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



8.0mm Focal Length

Stock #63-759 **2 In Stock**

MRP ₹15,854

Price inclusive of all taxes

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Volume Pricing	
Qty 1-49	₹15,854 each
Qty 50+	₹12,476 each
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General

HEO Series **Product Family:**

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°

Maximum Image Circle (mm):
10.00

Numerical Aperture NA, Object Side:
0.0039

Resolution, On-Axis:
145 lp/mm @20% Contrast

Number of Elements (Groups):
6 (5)

Wavelength Range (nm):
425 - 675

Focal Length FL (mm):
8.00

Working Distance (mm):
400 - ∞

Aperture (f/#):
f/2.5

Distortion (%):
-9.15 @Full Field

Back Focal Length BFL (mm):
8.67 - 8.53

Coating Specification:
425 - 625nm BBAR

Entrance Pupil Position (mm):
3.67

Object Space Principal Plane (mm):
7.82

Image Space Principal Plane (mm):
0.97

Maximum Distortion (%):
-9.15

Exit Pupil Position (mm):
-7.65

Lens Wavelength Range:
VIS

Sensor

Maximum Sensor Format:
1/1.7"

Pixel Size (µm):
5.00

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

RoHS 2015:

Compliant

Certificate of Conformance:

[View](#)

REACH 241:

Compliant

Country of Origin:

China

Imported By:

Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
Phone: +91- 80-6845 0000

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

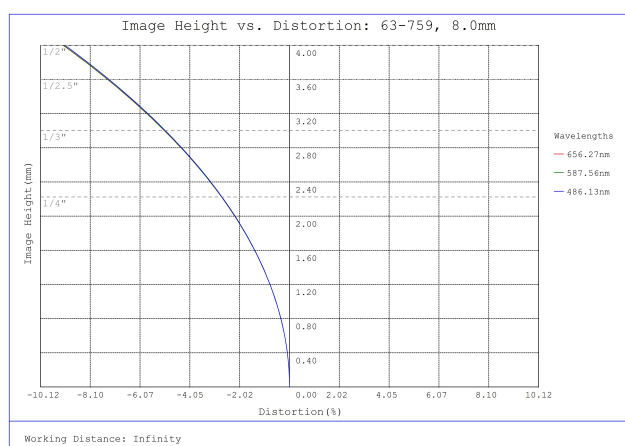
TECHSPEC® HEO Series M12 Lenses integrate high performance optics into a sealed, ruggedized enclosure. Designed to meet IEC Ingress Protection Codes IPX7 and IPX9K, these lenses withstand exposure to water up to 1 meter depth for 30 minutes and operate in close-range high-pressure, high-temperature water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

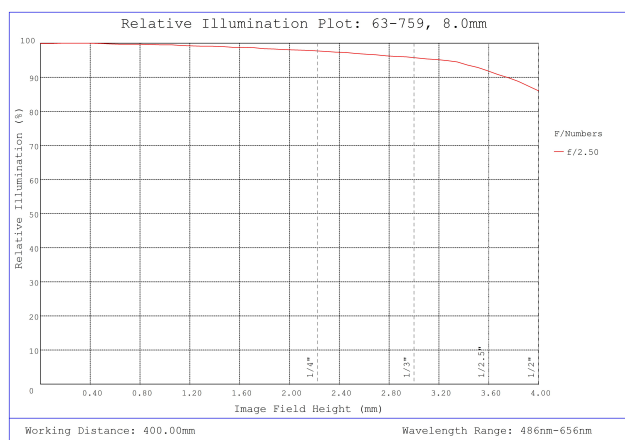
Edmund Optics has created multiple product families of our TECHSPEC® M12 S-Mount Lenses, which are designed to provide high resolution. These high performance lenses feature precision glass designs in a metal housing and have optimized specifications between each product family to meet your application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

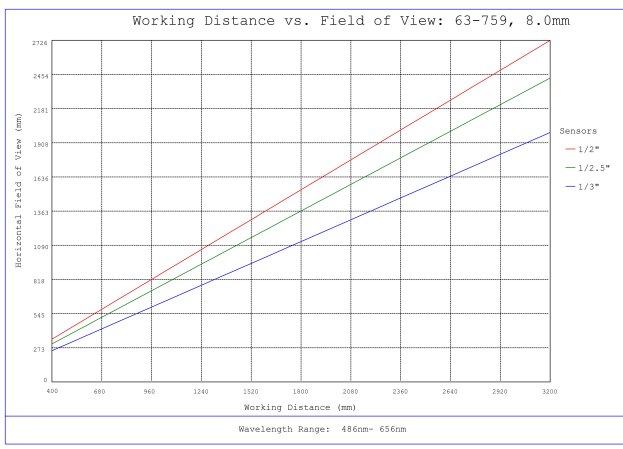
Technical Information



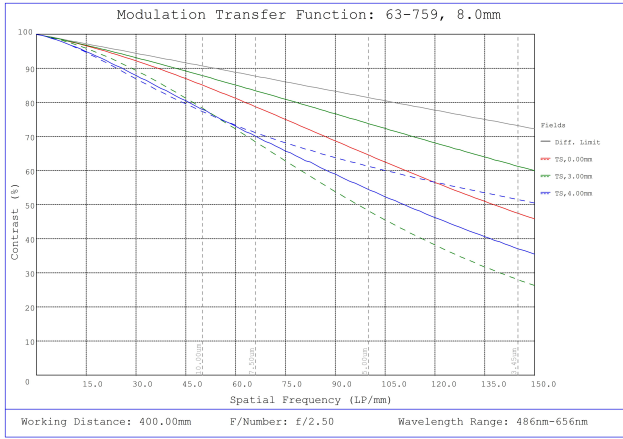
#63-759, f/2.5, Visible, 8.0mm HEO Series M12 Lens, Distortion Plot



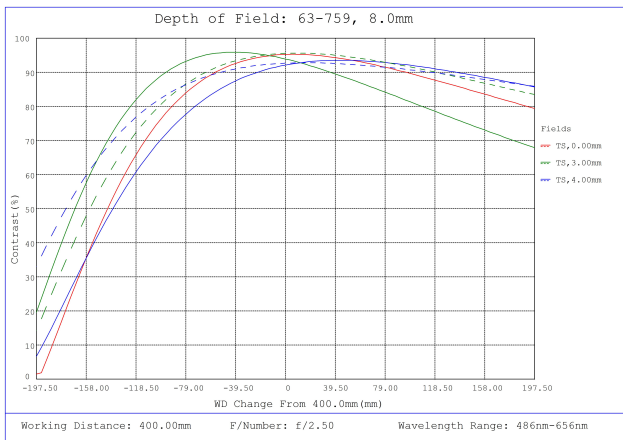
#63-759, f/2.5, Visible, 8.0mm HEO Series M12 Lens, Relative Illumination Plot



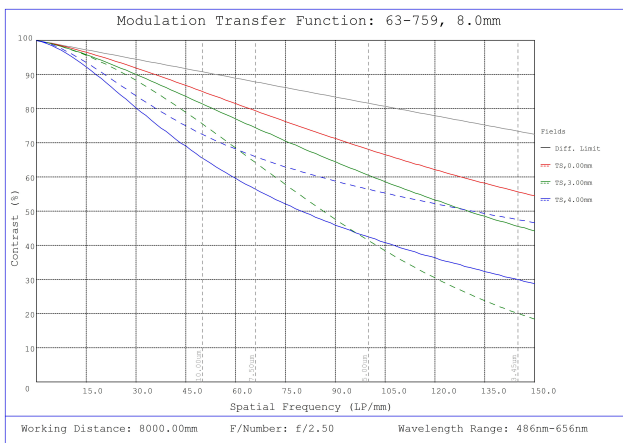
#63-759, f/2.5, Visible, 8.0mm HEO Series M12 Lens, Working Distance versus Field of View Plot



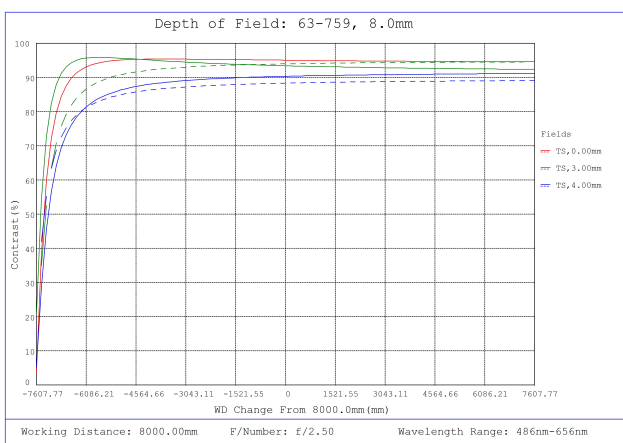
#63-759, f/2.5, Visible, 8.0mm HEO Series M12 Lens, Modulated Transfer Function (MTF) Plot, 400mm Working Distance, f2.5



#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

