

**TECHSPEC® 1X, 220mm WD, In-Line CompactTL™ Telecentric Lens**



220mm WD, 1X, In-Line Version (Left) and MS Version (Right)



Stock **#33-110** **2 In Stock**

⊖ 1 ⊕ €1.170<sup>00</sup>

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Volume Pricing

Qty 1+	€1.170,00 each
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**!** Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

CompactTL™ Series **Series:**

Edmund Optics® **Manufacturer:**

Telecentric Lens **Type:**

Compatible Light Guide/Source:  
1/4" (0.312") and 1/8" (0.187")

Type of Illumination:  
In-Line Illumination

## Physical & Mechanical Properties

Fixed Iris Option:

162.50 Length (mm):

162.50 Length excluding Threads (mm):

36.00 Maximum Diameter (mm):

149 Weight (g):

## 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):

0.044 Numerical Aperture NA, Object Side:

±2 Working Distance Tolerance (mm):

6 (5) Number of Elements (Groups):

0.033 Typical Telecentricity @ 588nm (°):

0.0055 Typical Distortion @ 588nm (%):

1X Primary Magnification PMAG:

1.00 Telecentric Lens Magnification:

220 Working Distance (mm):

8.8 x 6.6 FOV @ Max Sensor Format, H x V (mm):

f/11 Aperture (f/#):

M4 MgF<sub>2</sub> Coating:

±0.6mm (20% @ 20 lp/mm) Depth of Field (mm):

1X Magnification:

VIS Lens Wavelength Range:

## Sensor

2/3" Maximum Sensor Format:

4.50 Pixel Size (µm):

## Threading & Mounting

M34.0 x 0.50 (Female) Filter Thread:

C-Mount Mount:

## Regulatory Compliance

Compliant RoHS 2015:

View Certificate of Conformance:

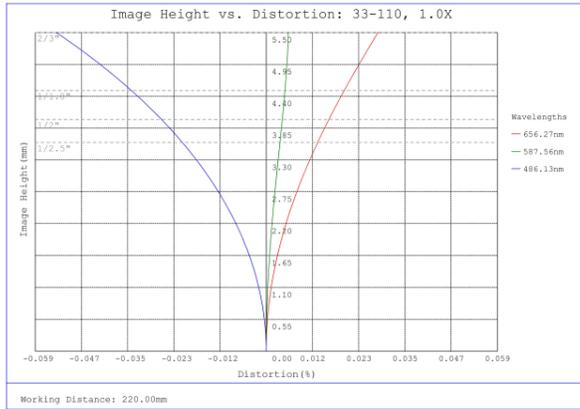
Compliant REACH 241:

## Product Details

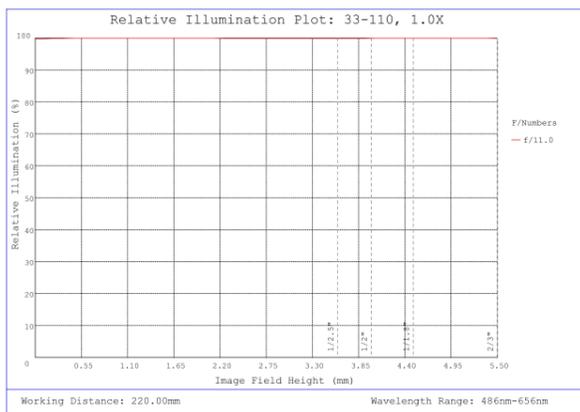
- 2/3", C-Mount Telecentric Lens
- Up to 2.3 MegaPixels, 4.5µm Pixel Size Sensors
- Small Telecentric Lens with Coaxial Illumination Options

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.

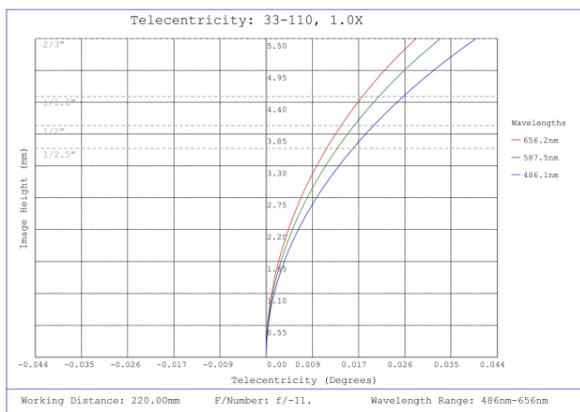
## Technical Information



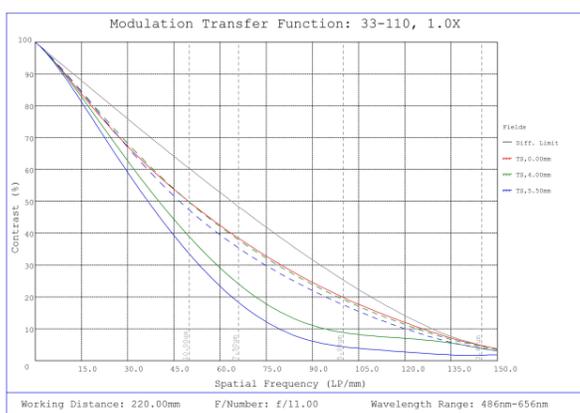
#33-110, 1X, 220mm WD, In-Line CompactTL™ Telecentric Lens, Distortion Plot



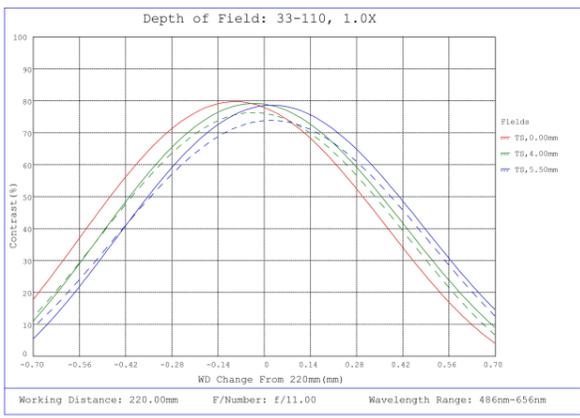
#33-110, 1X, 220mm WD, In-Line CompactTL™ Telecentric Lens, Relative Illumination Plot



#33-110, 1X, 220mm WD, In-Line CompactTL™ Telecentric Lens, Telecentricity Plot



#33-110, 1X, 220mm WD, In-Line CompactTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 220mm Working Distance, f11



#33-110, 1X, 220mm WD, In-Line CompactTL™ Telecentric Lens, Depth of Field Plot, 220mm Working Distance, f11