

**TECHSPEC® 0.75X SilverTL™ Telecentric Lens**



0.75X Magnification



Stock **#67-731** **20+ In Stock**

1  £900.<sup>00</sup>

**ADD TO CART**

Volume Pricing

|            |                               |
|------------|-------------------------------|
| Qty 1+     | £900.00 each                  |
| Need More? | <a href="#">Request Quote</a> |

**i** Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

SilverTL™ Series **Product Family:**

**Stock No. of Mounting Clamp:**  
[#56-870](#) Sold Separately

Telecentric Lens **Type:**

## Physical & Mechanical Properties

|                   |                                |
|-------------------|--------------------------------|
| Variable          | Iris Option:                   |
| 151.20            | Length (mm):                   |
| 151.20            | Length excluding Threads (mm): |
| 36.00             | Maximum Diameter (mm):         |
| 208               | Weight (g):                    |
| Anodized Aluminum | Construction:                  |

## Optical Properties

|                               |                                        |
|-------------------------------|----------------------------------------|
| 11.7mm                        | Horizontal Field of View, 2/3" Sensor: |
| 8.5mm                         | Horizontal Field of View, 1/2" Sensor: |
| 6.4mm                         | Horizontal Field of View, 1/3" Sensor: |
| 11.00                         | Maximum Image Circle (mm):             |
| 0.062                         | 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):           |
| <0.080                        | Typical Telecentricity @ 588nm (°):    |
| <0.080                        | Typical Distortion @ 588nm (%):        |
| 0.75X                         | Primary Magnification PMAG:            |
| 0.75                          | Telecentric Lens Magnification:        |
| 100.00                        | Working Distance (mm):                 |
| 11.7 x 8.8                    | FOV @ Max Sensor Format, H x V (mm):   |
| f/6 - f/22                    | Aperture (f/#):                        |
| 425 - 675nm BBAR              | Coating:                               |
| ±0.8 at f/10 (20% @ 20 lp/mm) | Depth of Field (mm):                   |
| 0.75X                         | Magnification:                         |
| VIS                           | Lens Wavelength Range:                 |

## Sensor

|      |                        |
|------|------------------------|
| 2/3" | Maximum Sensor Format: |
| 2.74 | Pixel Size (µm):       |

## Threading & Mounting

|                       |                |
|-----------------------|----------------|
| M30.5 x 0.50 (Female) | Filter Thread: |
| C-Mount               | Mount:         |

## Regulatory Compliance

|                           |                             |
|---------------------------|-----------------------------|
| <a href="#">Compliant</a> | RoHS 2015:                  |
| <a href="#">Compliant</a> | Reach 224:                  |
| <a href="#">View</a>      | Certificate of Conformance: |

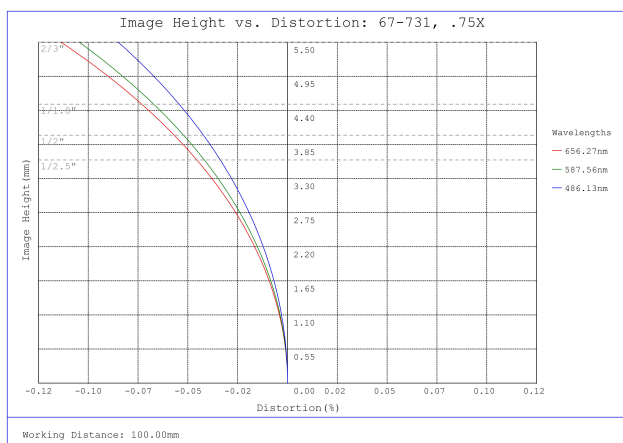
## Product Details

- 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

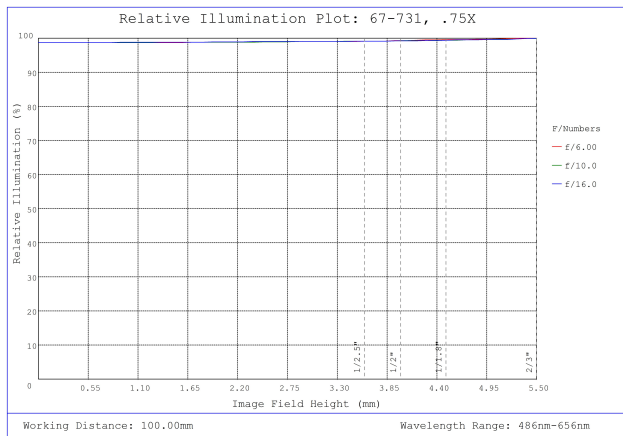
TECHSPEC® SilverTL™ Telecentric Lenses are ideal for both on-line and off-line machine vision production applications that require accurate measurements. These lenses combine high-quality optics with a simplified non-focusing mechanical design and an adjustable iris with a locking set screw. These lenses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

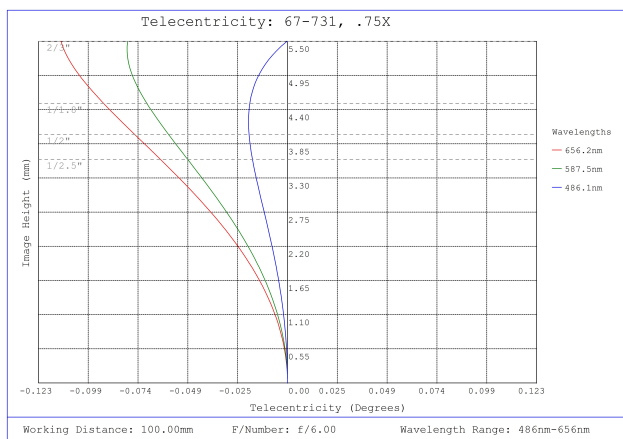
## Technical Information



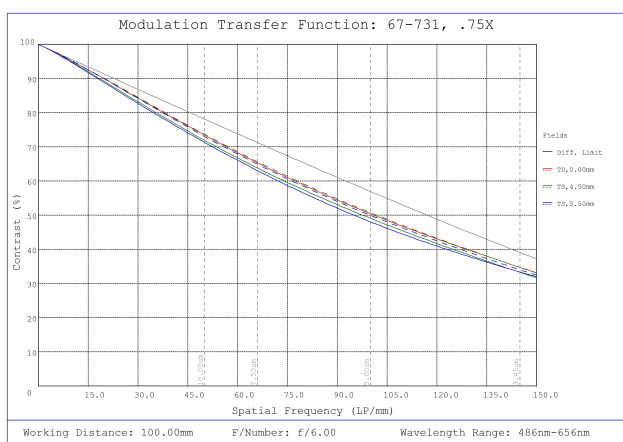
#67-731, 0.75X SilverTL™ Telecentric Lens, Distortion Plot



#67-731, 0.75X SilverTL™ Telecentric Lens, Relative Illumination Plot



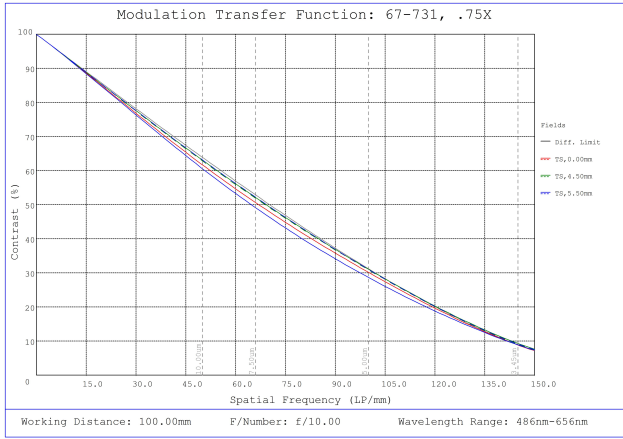
#67-731, 0.75X SilverTL™ Telecentric Lens, Telecentricity Plot



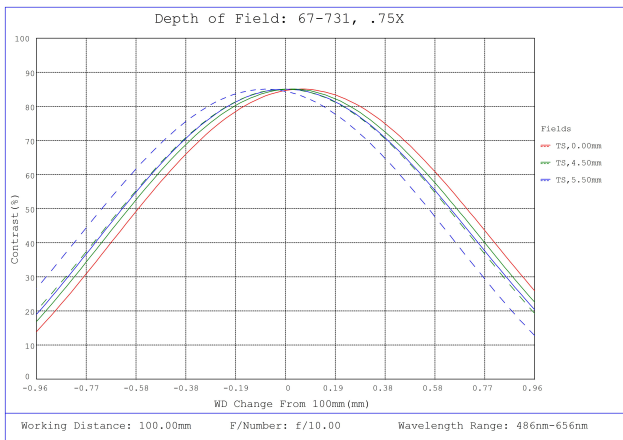
#67-731, 0.75X SilverTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 100mm Working Distance, f6



#67-731, 0.75X SilverTL™ Telecentric Lens, Depth of Field Plot, 100mm Working Distance, f6



#67-731, 0.75X SilverTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 100mm Working Distance, f10



#67-731, 0.75X SilverTL™ Telecentric Lens, Depth of Field Plot, 100mm 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

