

**TECHSPEC® 0.75X, 110mm WD, In-Line CompactTL™ Telecentric Lens**



110mm WD, 0.75X, In-Line Version (Left) and VIS Version (Right)



Stock #67-304 **13 In Stock**

1 C\$1,715.<sup>00</sup>

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**General**

CompactTL™ Series **Product Family:**  
Edmund Optics® **Manufacturer:**  
Telecentric Lens **Type:**  
**Compatible Light Guide/Source:**  
1/4" (0.312") and 1/8" (0.187")

In-Line Illumination      Type of Illumination:

## Physical & Mechanical Properties

Fixed      Iris Option:

160.01      Length (mm):

160.01      Length excluding Threads (mm):

29.5      Maximum Diameter (mm):

120      Weight (g):

## 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):

0.028      Numerical Aperture NA, Object Side:

±1      Working Distance Tolerance (mm):

5 (5)      Number of Elements (Groups):

0.061      Typical Telecentricity @ 588nm (°):

0.0212      Typical Distortion @ 588nm (%):

0.75X      Primary Magnification PMAG:

0.75      Telecentric Lens Magnification:

110      Working Distance (mm):

11.7 x 8.8      FOV @ Max Sensor Format, H x V (mm):

f/13.3      Aperture (f/#):

M4 MgF<sub>2</sub>      Coating:

±1.2mm (20% @ 20 lp/mm)      Depth of Field (mm):

0.75X      Magnification:

VS      Lens Wavelength Range:

## Sensor

2/3"      Maximum Sensor Format:

4.50      Pixel Size (µm):

## Threading & Mounting

M25.5 x 0.50 (Female)      Filter Thread:

C-Mount      Mount:

## Regulatory Compliance

[Compliant](#)      RoHS 2015:

[View](#)      Certificate of Conformance:

[Compliant](#)      REACH 241:

# Product Details

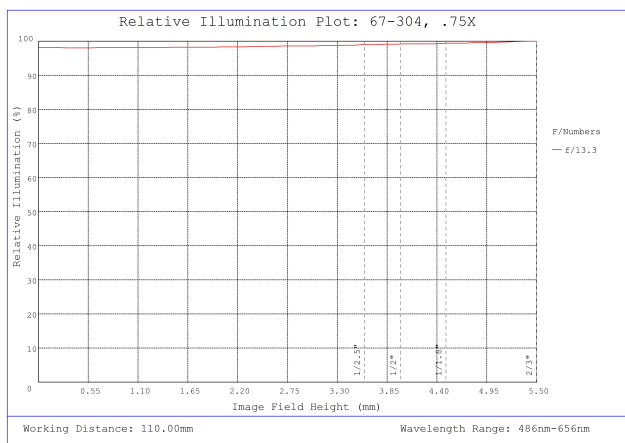
- 2/3", C-Mount Telecentric Lens
- Up to 2.3 MegaPixels, 4.5µm Pixel Size Sensors
- Small Telecentric Lens with Coaxial Illumination Options

TECHSPEC® CompactTL™ Telecentric Lenses are designed for applications with tight space constraints due to their ultra-compact design. These lenses feature a 2/3" sensor format and a variety of different working distance and magnification options. From single unit to high volume implementation, these lenses provide a great price to performance ratio. TECHSPEC® CompactTL™ Telecentric Lenses are perfect for integration into gauging systems due to their excellent telecentricity and low distortion. The fixed iris and lockable focus make these lenses ideal for implementation into factory floors and assembly lines, as they will remain fixed over time.

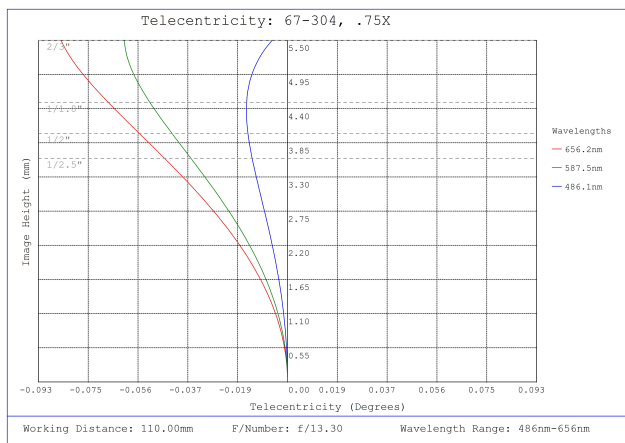
# Technical Information



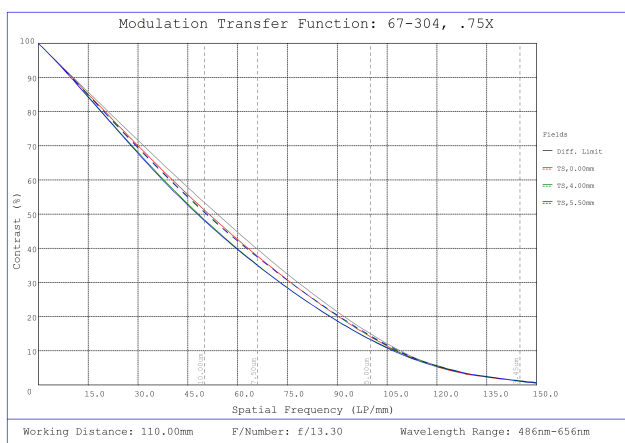
#67-304, 0.75X, 110mm WD, In-Line CompactTL™ Telecentric Lens, Distortion Plot



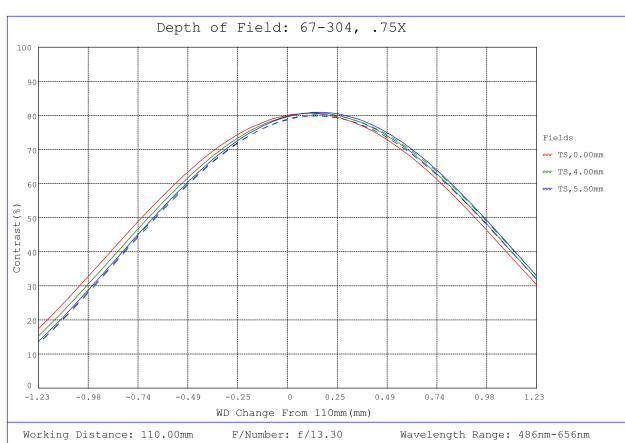
#67-304, 0.75X, 110mm WD, In-Line CompactTL™ Telecentric Lens, Relative Illumination Plot



#67-304, 0.75X, 110mm WD, In-Line CompactTL™ Telecentric Lens, Telecentricity Plot



#67-304, 0.75X, 110mm WD, In-Line CompactTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 110mm Working Distance, f13.3



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