

**TECHSPEC® 0.9X CobaltTL Telecentric Lens**



0.9X Magnification



Stock #62-901 **11 In Stock**

⊖ 1 ⊕ £1,772<sup>00</sup>

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Volume Pricing

|            |                               |
|------------|-------------------------------|
| Qty 1+     | £1,772.00 each                |
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**!** Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

CobaltTL Series **Product Family:**

**Stock No. of Mounting Clamp:**  
#56-025 Sold Separately

Telecentric Lens **Type:**

## Physical & Mechanical Properties

199.80 Length (mm):

65.0 Maximum Diameter (mm):

862 Weight (g):

17.5 Flange Distance (mm):

## Optical Properties

15.65mm Horizontal Field of View, 1.1" Sensor:

14.23mm Horizontal Field of View, 1" Sensor:

9.78mm Horizontal Field of View, 2/3" Sensor:

8.00mm Horizontal Field of View, 1/1.8" Sensor:

7.12mm Horizontal Field of View, 1/2" Sensor:

17.60 Maximum Image Circle (mm):

0.075 Numerical Aperture NA, Object Side:

10 (7) Number of Elements (Groups):

<0.089 Typical Telecentricity @ 588nm (°):

<0.014 Typical Distortion @ 588nm (%):

0.9X Primary Magnification PMAG:

0.90 Telecentric Lens Magnification:

111 Working Distance (mm):

15.8 x 11.6 FOV @ Max Sensor Format, H x V (mm):

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

425 - 675nm BBAR Coating:

±0.33mm at f/10 (20% @ 20 lp/mm) Depth of Field (mm):

0.9X Magnification:

VIS Lens Wavelength Range:

## Sensor

1.1" Maximum Sensor Format:

2.20 Pixel Size (µm):

## Threading & Mounting

M62 x 0.75 (Female) Filter Thread:

C-Mount Mount:

## Regulatory Compliance

[View](#) Certificate of Conformance:

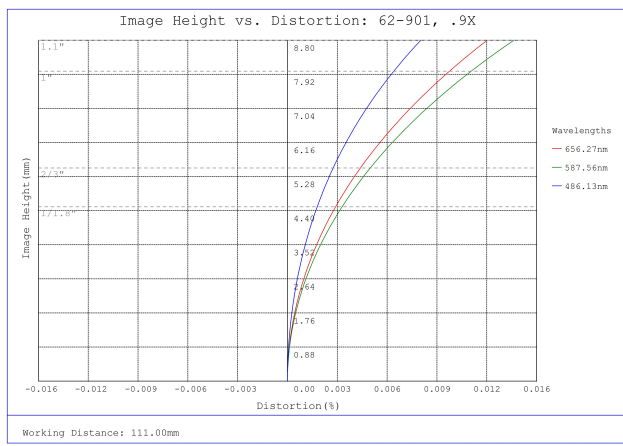
## Product Details

- 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

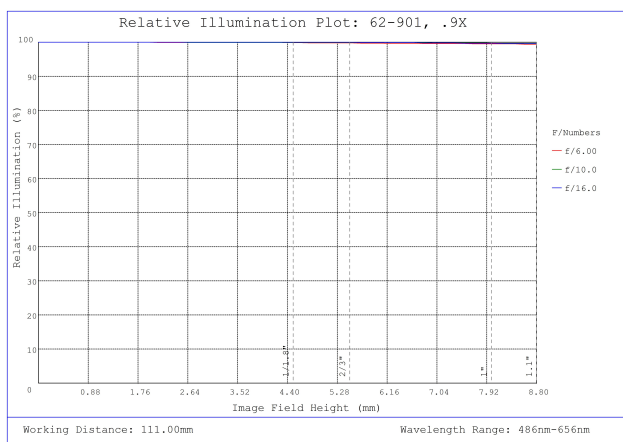
TECHSPEC® CobaltTL Telecentric Lenses are designed for semiconductor and electronics inspection, measurement, and gauging applications. These telecentric lenses achieve high light throughput with industry leading low f/#s. Featuring less than 0.015° telecentricity and low 0.013% distortion, these lenses 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.

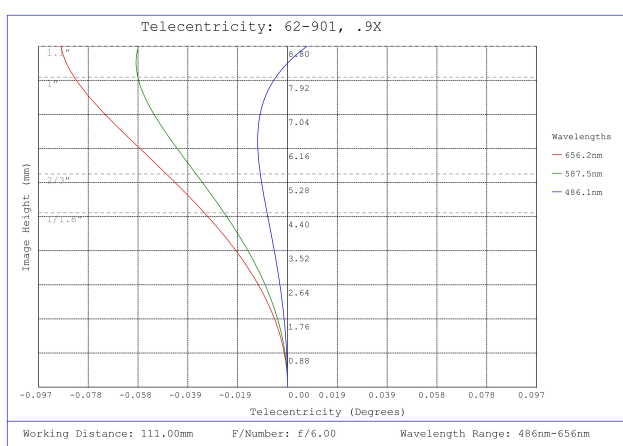
## Technical Information



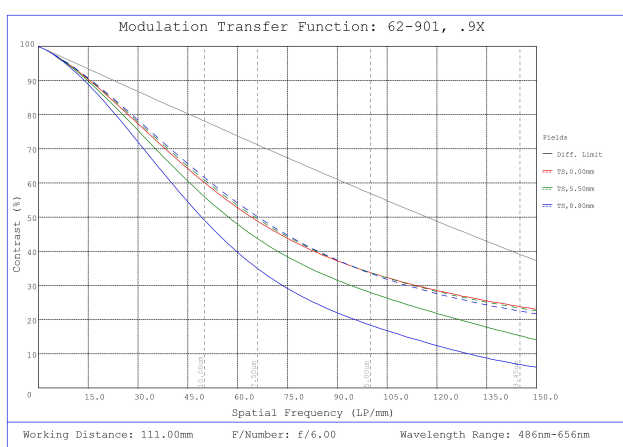
#62-901, 0.9X CobaltTL Telecentric Lens, Distortion Plot



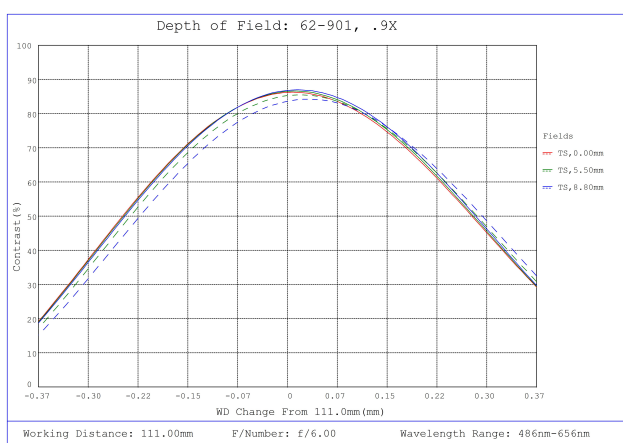
#62-901, 0.9X CobaltTL Telecentric Lens, Relative Illumination Plot



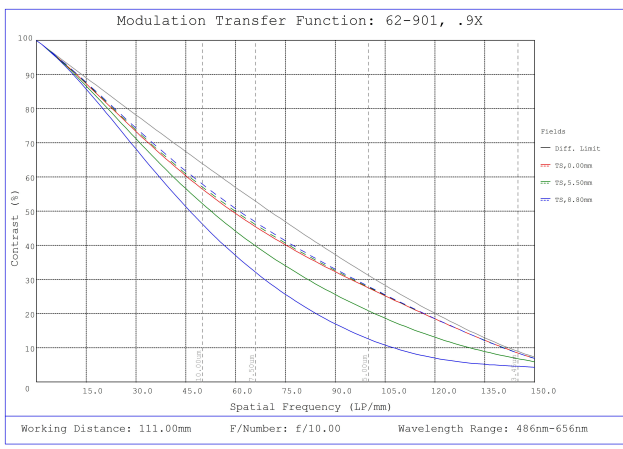
#62-901, 0.9X CobaltTL Telecentric Lens, Telecentricity Plot



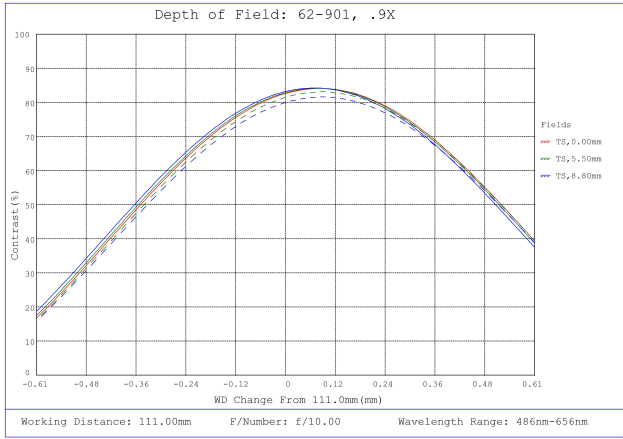
#62-901, 0.9X CobaltTL Telecentric Lens, Modulated Transfer Function (MTF) Plot, 111mm Working Distance, f6



#62-901, 0.9X CobaltTL Telecentric Lens, Depth of Field Plot, 111mm Working Distance, f6



#62-901, 0.9X CobaltTL Telecentric Lens, Modulated Transfer Function (MTF) Plot, 111mm Working Distance, f10



#62-901, 0.9X CobaltTL Telecentric Lens, Depth of Field Plot, 111mm 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<br>(In-Line) | 174.96mm   | 55mm               | 46mm              |
| 0.9X        | C-Mount | #62-901                        | 199.8mm    | 65mm               | 53mm              |