

TECHSPEC[®] 12mm f/2.8, 1000mm-∞ Primary WD, HRi Series Fixed Focal Length Lens



12mm f/2.8, 1000-∞ Primary WD, HPI Series Fixed Focal Length Lens, #36-759



Stock **#36-759** 9 In Stock

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1

+

A\$1,000^{.00}

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Volume Pricing	
Qty 1+	A\$1,000.00 each
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Product Downloads

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: 90.2mm - 42.0°	
Field of View at Max Sensor Format: Horizontal: 90.1mm - 42° Vertical: 66.8mm - 31.9° Diagonal: 114.2mm - 51.8°	
Horizontal Field of View, 2/3" Sensor: 90.2mm - 42.0°	
Horizontal Field of View, 1/1.8" Sensor: 73.1mm - 34.7°	
Horizontal Field of View, 1/2" Sensor: 64.8mm - 30.9°	
Horizontal Field of View, 1/2.5" Sensor: 58.6mm - 28.1°	
Horizontal Field of View, 1/3" Sensor: 48.3mm - 23.3°	
Horizontal Field of View, 1/4" Sensor: 36.1mm - 17.5°	
Maximum Image Circle (mm): 11.00	
Numerical Aperture NA, Object Side: 0.0174	
Number of Elements (Groups): 10 (6)	
Focal Length FL (mm): 12.00	
Working Distance (mm): 100 - ∞	
Aperture (f/#): f/2.8	
Coating: 425 - 675nm BBAR	
Coating Specification: 425 - 675nm BBAR	
Entrance Pupil Position (mm): 17.6	
Object Space Principal Plane (mm): 26.32	
Image Space Principal Plane (mm): 2.81	
Maximum Distortion (%): -3.28	
Exit Pupil Position (mm): -31.25	
Optimized Working Distance (mm): 1000 - ∞	

VS	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

[View](#)

Certificate of Conformance:

Product Details

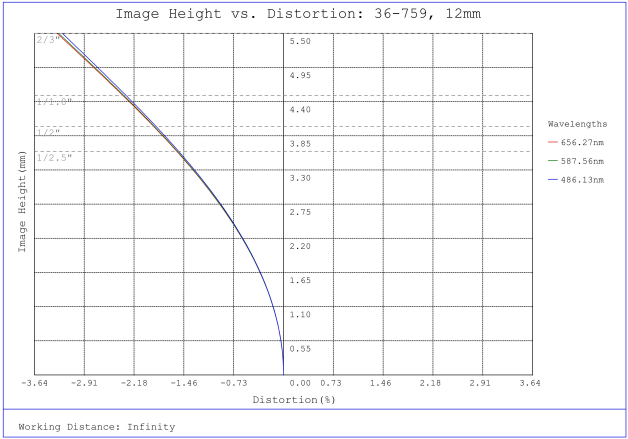
- 2/3", C-Mount Lens
- Up to 10 MegaPixels, 1.85µm Pixel Size Sensors
- Instrumentation (HRI) Versions of our HR Series Lenses with Streamlined Mechanical Designs and Fixed Apertures
- 8.5mm to 12mm Focal Length
- **Ruggedized (HRr) Designs** Also Available

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.

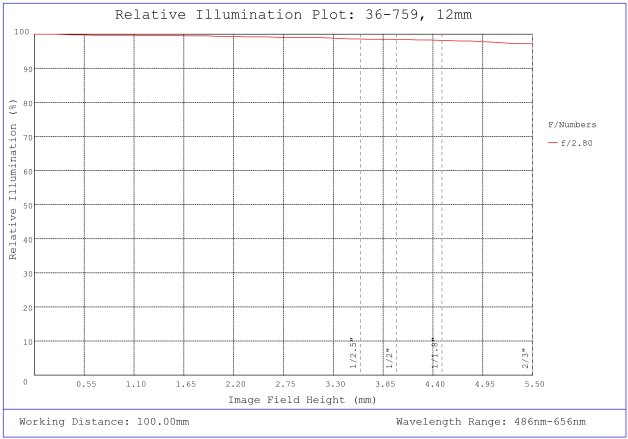
Edmund Optics has created a family of high performance optical designs (the HR Series family) and developed three customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the HR Series Lenses, providing the same optical performance in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

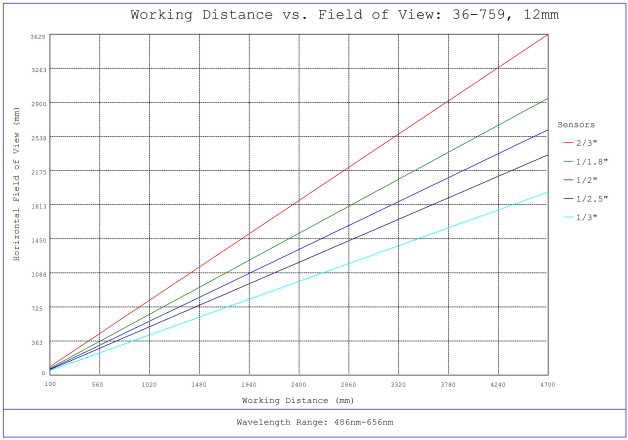
Technical Information



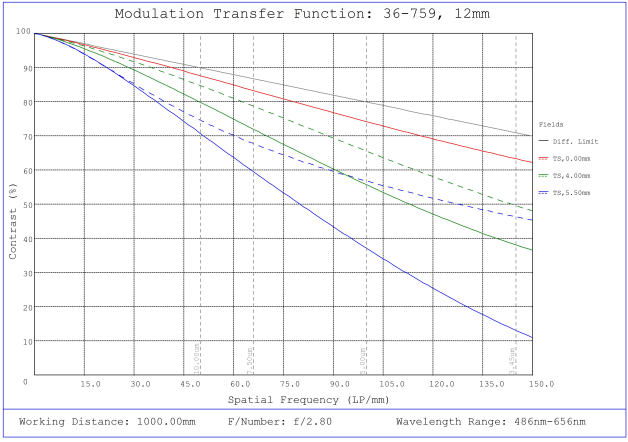
#36-759, 12mm f/2.8, 1000mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Distortion Plot



#36-759, 12mm f/2.8, 1000mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Relative Illumination Plot



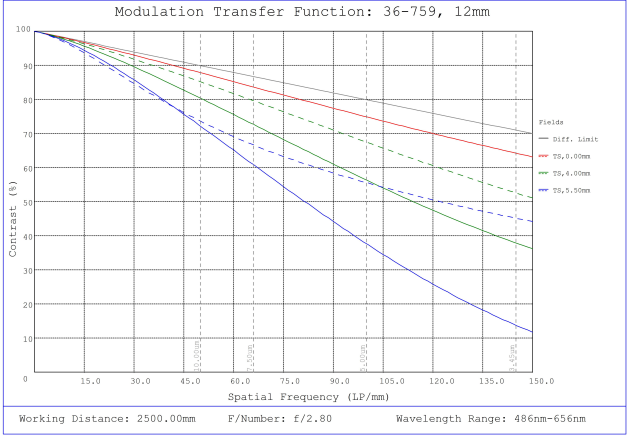
#36-759, 12mm f/2.8, 1000mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



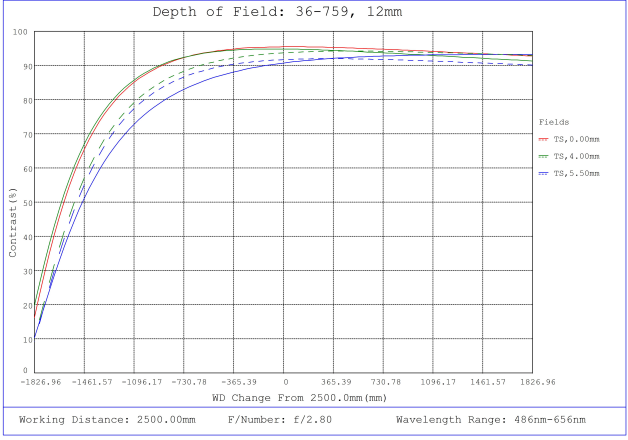
#36-759, 12mm f/2.8, 1000mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 1000mm Working Distance, f2.8



#36-759, 12mm f/2.8, 1000mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Depth of Field Plot, 1000mm Working Distance, f2.8



#36-759, 12mm f/2.8, 1000mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 2500mm Working Distance, f2.8



#36-759, 12mm f/2.8, 1000mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Depth of Field Plot, 2500mm Working Distance, f2.8

Compatible Cameras