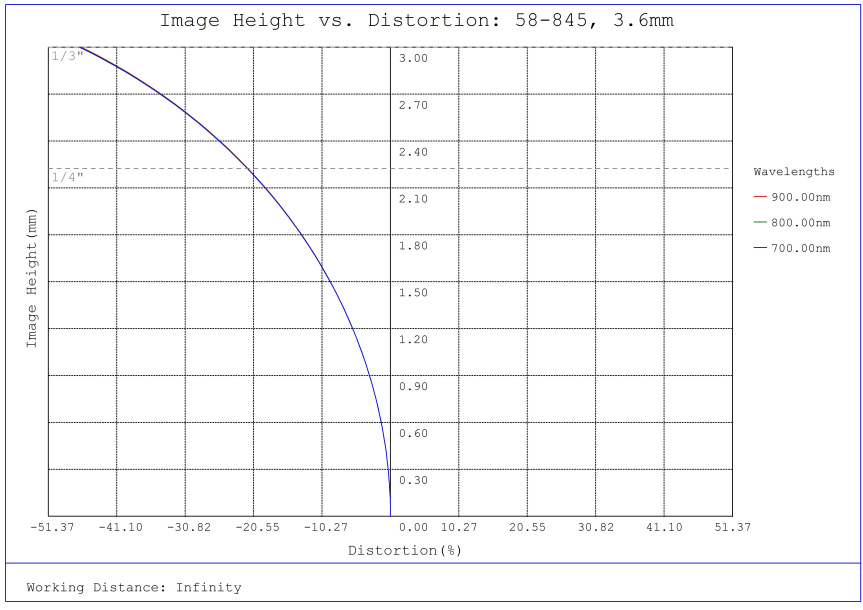
TECHSPEC® HEO Series M12 Lenses integrate high performance optics into a sealed, ruggedized enclosure. Designed to meet IEC Ingress Protection Codes IPX7 and IPX9K, these lenses withstand exposure to water up to 1 meter depth for 30 minutes and operate in close-range high-pressure, high-temperature water spray downs. Threaded for M12 x0.5, these lenses are optimized for 1/3" and ½" 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.

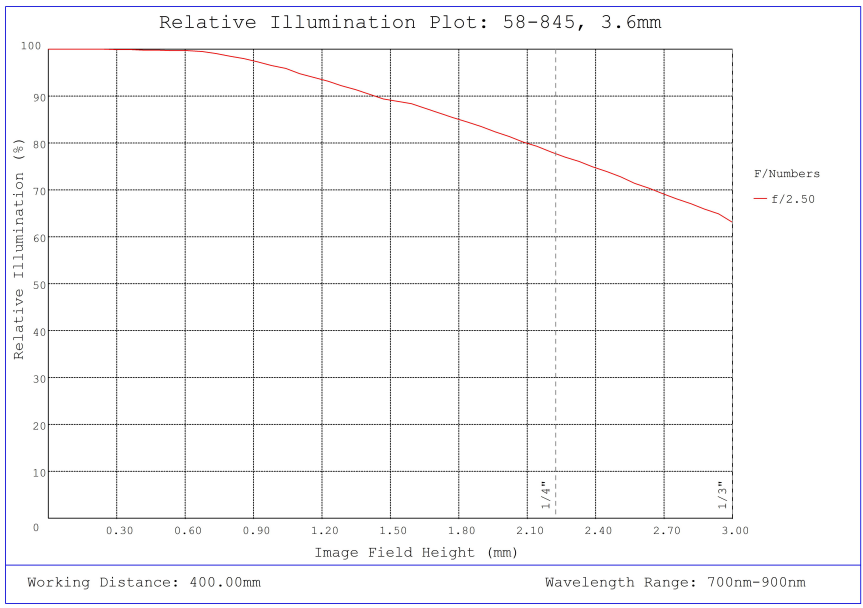
Edmund Optics has created multiple product families of our TECHSPEC® M12 S-Mount Lenses, which are designed to provide high resolution. These high performance lenses feature precision glass designs in a metal housing and have optimized specifications between each product family to meet your application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

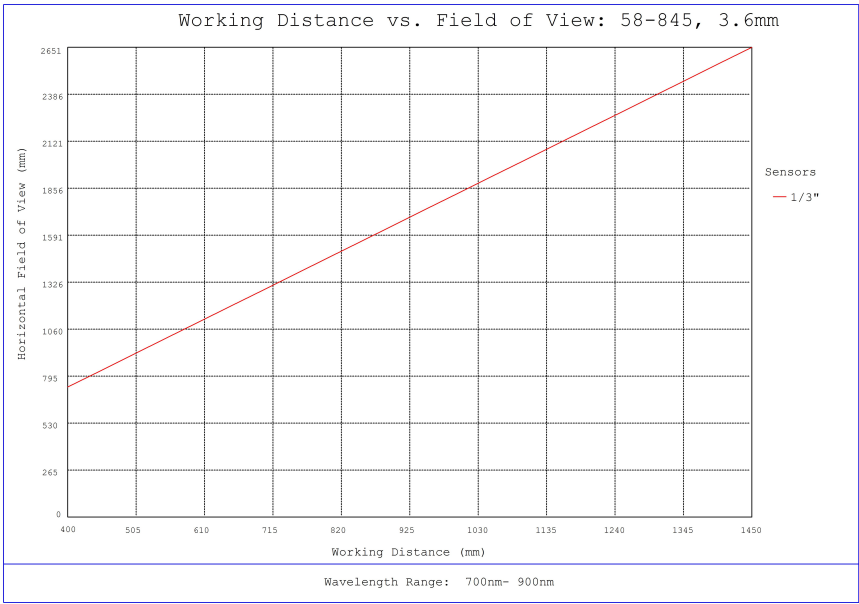
TECHNICAL INFORMATION



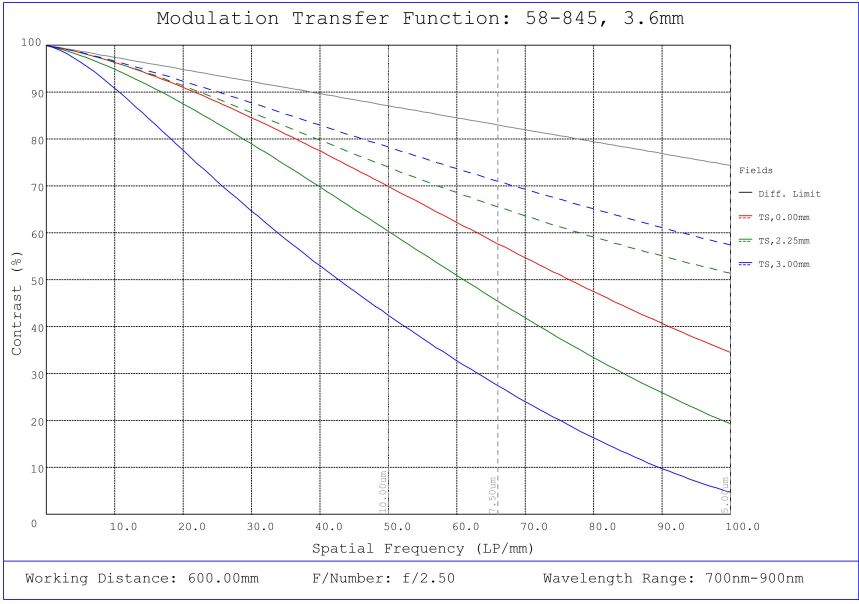
#58-845, f/2.5, NIR, 3.6mm HEO Series M12 Lens, Distortion Plot



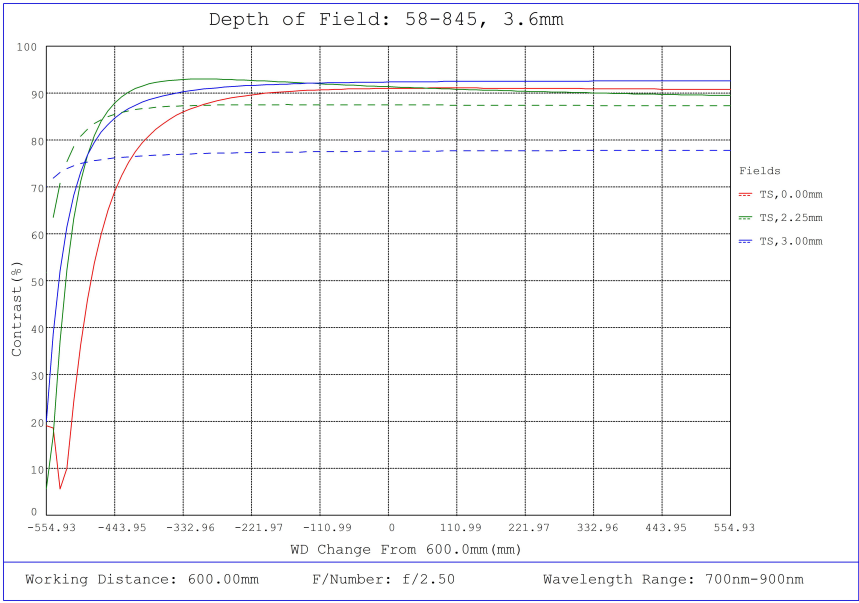
#58-845, f/2.5, NIR, 3.6mm HEO Series M12 Lens, Relative Illumination Plot



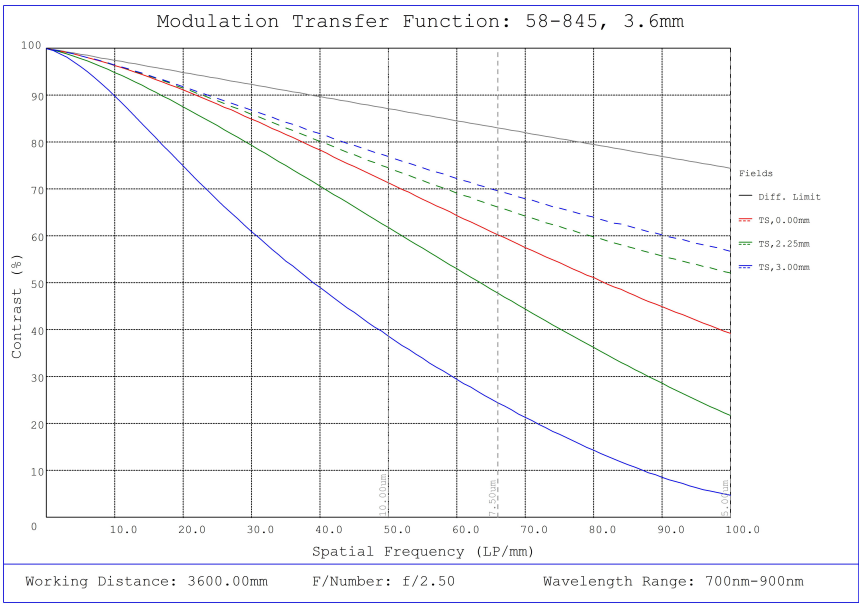
#58-845, f/2.5, NIR, 3.6mm HEO Series M12 Lens, Working Distance versus Field of View Plot



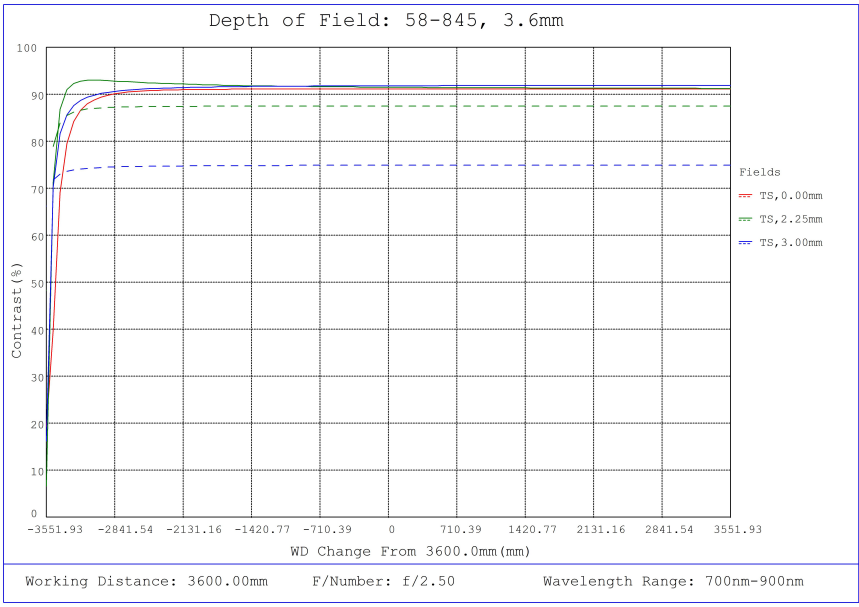
#58-845, f/2.5, NIR, 3.6mm HEO Series M12 Lens, Modulated Transfer Function (MTF) Plot, 600mm Working Distance, f2.5



#58-845, f/2.5, NIR, 3.6mm HEO Series M12 Lens, Depth of Field Plot, 600mm Working Distance, f2.5



#58-845, f/2.5, NIR, 3.6mm HEO Series M12 Lens, Modulated Transfer Function (MTF) Plot, 3600mm Working Distance, f2.5



#58-845, f/2.5, NIR, 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

M12 x 0.5 Mounting Thread

A

B

C

D

Image Plane