

TECHSPEC[®] 8.5mm f/5.6, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens



8.5mm f/5.6, 2/3" HPi Series Fixed Focal Length Lens, #36-751



Stock **#36-751** 4 In Stock

-

1

+

A\$1,000^{.00}

ADD TO CART

Volume Pricing	
Qty 1+	A\$1,000.00 each
Need More?	Request Quote

Product Downloads

General	
HRi Series	Series:
Fixed Focal Length 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: 130.4mm - 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°	
Maximum Image Circle (mm): 11.00	
Numerical Aperture NA, Object Side: 0.008	
Number of Elements (Groups): 9 (8)	
Focal Length FL (mm): 8.50	
Working Distance (mm): 75 - ∞	
Aperture (f/#): f/5.6	
Coating: 425 - 675nm BBAR	
Coating Specification: 425 - 675nm BBAR	
Entrance Pupil Position (mm): 18.85	
Object Space Principal Plane (mm): 25.03	
Image Space Principal Plane (mm): 4.70	
Maximum Distortion (%): -5.6	
Exit Pupil Position (mm): -17.93	
Optimized Working Distance (mm): 75 - ∞	

VS	Lens Wavelength Range:
----	------------------------

Sensor

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

Threading & Mounting

M58 x0.75 (Male)	Filter Thread:
#87-425 (Required)	Filter Thread Adapter:
M40 x0.5 (Male)	Front Thread:

C-Mount

Mount:

Environmental & Durability Factors

-20 to +60

Storage Temperature (°C):

Industrial (Fixed Aperture with Simplified Mechanics)

Type of Ruggedization:

Regulatory Compliance

View

Certificate of Conformance:

Product Details

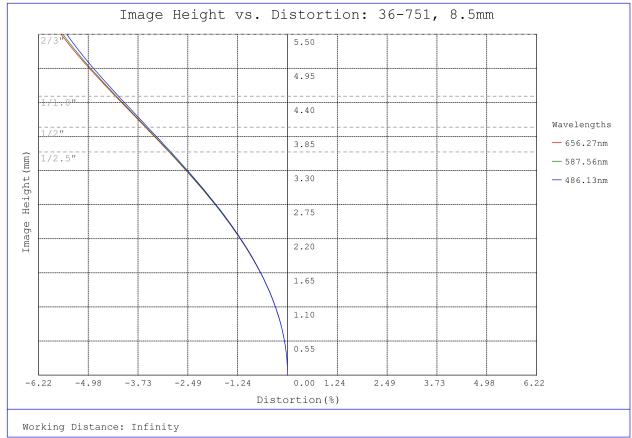
- 2/3", C-Mount Lens
- Up to 10 MegaPixels, 1.85µm Pixel Size Sensors
- Instrumentation (HRi) Versions of our HR Series Lenses with Streamlined Mechanical Designs and Fixed Apertures
- 8.5mm to 12mm Focal Length
- **Ruggedized (HRr) Designs** Also Available

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.

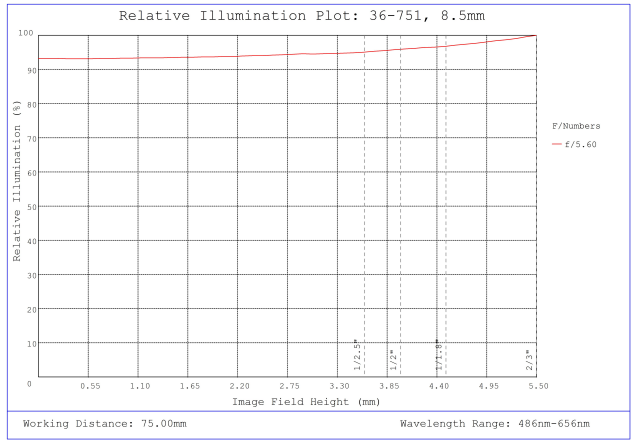
Edmund Optics has created a family of high performance optical designs (the HR Series family) and developed three customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the HR Series Lenses, providing the same optical performance in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

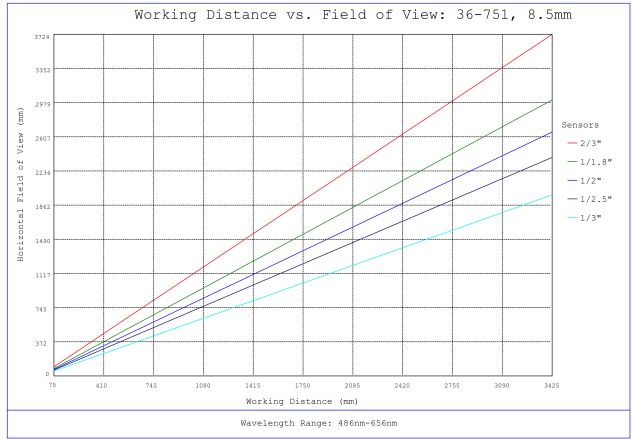
Technical Information



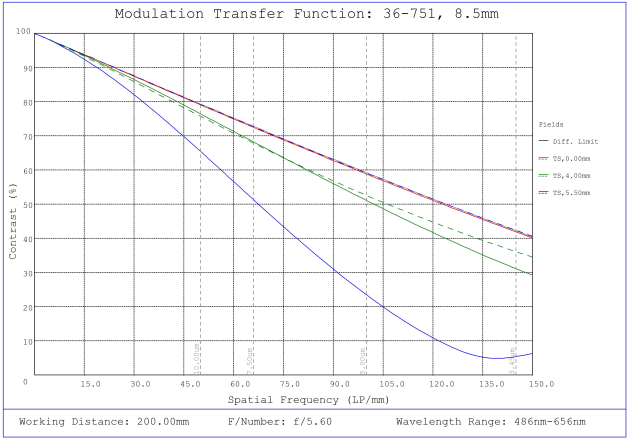
#36-751, 8.5mm f/5.6, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Distortion Plot



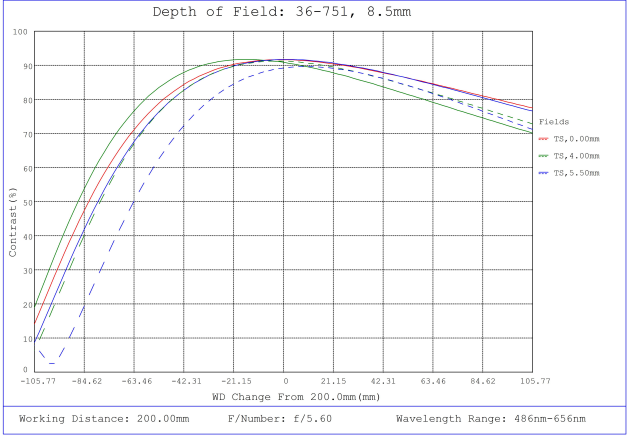
#36-751, 8.5mm f/5.6, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Relative Illumination Plot



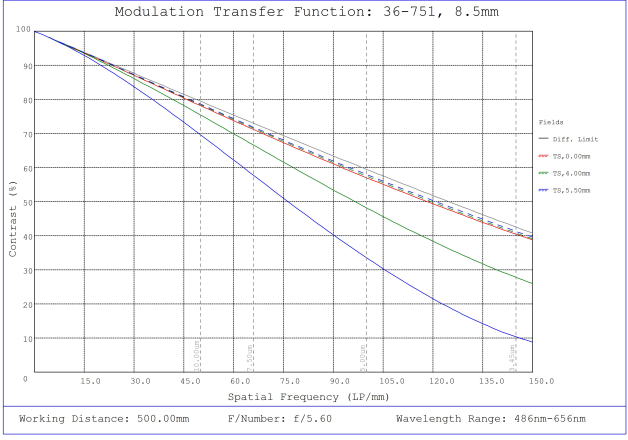
#36-751, 8.5mm f/5.6, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



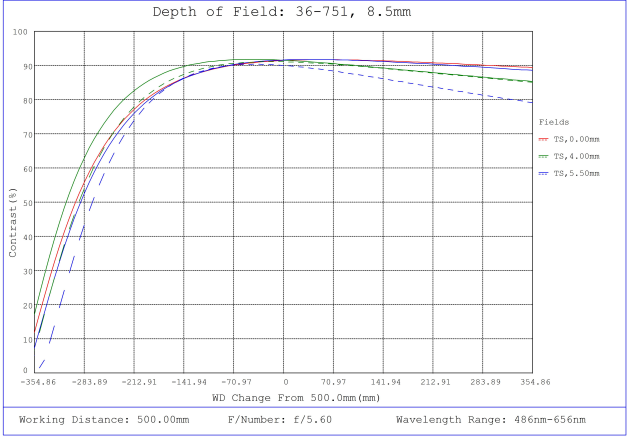
#36-751, 8.5mm f/5.6, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 200mm Working Distance, f5.6



#36-751, 8.5mm f/5.6, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Depth of Field Plot, 200mm Working Distance, f5.6



#36-751, 8.5mm f/5.6, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f5.6



#36-751, 8.5mm f/5.6, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Depth of Field Plot, 500mm Working Distance, f5.6

Compatible Cameras