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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** CLEARANCE **9 In Stock**

⊖ 1 ⊕ £500⁰⁰

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Volume Pricing	
Qty 1+	£500.00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

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

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°

11.00 **Maximum Image Circle (mm):**

0.0174 **Numerical Aperture NA, Object Side:**

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

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

100 - ∞ **Working Distance (mm):**

f/2.8 **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](#)

Product Details

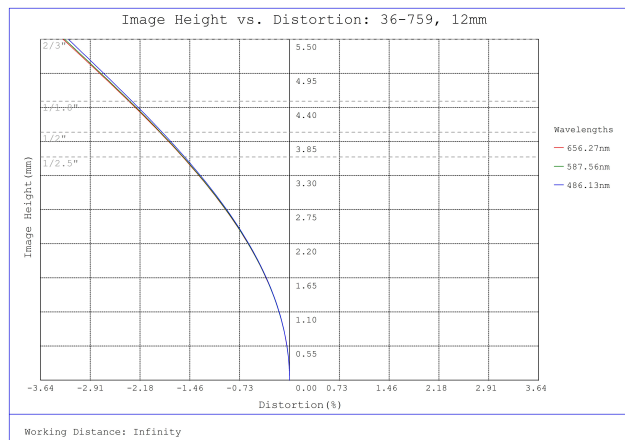
- 2/3", C-Mount Lens
- Up to 10 MegaPixels, 1.85µm Pixel Size Sensors
- Instrumentation (HRi) Versions of our HR Series Lenses with Streamlined Mechanical Designs and Fixed Apertures
- 8.5mm to 12mm Focal Length
- **Ruggedized (HRr) Designs** Also Available

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.

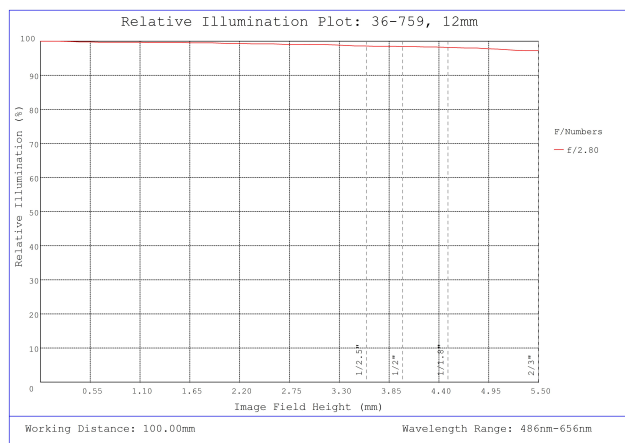
Edmund Optics has created a family of high performance optical designs (the HR Series family) and developed three customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the HR Series Lenses, providing the same optical performance in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

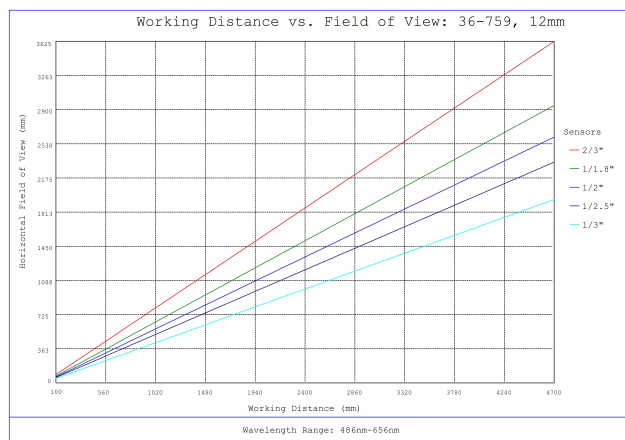
Technical Information



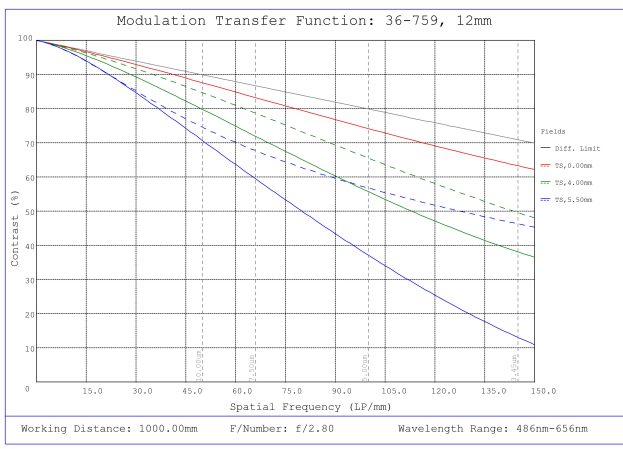
#36-759, 12mm f/2.8, 1000mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Distortion Plot



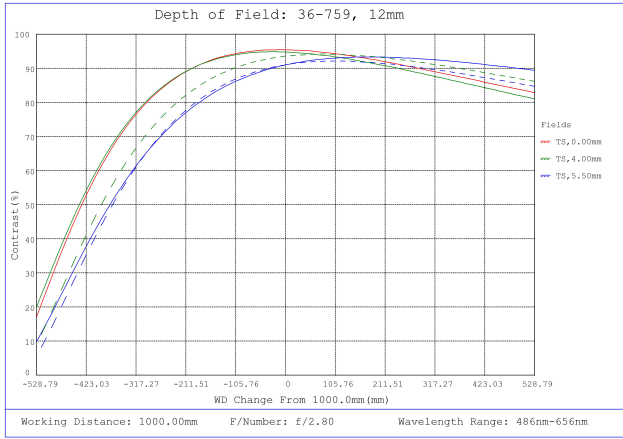
#36-759, 12mm f/2.8, 1000mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Relative Illumination Plot



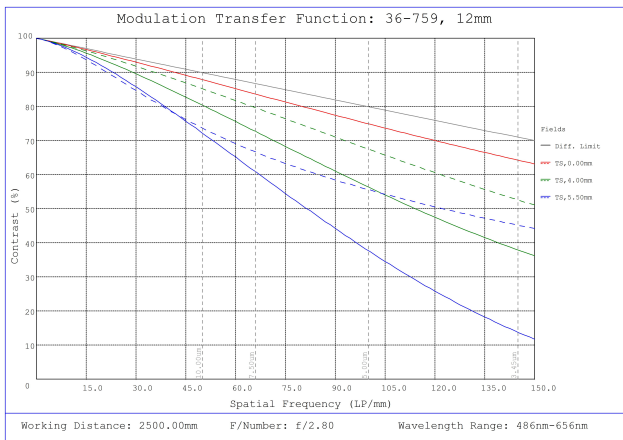
#36-759, 12mm f/2.8, 1000mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



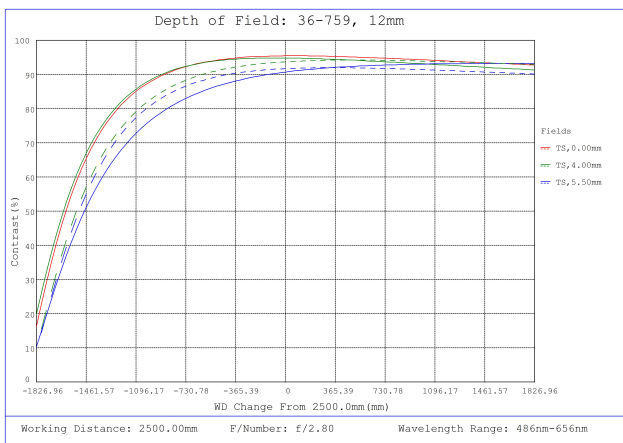
#36-759, 12mm f/2.8, 1000mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 1000mm Working Distance, f2.8



#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