

TECHSPEC[®] f/1.9, 8mm Focal Length Green Series M12 Lens



8mm Focal Length, #54-853

Stock **#54-853 20+ In Stock**

-

1

+

A\$126⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-49	A\$126.00 each
Qty 50+	A\$100.00 each
Need More?	Request Quote

Product Downloads

SPECIFICATIONS

General

Green Series

Series:

M12 Imaging Lens

Type:

No	IR Cut Filter:
Standard Lens	Imaging Lens Type:
Physical & Mechanical Properties	
Fixed	Iris Option:
20.40	Length (mm):
14	Maximum Diameter (mm):
14	Outer Diameter (mm):
5	Weight (g):
Optical Properties	
Horizontal Field of View @ Max Sensor Format: 95.7mm - 34.4°	
Field of View at Max Sensor Format: Horizontal: 95.7mm - 34.4° Vertical: 70.8mm - 25.8° Diagonal: 121.8mm - 43°	
Horizontal Field of View, 1/3" Sensor: 95.7mm - 34.4°	
Horizontal Field of View, 1/4" Sensor: 70.8mm - 25.8°	
108 lp/mm @ 20% Contrast	Resolution:
11.00	Maximum Image Circle (mm):
0.0134	Numerical Aperture NA, Object Side:
5(5)	Number of Elements (Groups):
400 - 700	Wavelength Range (nm):
8.00	Focal Length FL (mm):
150 - ∞	Working Distance (mm):
f/1.9	Aperture (f/#):
-5.035 @ Full Field	Distortion (%):
8.9 - 8.7	Back Focal Length BFL (mm):
N/4 MgF ₂ @ 580nm	Coating Specification:
68.00	Entrance Pupil Position (mm):
10.70	Object Space Principal Plane (mm):
1.83	Image Space Principal Plane (mm):
-5.035	Maximum Distortion (%):
-9.47	Exit Pupil Position (mm):
VS	Lens Wavelength Range:
Sensor	
1/3"	Maximum Sensor Format:
8.30	Pixel Size (μm):
Threading & Mounting	
N/A	Filter Thread:
M12 x0.5	Mounting Threads:
	Mount:

S-Mount (M12 x0.5)	
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	REACH 241:

PRODUCT DETAILS

Optimized Working Distance: 150 - 250mm

- Up to 1/2", S-Mount Lens
- Up to 0.4 MegaPixels, 8.3µm Pixel Size Sensors
- Board Camera Lens Optimized for Close WD and Finite Conjugate
- 6mm to 25mm Focal Lengths

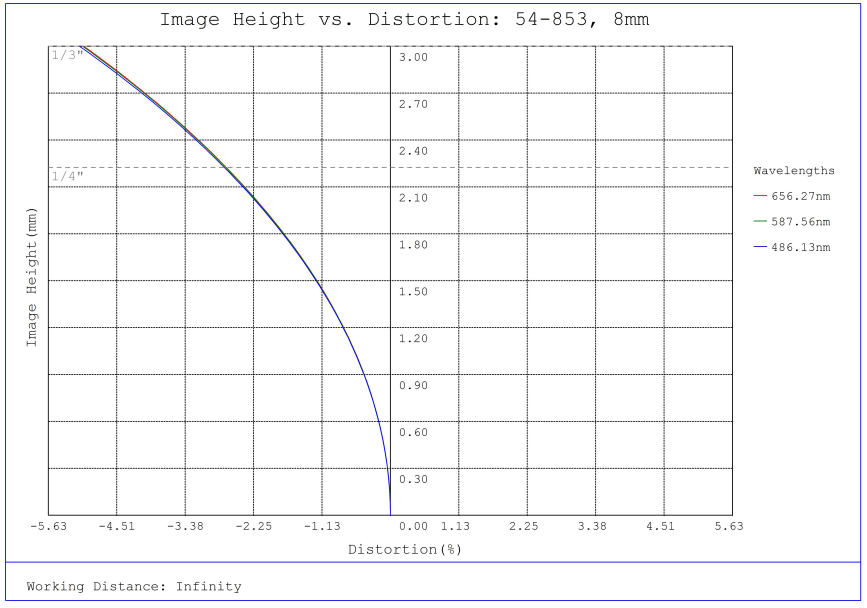
TECHSPEC® Green Series M12 Lenses designed for use in compact and board level cameras provide excellent image quality in a small, versatile package. Optimized to cover 1/3" and ½" sensor formats and weighing only a few grams, these machine vision lenses meet the most demanding space and weight restrictions. Each lens is threaded for M12 x0.5, except the 25.0mm focal length option ([#54-855](#)). TECHSPEC® Green Series M12 Lenses are ideal for wide angle and close focus applications, large area inspect for the automotive, forensic, pharmaceutical, and food industries. Prescription data is available by submitting a [Request for Prescription Form](#).

Note: Compatible [TECHSPEC M12 Imaging Lens Accessories](#) available.

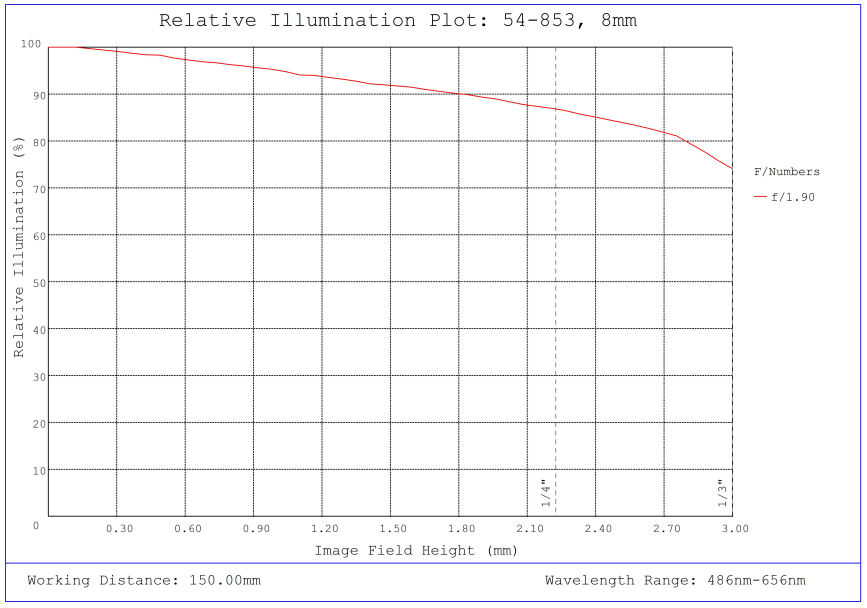
Edmund Optics has created multiple product families of our TECHSPEC® M12 S-Mount Lenses, which are designed to provide high resolution. These high performance lenses feature precision glass designs in a metal housing and have optimized specifications between each product family to meet your application needs.

- [Blue Series M12 Lenses](#): High resolution finite conjugate designs optimized for machine vision working distances.
- [Rugged Blue Series M12 Lenses](#): [Stabilized ruggedization](#) versions of our Blue Series M12 Lenses, utilizing the same optics.
- Green Series M12 Lenses: Finite conjugate designs optimized for machine vision working distances.
- [Red Series M12 Lenses](#): Infinite conjugate designs optimized for high resolution performance out to infinity.
- [HEO Series M12 Lenses](#): Harsh Environment Optics (HEO) sealed versions of our Red Series M12 Lenses.
- [Liquid Lens M12 Lenses](#): Integrated liquid lens for fast electronic focus.

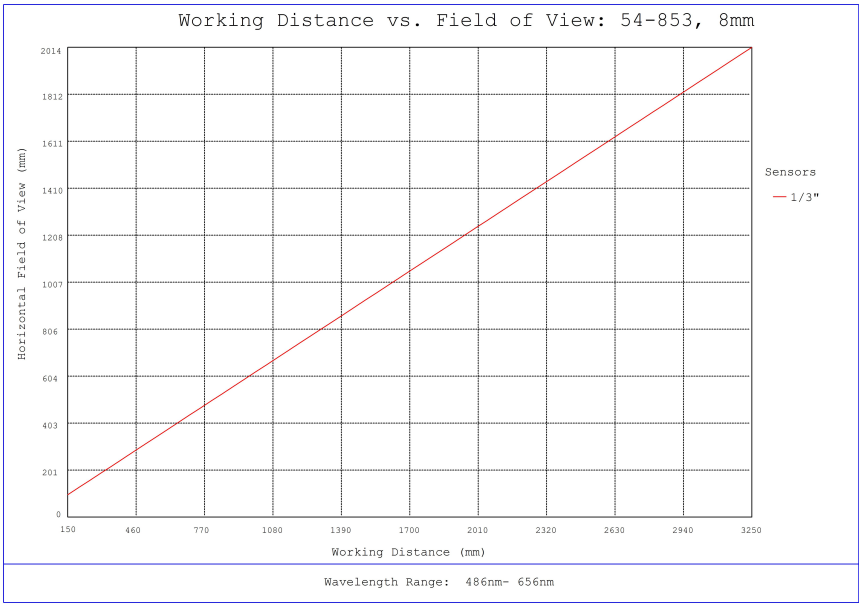
TECHNICAL INFORMATION



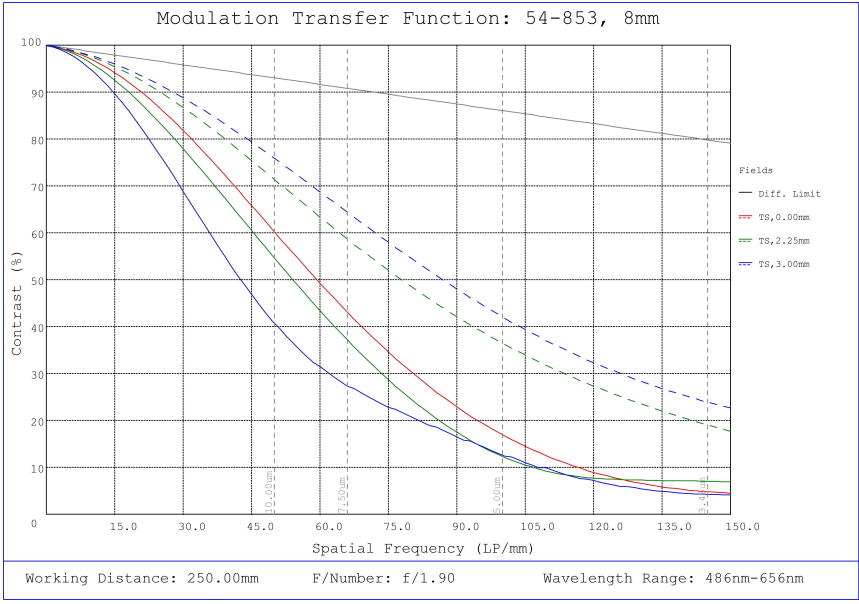
#54-853, f/1.9, 8mm Focal Length Green Series M12 Lens, Distortion Plot



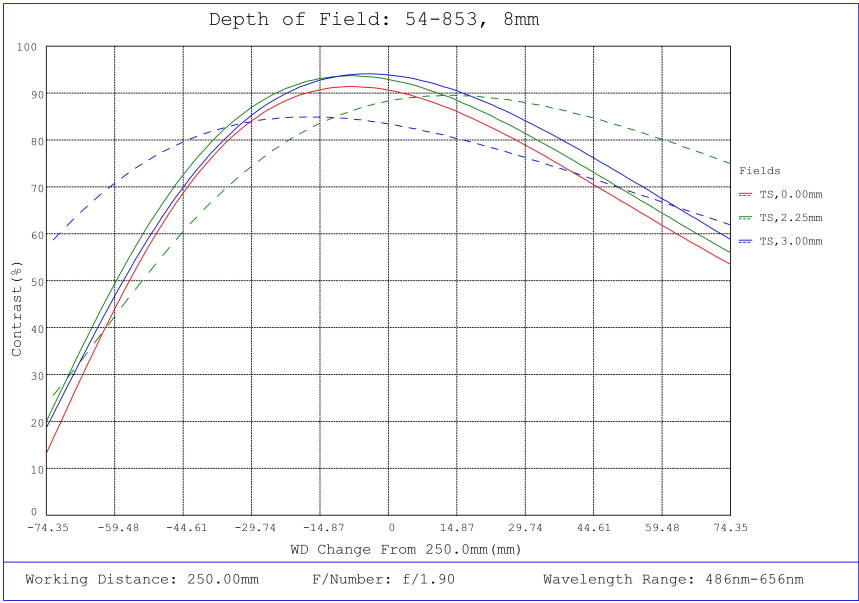
#54-853, f/1.9, 8mm Focal Length Green Series M12 Lens, Relative Illumination Plot



#54-853, f/1.9, 8mm Focal Length Green Series M12 Lens, Working Distance versus Field of View Plot

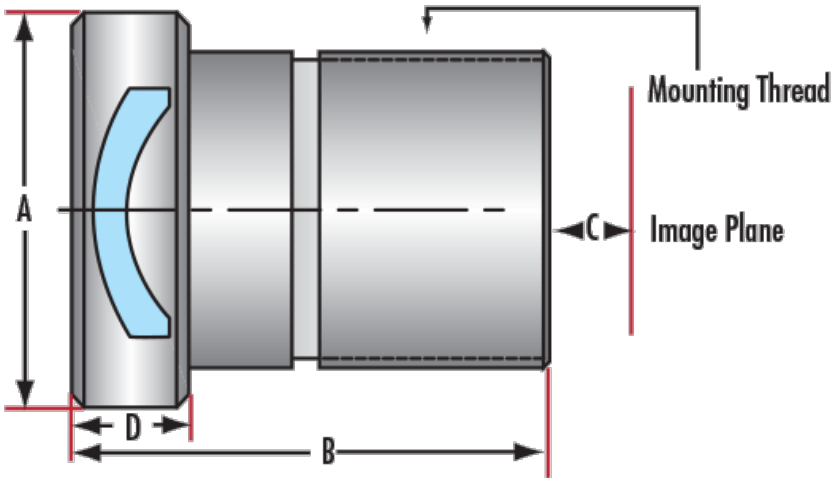


#54-853, f/1.9, 8mm Focal Length Green Series M12 Lens, Modulated Transfer Function (MTF) Plot, 250mm Working Distance, f1.9



#54-853, f/1.9, 8mm Focal Length Green Series M12 Lens, Depth of Field Plot, 250mm Working Distance, f1.9

Focal Length	A	B	C*	D	Mounting Thread
6.00	14.0	11.70	4.0 - 3.9	3.5	M12 x0.5
8.00	14.0	20.40	8.9 - 8.7	6.0	M12 x0.5
12.00	16.0	19.50	7.1 - 6.75	6.0	M12 x0.5
25.00	18.0	24.40	12.6 - 11.9	9.0	M16 x0.5



**Minor adjustment required to match WD limits.
