

TECHSPEC® f/2.5, Visible, 8.0mm HEO Series M12 Lens



8.0mm Focal Length

Stock #63-759 2 In Stock

-

1

+

£128⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-49	£128.00 each
Qty 50+	£100.00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

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:
15.00	Length (mm):
14	Maximum Diameter (mm):
14	Outer Diameter (mm):
4	Weight (g):

Optical Properties

Horizontal Field of View @ Max Sensor Format: 390.7mm - 51.9°	
Field of View at Max Sensor Format: Horizontal: 390.7mm - 51.9° Vertical: 249.7mm - 34.5° Diagonal: 442.8mm - 57.8°	
Horizontal Field of View, 1/1.7" Sensor: 390.7mm - 51.9°	
Horizontal Field of View, 1/2" Sensor: 341.7mm - 46.1°	
Horizontal Field of View, 1/2.5" Sensor: 306.3mm - 41.8°	
Horizontal Field of View, 1/3" Sensor: 249.6mm - 34.5°	
Horizontal Field of View, 1/4" Sensor: 184.6mm - 25.9°	
10.00	Maximum Image Circle (mm):
Numerical Aperture NA, Object Side: 0.0039	
Resolution, On-Axis: 145 lp/mm @ 20% Contrast	
6 (5)	Number of Elements (Groups):
425 - 675	Wavelength Range (nm):
Focal Length FL (mm): 8.00	
400 - ∞	Working Distance (mm):
Aperture (f/#): f/2.5	
-9.15 @ Full Field	Distortion (%):
Back Focal Length BFL (mm): 8.67 - 8.53	
Coating Specification: 425 - 625nm BBAR	
3.67	Entrance Pupil Position (mm):
7.82	Object Space Principal Plane (mm):
Image Space Principal Plane (mm): 0.97	
-9.15	Maximum Distortion (%):
Exit Pupil Position (mm): -7.65	
Lens Wavelength Range: VIS	

Sensor

Maximum Sensor Format: 1/1.7"	
5.00	Pixel Size (µm):

Threading & Mounting

Filter Thread: N/A	
-----------------------	--

Mount:	
S-Mount (M12 x0.5)	
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 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

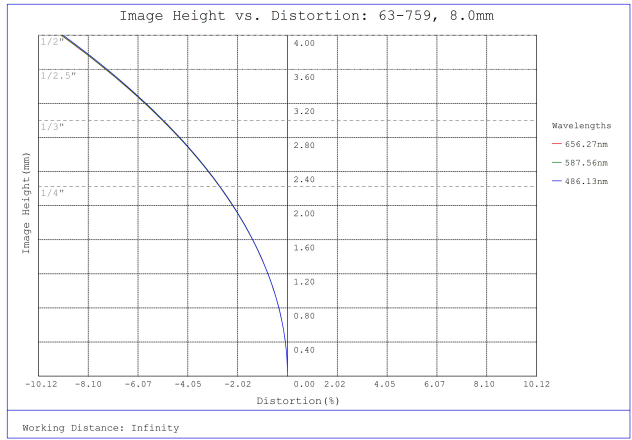
TECHSPEC® HEO Series M12 Lenses integrate high performance optics into a sealed, ruggedized enclosure. Designed to meet IEC Ingress Protection Codes IPX7 and IPX9K, these lenses withstand exposure to water up to 1 meter depth for 30 minutes and operate in close-range high-pressure, high-temperature water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

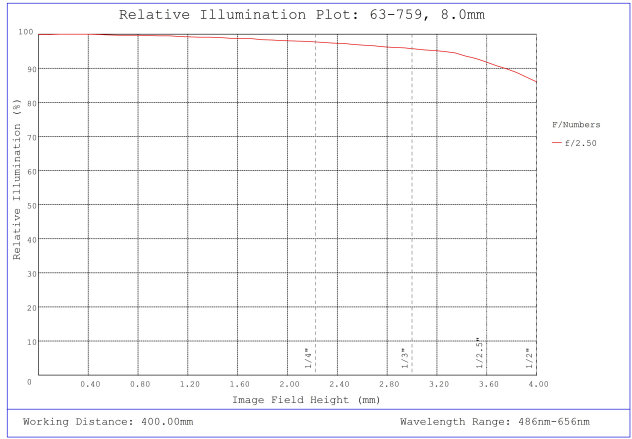
Edmund Optics has created multiple product families of our TECHSPEC® M12 S-Mount Lenses, which are designed to provide high resolution. These high performance lenses feature precision glass designs in a metal housing and have optimized specifications between each product family to meet your application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

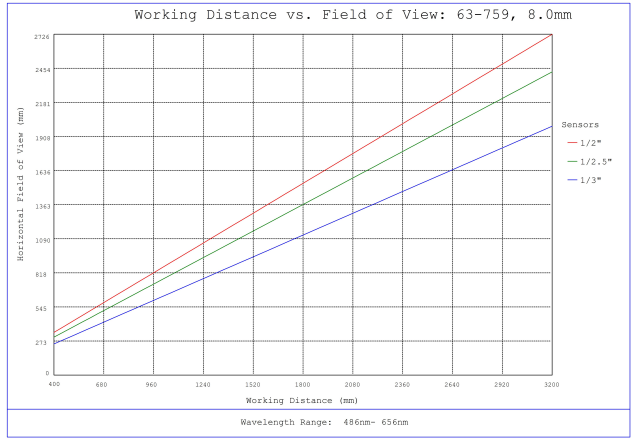
Technical Information



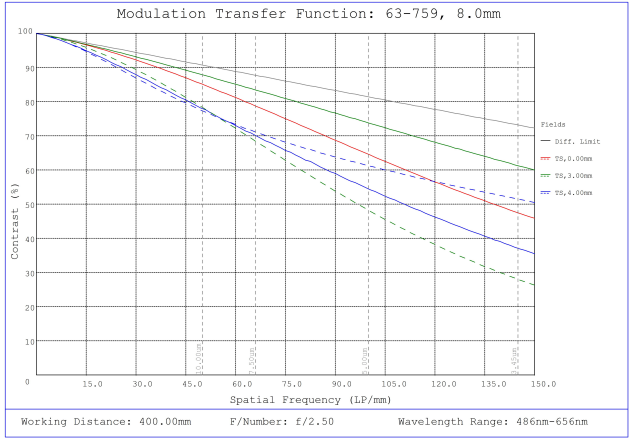
#63-759, f/2.5, Visible, 8.0mm HEO Series M12 Lens, Distortion Plot



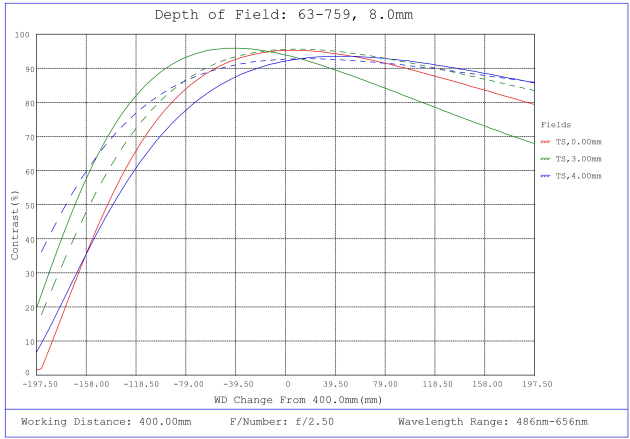
#63-759, f/2.5, Visible, 8.0mm HEO Series M12 Lens, Relative Illumination Plot



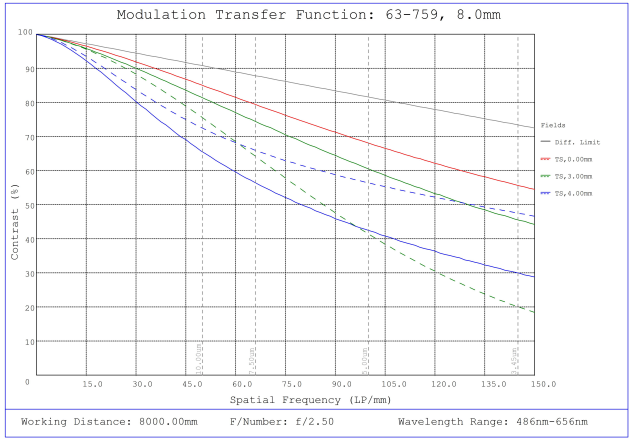
#63-759, f/2.5, Visible, 8.0mm HEO Series M12 Lens, Working Distance versus Field of View Plot



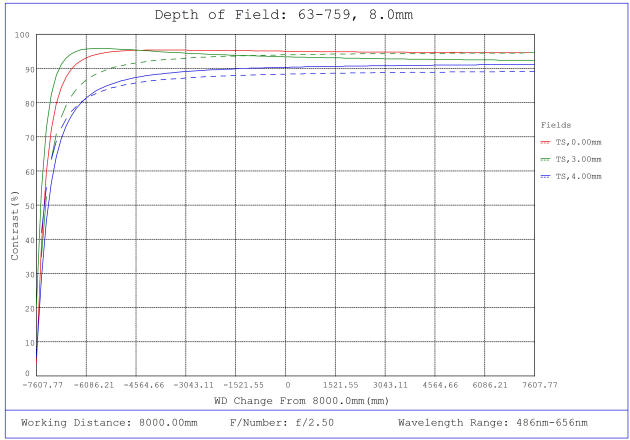
#63-759, f/2.5, Visible, 8.0mm HEO Series M12 Lens, Modulated Transfer Function (MTF) Plot, 400mm Working Distance, f2.5



#63-759, f/2.5, Visible, 8.0mm HEO Series M12 Lens, Depth of Field Plot, 400mm Working Distance, f2.5



#63-759, f/2.5, Visible, 8.0mm HEO Series M12 Lens, Modulated Transfer Function (MTF) Plot, 8000mm Working Distance, f2.5



#63-759, f/2.5, Visible, 8.0mm HEO Series M12 Lens, Depth of Field Plot, 8000mm 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



