

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



25mm Focal Length, #54-855

Stock **#54-855** 16 In Stock

-

1

+

£70⁰⁰

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Volume Pricing	
Qty 1-49	£70.00 each
Qty 50+	£56.00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Green Series

Series:

M12 Imaging Lens

Type:

No

IR Cut Filter:

Standard Lens

Imaging Lens Type:

Physical & Mechanical Properties	
Iris Option:	Fixed
Length (mm):	24.20
Maximum Diameter (mm):	18
Outer Diameter (mm):	18
Weight (g):	13
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°
Resolution:	115 lp/mm @20% Contrast
Maximum Image Circle (mm):	8.00
Numerical Aperture NA, Object Side:	0.0429
Number of Elements (Groups):	4(4)
Wavelength Range (nm):	400 - 700
Focal Length FL (mm):	25.00
Working Distance (mm):	150 - ∞
Aperture (f/#):	f/2.1
Distortion (%):	-1.69 @Full Field
Back Focal Length BFL (mm):	12.6 - 11.9
Coating Specification:	M4 MgF ₂ @ 580nm
Entrance Pupil Position (mm):	4.43
Object Space Principal Plane (mm):	8.73
Image Space Principal Plane (mm):	-12.83
Maximum Distortion (%):	-1.69
Exit Pupil Position (mm):	-18.02
Lens Wavelength Range:	VIS
Sensor	
Maximum Sensor Format:	1/2"
Pixel Size (µm):	8.30
Threading & Mounting	
Filter Thread:	N/A
Mounting Threads:	M16 x0.5

M16 x0.5	Mount:
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

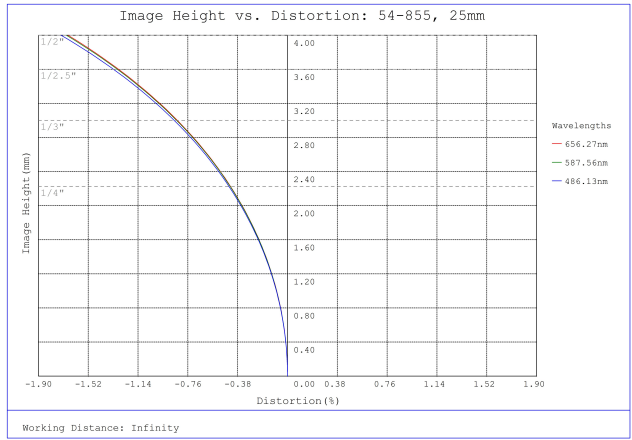
TECHSPEC® Green Series M12 Lenses designed for use in compact and board level cameras provide excellent image quality in a small, versatile package. Optimized to cover 1/3" and ½" sensor formats and weighing only a few grams, these machine vision lenses meet the most demanding space and weight restrictions. 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.

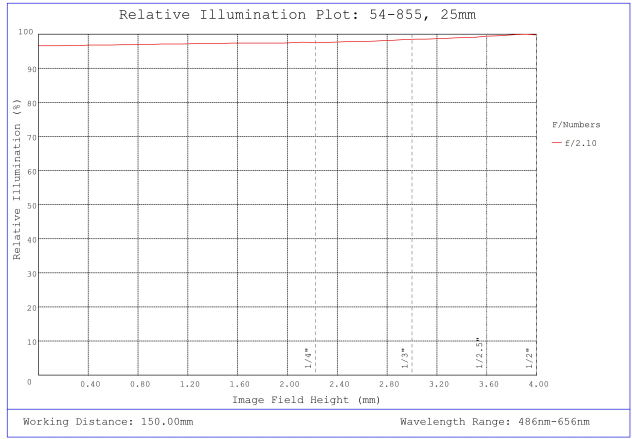
Edmund Optics has created multiple product families of our TECHSPEC® M12 S-Mount Lenses, which are designed to provide high resolution. These high performance lenses feature precision glass designs in a metal housing and have optimized specifications between each product family to meet your application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

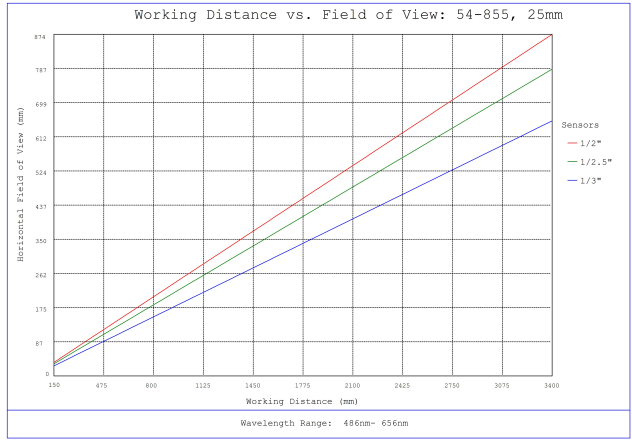
Technical Information



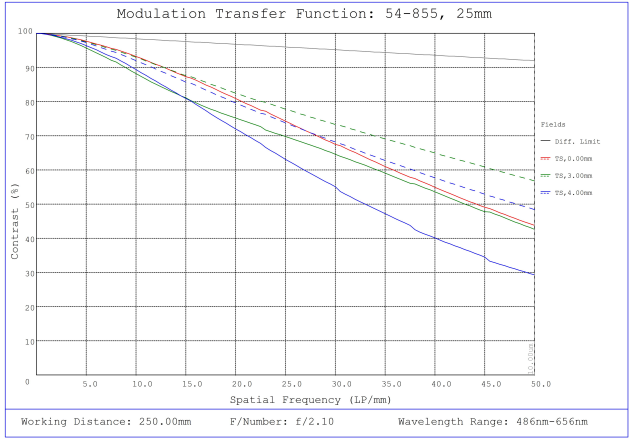
#54-855, f/2.1, 25mm Focal Length Green Series M16 Lens, Distortion Plot



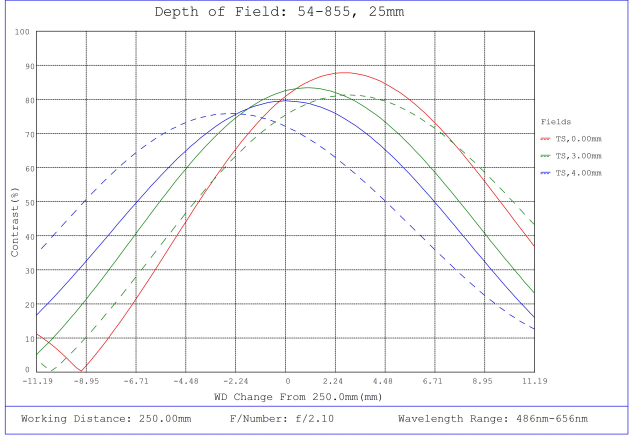
#54-855, f/2.1, 25mm Focal Length Green Series M16 Lens, Relative Illumination Plot



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

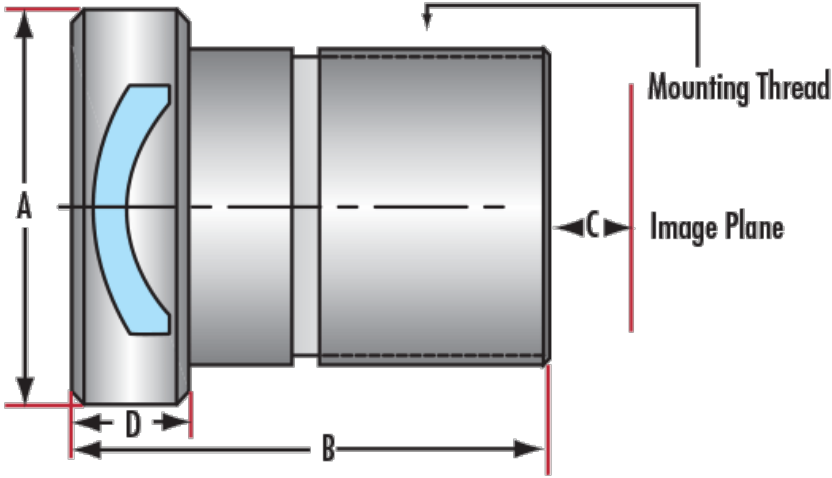


#54-855, f/2.1, 25mm Focal Length Green Series M16 Lens, Modulated Transfer Function (MTF) Plot, 250mm Working Distance, f2.1



#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.