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TECHSPEC® 0.5X CobaltTL Telecentric Lens

0.5X Magnification

Stock **#62-911** **20+ In Stock**

- 1 + **A$3,212**.00

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General

Product Family:
CobaltTL Series

Stock No. of Mounting Clamp:
#63-441 Sold Separately

Type:
Telecentric Lens

Physical & Mechanical Properties

Iris Option:
Variable

Length (mm):
172.90

Maximum Diameter (mm):
90.0

Weight (g):
1061

Flange Distance (mm):
17.5

Optical Properties

Horizontal Field of View, 1.1" Sensor:
28.32mm

Horizontal Field of View, 1" Sensor:
25.75mm

Horizontal Field of View, 2/3" Sensor:
17.7mm

Horizontal Field of View, 1/1.8" Sensor:
14.48mm

Horizontal Field of View, 1/2" Sensor:
12.874mm

Maximum Image Circle (mm):
17.60

Numerical Aperture NA, Object Side:
0.041

Number of Elements (Groups):
10 (7)

Typical Telecentricity @ 588nm (°):
<0.252

Typical Distortion @ 588nm (%):
<0.041

Primary Magnification PMAG:
0.5X

Telecentric Lens Magnification:
0.50

Working Distance (mm):
175

FOV @ Max Sensor Format, H x V (mm):
28.4 x 20.8

Aperture (f/#):
f/6 - f/22

Coating:
425 - 675nm BBAR

Depth of Field (mm):
±2.08mm at f/10 (20% @ 20 lp/mm)

Magnification:
0.5X

Lens Wavelength Range:
VIS

Sensor

Maximum Sensor Format:
1.1"

Pixel Size (µm):
2.20

Threading & Mounting

Filter Thread:
M86 x 1.00 (Female)

Mount:
C-Mount

Regulatory Compliance

RoHS 2015:
Not Compliant

Certificate of Conformance:
View

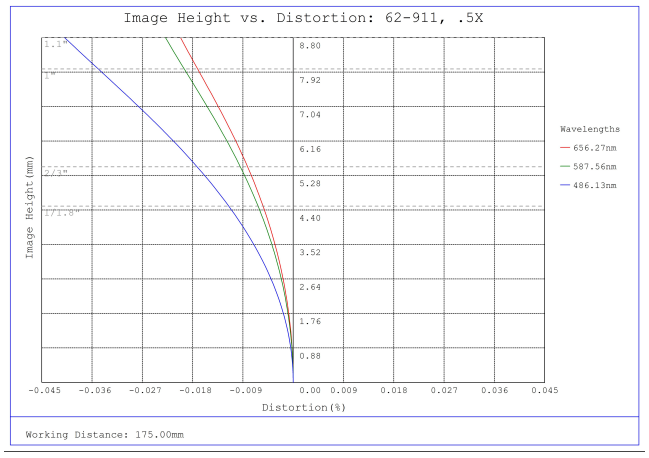
Product Details

- High Resolution Bi-Telecentric Lens with In-Line Illumination Options

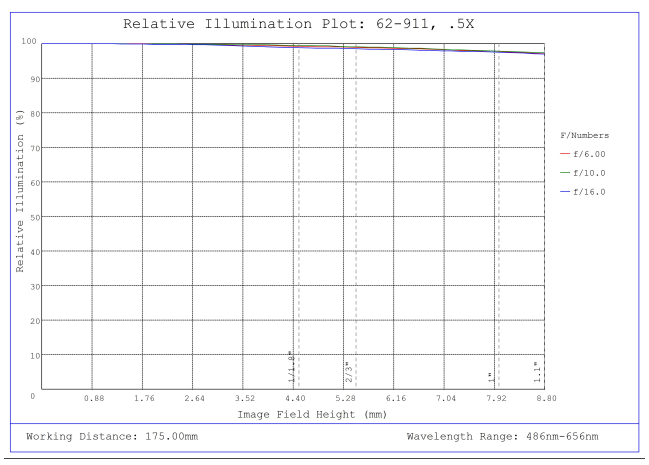
- Up to 20 MegaPixels, 2.2µm Pixel Size
- 1.1", C-Mount Telecentric Lens with f/#'s as Low as f/4

TECHSPEC® CobaltTL Telecentric Lenses are designed for semiconductor and electronics inspection, measurement, and gauging applications. These telecentric lenses achieve high light throughput with industry leading low f/#s. Featuring less than 0.015° telecentricity and low 0.013% distortion, these lenses are ideal for image stitching applications. These 17.6mm diagonal sensor format lenses are compatible with the Sony IMX304 1.1" sensors and other similar format sensors such as the Sony IMX183. TECHSPEC® CobaltTL Telecentric Lenses produce unparalleled levels of contrast yielding maximum image quality with the highest degree of measurement accuracy. In-line versions provide the ability to rotate/reposition the inline illumination port to allow for maximum flexibility when machine building. TECHSPEC® CobaltTL Telecentric Lenses are compatible with high vibration environments and feature a removable recessed set screw for securely locking the iris in place.

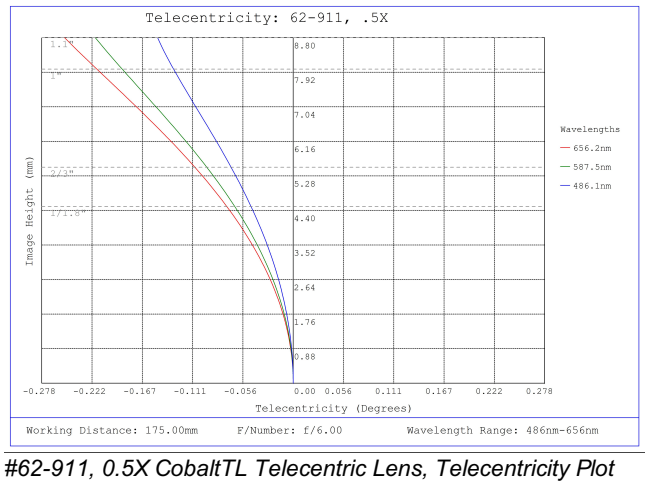
Technical Information



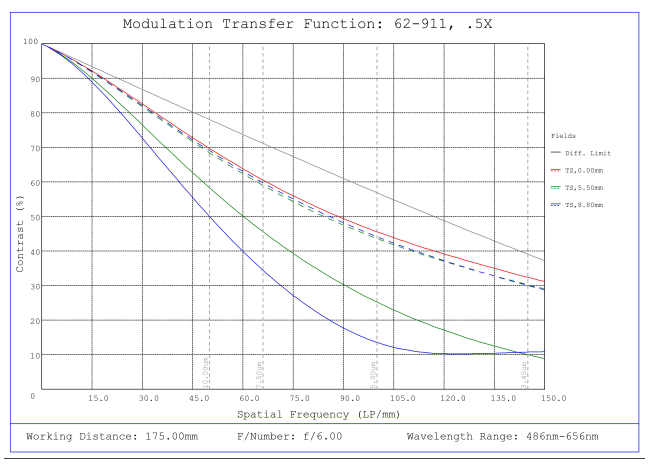
#62-911, 0.5X CobaltTL Telecentric Lens, Distortion Plot



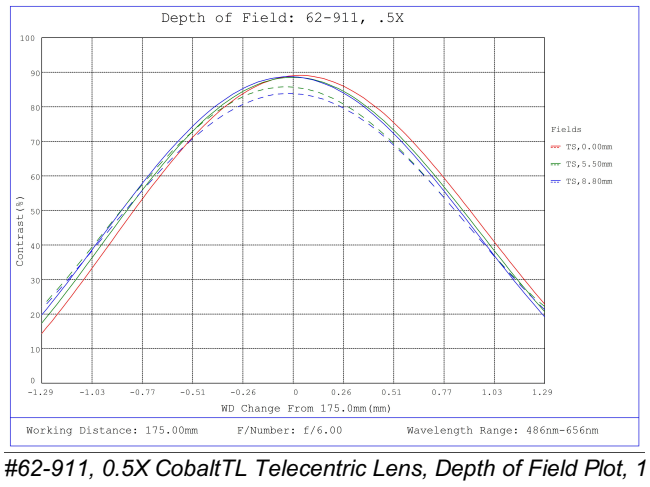
#62-911, 0.5X CobaltTL Telecentric Lens, Relative Illumination Plot



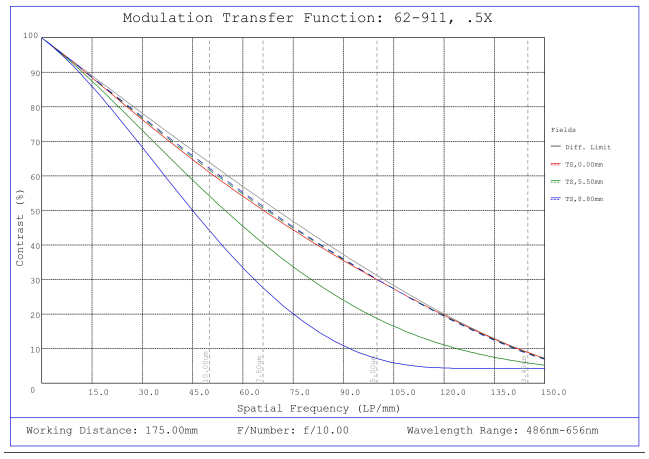
#62-911, 0.5X CobaltTL Telecentric Lens, Telecentricity Plot



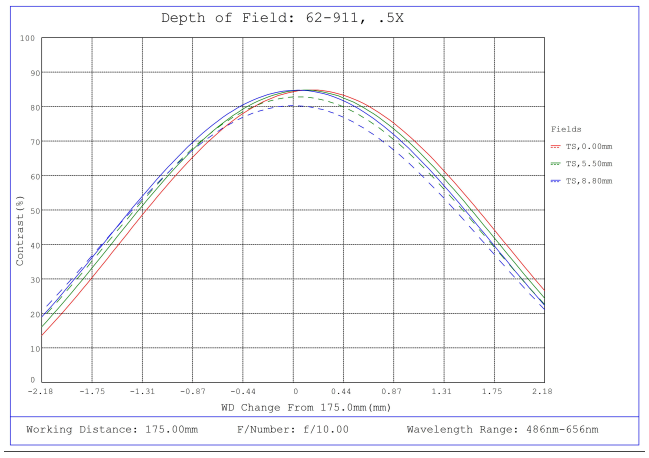
#62-911, 0.5X CobaltTL Telecentric Lens, Modulated Transfer Function (MTF) Plot, 175mm Working Distance, f6



#62-911, 0.5X CobaltTL Telecentric Lens, Depth of Field Plot, 175mm Working Distance, f6



#62-911, 0.5X CobaltTL Telecentric Lens, Modulated Transfer Function (MTF) Plot, 175mm Working Distance, f10



#62-911, 0.5X CobaltTL Telecentric Lens, Depth of Field Plot, 175mm Working Distance, f10

Description		Stock No.	Length (A)	Front Diameter (B)	Back Diameter (C)
0.28X	C-Mount	#62-921	197.59mm	138.6mm	50mm
0.36X	C-Mount	#88-602	163.5mm	70mm	43.5mm
0.5X	C-Mount	#62-911	172.9mm	90mm	50mm
0.55X	C-Mount	#88-603	182.5mm	62mm	43.5mm
0.69X	C-Mount	#15-872 / #15-873 (In-Line)	174.96mm	55mm	46mm
0.9X	C-Mount	#62-901	199.8mm	65mm	53mm

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