

TECHSPEC[®] 12mm f/5.6, 1000mm-∞ Primary WD, HRi Series Fixed Focal Length Lens



12mm FL HPi Series Fixed Focal Length Lens



Stock **#36-765** 3 In Stock

-

1

+

S\$821⁰⁰

ADD TO CART

Volume Pricing	
Qty 1+	S\$821.00 each
Need More?	Request Quote

Product Downloads

General	
HRi Series	Series:
Fixed Focal Length Lens	Type:
Physical & Mechanical Properties	
Fixed	Iris Option:

39.20	Length (mm):
33	Maximum Diameter (mm):
33	Outer Diameter (mm):
57	Weight (g):
1.63	Maximum Rear Protrusion (mm):

Optical Properties

90.2mm - 42.0°	Horizontal Field of View @ Max Sensor Format:
Horizontal: 90.1mm - 42° Vertical: 66.8mm - 31.9° Diagonal: 114.2mm - 51.8°	Field of View at Max Sensor Format:
90.2mm - 42.0°	Horizontal Field of View, 2/3" Sensor:
73.1mm - 34.7°	Horizontal Field of View, 1/1.8" Sensor:
64.8mm - 30.9°	Horizontal Field of View, 1/2" Sensor:
58.6mm - 28.1°	Horizontal Field of View, 1/2.5" Sensor:
48.3mm - 23.3°	Horizontal Field of View, 1/3" Sensor:
36.1mm - 17.5°	Horizontal Field of View, 1/4" Sensor:
11.00	Maximum Image Circle (mm):
0.0087	Numerical Aperture NA, Object Side:
10 (6)	Number of Elements (Groups):
12.00	Focal Length FL (mm):
100 - ∞	Working Distance (mm):
f/5.6	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 x0.50 (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

[View](#)

Certificate of Conformance:

Product Details

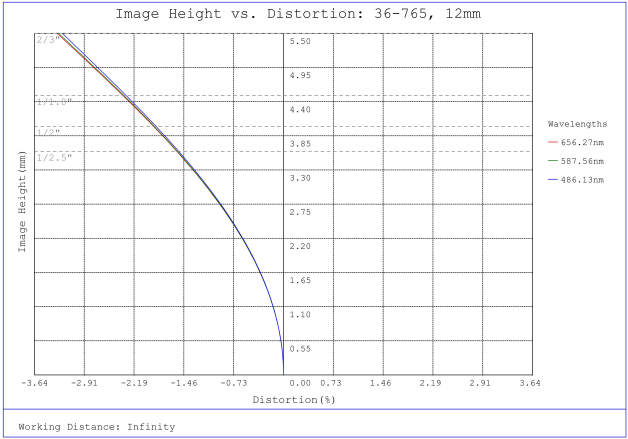
- 2/3", C-Mount Lens
- Up to 10 MegaPixels, 1.85µm Pixel Size Sensors
- Instrumentation (HRI) Versions of our HR Series Lenses with Streamlined Mechanical Designs and Fixed Apertures
- 8.5mm to 12mm Focal Length
- [Ruggedized \(HRr\) Designs](#) Also Available

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.

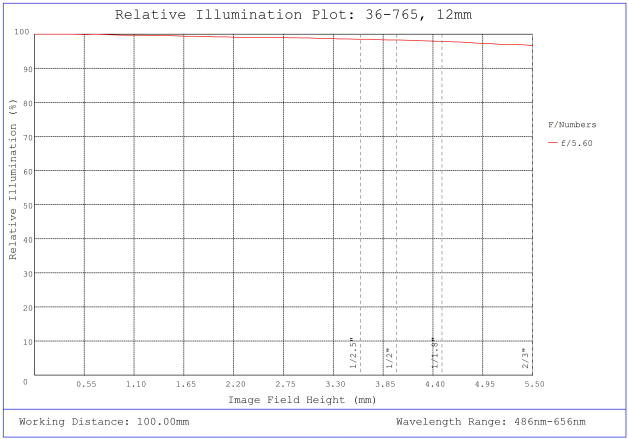
Edmund Optics has created a family of high performance optical designs (the HR Series family) and developed three customized optomechanical solutions targeted for specific applications. These lens sub-families utilize the same optics as the HR Series Lenses, providing the same optical performance in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

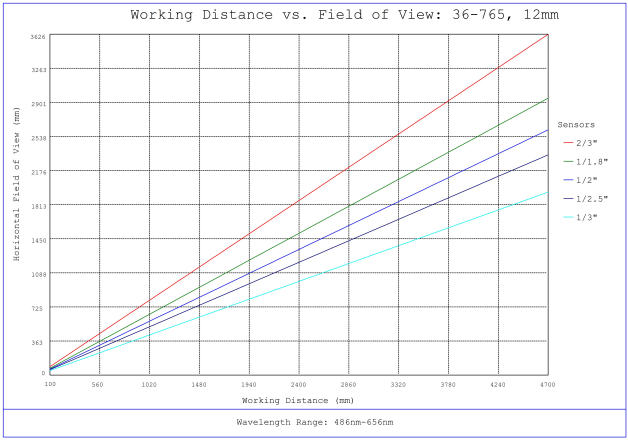
Technical Information



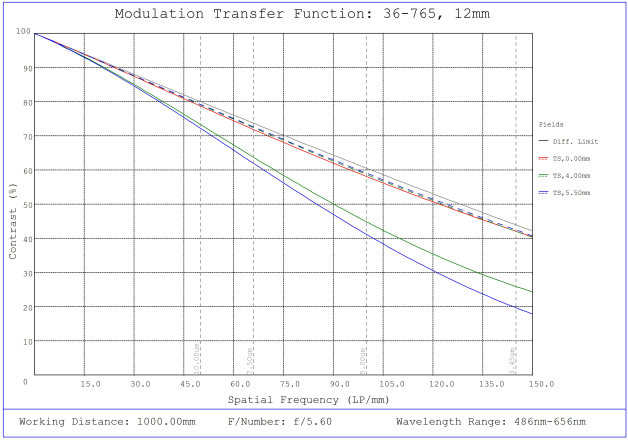
#36-765, 12mm f/5.6, 1000mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Distortion Plot



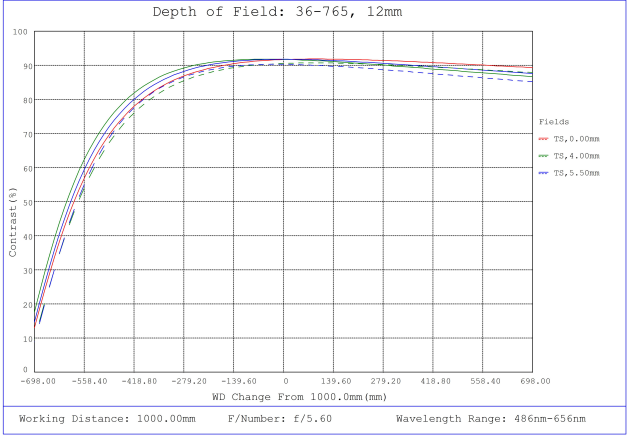
#36-765, 12mm f/5.6, 1000mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Relative Illumination Plot



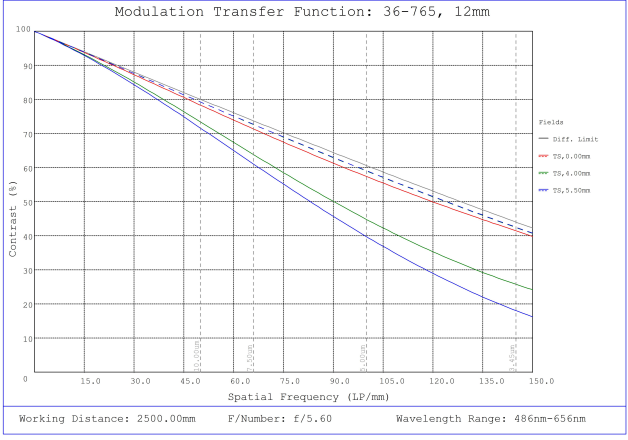
#36-765, 12mm f/5.6, 1000mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Working Distance versus Field of View Plot



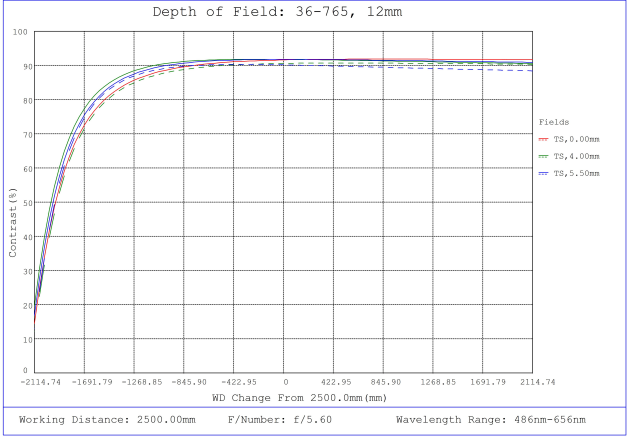
#36-765, 12mm f/5.6, 1000mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 1000mm Working Distance, f5.6



#36-765, 12mm f/5.6, 1000mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Depth of Field Plot, 1000mm Working Distance, f5.6



#36-765, 12mm f/5.6, 1000mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Modulated Transfer Function (MTF) Plot, 2500mm Working Distance, f5.6



#36-765, 12mm f/5.6, 1000mm-∞ Primary WD, HRI Series Fixed Focal Length Lens, Depth of Field Plot, 2500mm Working Distance, f5.6

Compatible Cameras