

TECHSPEC® 0.9X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens



0.9X Magnification

Stock **#62-903** [CONTACT US](#)

-

1

+

£2,044<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | £2,044.00 each                |
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 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Series:

PlatinumTL™ Series

Stock No. of Mounting Clamp:

#56-025 Sold Separately

Type:

Telecentric Lens

Physical & Mechanical Properties

Iris Option:

|          |                        |
|----------|------------------------|
| Variable |                        |
| 210.70   | Length (mm):           |
| 65.0     | Maximum Diameter (mm): |
| 400      | Weight (g):            |
| 6.56     | 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

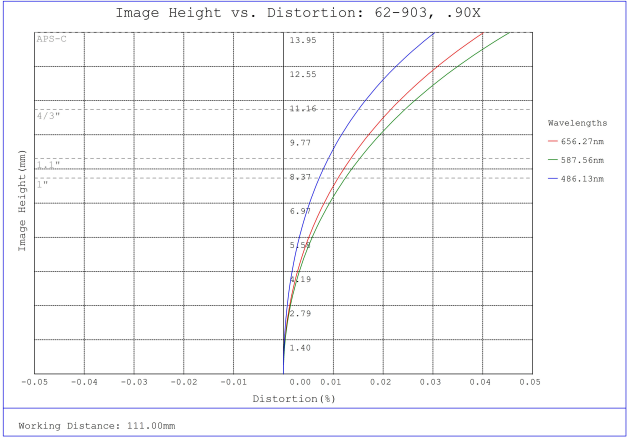
|                      |                             |
|----------------------|-----------------------------|
| <a href="#">View</a> | Certificate of Conformance: |
|----------------------|-----------------------------|

Product Details

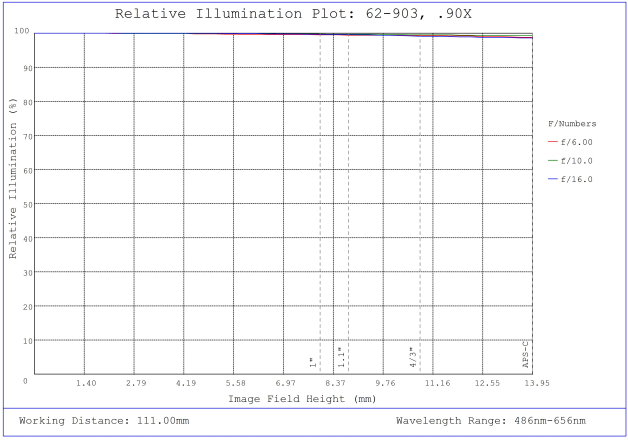
- High Resolution f/6 Bi-Telecentric Lens for Measurement
- Up to 35 MegaPixels, 2.8µm Pixel Size Sensors
- APS-C, C-Mount, T-Mount, F-Mount Telecentric Lens
- Magnification from 0.28X to 1.7X

TECHSPEC® PlatinumTL™ Telecentric Lenses are designed for semiconductor and electronics inspection, measurement, and gauging applications. The precision designs feature high telecentricity (<0.1°), low distortion (<0.1%), 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.

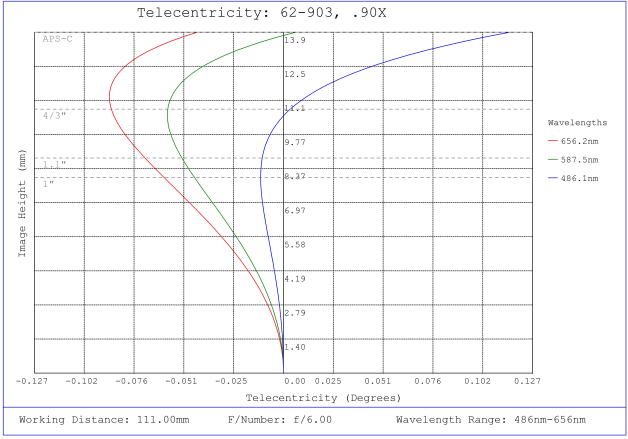
## Technical Information



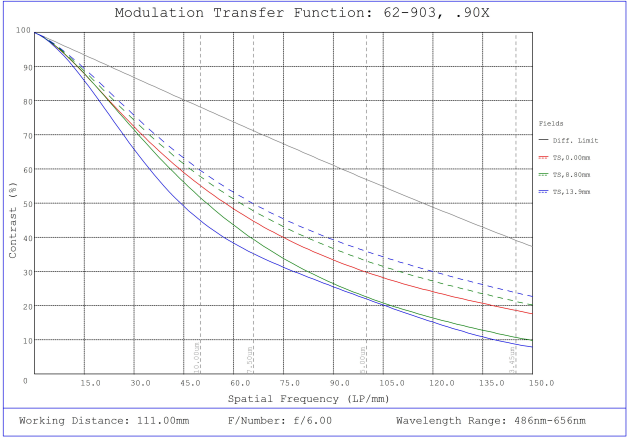
#62-903, 0.9X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Distortion Plot



#62-903, 0.9X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Relative Illumination Plot



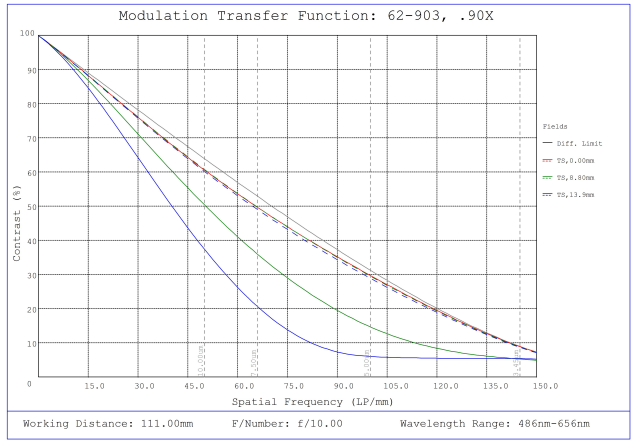
#62-903, 0.9X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Telecentricity Plot



#62-903, 0.9X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 111mm Working Distance, f6



#62-903, 0.9X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Depth of Field Plot, 111mm Working Distance, f6



#62-903, 0.9X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 111mm Working Distance, f10



#62-903, 0.9X, 28.7mm M42 x 1.0 (6.56mm) 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              |

