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TECHSPEC® 12mm f/5.6, 1000mm-∞ Primary WD, HRi Series Fixed Focal Length Lens



12mm FL HPI Series Fixed Focal Length Lens



Stock #36-765 **CLEARANCE** 1 In Stock

⊖ 1 ⊕ MRP ₹62,279

Price inclusive of all taxes

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| Volume Pricing | |
| Qty 1+ | ₹62,279 each |
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Product Downloads

General

HRi Series **Product Family:**
Fixed Focal Length Lens **Type:**

Physical & Mechanical Properties

Iris Option:

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

Optical Properties

| | |
|---|---|
| 90.2mm - 42.0° | Horizontal Field of View @ Max Sensor Format: |
| Horizontal: 90.1mm - 42° Vertical: 66.8mm - 31.9° Diagonal: 114.2mm - 51.8° | Field of View at Max Sensor Format: |
| 90.2mm - 42.0° | Horizontal Field of View, 2/3" Sensor: |
| 73.1mm - 34.7° | Horizontal Field of View, 1/1.8" Sensor: |
| 64.8mm - 30.9° | Horizontal Field of View, 1/2" Sensor: |
| 58.6mm - 28.1° | Horizontal Field of View, 1/2.5" Sensor: |
| 48.3mm - 23.3° | Horizontal Field of View, 1/3" Sensor: |
| 36.1mm - 17.5° | Horizontal Field of View, 1/4" Sensor: |
| 11.00 | Maximum Image Circle (mm): |
| 0.0087 | 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: |
| 17.6 | Entrance Pupil Position (mm): |
| 26.32 | Object Space Principal Plane (mm): |
| 2.81 | Image Space Principal Plane (mm): |
| -3.28 | Maximum Distortion (%): |
| -31.25 | Exit Pupil Position (mm): |
| 1000 - ∞ | Optimized Working Distance (mm): |
| VIS | 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

Storage Temperature (°C):

-20 to +60

Type of Ruggedization:

Industrial (Fixed Aperture with Simplified Mechanics)

Regulatory Compliance

Certificate of Conformance:

[View](#)

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

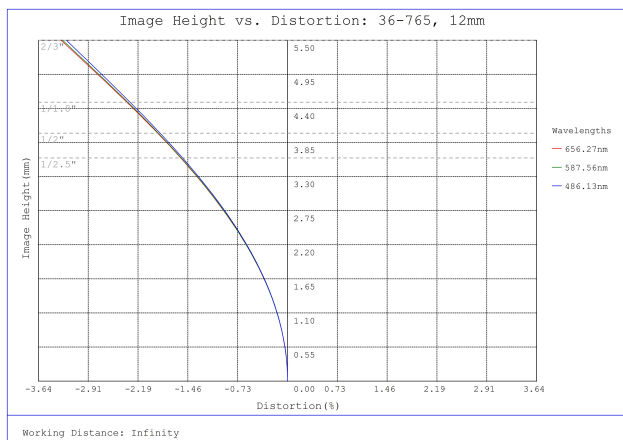
- 2/3", C-Mount Lens
- Up to 10 MegaPixels, 1.85µm Pixel Size Sensors
- Instrumentation (HRi) Versions of our HR Series Lenses with Streamlined Mechanical Designs and Fixed Apertures
- 8.5mm to 12mm Focal Length
- **Ruggedized (HRr) Designs** Also Available

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.

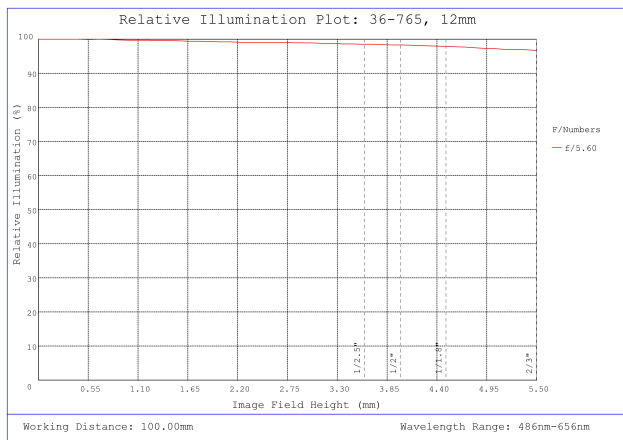
Edmund Optics has created a family of high performance optical designs (the HR Series family) and developed three customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the HR Series Lenses, providing the same optical performance in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

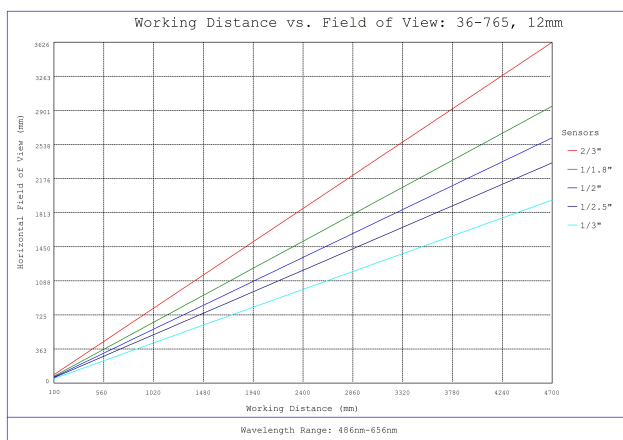
Technical Information



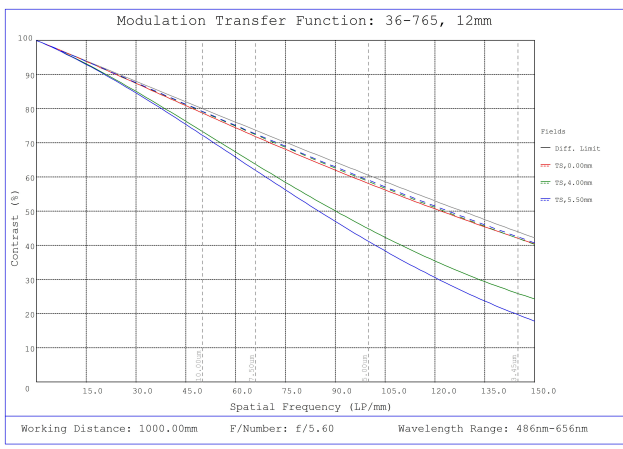
#36-765, 12mm f/5.6, 1000mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Distortion Plot



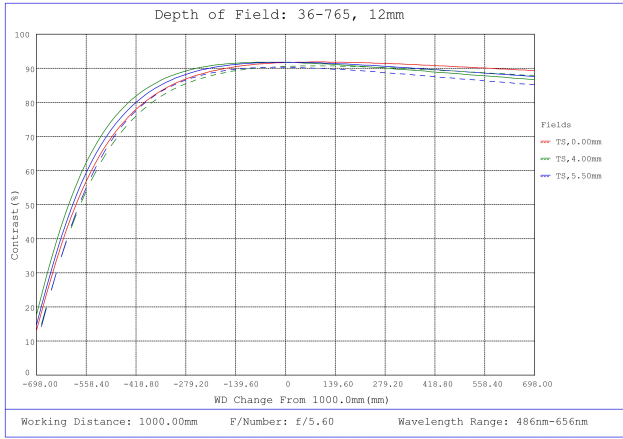
#36-765, 12mm f/5.6, 1000mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Relative Illumination Plot



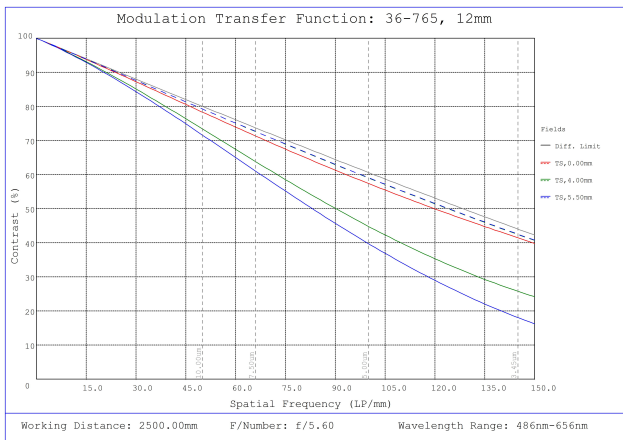
#36-765, 12mm f/5.6, 1000mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



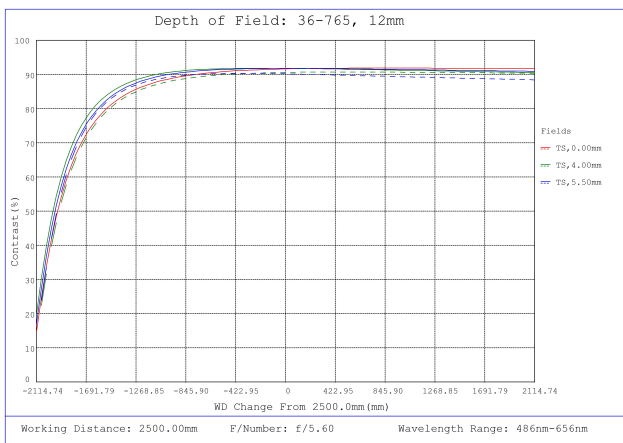
#36-765, 12mm f/5.6, 1000mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 1000mm Working Distance, f5.6



#36-765, 12mm f/5.6, 1000mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Depth of Field Plot, 1000mm Working Distance, f5.6



#36-765, 12mm f/5.6, 1000mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 2500mm Working Distance, f5.6



#36-765, 12mm f/5.6, 1000mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Depth of Field Plot, 2500mm Working Distance, f5.6

Compatible Cameras