

TECHSPEC® 0.5X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens



0.5X Magnification

Stock #62-913 20+ In Stock

-

1

+

€3.115<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | €3.115,00 each                |
| Need More?     | <a href="#">Request Quote</a> |

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Series:

PlatinumTL™ Series

Stock No. of Mounting Clamp:

#63-441 Sold Separately

Type:

Telecentric Lens

Physical & Mechanical Properties

Iris Option:

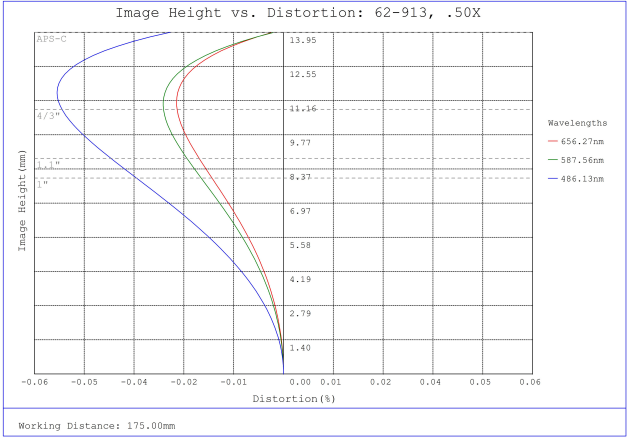
|                                |                                         |
|--------------------------------|-----------------------------------------|
| Variable                       |                                         |
| 184.00                         | Length (mm):                            |
| 90.0                           | Maximum Diameter (mm):                  |
| 1096                           | Weight (g):                             |
| 6.56                           | Flange Distance (mm):                   |
| Optical Properties             |                                         |
| 44.8mm                         | Horizontal Field of View, APS-C Sensor: |
| 57.4mm                         | Field of View, 28.7mm Sensor:           |
| 34.6mm                         | Horizontal Field of View, 4/3" Sensor:  |
| 28.4mm                         | Horizontal Field of View, 1.1" Sensor:  |
| 25.6mm                         | Horizontal Field of View, 1" Sensor:    |
| 17.70mm                        | Horizontal Field of View, 2/3" Sensor:  |
| 12.8mm                         | Horizontal Field of View, 1/2" Sensor:  |
| 28.70                          | Maximum Image Circle (mm):              |
| 0.041                          | Numerical Aperture NA, Object Side:     |
| 10 (7)                         | Number of Elements (Groups):            |
| <0.055                         | Typical Telecentricity @ 588nm (°):     |
| <0.020                         | Typical Distortion @ 588nm (%):         |
| 0.5X                           | Primary Magnification PMAG:             |
| 0.50                           | Telecentric Lens Magnification:         |
| 175.00                         | Working Distance (mm):                  |
| 44.8 x 33.6                    | FOV @ Max Sensor Format, H x V (mm):    |
| f/6 - f/22                     | Aperture (f/#):                         |
| 425 - 675nm BBAR               | Coating:                                |
| ±2.05 at f/10 (20% @ 20 lp/mm) | Depth of Field (mm):                    |
| 0.5X                           | Magnification:                          |
| VIS                            | Lens Wavelength Range:                  |
| Sensor                         |                                         |
| APS-C                          | Maximum Sensor Format:                  |
| 2.74                           | Pixel Size (µm):                        |
| Threading & Mounting           |                                         |
| M86 x 1.00 (Female)            | Filter Thread:                          |
| M42 x 1.0                      | Mount:                                  |
| Regulatory Compliance          |                                         |
| <a href="#">View</a>           | Certificate of Conformance:             |

## Product Details

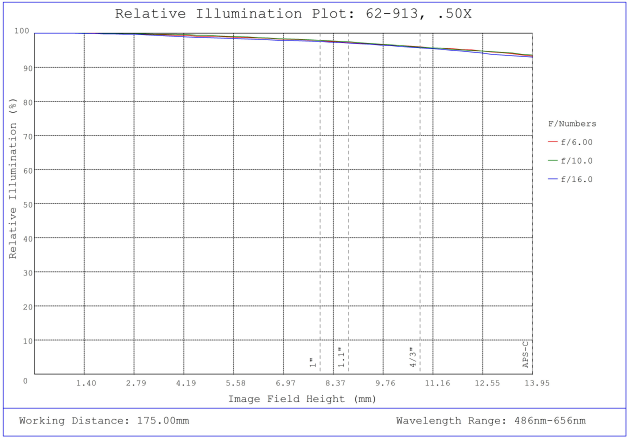
- High Resolution f/6 Bi-Telecentric Lens for Measurement
- Up to 35 MegaPixels, 2.8µm Pixel Size Sensors
- APS-C, C-Mount, T-Mount, F-Mount Telecentric Lens
- Magnification from 0.28X to 1.7X

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.

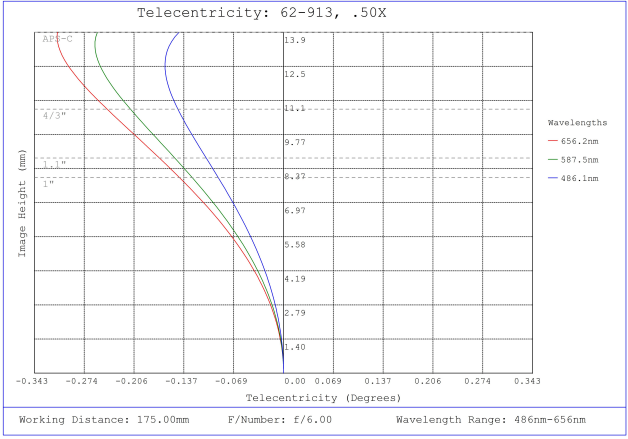
## Technical Information



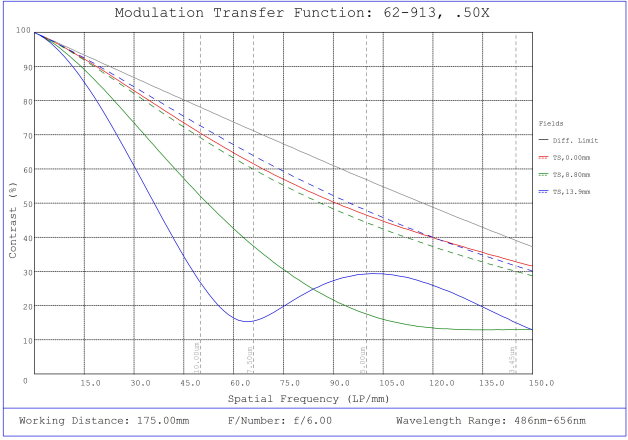
#62-913, 0.5X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Distortion Plot



#62-913, 0.5X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Relative Illumination Plot



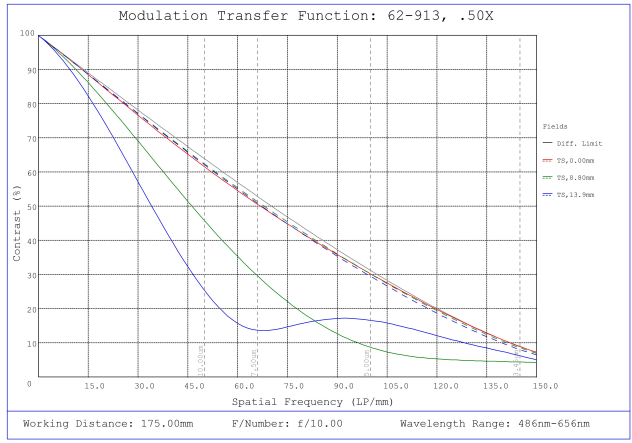
#62-913, 0.5X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Telecentricity Plot



#62-913, 0.5X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 175mm Working Distance, f6



#62-913, 0.5X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Depth of Field Plot, 175mm Working Distance, f6



#62-913, 0.5X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 175mm Working Distance, f10



#62-913, 0.5X, 28.7mm M42 x 1.0 (6.56mm) PlatinumTL™ Telecentric Lens, Depth of Field Plot, 175mm 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              |

