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TECHSPEC® 12mm f/11, 150-500mm Primary WD, HRi Series Fixed Focal Length Lens



12mm FL HPI Series Fixed Focal Length Lens



Stock #36-769 **CLEARANCE** 2 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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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

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):**

0.0046 **Numerical Aperture NA, Object Side:**

10 (6) **Number of Elements (Groups):**

12.00 **Focal Length FL (mm):**

100 - ∞ **Working Distance (mm):**

f/11 **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:**

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

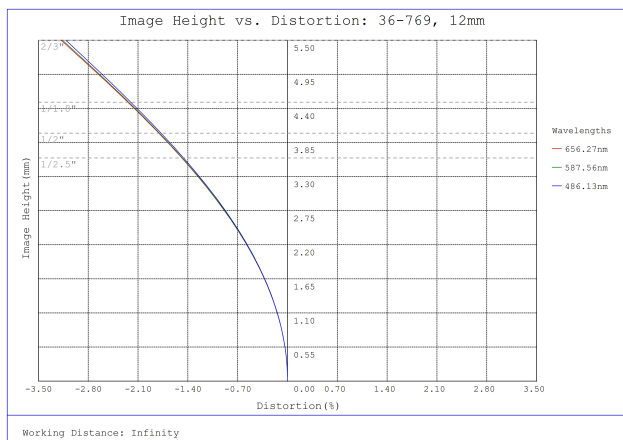
- 2/3", C-Mount Lens
- Up to 10 MegaPixels, 1.85µm Pixel Size Sensors
- Instrumentation (HRI) Versions of our HR Series Lenses with Streamlined Mechanical Designs and Fixed Apertures
- 8.5mm to 12mm Focal Length
- **Ruggedized (HRr) Designs** Also Available

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, 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.

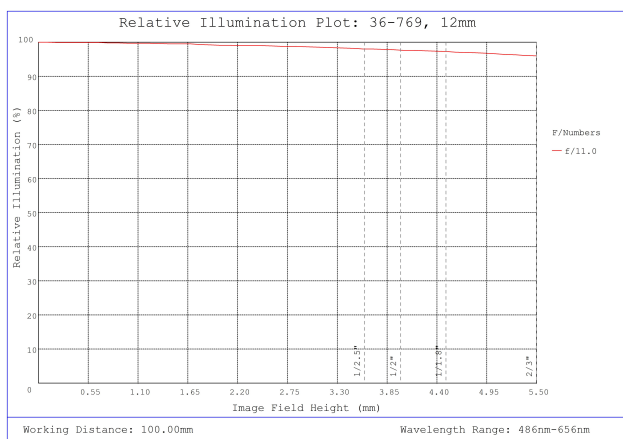
Edmund Optics has created a family of high performance optical designs (the HR Series family) and developed three customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the HR Series Lenses, providing the same optical performance in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

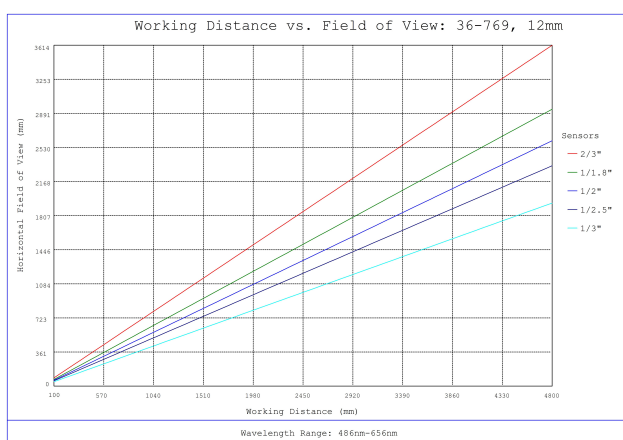
Technical Information



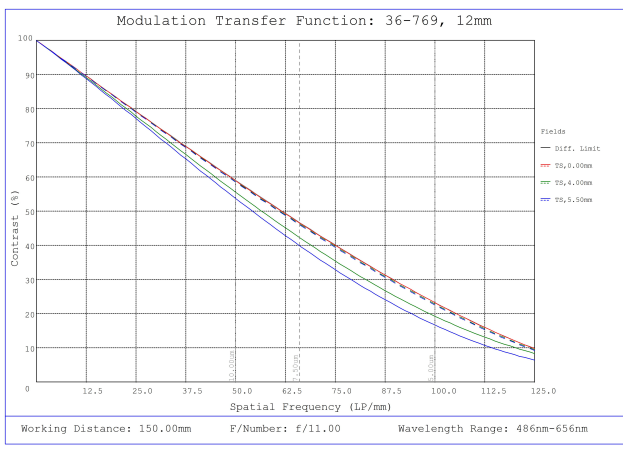
#36-769, 12mm f/11, 150-500mm Primary WD, HRI Series Fixed Focal Length Lens, Distortion Plot



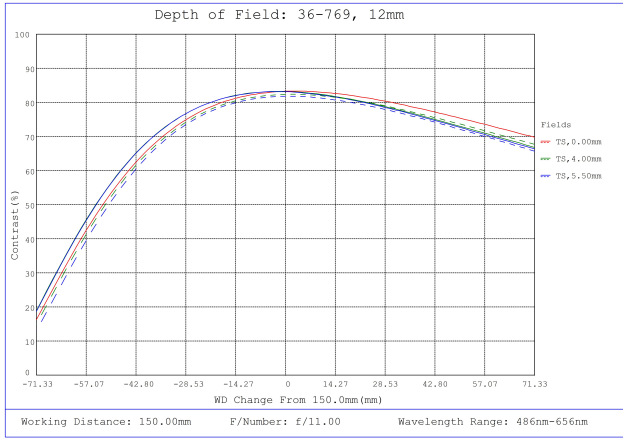
#36-769, 12mm f/11, 150-500mm Primary WD, HRI Series Fixed Focal Length Lens, Relative Illumination Plot



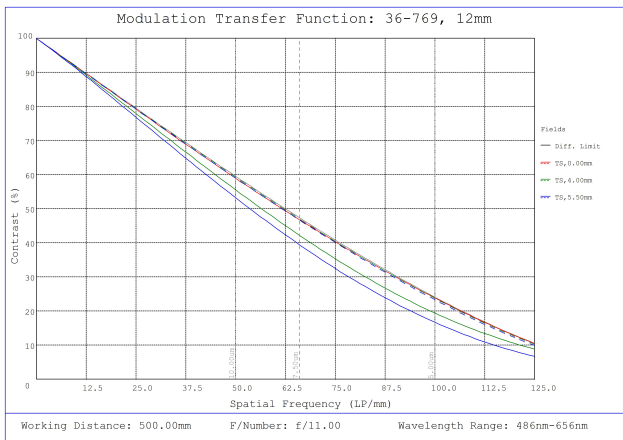
#36-769, 12mm f/11, 150-500mm Primary WD, HRI Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



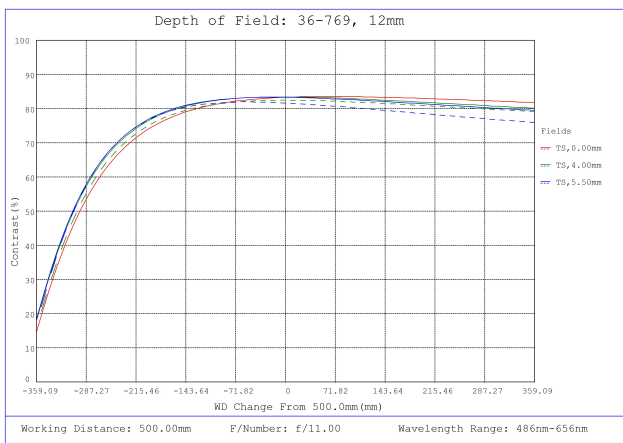
#36-769, 12mm f/11, 150-500mm Primary WD, HRi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 150mm Working Distance, f11



#36-769, 12mm f/11, 150-500mm Primary WD, HRi Series Fixed Focal Length Lens, Depth of Field Plot, 150mm Working Distance, f11



#36-769, 12mm f/11, 150-500mm Primary WD, HRi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f11



#36-769, 12mm f/11, 150-500mm Primary WD, HRi Series Fixed Focal Length Lens, Depth of Field Plot, 500mm Working Distance, f11

Compatible Cameras