

TECHSPEC<sup>®</sup> 0.28X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL<sup>™</sup> Telecentric Lens



0.28X Magnification

Stock **#62-924** 11 In Stock

-

1

+

A\$8,063<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | A\$8,063.00 each              |
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Product Downloads

General

PlatinumTL<sup>™</sup> Series

Series:

[#63-440](#) Sold Separately

Stock No. of Mounting Clamp:

Telecentric Lens

Type:

Physical & Mechanical Properties

Variable

Iris Option:

|                               |                                         |
|-------------------------------|-----------------------------------------|
| 195.50                        | Length (mm):                            |
| 138.6                         | Maximum Diameter (mm):                  |
| 736                           | Weight (g):                             |
| 19.53                         | Flange Distance (mm):                   |
| Optical Properties            |                                         |
| 80.0mm                        | Horizontal Field of View, APS-C Sensor: |
| 102.5mm                       | Field of View, 28.7mm Sensor:           |
| 61.8mm                        | Horizontal Field of View, 4/3" Sensor:  |
| 50.7mm                        | Horizontal Field of View, 1.1" Sensor:  |
| 45.7mm                        | Horizontal Field of View, 1" Sensor:    |
| 31.8mm                        | Horizontal Field of View, 2/3" Sensor:  |
| 22.9mm                        | Horizontal Field of View, 1/2" Sensor:  |
| 28.70                         | Maximum Image Circle (mm):              |
| 0.023                         | Numerical Aperture NA, Object Side:     |
| 10 (7)                        | Number of Elements (Groups):            |
| <0.035                        | Typical Telecentricity @ 588nm (°):     |
| <0.012                        | Typical Distortion @ 588nm (%):         |
| 0.28X                         | Primary Magnification PMAG:             |
| 0.28                          | Telecentric Lens Magnification:         |
| 182.00                        | Working Distance (mm):                  |
| 80.0 x 60.0                   | FOV @ Max Sensor Format, H x V (mm):    |
| f/6 - f/22                    | Aperture (f/#):                         |
| 425 - 675nm BBAR              | Coating:                                |
| ±6.9 at f/10 (20% @ 20 lp/mm) | Depth of Field (mm):                    |
| 0.28X                         | Magnification:                          |
| VIS                           | Lens Wavelength Range:                  |
| Sensor                        |                                         |
| APS-C                         | Maximum Sensor Format:                  |
| 2.74                          | Pixel Size (µm):                        |
| Threading & Mounting          |                                         |
| M132 x 0.75 (Female)          | Filter Thread:                          |
| M42 x 1.0                     | Mount:                                  |
| Regulatory Compliance         |                                         |
| <a href="#">View</a>          | Certificate of Conformance:             |

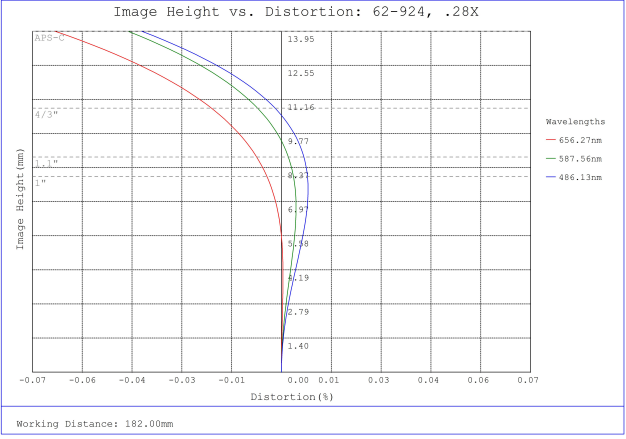
## Product Details

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

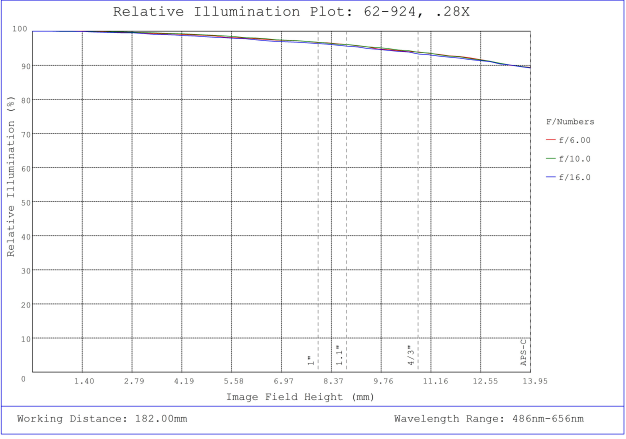
- Up to 35 MegaPixels, 2.8µm Pixel Size Sensors
- APS-C, C-Mount, T-Mount, F-Mount Telecentric Lens
- Magnification from 0.28X to 1.7X

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.

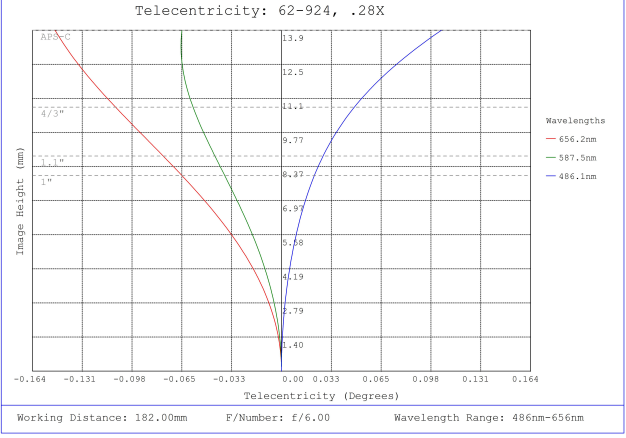
## Technical Information



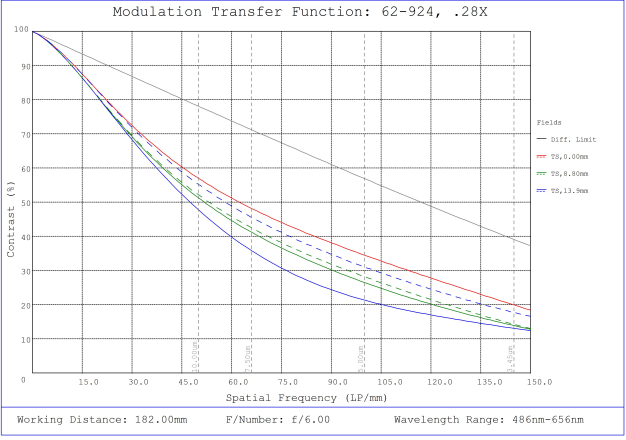
#62-924, 0.28X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Distortion Plot



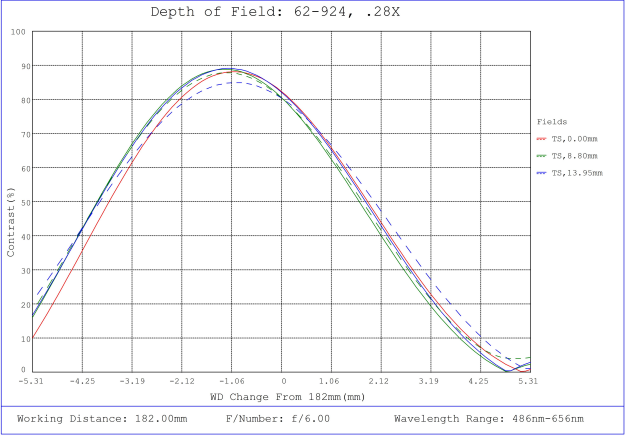
#62-924, 0.28X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Relative Illumination Plot



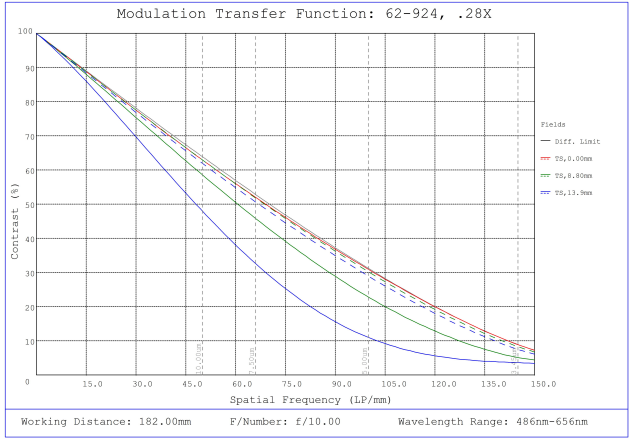
#62-924, 0.28X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Telecentricity Plot



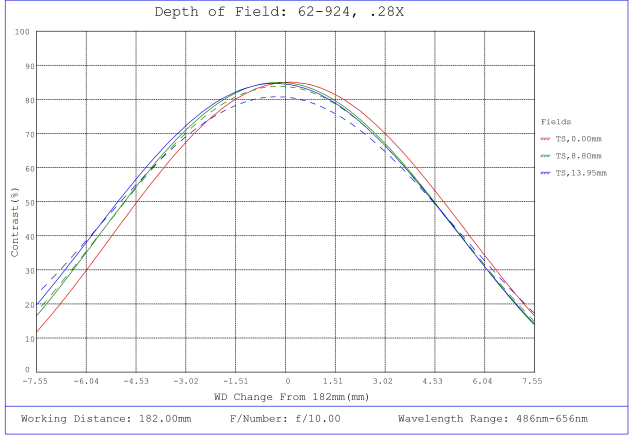
#62-924, 0.28X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 182mm Working Distance, f6



#62-924, 0.28X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Depth of Field Plot, 182mm Working Distance, f6



#62-924, 0.28X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 182mm Working Distance, f10



#62-924, 0.28X, 28.7mm M42 x 1.0 (19.53mm) PlatinumTL™ Telecentric Lens, Depth of Field Plot, 182mm 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              |

