

TECHSPEC® 0.9X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens



0.9X Magnification

Stock **#62-904** [CONTACT US](#)

⊖ 1 ⊕ **A\$3,705⁰⁰**

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Volume Pricing

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|------------|-------------------------------|
| Qty 1+ | A\$3,705.00 each |
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Product Downloads

General

PlatinumTL™ Series **Product Family:**

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

Telecentric Lens **Type:**

Physical & Mechanical Properties

Variable **Iris Option:**

| | |
|--------|-------------------------------|
| 197.80 | Length (mm): |
| 65.0 | Maximum Diameter (mm): |
| 400 | Weight (g): |
| 19.53 | Flange Distance (mm): |

Optical Properties

| | |
|--------------------------------|--|
| 24.9mm | Horizontal Field of View, APS-C Sensor: |
| 31.9mm | Field of View, 28.7mm Sensor: |
| 19.2mm | Horizontal Field of View, 4/3" Sensor: |
| 15.8mm | Horizontal Field of View, 1.1" Sensor: |
| 14.2mm | Horizontal Field of View, 1" Sensor: |
| 9.8mm | Horizontal Field of View, 2/3" Sensor: |
| 7.1mm | Horizontal Field of View, 1/2" Sensor: |
| 28.70 | Maximum Image Circle (mm): |
| 0.045 | Numerical Aperture NA, Object Side: |
| 10 (7) | Number of Elements (Groups): |
| <0.070 | Typical Telecentricity @ 588nm (°): |
| <0.035 | Typical Distortion @ 588nm (%): |
| 0.9X | Primary Magnification PMAG: |
| 0.90 | Telecentric Lens Magnification: |
| 111.00 | Working Distance (mm): |
| 24.9 x 18.7 | FOV @ Max Sensor Format, H x V (mm): |
| f/6 - f/22 | Aperture (f/#): |
| 425 - 675nm BBAR | Coating: |
| ±0.65 at f/10 (20% @ 20 lp/mm) | Depth of Field (mm): |
| 0.9X | Magnification: |
| VIS | Lens Wavelength Range: |

Sensor

| | |
|-------|-------------------------------|
| APS-C | Maximum Sensor Format: |
| 2.74 | Pixel Size (µm): |

Threading & Mounting

| | |
|---------------------|-----------------------|
| M62 x 0.75 (Female) | Filter Thread: |
| M42 x 1.0 | Mount: |

Regulatory Compliance

| | |
|----------------------|------------------------------------|
| View | Certificate of Conformance: |
|----------------------|------------------------------------|

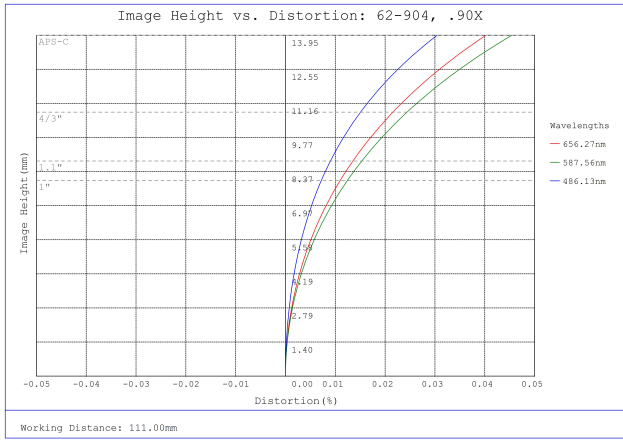
Product Details

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

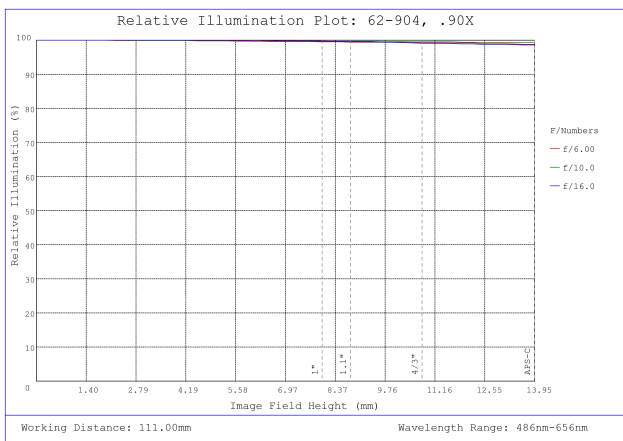
- Up to 35 MegaPixels, 2.8µm Pixel Size Sensors
- APS-C, C-Mount, T-Mount, F-Mount Telecentric Lens
- Magnification from 0.28X to 1.7X

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.

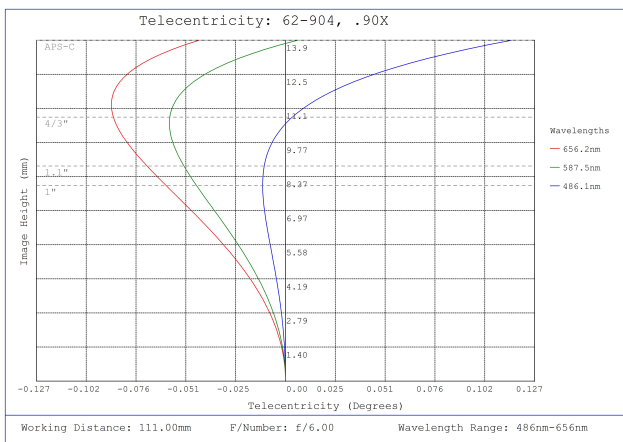
Technical Information



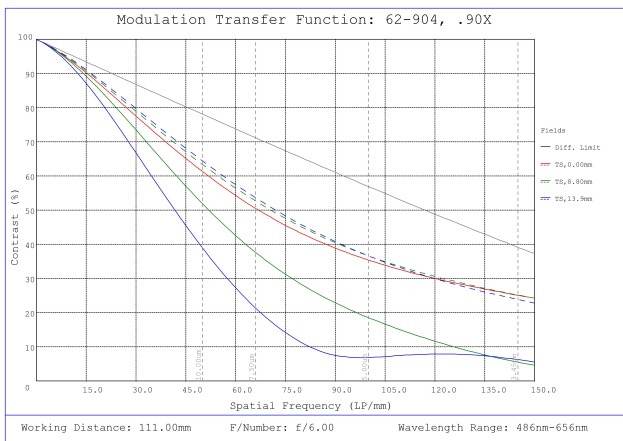
#62-904, 0.9X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Distortion Plot



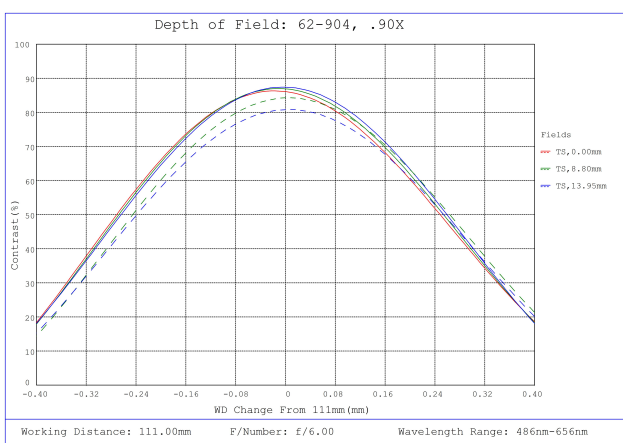
#62-904, 0.9X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Relative Illumination Plot



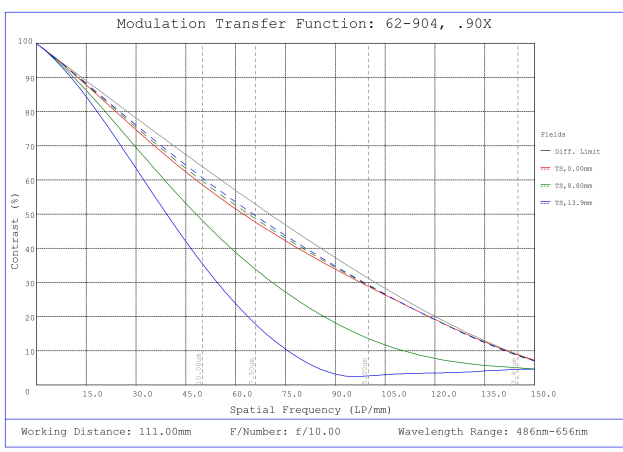
#62-904, 0.9X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Telecentricity Plot



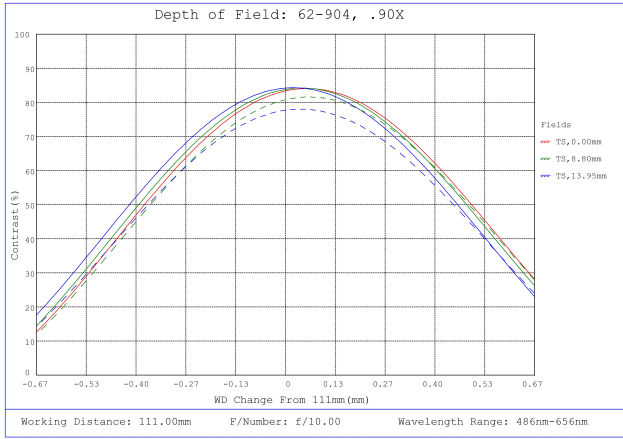
#62-904, 0.9X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 111mm Working Distance, f_6



#62-904, 0.9X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Depth of Field Plot, 111mm Working Distance, f_6



#62-904, 0.9X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 111mm Working Distance, f10



#62-904, 0.9X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Depth of Field Plot, 111mm 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 |

