

TECHSPEC[®] f/1.9, 6mm Focal Length Green Series M12 Lens



6mm Focal Length

Stock **#87-231** 20+ 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	
Fixed	Iris Option:
11.70	Length (mm):
14	Maximum Diameter (mm):
14	Outer Diameter (mm):
3	Weight (g):
Optical Properties	
	Horizontal Field of View @ Max Sensor Format: 129.8mm - 46.2°
	Field of View at Max Sensor Format: Horizontal: 129.8mm - 46° Vertical: 95.2mm - 34.6° Diagonal: 168.5mm - 57.7°
	Horizontal Field of View, 1/3" Sensor: 129.8mm - 46.2°
	Horizontal Field of View, 1/4" Sensor: 95.1mm - 34.7°
80 lp/mm @ 20% Contrast	Resolution:
6.00	Maximum Image Circle (mm):
0.0100	Numerical Aperture NA, Object Side:
5(5)	Number of Elements (Groups):
400 - 700	Wavelength Range (nm):
6.00	Focal Length FL (mm):
150 - ∞	Working Distance (mm):
f/1.9	Aperture (f/#):
-8.27 @ Full Field	Distortion (%):
4.0 - 3.9	Back Focal Length BFL (mm):
λ/4 MgF ₂ @ 580nm	Coating Specification:
3.99	Entrance Pupil Position (mm):
6.38	Object Space Principal Plane (mm):
-1.43	Image Space Principal Plane (mm):
-8.27	Maximum Distortion (%):
-5.43	Exit Pupil Position (mm):
VIS	Lens Wavelength Range:
Sensor	
1/3"	Maximum Sensor Format:
8.30	Pixel Size (μm):
Threading & Mounting	
N/A	Filter Thread:
M12 x 0.5	Mounting Threads:
S-Mount (M12 x 0.5)	Mount:
Regulatory Compliance	

Compliant		RoHS 2015:
View		Certificate of Conformance:
Compliant		REACH 241:

Product Details

- Up to 1/2", S-Mbunt 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

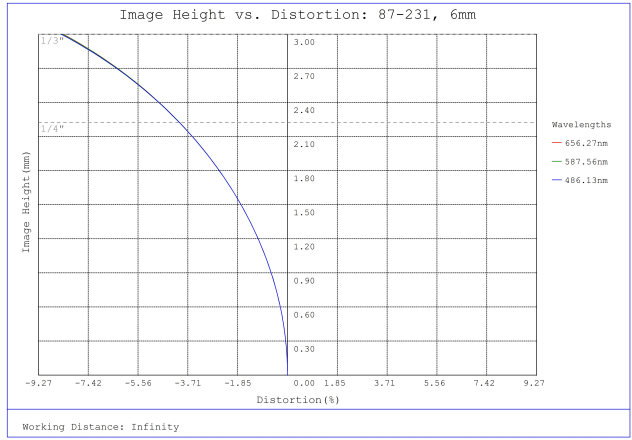
TECHSPEC® Green Series M12 Lenses designed for use in compact and board level cameras provide excellent image quality in a small, versatile package. Optimized to cover 1/3" and ½" sensor formats and weighing only a few grams, these machine vision lenses meet the most demanding space and weight restrictions.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

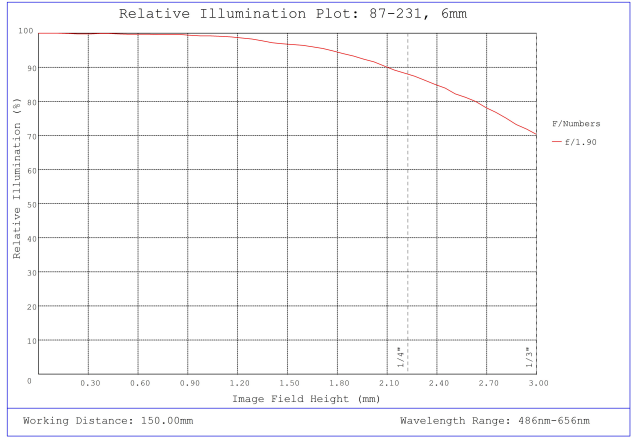
Edmund Optics has created multiple product families of our TECHSPEC® M12 S-Mbunt Lenses, which are designed to provide high resolution. These high performance lenses feature precision glass designs in a metal housing and have optimized specifications between each product family to meet your application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

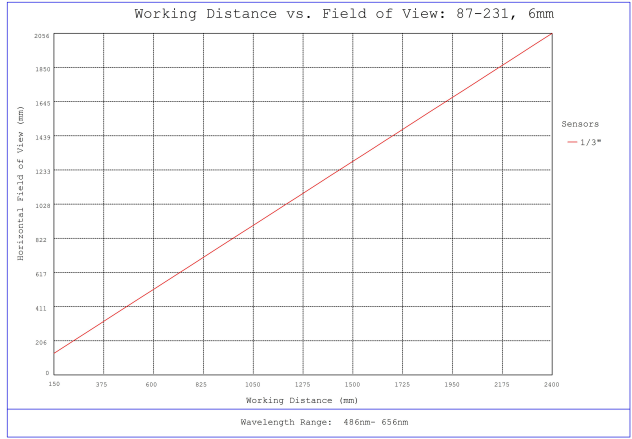
Technical Information



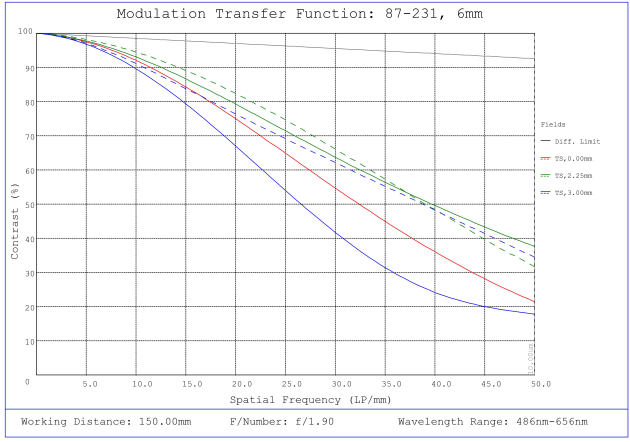
#87-231, f/1.9, 6mm Focal Length Green Series M12 Lens, Distortion Plot



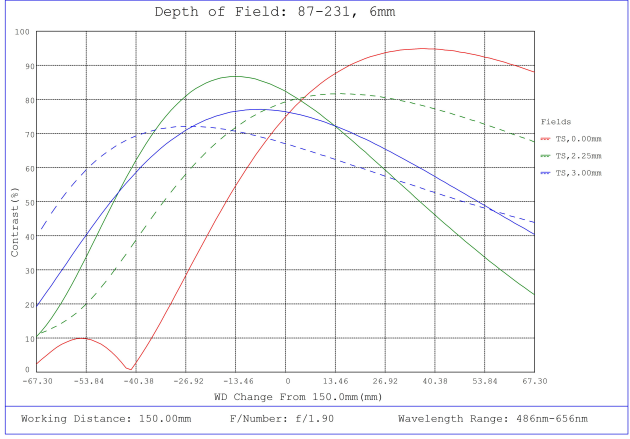
#87-231, f/1.9, 6mm Focal Length Green Series M12 Lens, Relative Illumination Plot



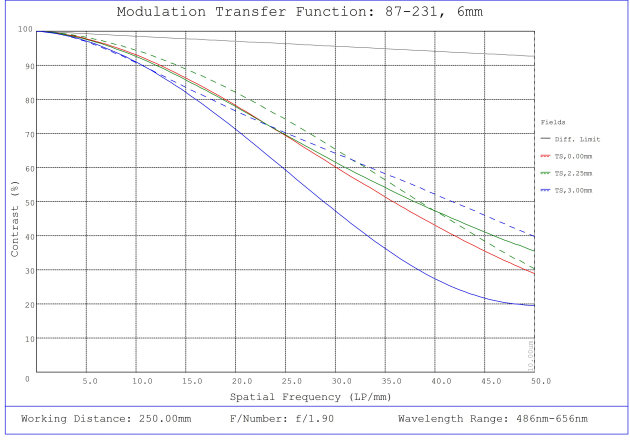
#87-231, f/1.9, 6mm Focal Length Green Series M12 Lens, Working Distance versus Field of View Plot



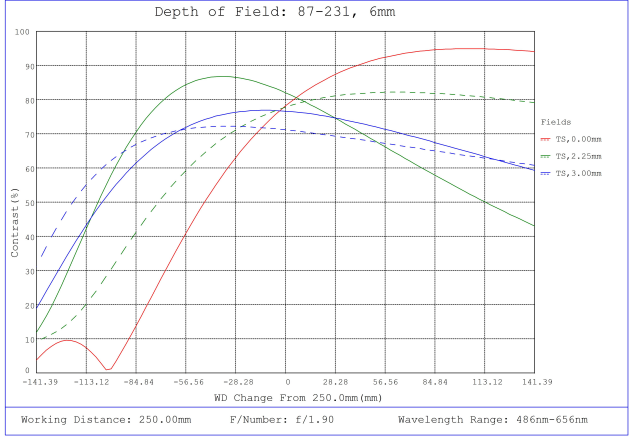
#87-231, f/1.9, 6mm Focal Length Green Series M12 Lens, Modulated Transfer Function (MTF) Plot, 150mm Working Distance, f1.9



#87-231, f/1.9, 6mm Focal Length Green Series M12 Lens, Depth of Field Plot, 150mm Working Distance, f1.9

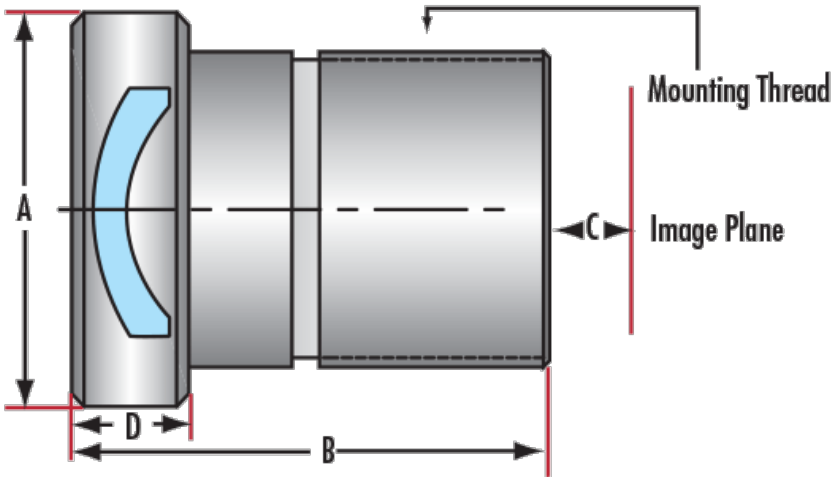


#87-231, f/1.9, 6mm Focal Length Green Series M12 Lens, Modulated Transfer Function (MTF) Plot, 250mm Working Distance, f1.9



#87-231, f/1.9, 6mm 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.

