

TECHSPEC[®] 12mm f/8, 150-500mm Primary WD, HRi Series Fixed Focal Length Lens



12mm FL HPi Series Fixed Focal Length Lens



Stock #36-766

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+

A\$1,000^{.00}

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Qty 1+	A\$1,000.00 each
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General	
HRi Series	Series:
Fixed Focal Length Lens	Type:
Physical & Mechanical Properties	
Fixed	Iris Option:

39.20	Length (mm):
33	Maximum Diameter (mm):
33	Outer Diameter (mm):
57	Weight (g):
1.63	Maximum Rear Protrusion (mm):

Optical Properties

Horizontal Field of View @ Max Sensor Format: 87.7mm - 41.1°	
Field of View at Max Sensor Format: Horizontal: 87.7mm - 41.1° Vertical: 65.1mm - 31.2° Diagonal: 111mm - 50.7°	
Horizontal Field of View, 2/3" Sensor: 87.7mm - 41.1°	
Horizontal Field of View, 1/1.8" Sensor: 71.2mm - 33.9°	
Horizontal Field of View, 1/2" Sensor: 63.1mm - 30.2°	
Horizontal Field of View, 1/2.5" Sensor: 57.0mm - 27.4°	
Horizontal Field of View, 1/3" Sensor: 47.0mm - 22.8°	
Horizontal Field of View, 1/4" Sensor: 35.2mm - 17.1°	
11.00	Maximum Image Circle (mm):
0.0063	Numerical Aperture NA, Object Side:
10 (6)	Number of Elements (Groups):
12.00	Focal Length FL (mm):
100 - ∞	Working Distance (mm):
f/8	Aperture (f/#):
425 - 675nm BBAR	Coating:
425 - 675nm BBAR	Coating Specification:
17.46	Entrance Pupil Position (mm):
26.28	Object Space Principal Plane (mm):
2.98	Image Space Principal Plane (mm):
-3.15	Maximum Distortion (%):
-30.39	Exit Pupil Position (mm):
150 - 500	Optimized Working Distance (mm):

VIS	Lens Wavelength Range:
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Sensor

2/3"	Maximum Sensor Format:
1.85	Pixel Size (μm):

Threading & Mounting

M30.5 x0.50 (Female)	Filter Thread:
C-Mount	Mount:

Environmental & Durability Factors

	Storage Temperature (°C):
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-20 to +60

Type of Ruggedization:
Industrial (Fixed Aperture with Simplified Mechanics)

Regulatory Compliance

Certificate of Conformance:
[View](#)

Product Details

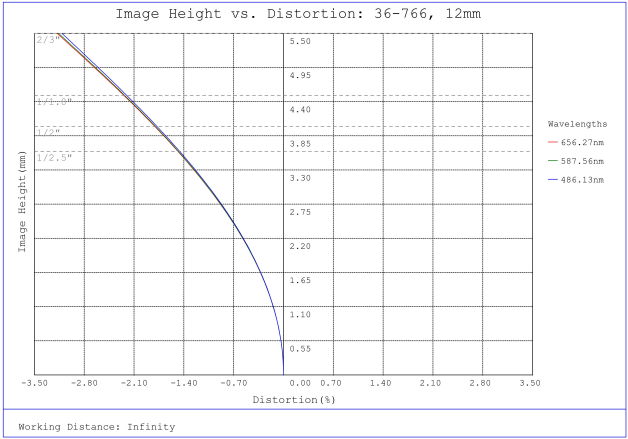
- 2/3", C-Mount Lens
- Up to 10 MegaPixels, 1.85µm Pixel Size Sensors
- Instrumentation (HRI) Versions of our HR Series Lenses with Streamlined Mechanical Designs and Fixed Apertures
- 8.5mm to 12mm Focal Length
- **Ruggedized (HRr) Designs** Also Available

TECHSPEC® HRI Series Fixed Focal Length Lenses are a streamlined version of our HR Series Lenses. There are multiple options available for each focal length to accommodate a variety of optimized working distance ranges. Designed for high volume imaging applications, HPi series lenses feature simplified focus mechanics and a fixed aperture. TECHSPEC HRI Series Fixed Focal Length Lenses are available in a variety of f/# options, making them ideal for applications that require reduced size, cost, and lockable focus imaging solutions. Call for OEM Quantity Pricing.

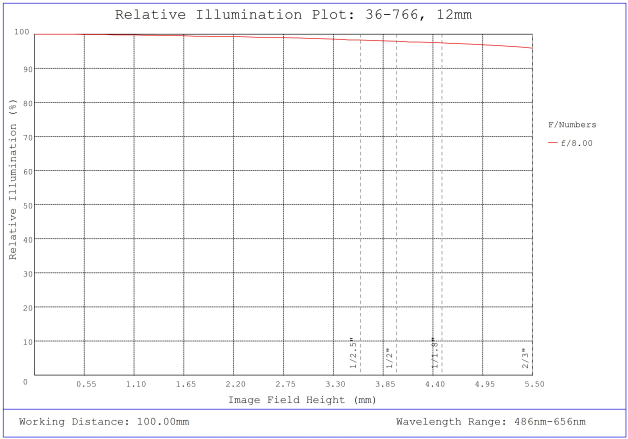
Edmund Optics has created a family of high performance optical designs (the HR Series family) and developed three customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the HR Series Lenses, providing the same optical performance in a variety of optomechanical solutions to meet your application requirements:

- **HR Series:** Features locking cam focus and iris adjustment. This is the most adjustable version of these optical designs and is the typical high quality machine vision lens.
- **HRI Series:** Simplified mechanics featuring fixed apertures with compact housing. **Industrial Ruggedization** for reduced size, cost, and locked focus.
- **HRr Series:** All optics glued in place and a locking C-clamp focus ring. **Stabilized Ruggedization** for reduced pixel shift and improved focus stability.

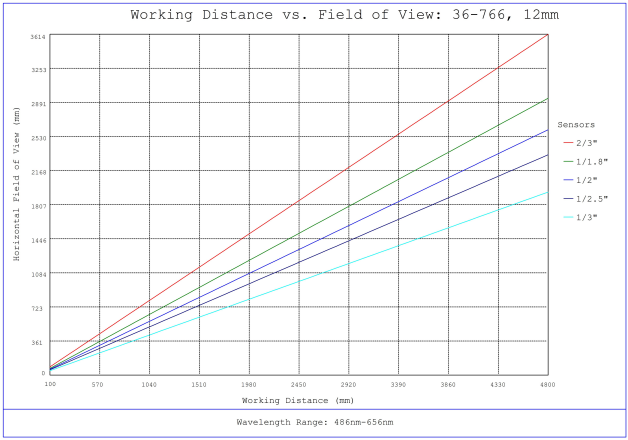
Technical Information



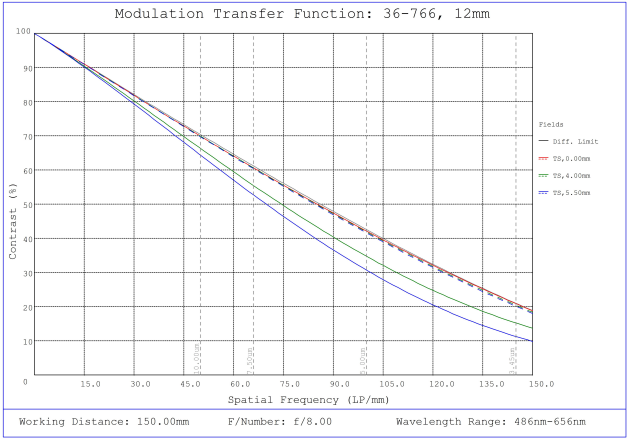
#36-766, 12mm f/8, 150-500mm Primary WD, HRI Series Fixed Focal Length Lens, Distortion Plot



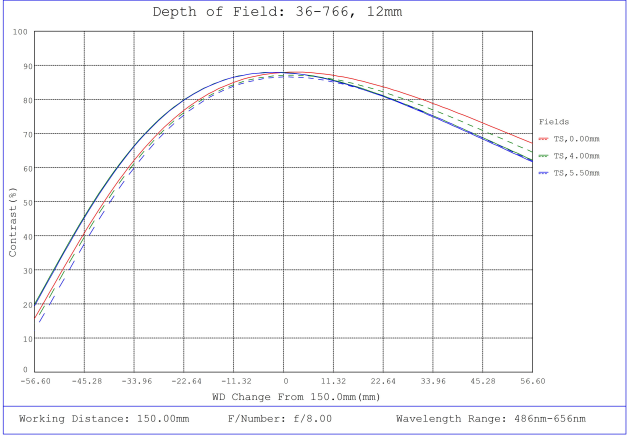
#36-766, 12mm f/8, 150-500mm Primary WD, HRI Series Fixed Focal Length Lens, Relative Illumination Plot



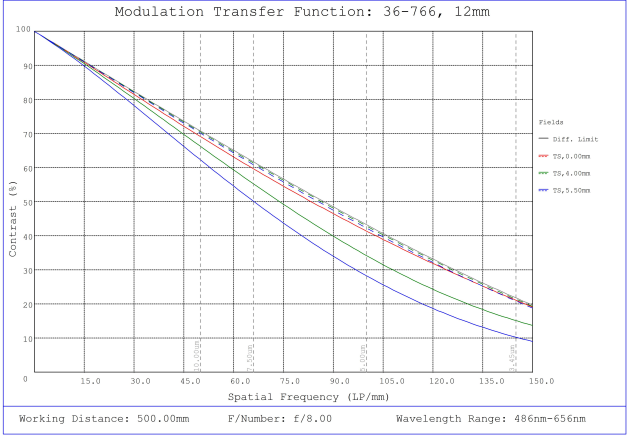
#36-766, 12mm f/8, 150-500mm Primary WD, HRI Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



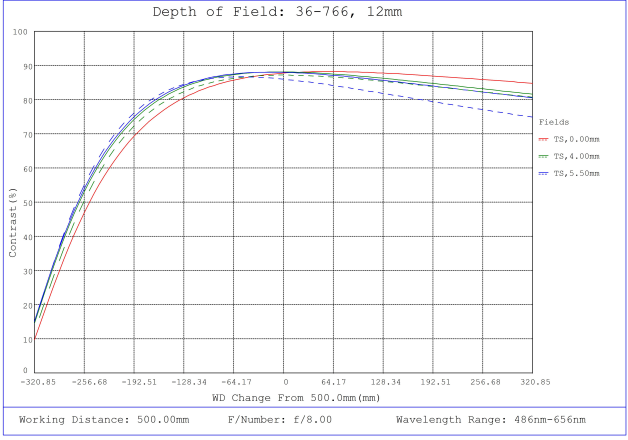
#36-766, 12mm f/8, 150-500mm Primary WD, HRi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 150mm Working Distance, f8



#36-766, 12mm f/8, 150-500mm Primary WD, HRi Series Fixed Focal Length Lens, Depth of Field Plot, 150mm Working Distance, f8



#36-766, 12mm f/8, 150-500mm Primary WD, HRi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f8



#36-766, 12mm f/8, 150-500mm Primary WD, HRi Series Fixed Focal Length Lens, Depth of Field Plot, 500mm Working Distance, f8

Compatible Cameras