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



8.0mm Focal Length

Stock #63-761 **2 In Stock**

⊖ 1 ⊕ ₹9,683

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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

341.7mm - 46.1°	Horizontal Field of View @ Max Sensor Format:
Horizontal: 340.1mm - 45.9° Vertical: 248.5mm - 34.4° Diagonal: 440.5mm - 57.6°	Field of View at Max Sensor Format:
341.7mm - 46.1°	Horizontal Field of View, 1/2" Sensor:
306.3mm - 41.8°	Horizontal Field of View, 1/2.5" Sensor:
249.6mm - 34.5°	Horizontal Field of View, 1/3" Sensor:
184.6mm - 25.9°	Horizontal Field of View, 1/4" Sensor:
10.00	Maximum Image Circle (mm):
0.0040	Numerical Aperture NA, Object Side:
145 lp/mm @20% Contrast	Resolution, On-Axis:
6 (5)	Number of Elements (Groups):
600 - 1050	Wavelength Range (nm):
8.00	Focal Length FL (mm):
400 - ∞	Working Distance (mm):
f/2.5	Aperture (f#):
-9.12 @ Full Field	Distortion (%):
8.72 - 8.57	Back Focal Length BFL (mm):
600 - 1050nm BBAR	Coating Specification:
3.70	Entrance Pupil Position (mm):
7.86	Object Space Principal Plane (mm):
0.98	Image Space Principal Plane (mm):
-9.12	Maximum Distortion (%):
-7.66	Exit Pupil Position (mm):
NIR	Lens Wavelength Range:

Sensor

1/2"	Maximum Sensor Format:
5.00	Pixel Size (µm):

Threading & Mounting

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

Environmental & Durability Factors

	Environmental Rating:
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Regulatory Compliance

RoHS 2015:
[Compliant](#)

Certificate of Conformance:
[View](#)

Reach 240:
[Compliant](#)

Country of Origin:
China

Imported By:
Edmund Optics India Private Limited

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

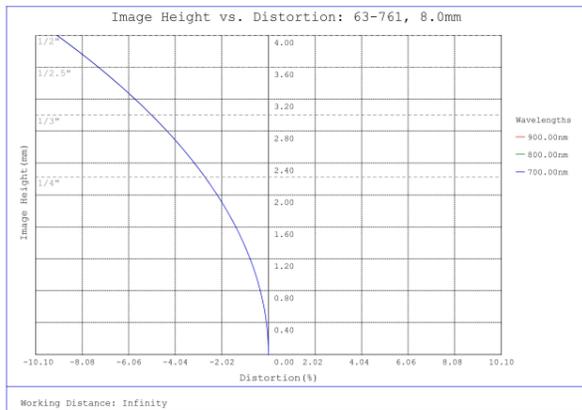
TECHSPEC® HEO Series M12 Lenses integrate high performance optics into a sealed, ruggedized enclosure. Designed to meet IEC Ingress Protection Codes IPX7 and IPX9K, these lenses withstand exposure to water up to 1 meter depth for 30 minutes and operate in close-range high-pressure, high-temperature water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

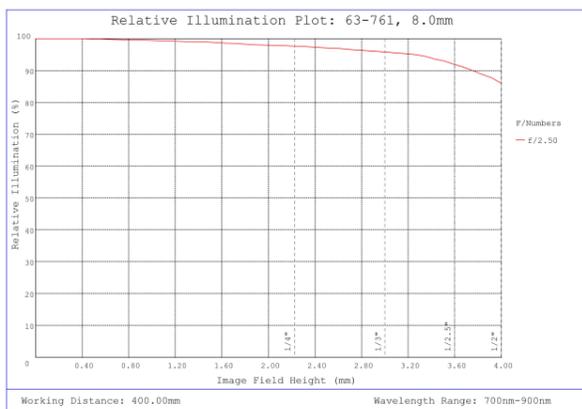
Edmund Optics has created multiple product families of our TECHSPEC® M12 S-Mount Lenses, which are designed to provide high resolution. These high performance lenses feature precision glass designs in a metal housing and have optimized specifications between each product family to meet your application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

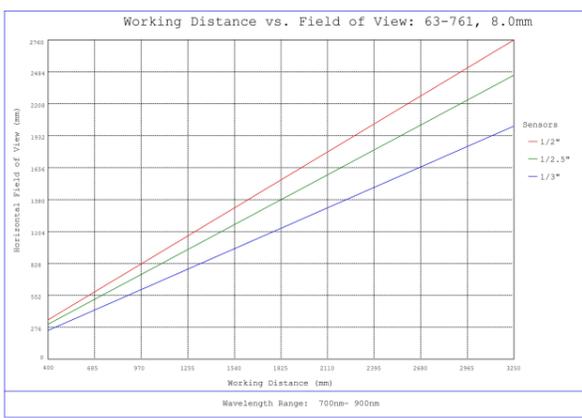
Technical Information



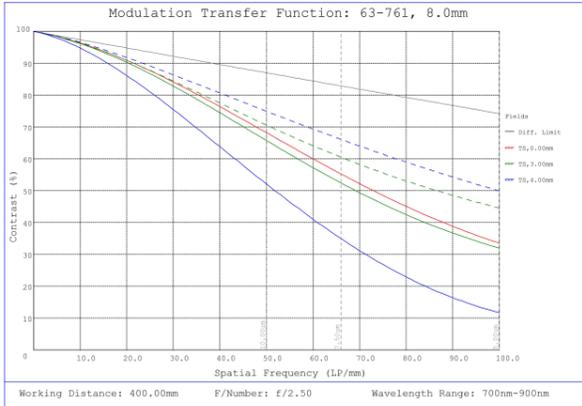
#63-761, f/2.5, NIR, 8.0mm HEO Series M12 Lens, Distortion Plot



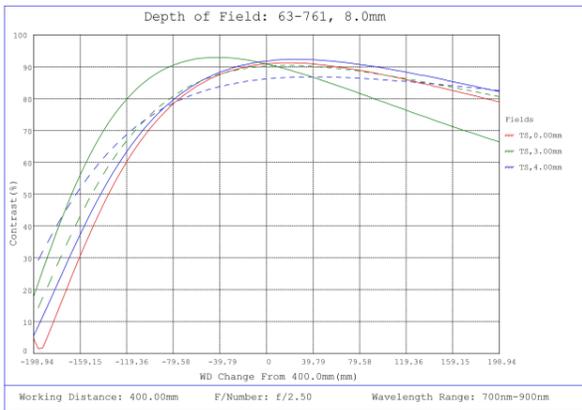
#63-761, f/2.5, NIR, 8.0mm HEO Series M12 Lens, Relative Illumination Plot



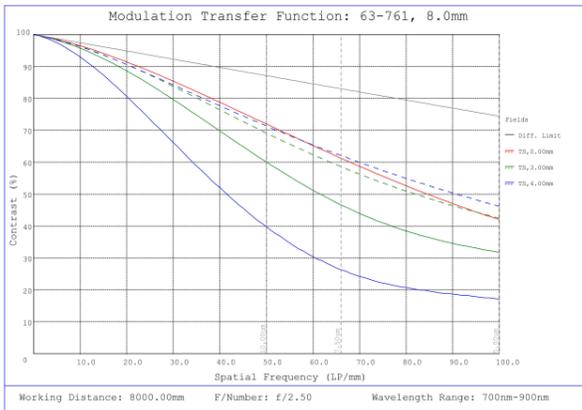
#63-761, f/2.5, NIR, 8.0mm HEO Series M12 Lens, Working Distance versus Field of View Plot



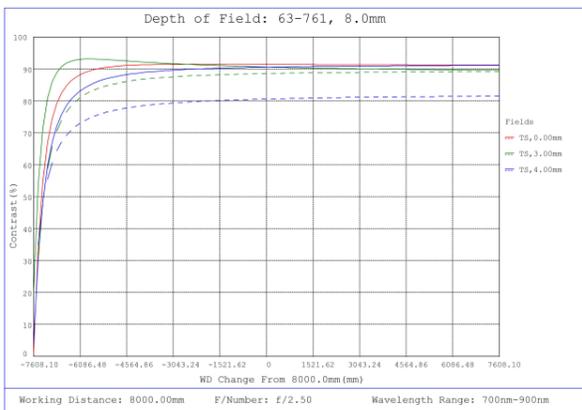
#63-761, f/2.5, NIR, 8.0mm HEO Series M12 Lens, Modulated Transfer Function (MTF) Plot, 400mm Working Distance, f2.5



#63-761, f/2.5, NIR, 8.0mm HEO Series M12 Lens, Depth of Field Plot, 400mm Working Distance, f2.5



#63-761, f/2.5, NIR, 8.0mm HEO Series M12 Lens, Modulated Transfer Function (MTF) Plot, 8000mm Working Distance, f2.5



#63-761, f/2.5, NIR, 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

