

TECHSPEC®

8.5mm f/16, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens



8.5mm f/16, 2/3" HPI Series Fixed Focal Length Lens



Stock **#36-754** **2 In Stock**

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1

+

£620^{.50}

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Volume Pricing	
Qty 1+	£620.50 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

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°	
11.00	Maximum Image Circle (mm):
0.0028	Numerical Aperture NA, Object Side:
9 (8)	Number of Elements (Groups):
8.50	Focal Length FL (mm):
75 - ∞	Working Distance (mm):
f/16	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	
Filter Thread:	

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

M40 x0.5 (Male)	Front Thread:
C-Mbunt	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:
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PRODUCT DETAILS

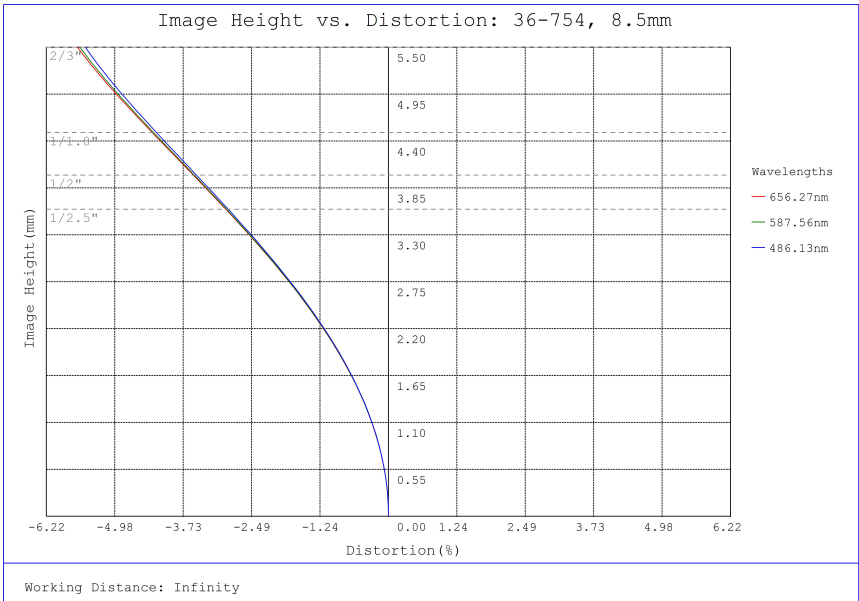
- 2/3", C-Mount Lens
- Up to 10 MegaPixels, 1.85µm Pixel Size Sensors
- Instrumentation (HRi) Versions of our HR Series Lenses with Streamlined Mechanical Designs and Fixed Apertures
- 8.5mm to 12mm Focal Length
- Ruggedized (HRr) Designs Also Available

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.

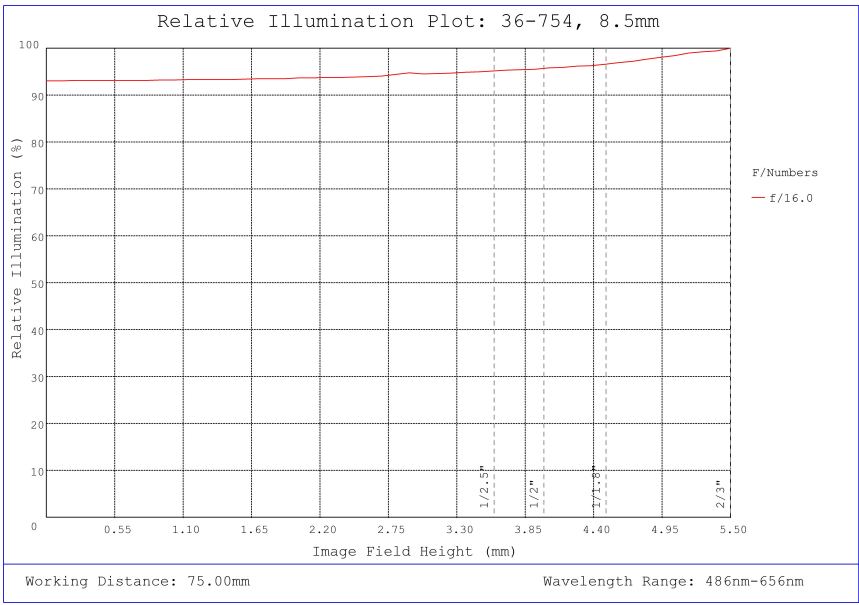
Edmund Optics has created a family of high performance optical designs (the HR Series family) and developed three customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the HR Series Lenses, providing the same optical performance in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

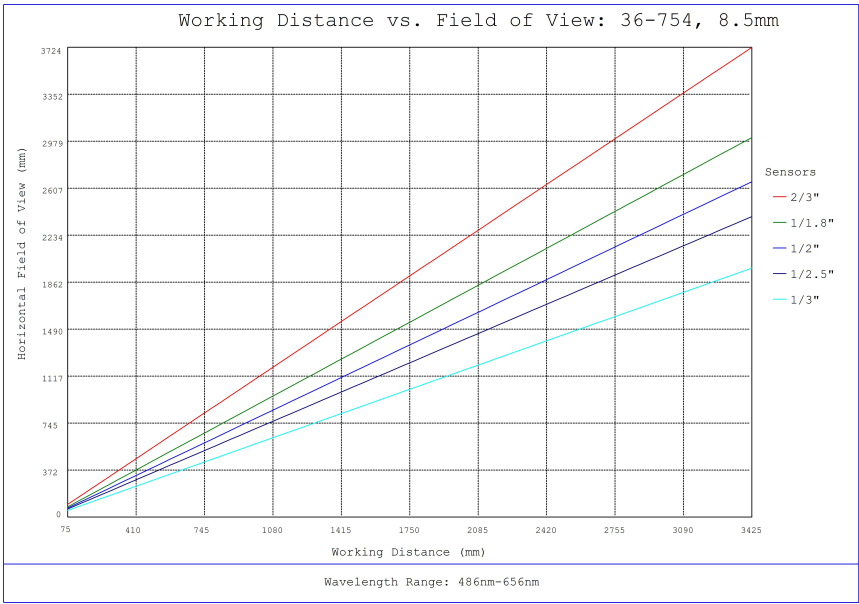
TECHNICAL INFORMATION



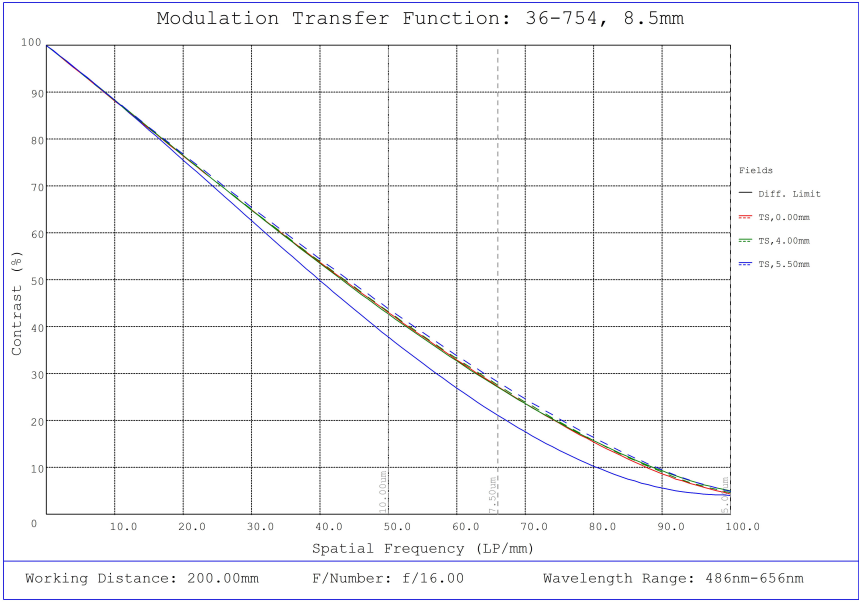
#36-754, 8.5mm f/16, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Distortion Plot



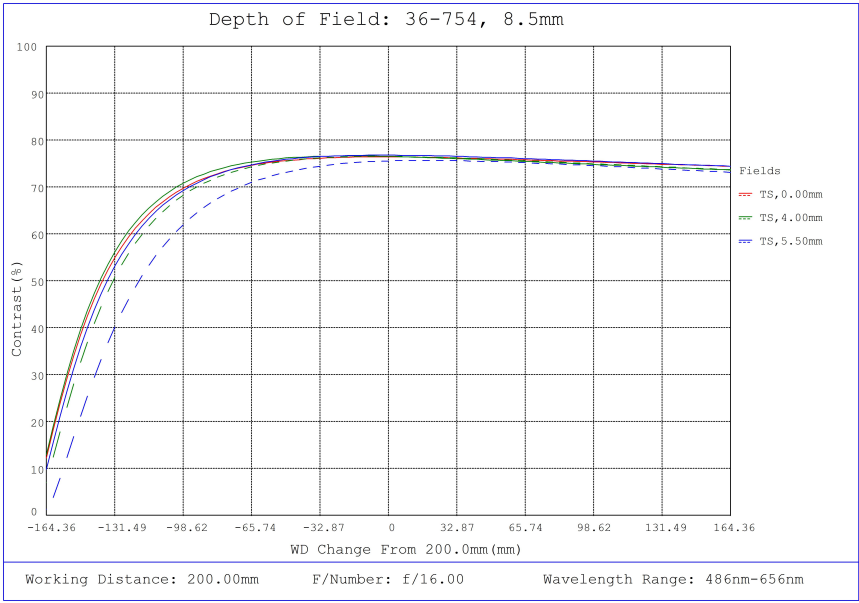
#36-754, 8.5mm f/16, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Relative Illumination Plot



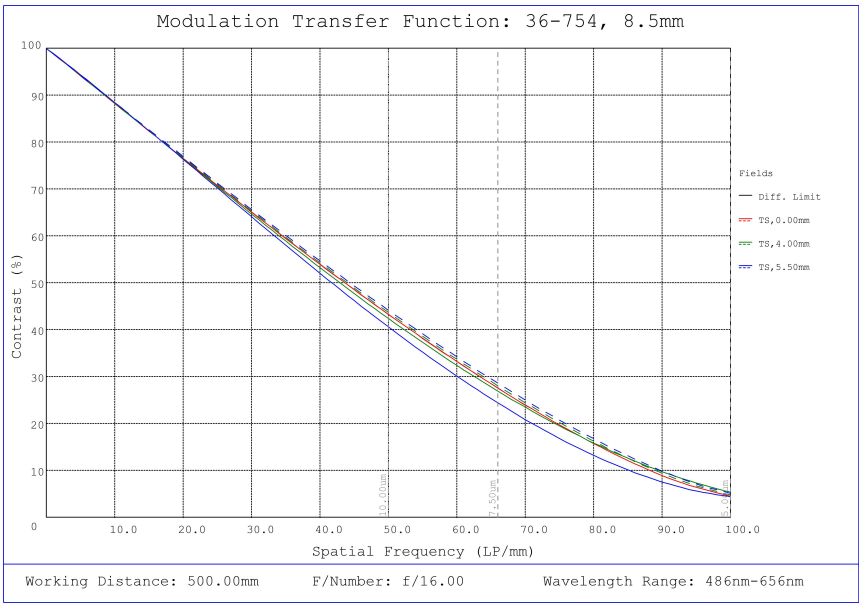
#36-754, 8.5mm f/16, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



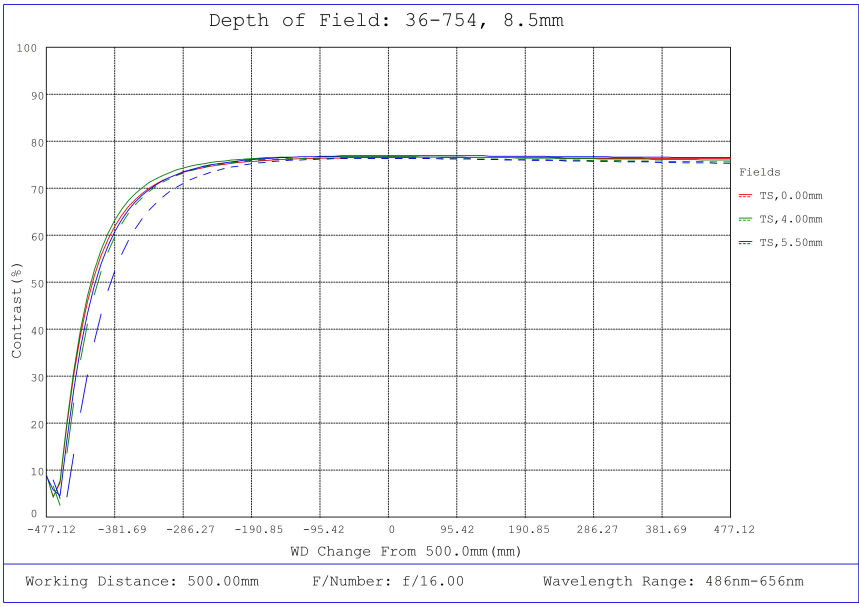
#36-754, 8.5mm f/16, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 200mm Working Distance, f16



#36-754, 8.5mm f/16, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Depth of Field Plot, 200mm Working Distance, f16



#36-754, 8.5mm f/16, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 500mm Working Distance, f16



#36-754, 8.5mm f/16, 75mm-∞ Primary WD, HRi Series Fixed Focal Length Lens, Depth of Field Plot, 500mm Working Distance, f16

COMPATIBLE CAMERAS