

TECHSPEC® f/2.1, 25mm Focal Length Green Series M16 Lens



25mm Focal Length, #54-855

Stock **#54-855** 20+ In Stock

-

1

+

S\$114⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-49	S\$114.00 each
Qty 50+	S\$91.00 each
Need More?	Request Quote

Product Downloads

General	
Green Series	Series:
M12 Imaging Lens	Type:
No	IR Cut Filter:
Standard Lens	Imaging Lens Type:

Physical & Mechanical Properties	
Fixed	Iris Option:
24.20	Length (mm):
18	Maximum Diameter (mm):
18	Outer Diameter (mm):
13	Weight (g):
Optical Properties	
Horizontal Field of View @ Max Sensor Format: 34.8mm - 14.7°	
Field of View at Max Sensor Format: Horizontal: 34.9mm - 14.7° Vertical: 26mm - 11° Diagonal: 43.9mm - 18.5°	
Horizontal Field of View, 1/2" Sensor: 34.8mm - 14.7°	
Horizontal Field of View, 1/2.5" Sensor: 31.5mm - 13.3°	
Horizontal Field of View, 1/3" Sensor: 26.0mm - 11.0°	
Horizontal Field of View, 1/4" Sensor: 19.4mm - 8.2°	
115 lp/mm @20% Contrast	Resolution:
8.00	Maximum Image Circle (mm):
0.0429	Numerical Aperture NA, Object Side:
4(4)	Number of Elements (Groups):
400 - 700	Wavelength Range (nm):
25.00	Focal Length FL (mm):
150 - ∞	Working Distance (mm):
f/2.1	Aperture (f/#):
-1.69 @ Full Field	Distortion (%):
12.6 - 11.9	Back Focal Length BFL (mm):
λ/4 MgF ₂ @ 580nm	Coating Specification:
4.43	Entrance Pupil Position (mm):
8.73	Object Space Principal Plane (mm):
-12.83	Image Space Principal Plane (mm):
-1.69	Maximum Distortion (%):
-18.02	Exit Pupil Position (mm):
VIS	Lens Wavelength Range:
Sensor	
1/2"	Maximum Sensor Format:
8.30	Pixel Size (μm):
Threading & Mounting	
N/A	Filter Thread:
M16 x0.5	Mounting Threads:
	Mount:

M16 x0.5

Regulatory Compliance

Compliant

RoHS 2015:

View

Certificate of Conformance:

Compliant

REACH 241:

Product Details

- 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 1/2" 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.

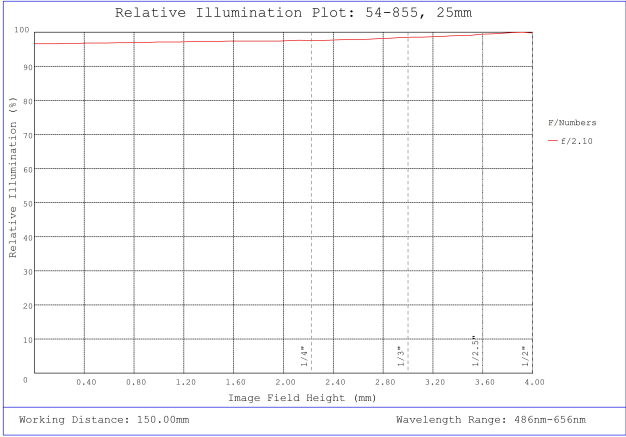
Edmund Optics has created multiple product families of our TECHSPEC® M12 S-Mount Lenses, which are designed to provide high resolution. These high performance lenses feature precision glass designs in a metal housing and have optimized specifications between each product family to meet your application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

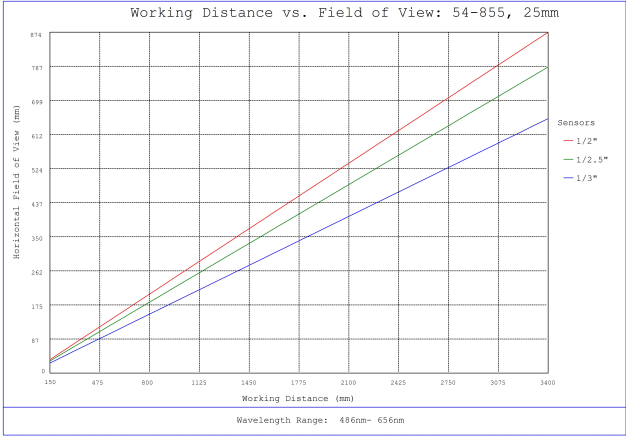
Technical Information



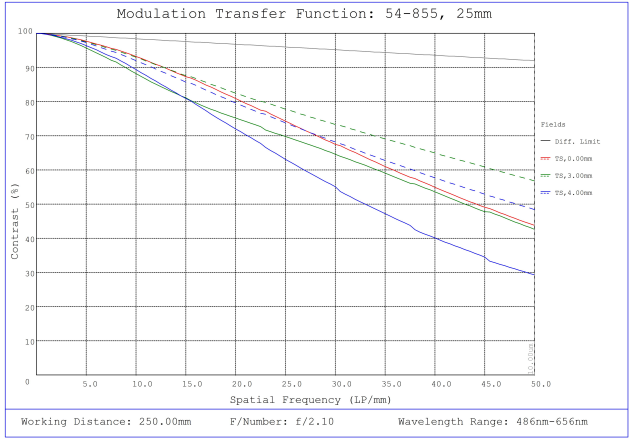
#54-855, f/2.1, 25mm Focal Length Green Series M16 Lens, Distortion Plot



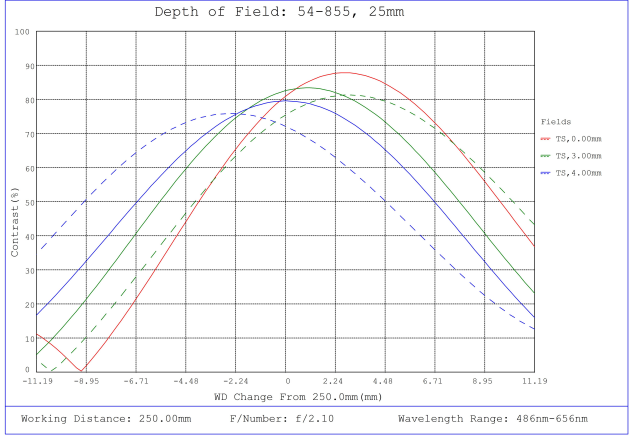
#54-855, f/2.1, 25mm Focal Length Green Series M16 Lens, Relative Illumination Plot



#54-855, f/2.1, 25mm Focal Length Green Series M16 Lens, Working Distance versus Field of View Plot

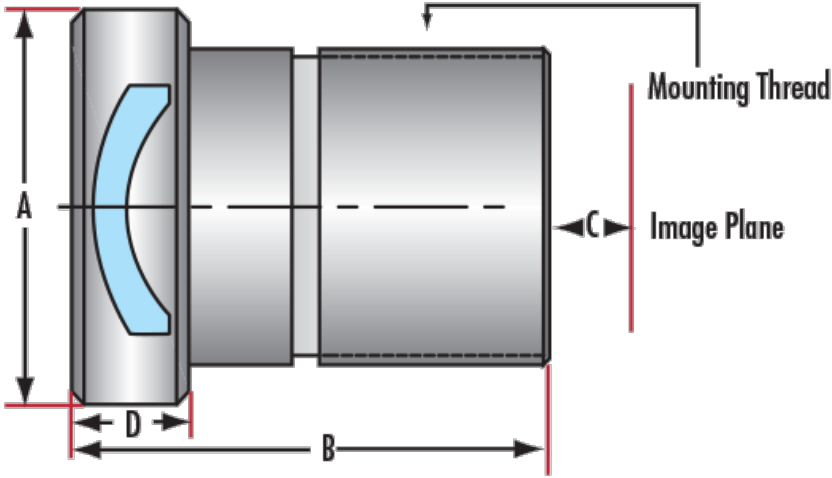


#54-855, f/2.1, 25mm Focal Length Green Series M16 Lens, Modulated Transfer Function (MTF) Plot, 250mm Working Distance, f2.1



#54-855, f/2.1, 25mm Focal Length Green Series M16 Lens, Depth of Field Plot, 250mm Working Distance, f2.1

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.