

TECHSPEC<sup>®</sup> 0.40X SilverTL™ Telecentric Lens



0.40X Magnification



Stock **#56-677** [CONTACT US](#)

-

1

+

€1.125<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | €1.125,00 each                |
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

SilverTL™ SeriesSeries:

|                                                         |                                          |
|---------------------------------------------------------|------------------------------------------|
| Stock No. of Mounting Clamp:<br>#56-870 Sold Separately |                                          |
| Telecentric Lens                                        | Type:                                    |
| Physical & Mechanical Properties                        |                                          |
| Variable                                                | Iris Option:                             |
| 159.00                                                  | Length (mm):                             |
| 159.00                                                  | Length excluding Threads (mm):           |
| 45.00                                                   | Maximum Diameter (mm):                   |
| 228                                                     | Weight (g):                              |
| Anodized Aluminum                                       | Construction:                            |
| Optical Properties                                      |                                          |
| 18mm                                                    | Horizontal Field of View, 1/1.8" Sensor: |
| 16mm                                                    | Horizontal Field of View, 1/2" Sensor:   |
| 12mm                                                    | Horizontal Field of View, 1/3" Sensor:   |
| 9.00                                                    | Maximum Image Circle (mm):               |
| 0.033                                                   | Numerical Aperture NA, Object Side:      |
| ±3                                                      | Working Distance Tolerance (mm):         |
| >40% @ 40 lp/mm                                         | Resolution, Image Space MTF @ f/10:      |
| 7 (4)                                                   | Number of Elements (Groups):             |
| <0.015                                                  | Typical Telecentricity @ 588nm (°):      |
| <0.020                                                  | Typical Distortion @ 588nm (%):          |
| 0.4X                                                    | Primary Magnification PMAG:              |
| 0.40                                                    | Telecentric Lens Magnification:          |
| 103.00                                                  | Working Distance (mm):                   |
| 18.0 x 13.5                                             | FOV @ Max Sensor Format, H x V (mm):     |
| f/6 - f/22                                              | Aperture (f/#):                          |
| 425 - 675nm BBAR                                        | Coating:                                 |
| ±3.0 at f/10 (20% @ 20 lp/mm)                           | Depth of Field (mm):                     |
| 0.4X                                                    | Magnification:                           |
| VS                                                      | Lens Wavelength Range:                   |
| Sensor                                                  |                                          |
| 1/1.8"                                                  | Maximum Sensor Format:                   |
| 2.74                                                    | Pixel Size (µm):                         |
| Threading & Mounting                                    |                                          |
| M43 x 0.75 (Female)                                     | Filter Thread:                           |
| C-Mount                                                 | Mount:                                   |
| Regulatory Compliance                                   |                                          |
| Compliant                                               | RoHS 2015:                               |

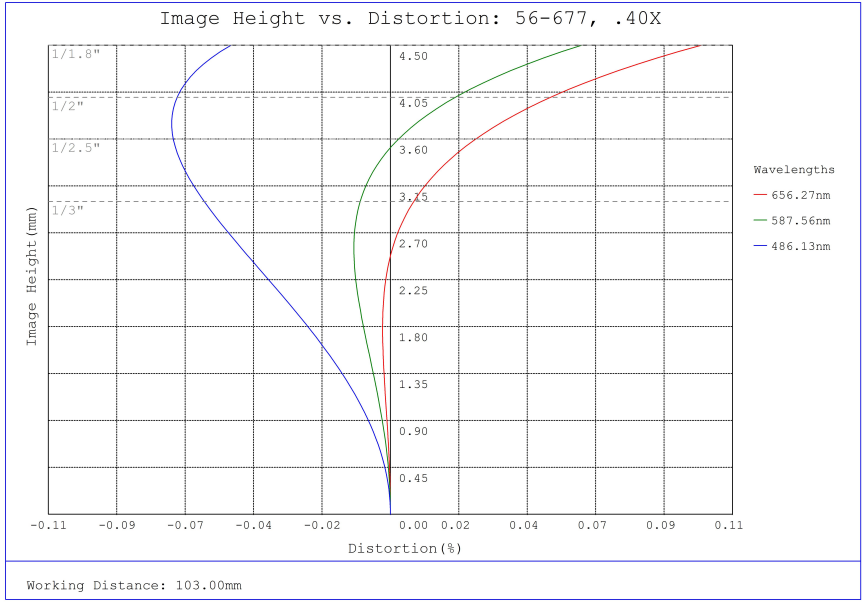
PRODUCT DETAILS

- 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

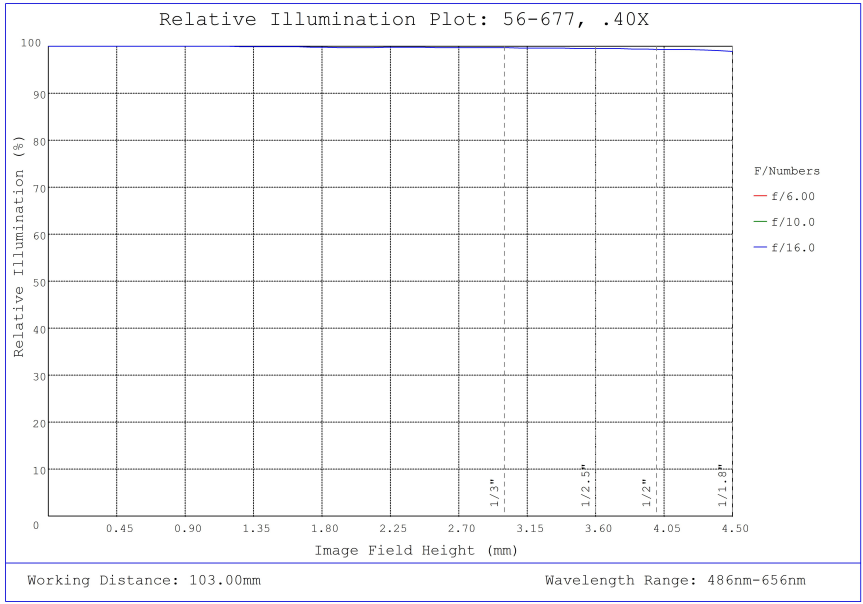
TECHSPEC® SilverTL™ Telecentric Lenses are ideal for both on-line and off-line machine vision production applications that require accurate measurements. These lenses combine high-quality optics with a simplified non-focusing mechanical design and an adjustable iris with a locking set screw. These lenses 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.

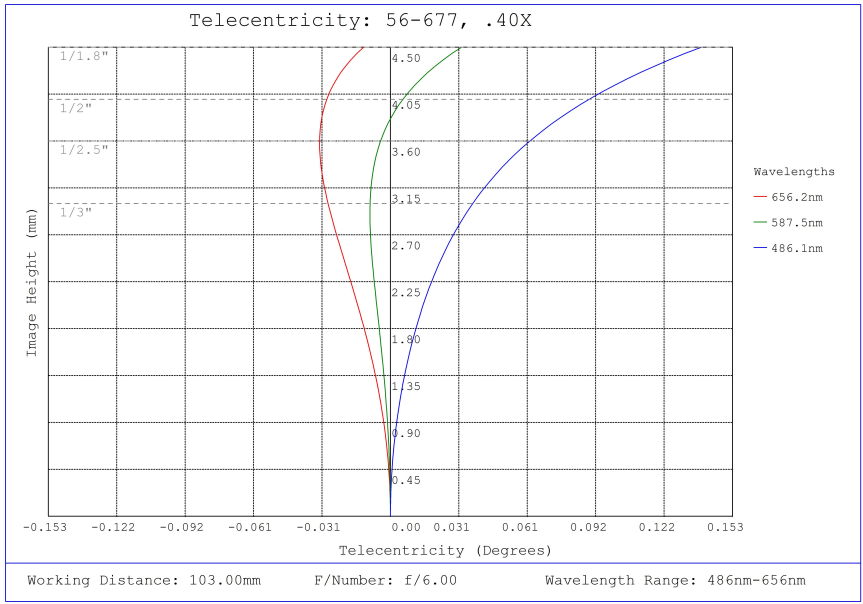
TECHNICAL INFORMATION



#56-677, 0.40X SilverTL™ Telecentric Lens, Distortion Plot



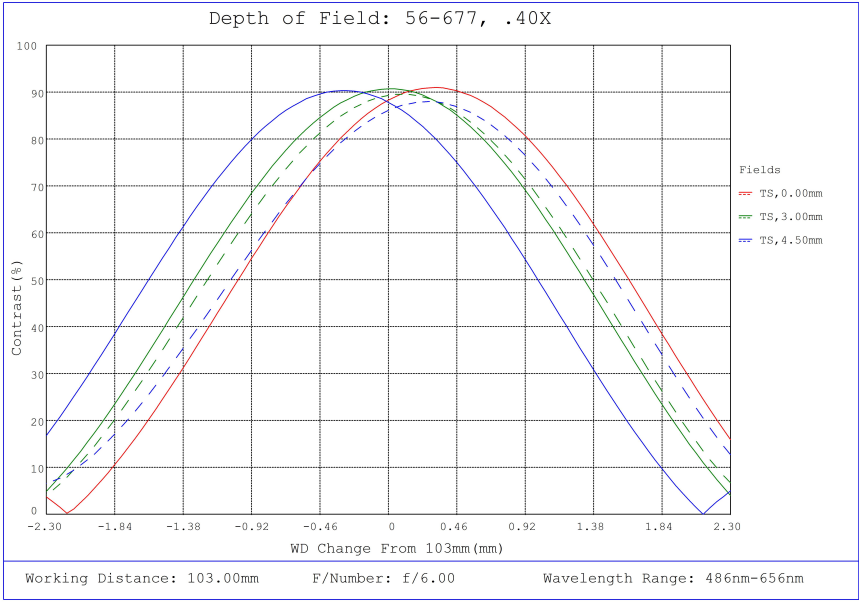
#56-677, 0.40X SilverTL™ Telecentric Lens, Relative Illumination Plot



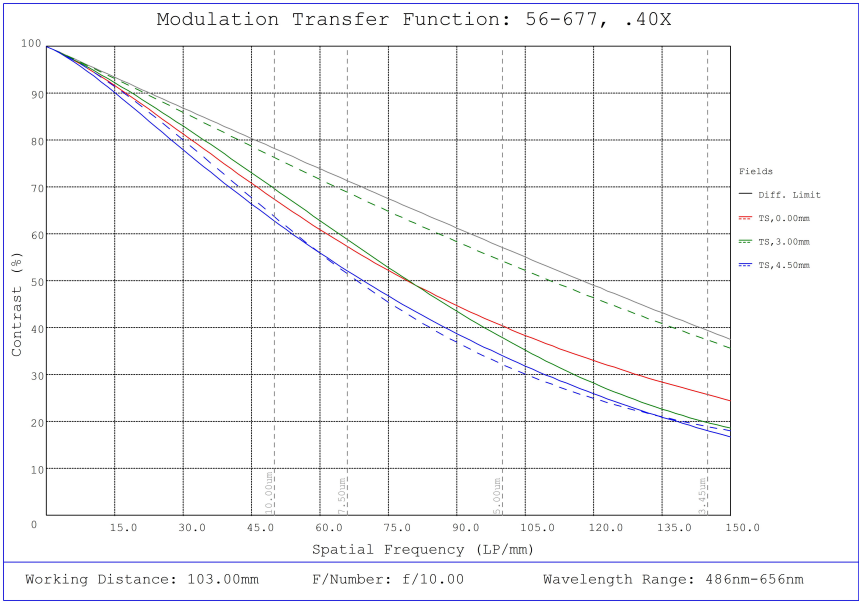
#56-677, 0.40X SilverTL™ Telecentric Lens, Telecentricity Plot



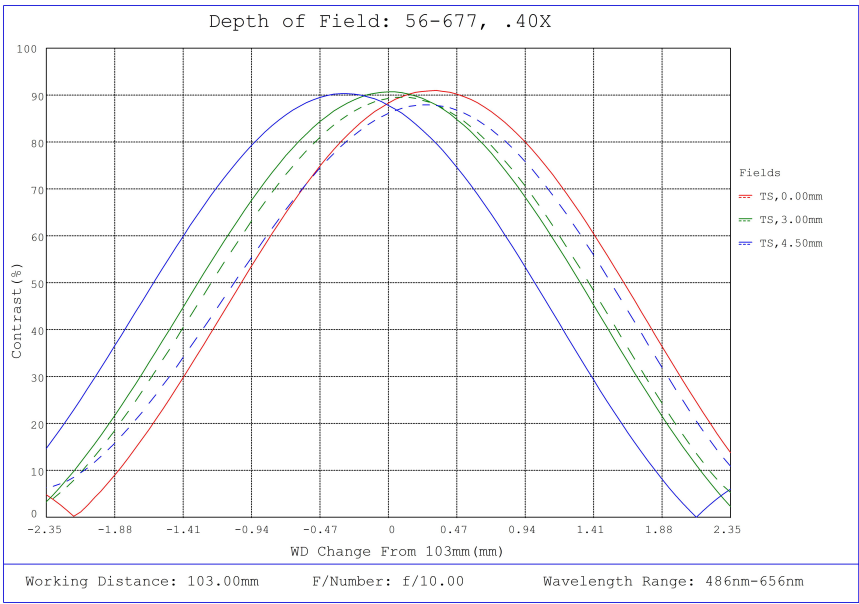
#56-677, 0.40X SilverTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 103mm Working Distance, f6



#56-677, 0.40X SilverTL™ Telecentric Lens, Depth of Field Plot, 103mm Working Distance, f6



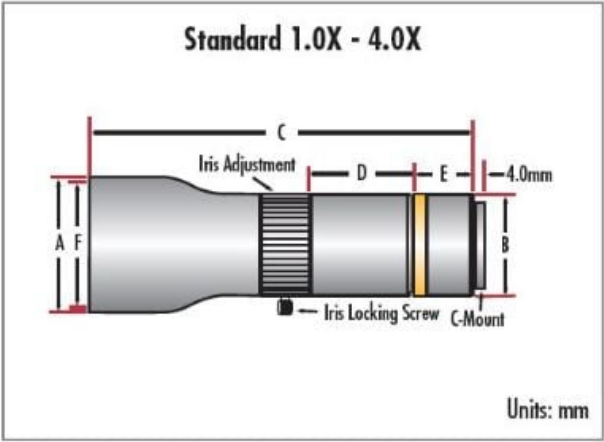
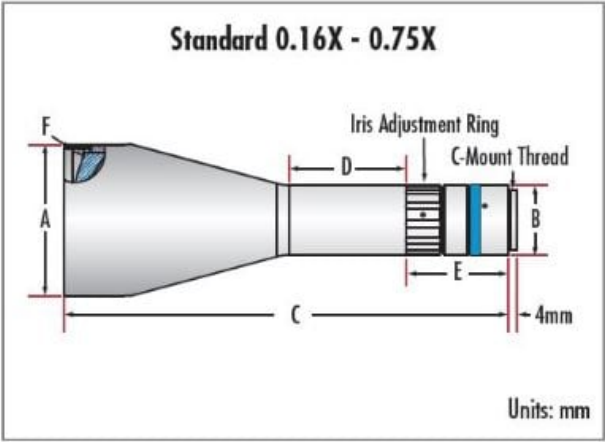
#56-677, 0.40X SilverTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 103mm Working Distance, f10



#56-677, 0.40X SilverTL™ Telecentric Lens, Depth of Field Plot, 103mm 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