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**TECHSPEC® 12mm f/11, 1000mm-∞ Primary WD, HRi Series Fixed Focal Length Lens**



12mm FL HPI Series Fixed Focal Length Lens



Stock #36-771 CLEARANCE **2 In Stock**

MRP ₹46,617

**Price inclusive of all taxes**

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Qty 1+	₹46,617 each
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**General**

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

**Physical & Mechanical Properties**

**Iris Option:**  
 Fixed

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

## Optical Properties

90.2mm - 42.0°	<b>Horizontal Field of View @ Max Sensor Format:</b>
Horizontal: 90.1mm - 42° Vertical: 66.8mm - 31.9° Diagonal: 114.2mm - 51.8°	<b>Field of View at Max Sensor Format:</b>
90.2mm - 42.0°	<b>Horizontal Field of View, 2/3" Sensor:</b>
73.1mm - 34.7°	<b>Horizontal Field of View, 1/1.8" Sensor:</b>
64.8mm - 30.9°	<b>Horizontal Field of View, 1/2" Sensor:</b>
58.6mm - 28.1°	<b>Horizontal Field of View, 1/2.5" Sensor:</b>
48.3mm - 23.3°	<b>Horizontal Field of View, 1/3" Sensor:</b>
36.1mm - 17.5°	<b>Horizontal Field of View, 1/4" Sensor:</b>
11.00	<b>Maximum Image Circle (mm):</b>
0.0044	<b>Numerical Aperture NA, Object Side:</b>
10 (6)	<b>Number of Elements (Groups):</b>
12.00	<b>Focal Length FL (mm):</b>
100 - ∞	<b>Working Distance (mm):</b>
f/11	<b>Aperture (f/#):</b>
425 - 675nm BBAR	<b>Coating:</b>
425 - 675nm BBAR	<b>Coating Specification:</b>
17.6	<b>Entrance Pupil Position (mm):</b>
26.32	<b>Object Space Principal Plane (mm):</b>
2.81	<b>Image Space Principal Plane (mm):</b>
-3.28	<b>Maximum Distortion (%):</b>
-31.25	<b>Exit Pupil Position (mm):</b>
1000 - ∞	<b>Optimized Working Distance (mm):</b>
VS	<b>Lens Wavelength Range:</b>

## Sensor

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

## Threading & Mounting

M30.5 x 0.50 (Female)	<b>Filter Thread:</b>
C-Mount	<b>Mount:</b>

## 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.

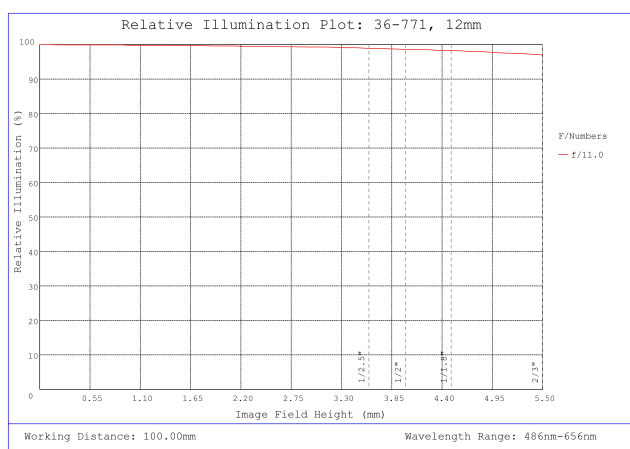
Edmund Optics has created a family of high performance optical designs (the HR Series family) and developed three customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the HR Series Lenses, providing the same optical performance in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

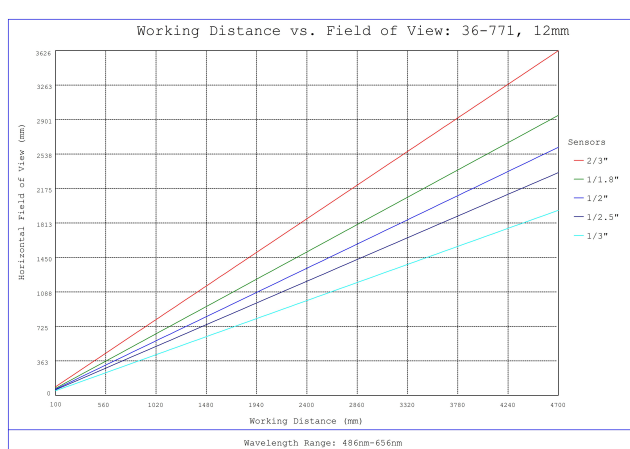
## Technical Information



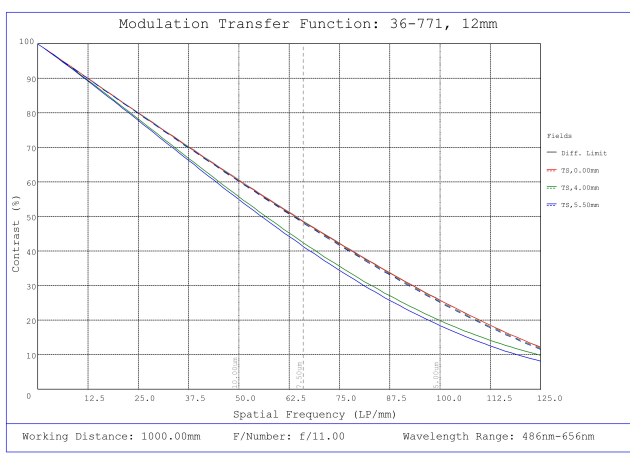
#36-771, 12mm f/11, 1000mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Distortion Plot



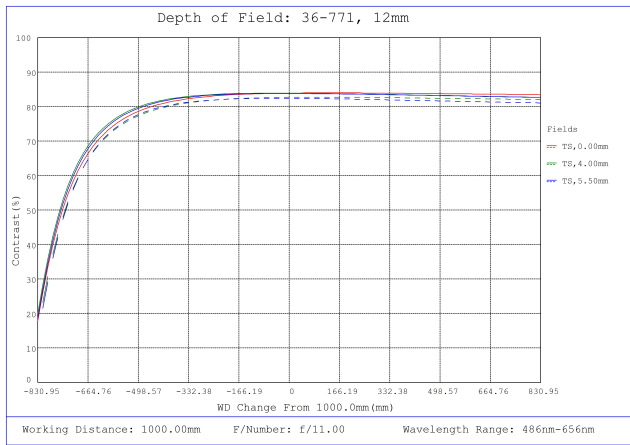
#36-771, 12mm f/11, 1000mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Relative Illumination Plot



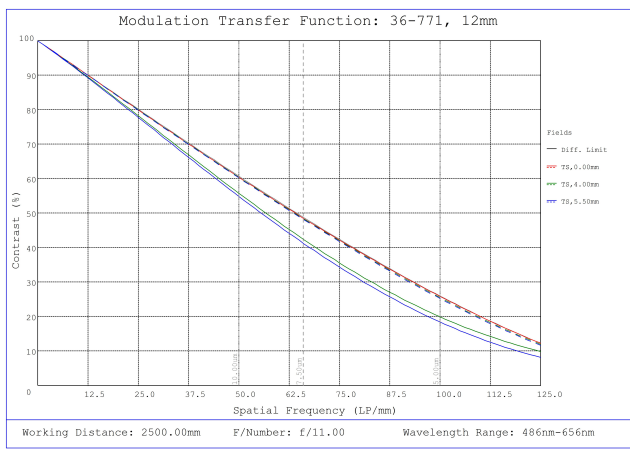
#36-771, 12mm f/11, 1000mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



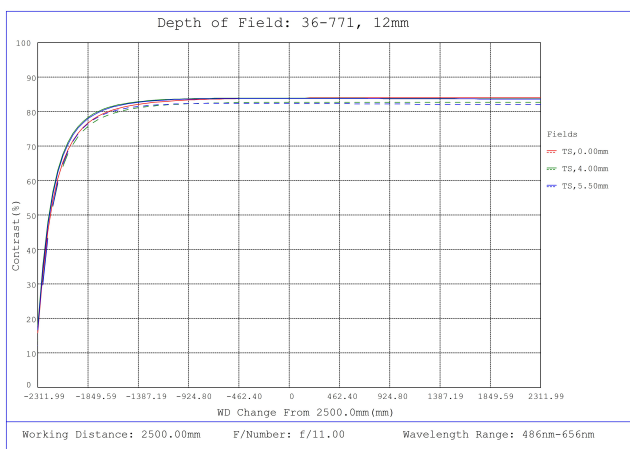
#36-771, 12mm f/11, 1000mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 1000mm Working Distance, f11



#36-771, 12mm f/11, 1000mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Depth of Field Plot, 1000mm Working Distance, f11



#36-771, 12mm f/11, 2500mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 2500mm Working Distance, f11



#36-771, 12mm f/11, 2500mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Depth of Field Plot, 2500mm Working Distance, f11

## Compatible Cameras