

TECHSPEC<sup>®</sup> 0.16X SilverTL<sup>™</sup> Telecentric Lens



0.16X Magnification



Stock **#56-675** 20+ In Stock

-

1

+

S\$788<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | S\$788.00 each                |
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SPECIFICATIONS

General

Series:

SilverTL<sup>™</sup> Series

Stock No. of Mounting Clamp:

**#56-871** Sold Separately

Type:

|                                  |                                        |
|----------------------------------|----------------------------------------|
| Telecentric Lens                 |                                        |
| Physical & Mechanical Properties |                                        |
| Variable                         | Iris Option:                           |
|                                  |                                        |
| 191.00                           | Length (mm):                           |
|                                  |                                        |
| 191.00                           | Length excluding Threads (mm):         |
|                                  |                                        |
| 65.00                            | Maximum Diameter (mm):                 |
|                                  |                                        |
| 416                              | Weight (g):                            |
|                                  |                                        |
| Anodized Aluminum                | Construction:                          |
|                                  |                                        |
| Optical Properties               |                                        |
| 40mm                             | Horizontal Field of View, 1/2" Sensor: |
|                                  |                                        |
| 30mm                             | Horizontal Field of View, 1/3" Sensor: |
|                                  |                                        |
| 8.00                             | Maximum Image Circle (mm):             |
|                                  |                                        |
| 0.008                            | Numerical Aperture NA, Object Side:    |
|                                  |                                        |
| ±3                               | Working Distance Tolerance (mm):       |
|                                  |                                        |
| >40% @ 40 lp/mm                  | Resolution, Image Space MTF @ f/10:    |
|                                  |                                        |
| 8 (6)                            | Number of Elements (Groups):           |
|                                  |                                        |
| <0.030                           | Typical Telecentricity @ 588nm (°):    |
|                                  |                                        |
| <0.015                           | Typical Distortion @ 588nm (%):        |
|                                  |                                        |
| 0.16X                            | Primary Magnification PMAG             |
|                                  |                                        |
| 0.16                             | Telecentric Lens Magnification:        |
|                                  |                                        |
| 177.00                           | Working Distance (mm):                 |
|                                  |                                        |
| 40.0 x 30.0                      | FOV @ Max Sensor Format, H x V (mm):   |
|                                  |                                        |
| f/6 - f/22                       | Aperture (f/#):                        |
|                                  |                                        |
| 425 - 675nm BBAR                 | Coating:                               |
|                                  |                                        |
| ±19.74 at f/10 (20% @ 20 lp/mm)  | Depth of Field (mm):                   |
|                                  |                                        |
| 0.16X                            | Magnification:                         |
|                                  |                                        |
| VS                               | Lens Wavelength Range:                 |
|                                  |                                        |
| Sensor                           |                                        |
| 1/2"                             | Maximum Sensor Format:                 |
|                                  |                                        |
| 2.74                             | Pixel Size (µm):                       |
|                                  |                                        |
| Threading & Mounting             |                                        |
| M62 x 0.75 (Female)              | Filter Thread:                         |
|                                  |                                        |
| C-Mount                          | Mount:                                 |
|                                  |                                        |
| Regulatory Compliance            |                                        |
| Compliant                        | RoHS 2015:                             |
|                                  |                                        |
| View                             | Certificate of Conformance:            |
|                                  |                                        |
| Compliant                        | REACH 241:                             |
|                                  |                                        |

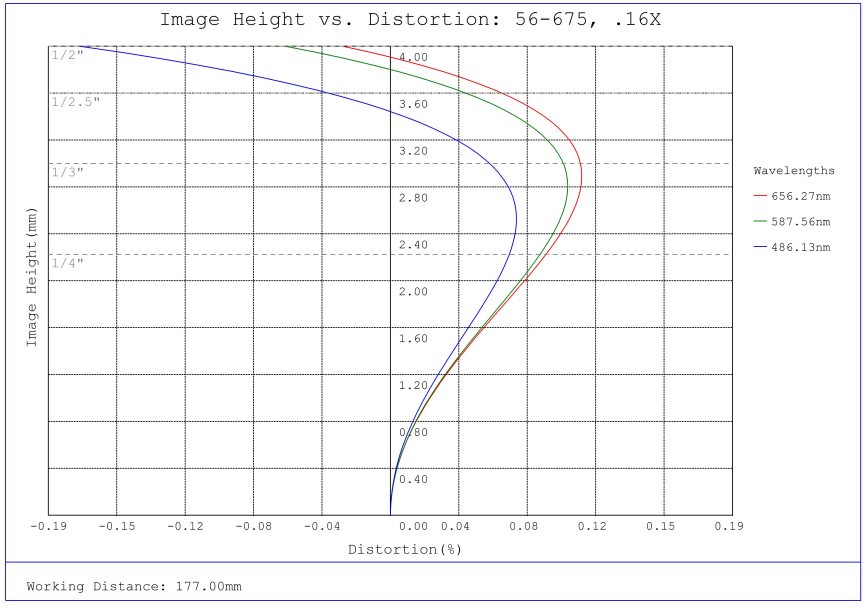
## PRODUCT DETAILS

- High Resolution f/6 Bi-Telecentric Lens with Inline Illumination Options
- Up to 7.5 MegaPixels, 2.8µm Pixel Size Sensors
- Up to 2/3", C-Mount Telecentric Lens
- Magnification from 0.16X to 4X

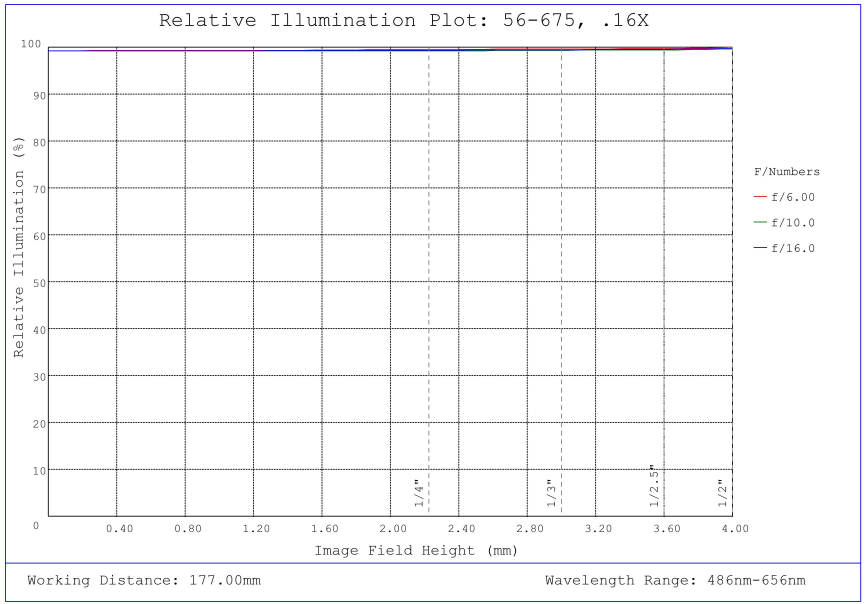
TECHSPEC® SilverTL™ Telecentric Lenses are ideal for both on-line and off-line machine vision production applications that require accurate measurements. These lenses combine high-quality optics with a simplified non-focusing mechanical design and an adjustable iris with a locking set screw. These lenses are designed for metrology and gauging applications. TECHSPEC® SilverTL™ Telecentric Lenses also offer inline illumination options for maximum versatility. Each lens also features a standard front filter thread for use with [color filters](#), [polarizers](#), [protective windows](#), and [illumination adapters](#) for LED or fiber-optic ring lights.

**Note:** Mounting brackets are available that fit the 30mm diameter mounting surface.

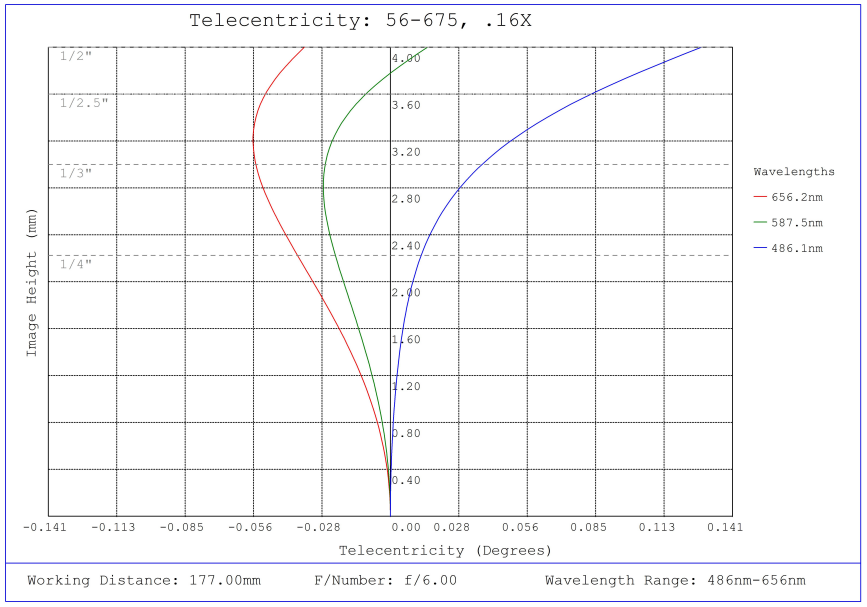
## TECHNICAL INFORMATION



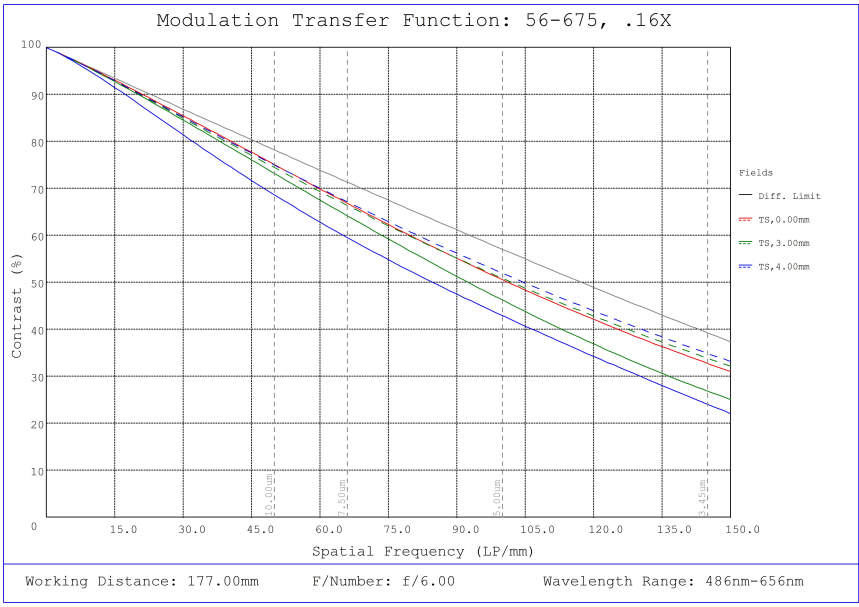
#56-675, 0.16X SilverTL™ Telecentric Lens, Distortion Plot



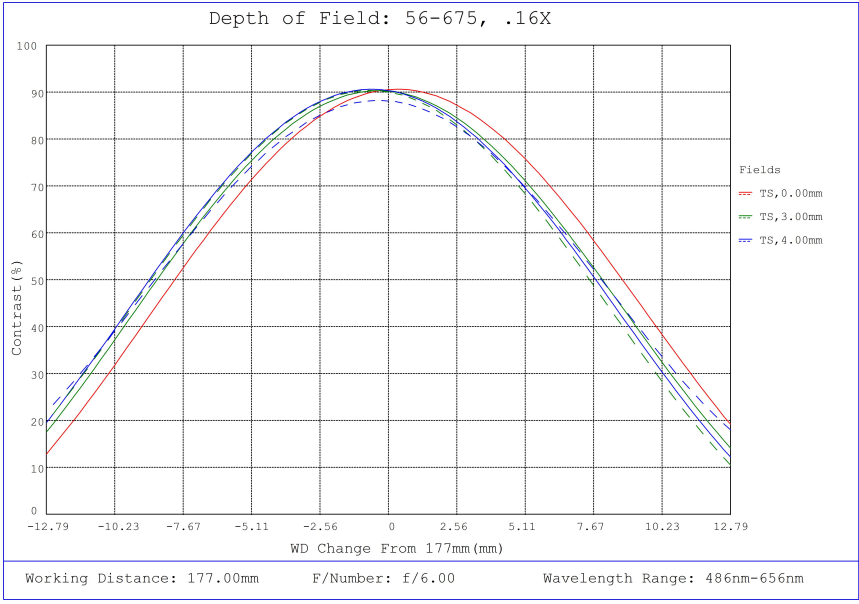
#56-675, 0.16X SilverTL™ Telecentric Lens, Relative Illumination Plot



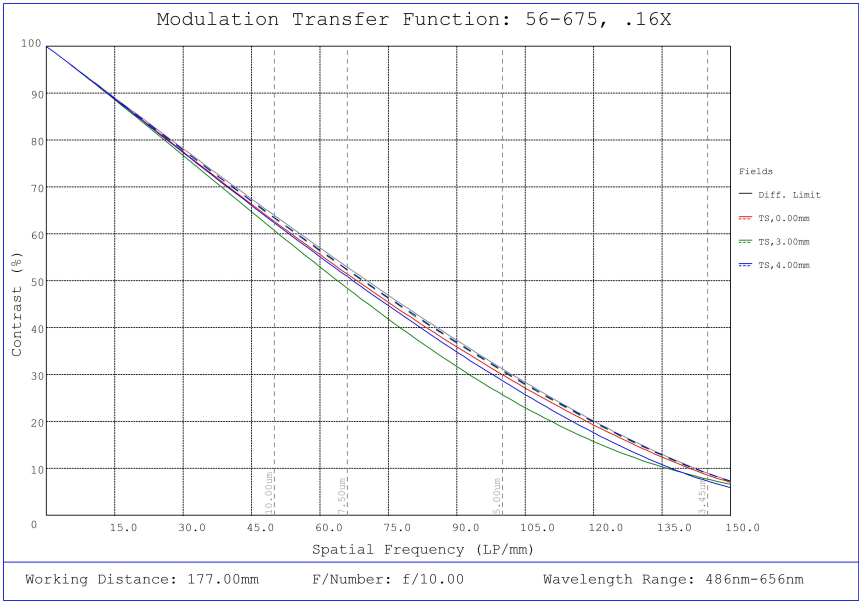
#56-675, 0.16X SilverTL™ Telecentric Lens, Telecentricity Plot



#56-675, 0.16X SilverTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 177mm Working Distance, f6



#56-675, 0.16X SilverTL™ Telecentric Lens, Depth of Field Plot, 177mm Working Distance, f6



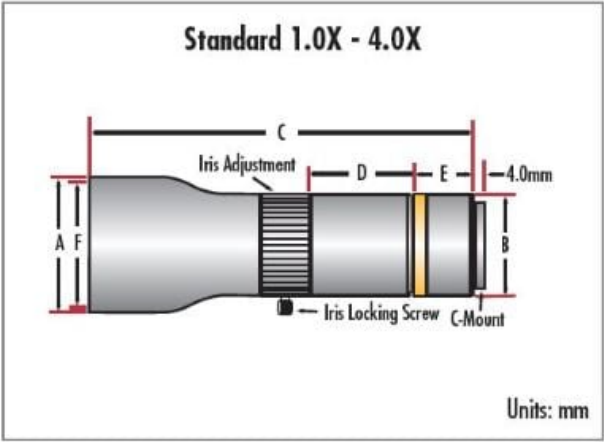
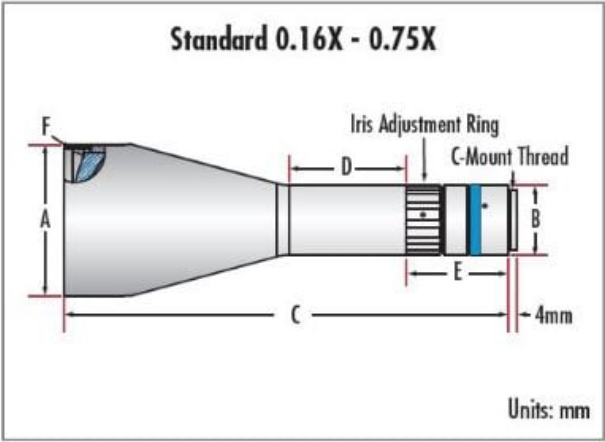
#56-675, 0.16X SilverTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 177mm Working Distance, f10



#56-675, 0.16X SilverTL™ Telecentric Lens, Depth of Field Plot, 177mm Working Distance, f10

| Stock Number | Primary Mag. | Max Diameter A | Mounting Diameter B | Length C | Mounting Length D | Mounting Offset E | Filter Thread F |
|--------------|--------------|----------------|---------------------|----------|-------------------|-------------------|-----------------|
| #56-675      | 0.16X        | 65mm           | 30mm                | 191mm    | 50mm              | 43mm              | M62 x0.75       |

|                   |       |      |      |         |        |        |             |
|-------------------|-------|------|------|---------|--------|--------|-------------|
| #63-073           | 0.20X | 60mm | 30mm | 188mm   | 42mm   | 45mm   | M58 x 0.75  |
| #56-676           | 0.25X | 48mm | 30mm | 158mm   | 49mm   | 44mm   | M46 x 0.75  |
| #58-428           | 0.30X | 46mm | 30mm | 158mm   | 60mm   | 43mm   | M43 x 0.75  |
| #56-677           | 0.40X | 45mm | 30mm | 159mm   | 67mm   | 33mm   | M43 x 0.75  |
| #63-074           | 0.50X | 40mm | 30mm | 153mm   | 42mm   | 68mm   | M37 x 0.75  |
| #88-344 (In-Line) |       |      |      | 156.2mm | 45.1mm | 73.4mm |             |
| #56-678           | 0.60X | 42mm | 30mm | 156mm   | 57mm   | 46mm   | M40.5 x 0.5 |
| #67-731           | 0.75X | 36mm | 30mm | 151.2mm | 34mm*  | 82.2mm | M30.5 x 0.5 |
| #88-346 (In-Line) |       |      |      | 155.2mm | 46.2mm | 16.9mm |             |
| #58-430           | 1.0X  | 40mm | 30mm | 114mm   | 32mm*  | 17mm   | M37 x 0.75  |
| #58-431           | 2.0X  | 45mm | 30mm | 141mm   | 45mm   | 17mm   | M43 x 0.75  |
| #88-348 (In-Line) |       |      |      | 144.6mm | 42.2mm | 18.8mm |             |
| #58-432           | 4.0X  | 61mm | 30mm | 249mm   | 99mm   | 17mm   | M58 x 0.75  |



\*Mounting clamp fits over iris