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TECHSPEC® 12mm f/5.6, 400-2000mm Primary WD, HRi Series Fixed Focal Length Lens



12mm FL HPI Series Fixed Focal Length Lens



Stock #36-764 **6 In Stock**

- 1 + C\$937.⁵⁰

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Volume Pricing

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| Qty 1+ | C\$937.50 each |
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Product Downloads

General

HRi Series **Product Family:**
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

| | |
|---|--|
| 89.3mm - 41.7° | Horizontal Field of View @ Max Sensor Format: |
| Horizontal: 89.3mm - 41.7° Vertical: 66.3mm - 31.6° Diagonal: 113.1mm - 51.4° | Field of View at Max Sensor Format: |
| 89.3mm - 41.7° | Horizontal Field of View, 2/3" Sensor: |
| 72.5mm - 34.4° | Horizontal Field of View, 1/1.8" Sensor: |
| 64.2mm - 30.7° | Horizontal Field of View, 1/2" Sensor: |
| 58.0mm - 27.9° | Horizontal Field of View, 1/2.5" Sensor: |
| 47.9mm - 23.1° | Horizontal Field of View, 1/3" Sensor: |
| 35.8mm - 17.4° | Horizontal Field of View, 1/4" Sensor: |
| 11.00 | Maximum Image Circle (mm): |
| 0.0088 | Numerical Aperture NA, Object Side: |
| 10 (6) | Number of Elements (Groups): |
| 12.00 | Focal Length FL (mm): |
| 100 - ∞ | Working Distance (mm): |
| f/5.6 | Aperture (f#): |
| 425 - 675nm BBAR | Coating: |
| 425 - 675nm BBAR | Coating Specification: |
| 17.52 | Entrance Pupil Position (mm): |
| 26.27 | Object Space Principal Plane (mm): |
| 2.90 | Image Space Principal Plane (mm): |
| -3.26 | Maximum Distortion (%): |
| -30.86 | Exit Pupil Position (mm): |
| 400 - 2000 | Optimized Working Distance (mm): |
| VS | Lens Wavelength Range: |

Sensor

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

Threading & Mounting

| | |
|-----------------------|-----------------------|
| M30.5 x 0.50 (Female) | Filter Thread: |
| C-Mount | Mount: |

Environmental & Durability Factors

-20 to +60

Storage Temperature (°C):

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

Regulatory Compliance

Certificate of Conformance:

[View](#)

Product Details

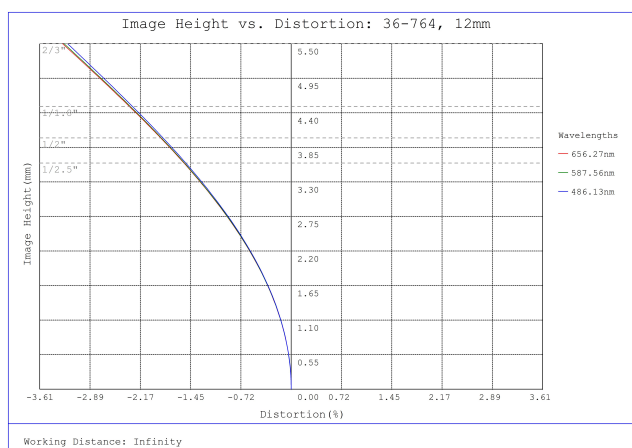
- 2/3", C-Mount Lens
- Up to 10 MegaPixels, 1.85µm Pixel Size Sensors
- Instrumentation (HRi) Versions of our HR Series Lenses with Streamlined Mechanical Designs and Fixed Apertures
- 8.5mm to 12mm Focal Length
- **Ruggedized (HRr) Designs** Also Available

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, HRi 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.

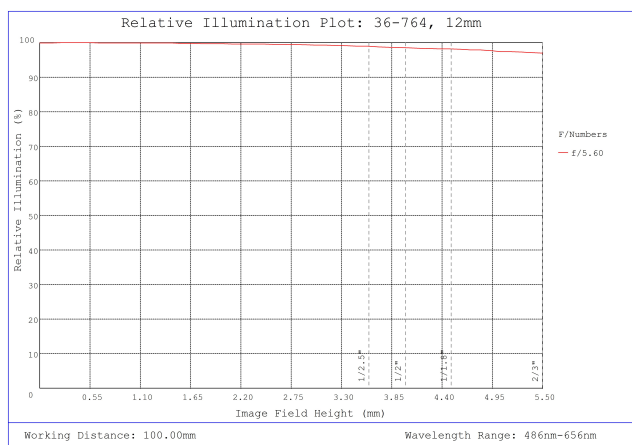
Edmund Optics has created a family of high performance optical designs (the HR Series family) and developed three customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the HR Series Lenses, providing the same optical performance in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

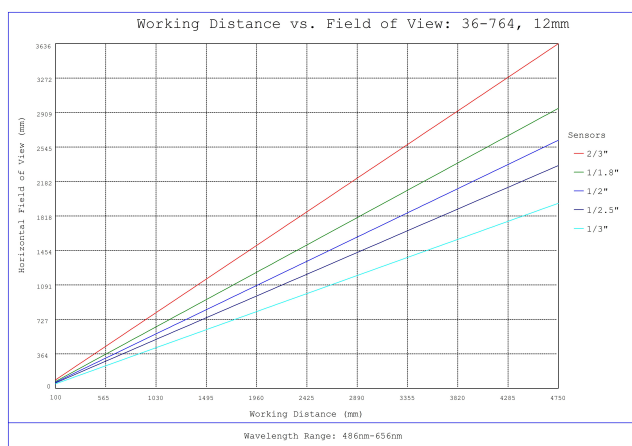
Technical Information



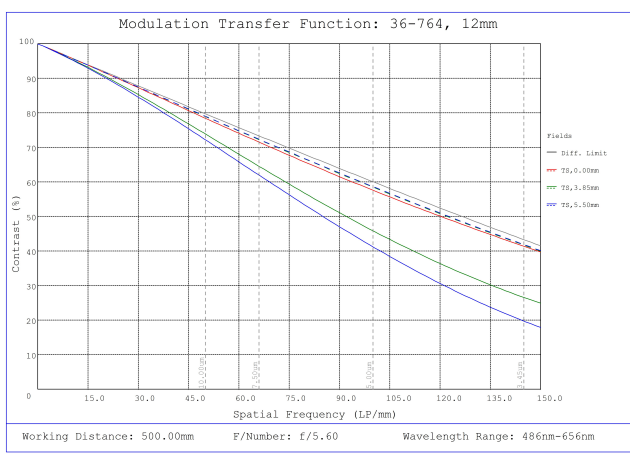
#36-764, 12mm f/5.6, 400-2000mm Primary WD, HRi Series Fixed Focal Length Lens, Distortion Plot



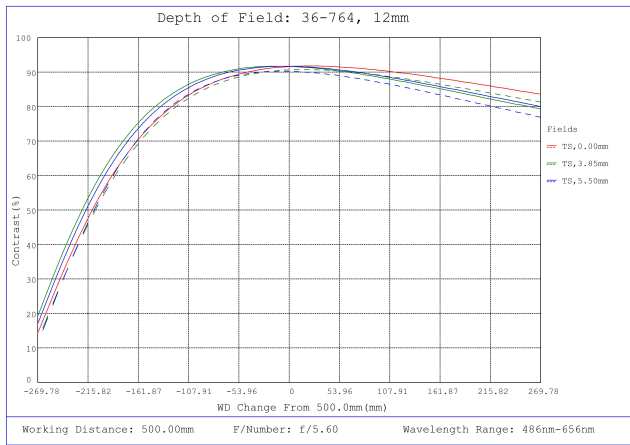
#36-764, 12mm f/5.6, 400-2000mm Primary WD, HRi Series Fixed Focal Length Lens, Relative Illumination Plot



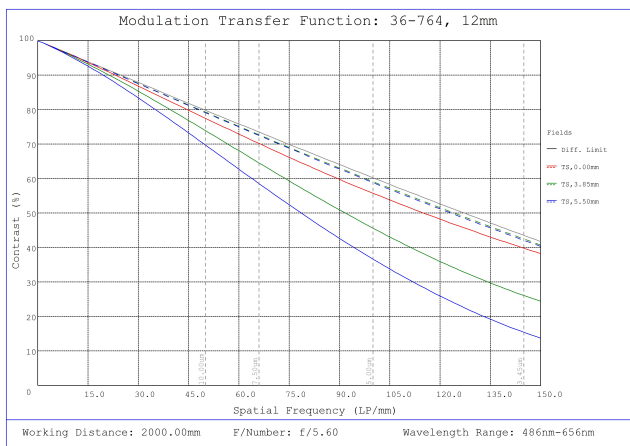
#36-764, 12mm f/5.6, 400-2000mm Primary WD, HRi Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



#36-764, 12mm f/5.6, 400-2000mm Primary WD, HRi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f5.6



#36-764, 12mm f/5.6, 400-2000mm Primary WD, HRi Series Fixed Focal Length Lens, Depth of Field Plot, 500mm Working Distance, f5.6



#36-764, 12mm f/5.6, 400-2000mm Primary WD, HRi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 2000mm Working Distance, f5.6



#36-764, 12mm f/5.6, 400-2000mm Primary WD, HRi Series Fixed Focal Length Lens, Depth of Field Plot, 2000mm Working Distance, f5.6

Compatible Cameras