

**TECHSPEC® f/5.6, 6mm Focal Length Green Series M12 Lens**



6mm Focal Length

Stock #83-934 **20+ In Stock**

⊖ 1 ⊕ ₹5,055

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**General**

Green Series **Series:**

M12 Imaging Lens **Type:**

No **IR Cut Filter:**

Standard Lens **Imaging Lens Type:**

**Physical & Mechanical Properties**

Fixed	<b>Iris Option:</b>
11.70	<b>Length (mm):</b>
14	<b>Maximum Diameter (mm):</b>
14	<b>Outer Diameter (mm):</b>
3	<b>Weight (g):</b>

## Optical Properties

130.9mm - 46.5°	<b>Horizontal Field of View @ Max Sensor Format:</b>
Horizontal: 129.8mm - 46° Vertical: 95.2mm - 34.6° Diagonal: 168.5mm - 57.7°	<b>Field of View at Max Sensor Format:</b>
129.8mm - 46.2°	<b>Horizontal Field of View, 1/3" Sensor:</b>
95.1mm - 34.7°	<b>Horizontal Field of View, 1/4" Sensor:</b>
80 lp/mm @ 20% Contrast	<b>Resolution:</b>
6.00	<b>Maximum Image Circle (mm):</b>
0.0034	<b>Numerical Aperture NA, Object Side:</b>
5(5)	<b>Number of Elements (Groups):</b>
400 - 700	<b>Wavelength Range (nm):</b>
6.00	<b>Focal Length FL (mm):</b>
150 - ∞	<b>Working Distance (mm):</b>
f/5.6	<b>Aperture (f/#):</b>
-8.27 @ Full Field	<b>Distortion (%):</b>
4.0 - 3.9	<b>Back Focal Length BFL (mm):</b>
M4 MgF <sub>2</sub> @ 580nm	<b>Coating Specification:</b>
3.99	<b>Entrance Pupil Position (mm):</b>
6.38	<b>Object Space Principal Plane (mm):</b>
-1.43	<b>Image Space Principal Plane (mm):</b>
-8.27	<b>Maximum Distortion (%):</b>
-5.43	<b>Exit Pupil Position (mm):</b>
VIS	<b>Lens Wavelength Range:</b>

## Sensor

1/3"	<b>Maximum Sensor Format:</b>
8.30	<b>Pixel Size (µm):</b>

## Threading & Mounting

N/A	<b>Filter Thread:</b>
M12 x 0.5	<b>Mounting Threads:</b>
S-Mount (M12 x 0.5)	<b>Mount:</b>

## Regulatory Compliance

**RoHS 2015:**  
Compliant

## 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

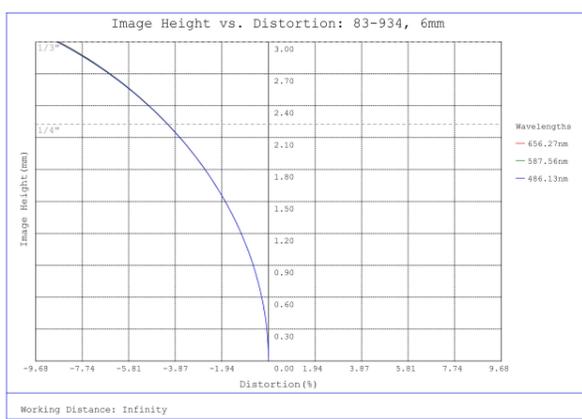
TECHSPEC® Green Series M12 Lenses designed for use in compact and board level cameras provide excellent image quality in a small, versatile package. Optimized to cover 1/3" and 1/2" sensor formats and weighing only a few grams, these machine vision lenses meet the most demanding space and weight restrictions. 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.

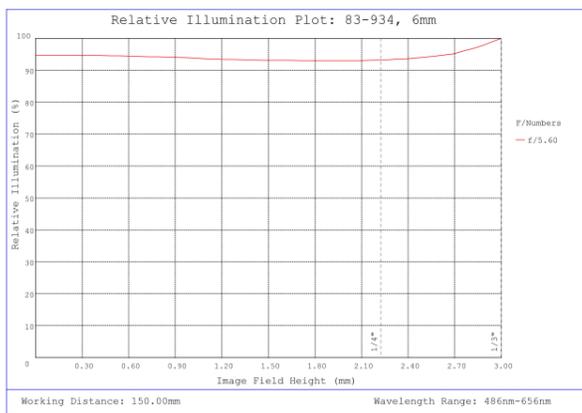
Edmund Optics has created multiple product families of our TECHSPEC® M12 S-Mount Lenses, which are designed to provide high resolution. These high performance lenses feature precision glass designs in a metal housing and have optimized specifications between each product family to meet your application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

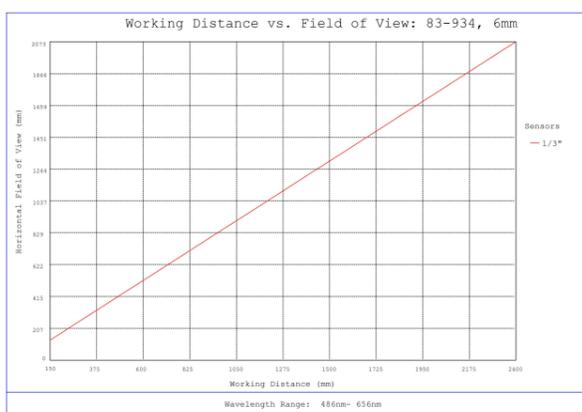
## Technical Information



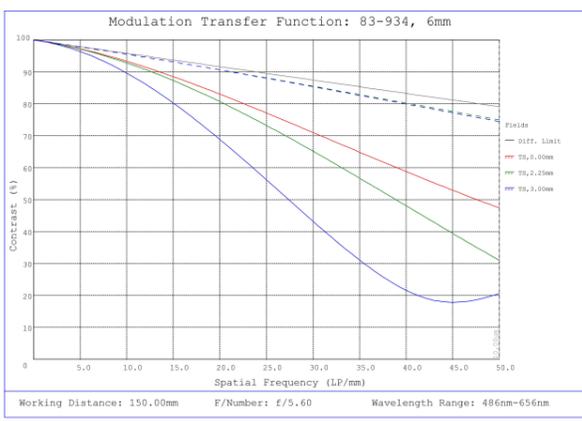
#83-934, f/5.6, 6mm Focal Length Green Series M12 Lens, Distortion Plot



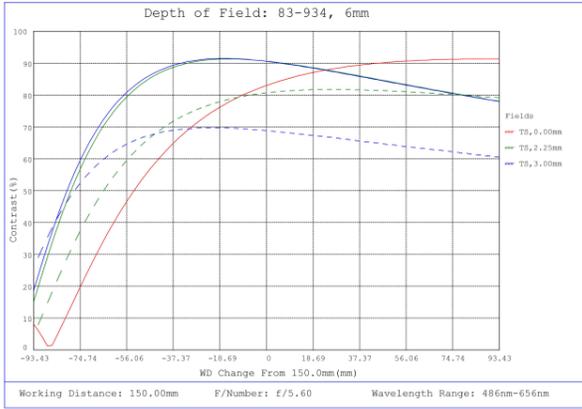
#83-934, f/5.6, 6mm Focal Length Green Series M12 Lens, Relative Illumination Plot



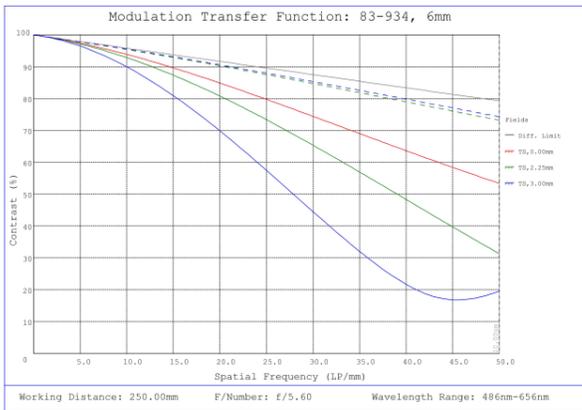
#83-934, f/5.6, 6mm Focal Length Green Series M12 Lens, Working Distance versus Field of View Plot



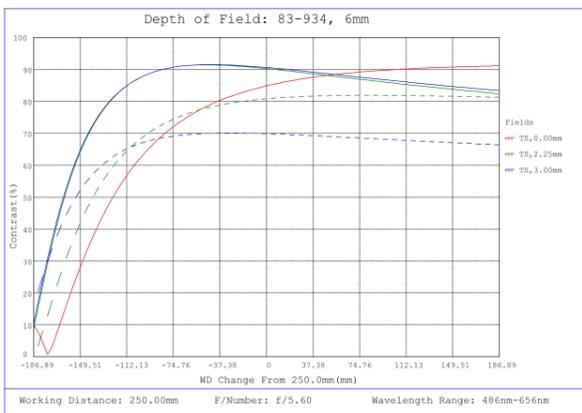
#83-934, f/5.6, 6mm Focal Length Green Series M12 Lens, Modulated Transfer Function (MTF) Plot, 150mm Working Distance, f5.6



#83-934, f/5.6, 6mm Focal Length Green Series M12 Lens, Depth of Field Plot, 150mm Working Distance, f5.6

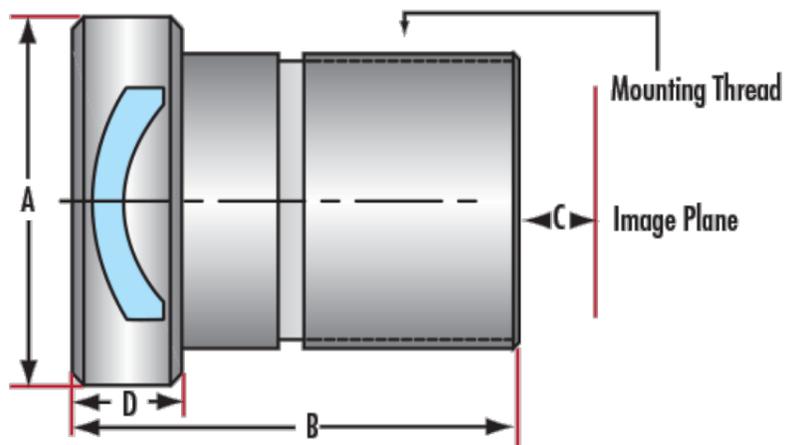


#83-934, f/5.6, 6mm Focal Length Green Series M12 Lens, Modulated Transfer Function (MTF) Plot, 250mm Working Distance, f5.6



#83-934, f/5.6, 6mm Focal Length Green Series M12 Lens, Depth of Field Plot, 250mm Working Distance, f5.6

Focal Length	A	B	C**	D	Mounting Thread
6.00	14.0	11.70	4.0 - 3.9	3.5	M12 x 0.5
8.00	14.0	20.40	8.9 - 8.7	6.0	M12 x 0.5
12.00	16.0	19.50	7.1 - 6.75	6.0	M12 x 0.5
25.00	18.0	24.40	12.6 - 11.9	9.0	M16 x 0.5



\*\*Minor adjustment required to match WD limits.

