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**TECHSPEC® 8.5mm f/1.4, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens**



8.5mm f/1.4, 2/3" HPI Series Fixed Focal Length Lens, #37-746



Stock **#36-746** **1 In Stock**

1 **MRP ₹62,279**

Price inclusive of all taxes

**ADD TO CART**

Volume Pricing	
Qty 1+	₹62,279 each
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**General**

HRi Series **Product Family:**

Fixed Focal Length Lens **Type:**

High Performance Lens with Fixed Apertures and Compact Form Factor **Imaging Lens Type:**

## Physical & Mechanical Properties

Fixed Iris Option:

44.57 Length (mm):

40 Maximum Diameter (mm):

40 Outer Diameter (mm):

84 Weight (g):

1.31 Maximum Rear Protrusion (mm):

## Optical Properties

Horizontal Field of View @ Max Sensor Format:  
101.4mm - 56.8°

Field of View at Max Sensor Format:  
Horizontal: 101.4mm - 56.8°  
Vertical: 74.2mm - 43.5°  
Diagonal: 130.5mm - 68.9°

Horizontal Field of View, 2/3" Sensor:  
101.4mm - 56.8°

Horizontal Field of View, 1/1.8" Sensor:  
81.5mm - 47.2°

Horizontal Field of View, 1/2" Sensor:  
71.9mm - 42.2°

Horizontal Field of View, 1/2.5" Sensor:  
64.8mm - 38.4°

Horizontal Field of View, 1/3" Sensor:  
53.2mm - 32.0°

Horizontal Field of View, 1/4" Sensor:  
39.6mm - 24.1°

11.00 Maximum Image Circle (mm):

0.032 Numerical Aperture NA, Object Side:

9 (8) Number of Elements (Groups):

8.50 Focal Length FL (mm):

75 - ∞ Working Distance (mm):

f/1.4 Aperture (f/#):

425 - 675nm BBAR Coating:

425 - 675nm BBAR Coating Specification:

18.85 Entrance Pupil Position (mm):

25.03 Object Space Principal Plane (mm):

4.70 Image Space Principal Plane (mm):

-5.6 Maximum Distortion (%):

-17.93 Exit Pupil Position (mm):

75 - ∞ Optimized Working Distance (mm):

VS Lens Wavelength Range:

## Sensor

2/3" Maximum Sensor Format:

1.85 Pixel Size (μm):

## Threading & Mounting

M58 x 0.75 (Male) Filter Thread:

**Filter Thread Adapter:**  
[#87-425 \(Required\)](#)

**Front Thread:**  
M40 x 0.5 (Male)

**Mount:**  
C-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

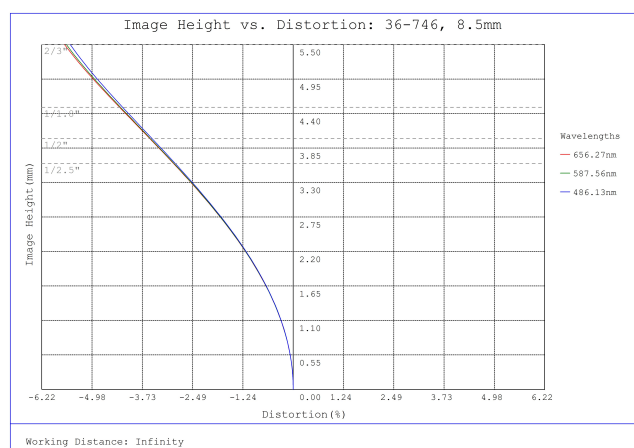
- 2/3", C-Mount Lens
- Up to 10 MegaPixels, 1.85µm Pixel Size Sensors
- Instrumentation (HRi) Versions of our HR Series Lenses with Streamlined Mechanical Designs and Fixed Apertures
- 8.5mm to 12mm Focal Length
- [Ruggedized \(HRr\) Designs](#) Also Available

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.

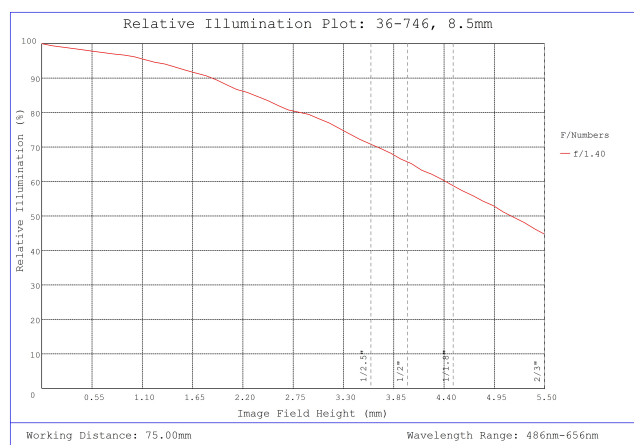
Edmund Optics has created a family of high performance optical designs (the HR Series family) and developed three customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the HR Series Lenses, providing the same optical performance in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

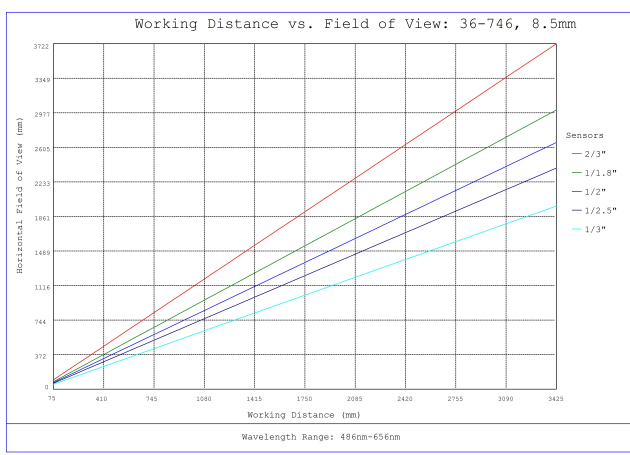
## Technical Information



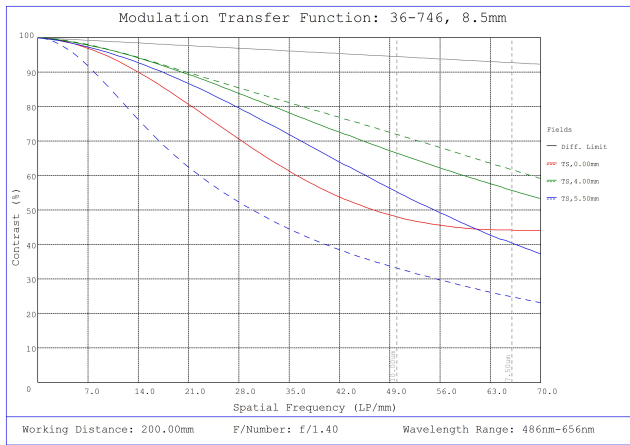
#36-746, 8.5mm f/1.4, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Distortion Plot



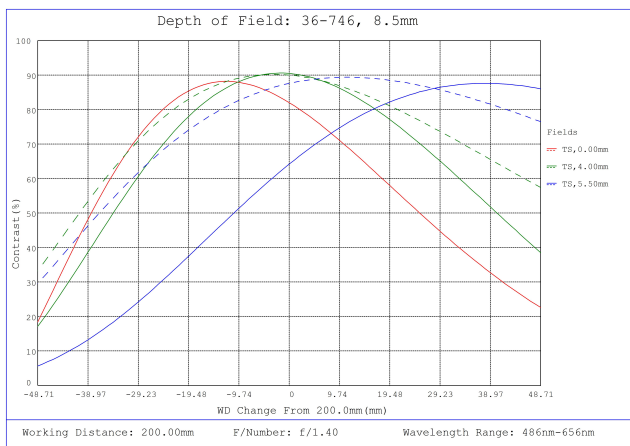
#36-746, 8.5mm f/1.4, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Relative Illumination Plot



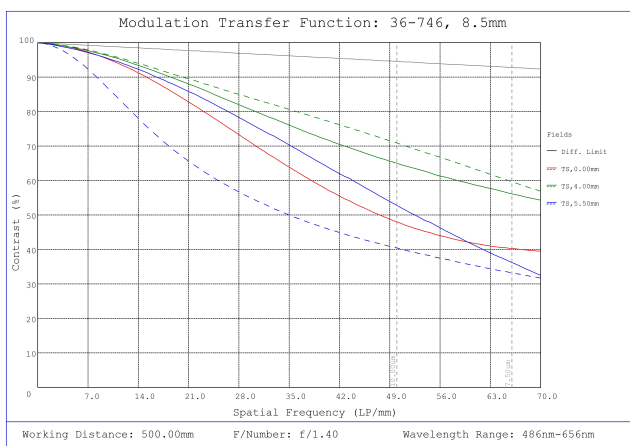
#36-746, 8.5mm f/1.4, 75mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



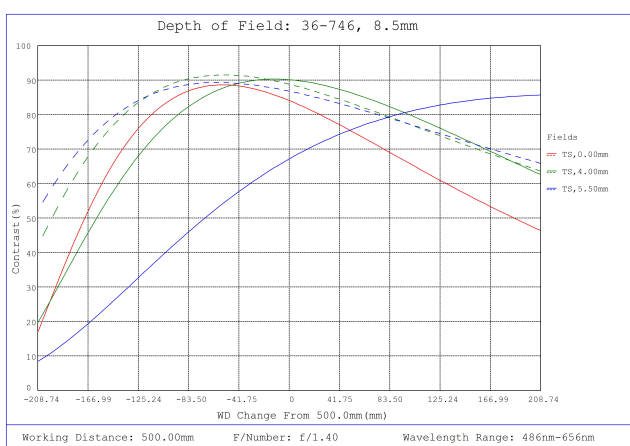
#36-746, 8.5mm f/1.4, 75mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 200mm Working Distance, f1.4



#36-746, 8.5mm f/1.4, 75mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Depth of Field Plot, 200mm Working Distance, f1.4



#36-746, 8.5mm f/1.4, 75mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f1.4



#36-746, 8.5mm f/1.4, 75mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Depth of Field Plot, 500mm Working Distance, f1.4

## Compatible Cameras