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TECHSPEC®

1.0X SilverTL™ Telecentric Lens



1.0X Magnification



Stock #58-430

CONTACT US

-

1

+

€1.125<sup>00</sup>

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

Product Downloads

| General                                 |                              |
|-----------------------------------------|------------------------------|
| SilverTL™ Series                        | Product Family:              |
| <a href="#">#56-870</a> Sold Separately | Stock No. of Mounting Clamp: |
| Telecentric Lens                        | Type:                        |

| Physical & Mechanical Properties |                                        |
|----------------------------------|----------------------------------------|
| Variable                         | Iris Option:                           |
|                                  |                                        |
| 114.00                           | Length (mm):                           |
|                                  |                                        |
| 114.00                           | Length excluding Threads (mm):         |
|                                  |                                        |
| 40.00                            | Maximum Diameter (mm):                 |
|                                  |                                        |
| 193                              | Weight (g):                            |
|                                  |                                        |
| Anodized Aluminum                | Construction:                          |
|                                  |                                        |
| Optical Properties               |                                        |
| 8.8mm                            | Horizontal Field of View, 2/3" Sensor: |
|                                  |                                        |
| 6.4mm                            | Horizontal Field of View, 1/2" Sensor: |
|                                  |                                        |
| 4.8mm                            | Horizontal Field of View, 1/3" Sensor: |
|                                  |                                        |
| 11.00                            | Maximum Image Circle (mm):             |
|                                  |                                        |
| 0.082                            | Numerical Aperture NA, Object Side:    |
|                                  |                                        |
| ±3                               | Working Distance Tolerance (mm):       |
|                                  |                                        |
| >40% @ 40 lp/mm                  | Resolution, Image Space MTF @ f/10:    |
|                                  |                                        |
| 6 (5)                            | Number of Elements (Groups):           |
|                                  |                                        |
| <0.045                           | Typical Telecentricity @ 588nm (°):    |
|                                  |                                        |
| <0.060                           | Typical Distortion @ 588nm (%):        |
|                                  |                                        |
| 1X                               | Primary Magnification PMAG:            |
|                                  |                                        |
| 1.00                             | Telecentric Lens Magnification:        |
|                                  |                                        |
| 83.00                            | Working Distance (mm):                 |
|                                  |                                        |
| 8.8 x 6.6                        | FOV @ Max Sensor Format, H x V (mm):   |
|                                  |                                        |
| f/6 - f/22                       | Aperture (f/#):                        |
|                                  |                                        |
| 425 - 675nm BBAR                 | Coating:                               |
|                                  |                                        |
| ±0.5 at f/10 (20% @ 20 lp/mm)    | Depth of Field (mm):                   |
|                                  |                                        |
| 1X                               | Magnification:                         |
|                                  |                                        |
| VIS                              | Lens Wavelength Range:                 |
|                                  |                                        |
| Sensor                           |                                        |
| 2/3"                             | Maximum Sensor Format:                 |
|                                  |                                        |
| 2.74                             | Pixel Size (µm):                       |
|                                  |                                        |
| Threading & Mounting             |                                        |
| M37 x 0.75 (Female)              | Filter Thread:                         |
|                                  |                                        |
| C-Mount                          | Mount:                                 |
|                                  |                                        |
| Regulatory Compliance            |                                        |
| Compliant                        | RoHS 2015:                             |
|                                  |                                        |
| View                             | Certificate of Conformance:            |
|                                  |                                        |
| Compliant                        | REACH 241:                             |
|                                  |                                        |

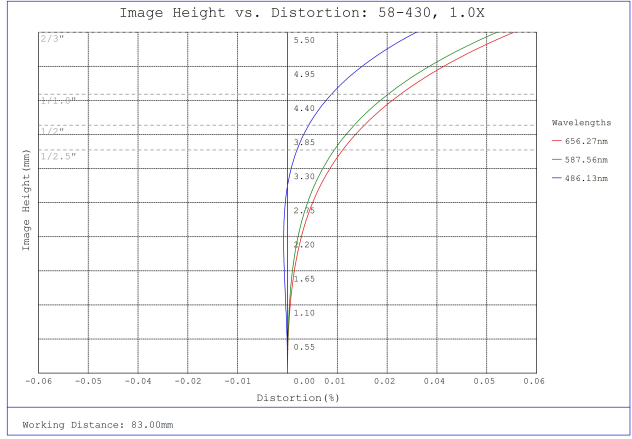
Product Details

- 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-Mbunt Telecentric Lens
- Magnification from 0.16X to 4X

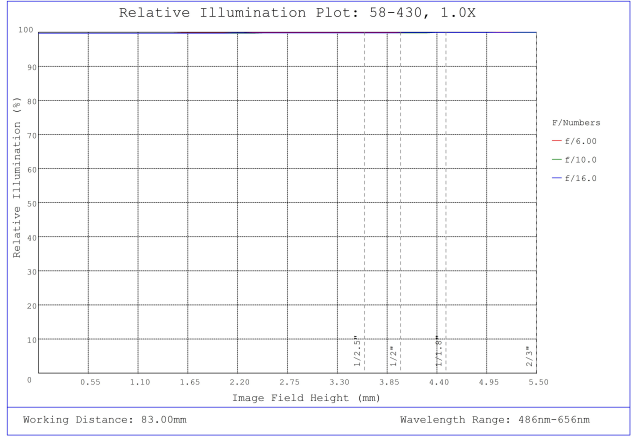
TECHSPEC® SilverTL™ Telecentric Lenses are ideal for both on-line and off-line machine vision production applications that require accurate measurements. These lenses combine high-quality optics with a simplified non-focusing mechanical design and an adjustable iris with a locking set screw. These lenses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

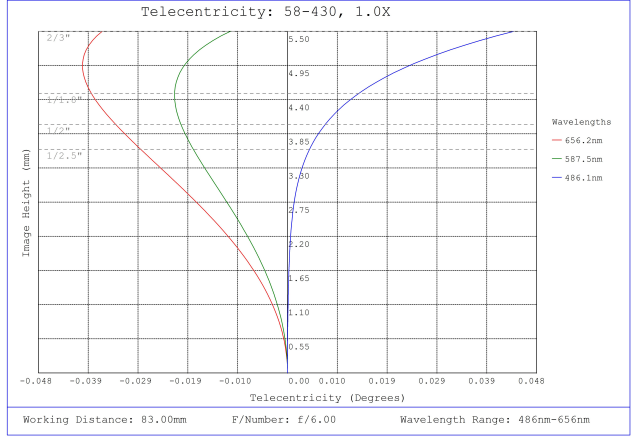
Technical Information



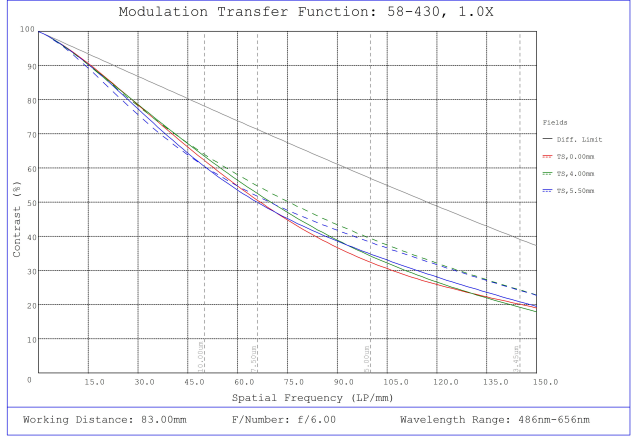
#58-430, 1.0X SilverTL™ Telecentric Lens, Distortion Plot



#58-430, 1.0X SilverTL™ Telecentric Lens, Relative Illumination Plot



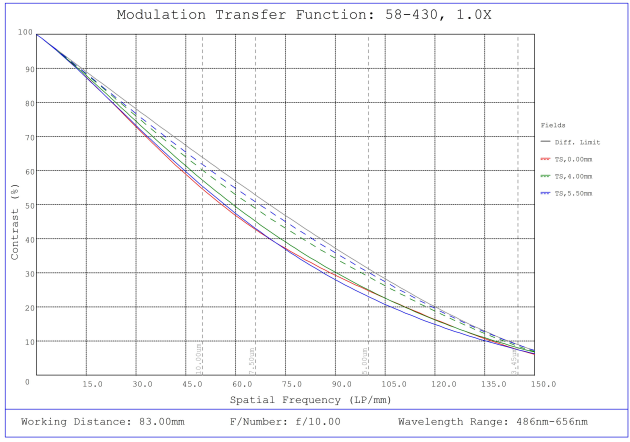
#58-430, 1.0X SilverTL™ Telecentric Lens, Telecentricity Plot



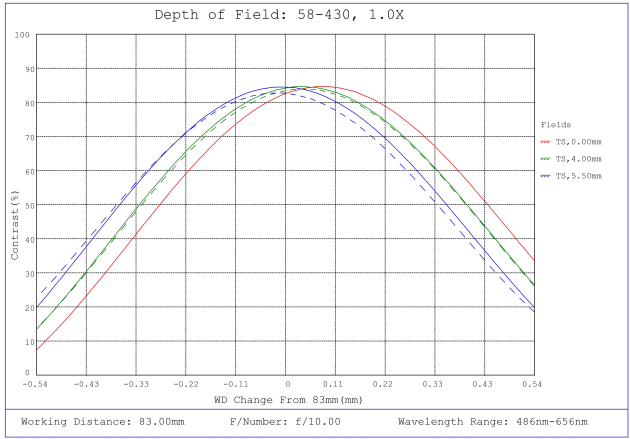
#58-430, 1.0X SilverTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 83mm Working Distance, f6



#58-430, 1.0X SilverTL™ Telecentric Lens, Depth of Field Plot, 83mm Working Distance, f6

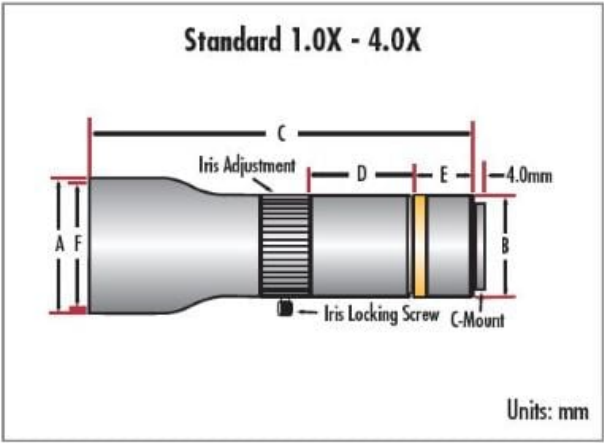
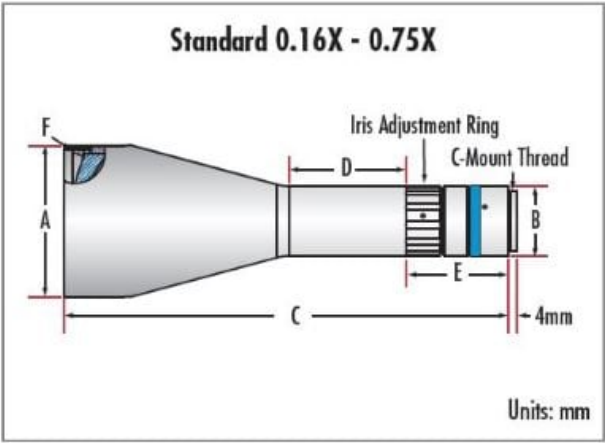


#58-430, 1.0X SilverTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 83mm Working Distance, f10



#58-430, 1.0X SilverTL™ Telecentric Lens, Depth of Field Plot, 83mm 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 x 0.75      |
| #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



