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**TECHSPEC® 0.5X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens**



0.5X Magnification

Stock **#62-913** **20+ In Stock**

⊖ 1 ⊕ **\$4,091<sup>00</sup>**

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Qty 1+	<b>\$4,091.00</b> each
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**General**

PlatinumTL™ Series **Product Family:**

**Stock No. of Mounting Clamp:**  
[#63-441](#) Sold Separately

Telecentric Lens **Type:**

**Physical & Mechanical Properties**

Variable **Iris Option:**

184.00	<b>Length (mm):</b>
90.0	<b>Maximum Diameter (mm):</b>
1096	<b>Weight (g):</b>
6.56	<b>Flange Distance (mm):</b>

## Optical Properties

44.8mm	<b>Horizontal Field of View, APS-C Sensor:</b>
57.4mm	<b>Field of View, 28.7mm Sensor:</b>
34.6mm	<b>Horizontal Field of View, 4/3" Sensor:</b>
28.4mm	<b>Horizontal Field of View, 1.1" Sensor:</b>
25.6mm	<b>Horizontal Field of View, 1" Sensor:</b>
17.70mm	<b>Horizontal Field of View, 2/3" Sensor:</b>
12.8mm	<b>Horizontal Field of View, 1/2" Sensor:</b>
28.70	<b>Maximum Image Circle (mm):</b>
0.041	<b>Numerical Aperture NA, Object Side:</b>
10 (7)	<b>Number of Elements (Groups):</b>
<0.055	<b>Typical Telecentricity @ 588nm (°):</b>
<0.020	<b>Typical Distortion @ 588nm (%):</b>
0.5X	<b>Primary Magnification PMAG:</b>
0.50	<b>Telecentric Lens Magnification:</b>
175.00	<b>Working Distance (mm):</b>
44.8 x 33.6	<b>FOV @ Max Sensor Format, H x V (mm):</b>
f/6 - f/22	<b>Aperture (f/#):</b>
425 - 675nm BBAR	<b>Coating:</b>
±2.05 at f/10 (20% @ 20 lp/mm)	<b>Depth of Field (mm):</b>
0.5X	<b>Magnification:</b>
VIS	<b>Lens Wavelength Range:</b>

## Sensor

APS-C	<b>Maximum Sensor Format:</b>
2.74	<b>Pixel Size (µm):</b>

## Threading & Mounting

M86 x 1.00 (Female)	<b>Filter Thread:</b>
M42 x 1.0	<b>Mount:</b>

## Regulatory Compliance

<a href="#">View</a>	<b>Certificate of Conformance:</b>
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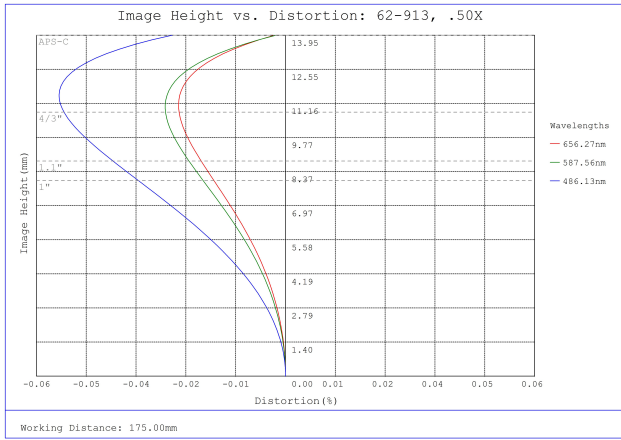
## Product Details

- High Resolution f/6 Bi-Telecentric Lens for Measurement

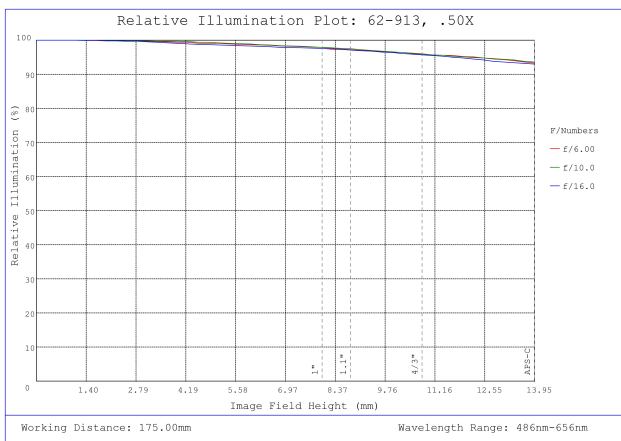
- Up to 35 MegaPixels, 2.8µm Pixel Size Sensors
- APS-C, C-Mount, T-Mount, F-Mount Telecentric Lens
- Magnification from 0.28X to 1.7X

TECHSPEC® PlatinumTL™ Telecentric Lenses are designed for semiconductor and electronics inspection, measurement, and gauging applications. The precision designs feature high telecentricity (<math><0.1^\circ</math>), low distortion (<math><0.1\%</math>), and high light throughput with an adjustable aperture that achieves  $f/6$  when fully open. Capable of supporting large format 28.7mm diagonal sensors, these lenses are compatible with the Sony IMX342 APS-C sensor and other similar format sensors such as the Sony IMX530. TECHSPEC® PlatinumTL™ Telecentric Lenses produce unparalleled levels of contrast yielding maximum image quality with the highest degree of measurement accuracy. These lenses are suitable for high vibration environments and feature a removable recessed set screw for securing the iris in place.

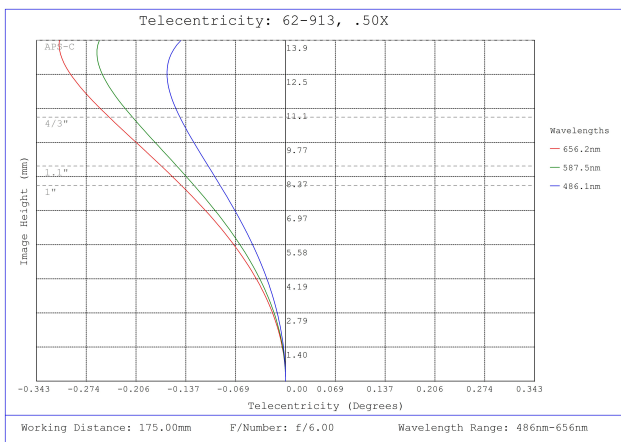
## Technical Information



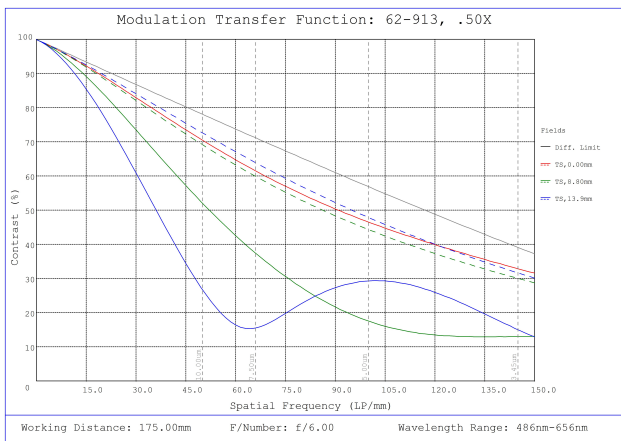
#62-913, 0.5X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Distortion Plot



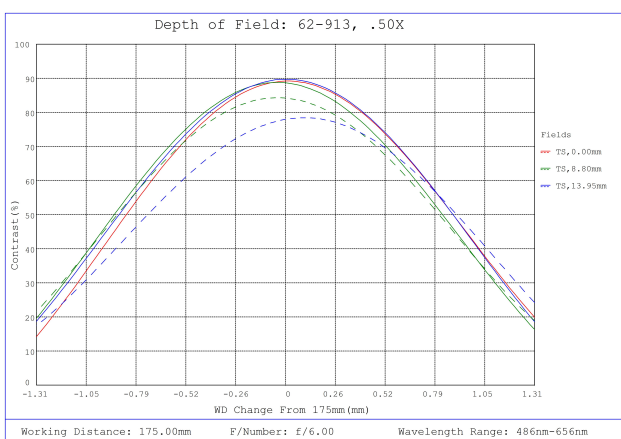
#62-913, 0.5X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Relative Illumination Plot



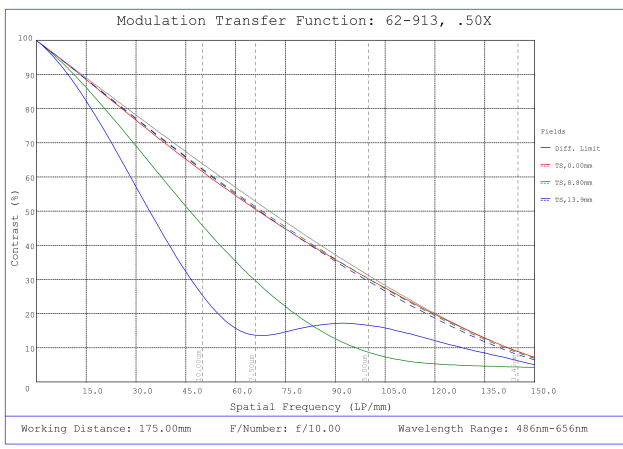
#62-913, 0.5X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Telecentricity Plot



#62-913, 0.5X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 175mm Working Distance, f6



#62-913, 0.5X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Depth of Field Plot, 175mm Working Distance, f6



#62-913, 0.5X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 175mm Working Distance, f10



#62-913, 0.5X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Depth of Field Plot, 175mm Working Distance, f10

Description		Stock No.	Flange	Length (A)	Front Diameter (B)	Back Diameter (C)
0.28X	C-Mount	#62-933	17.5mm	230.8mm	60.5mm	33.5mm
0.5X	C-Mount	#62-932	17.5mm	174.9mm	50mm	33.5mm
1.7X	C-Mount	#63-232	17.5mm	189.5mm	60mm	46mm
0.28X	F-Mount	#62-922	46.5mm	167.6mm	138.6mm	55mm
	M42 x 1.0	#62-923	6.56mm	208.5mm	138.6mm	50mm
	M42 x 1.0	#62-924	19.53mm	195.5mm	138.6mm	50mm
0.5X	F-Mount	#62-912	46.5mm	143mm	90mm	55mm
	M42 x 1.0	#62-913	6.56mm	184mm	90mm	50mm
	M42 x 1.0	#62-914	19.53mm	171.1mm	90mm	50mm
0.9X	F-Mount	#62-902	46.5mm	170.8mm	65mm	55mm
	M42 x 1.0	#62-903	6.56mm	210.7mm	65mm	53mm
	M42 x 1.0	#62-904	19.53mm	197.8mm	65mm	53mm

