

TECHSPEC® 0.18X ½" GoldTL™ Telecentric Lens



#58-258 (0.18X)

Stock **#58-258** 20+ In Stock

-

1

+

S\$3,028<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | S\$3,028.00 each              |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

SPECIFICATIONS

General

GoldTL™ Series

Series:

[#56-026](#) Sold Separately

Stock No. of Mounting Clamp:

Telecentric Lens

Type:

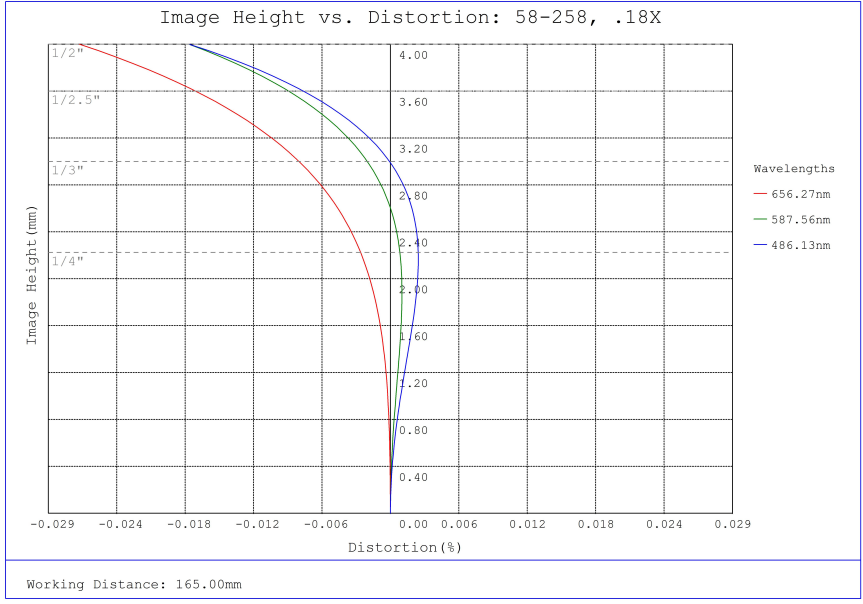
|                                  |                                        |
|----------------------------------|----------------------------------------|
| Focusable Telecentric            | Special Type of Lens:                  |
| Physical & Mechanical Properties |                                        |
| Variable                         | Iris Option:                           |
| 196.30                           | Length (mm):                           |
| 196.30                           | Length excluding Threads (mm):         |
| 79.00                            | Maximum Diameter (mm):                 |
| 1.45                             | Weight (kg):                           |
| Optical Properties               |                                        |
| 35.6mm                           | Horizontal Field of View, 1/2" Sensor: |
| 8.00                             | Maximum Image Circle (mm):             |
| 0.015                            | Numerical Aperture NA, Object Side:    |
| >60% @ 40 lp/mm                  | Resolution, Image Space MTF @ f/10:    |
| 10 (7)                           | Number of Elements (Groups):           |
| <0.040                           | Typical Telecentricity @ 588nm (°):    |
| 0.045                            | Typical Distortion @ 588nm (%):        |
| 0.18X                            | Primary Magnification PMAG:            |
| 0.18                             | Telecentric Lens Magnification:        |
| 161 - 186                        | Working Distance (mm):                 |
| 35.6 x 26.7                      | FOV @ Max Sensor Format, H x V (mm):   |
| f/6 - f/18                       | Aperture (f/#):                        |
| N/4 MgF <sub>2</sub>             | Coating:                               |
| ±15.5 at f/10 (20% @ 20 lp/mm)   | Depth of Field (mm):                   |
| 0.18X                            | Magnification:                         |
| VS                               | Lens Wavelength Range:                 |
| Sensor                           |                                        |
| 1/2"                             | Maximum Sensor Format:                 |
| 2.74                             | Pixel Size (µm):                       |
| Threading & Mounting             |                                        |
| M72 x 0.75 (Female)              | Filter Thread:                         |
| C-Mount                          | Mount:                                 |
| Regulatory Compliance            |                                        |
| <a href="#">View</a>             | Certificate of Conformance:            |

## PRODUCT DETAILS

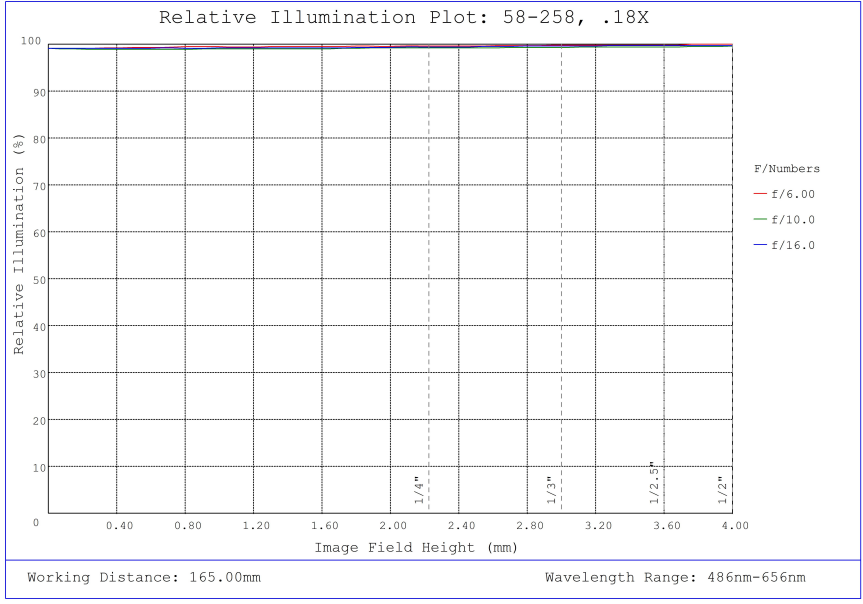
- High Resolution Telecentric Lens for Measurement and Gauging
- Up to 5 MegaPixels, 3.45µm Pixel Size Sensors
- Up to 2/3", C-Mount Telecentric Lens
- Magnification from 0.06X to 1X

TECHSPEC® GoldTL™ Telecentric Lenses were designed specifically for machine vision and metrology applications. The unique focusable design allows for working distance adjustment, while still providing <0.2° telecentricity. These lenses also feature high resolutions, low distortions, and are available for ½" or 2/3" sensors. TECHSPEC® GoldTL™ Telecentric Lenses have a front filter thread for easy integration of [color filters](#), [polarizers](#) or other mounted components. Both the iris and focusing adjustment positions can be fixed by set screws to remain secure in high vibration environments.

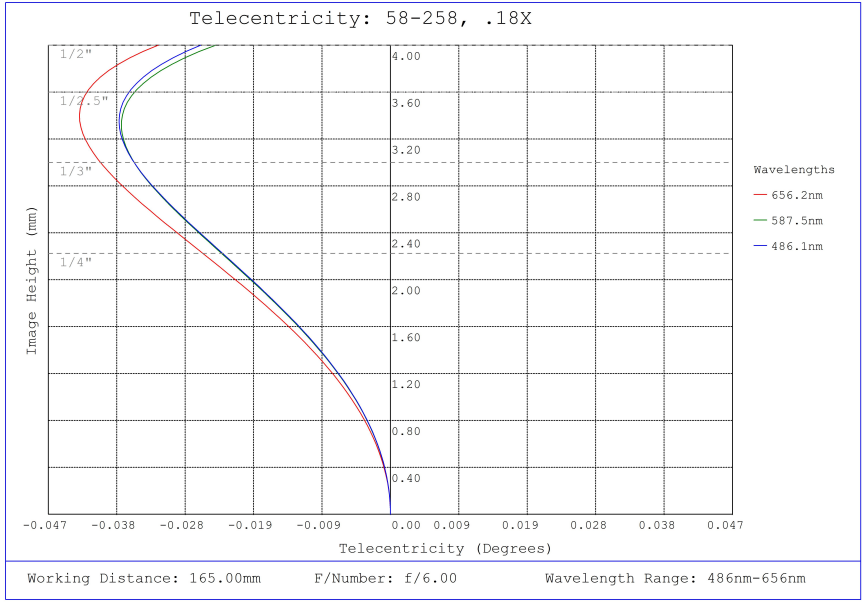
TECHNICAL INFORMATION



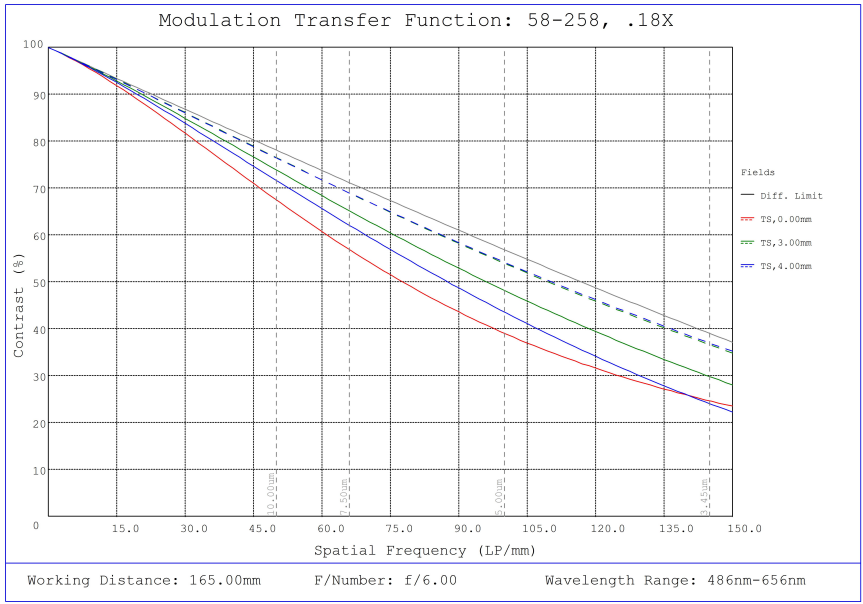
#58-258, 0.18X 1/2" GoldTL™ Telecentric Lens, Distortion Plot



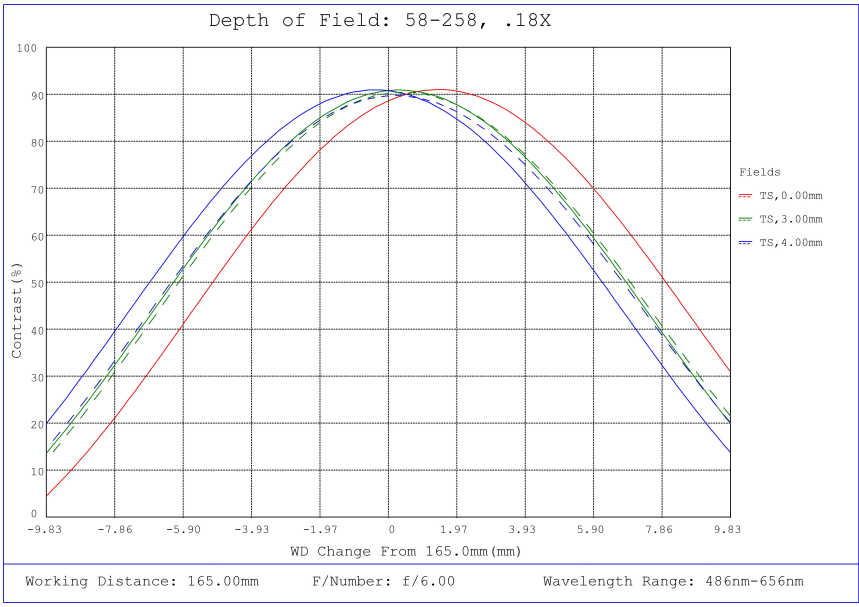
#58-258, 0.18X 1/2" GoldTL™ Telecentric Lens, Relative Illumination Plot



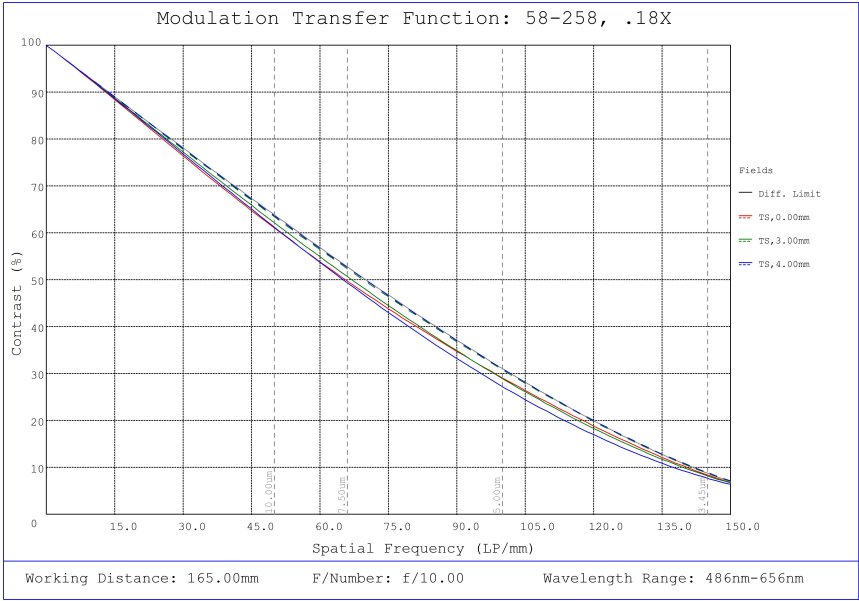
#58-258, 0.18X 1/2" GoldTL™ Telecentric Lens, Telecentricity Plot



#58-258, 0.18X 1/2" GoldTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 165mm Working Distance, f6



#58-258, 0.18X ½" GoldTL™ Telecentric Lens, Depth of Field Plot, 165mm Working Distance, f6



#58-258, 0.18X ½" GoldTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 165mm Working Distance, f10



#58-258, 0.18X ½" GoldTL™ Telecentric Lens, Depth of Field Plot, 165mm Working Distance, f10

| Stock No. | A     | B      | C      | D     | E     | F       | G      |
|-----------|-------|--------|--------|-------|-------|---------|--------|
| #56-024   | 88mm  | 16mm   | 34mm   | 94mm  | 120mm | 101.6mm | 50mm   |
| #56-025   | 85mm  | 17.5mm | 32.5mm | 91mm  | 120mm | 101.6mm | 48.5mm |
| #56-026   | 103mm | —      | 39.5mm | 107mm | 103mm | 90mm    | 55.5mm |
| #56-027   | 134mm | —      | 55mm   | 148mm | 134mm | 122mm   | 81mm   |

