

**TECHSPEC® 0.5X, 110mm WD CompactTL™ Telecentric Lens**



110mm WD, 0.5X, In-Line Version (Left) and VIS Version (Right)



Stock **#63-729** [CONTACT US](#)

⊖ 1 ⊕ **\$440.00**

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**General**

CompactTL™ Series	<b>Product Family:</b>
Edmund Optics®	<b>Manufacturer:</b>
Telecentric Lens	<b>Type:</b>

**Physical & Mechanical Properties**

Fixed	Iris Option:
166.60	Length (mm):
166.60	Length excluding Threads (mm):
40.00	Maximum Diameter (mm):
177	Weight (g):

## Optical Properties

17.6mm	Horizontal Field of View, 2/3" Sensor:
12.8mm	Horizontal Field of View, 1/2" Sensor:
9.6mm	Horizontal Field of View, 1/3" Sensor:
11.00	Maximum Image Circle (mm):
0.027	Numerical Aperture NA, Object Side:
±1	Working Distance Tolerance (mm):
4 (4)	Number of Elements (Groups):
0.061	Typical Telecentricity @ 588nm (°):
0.0192	Typical Distortion @ 588nm (%):
0.5X	Primary Magnification PMAG:
0.50	Telecentric Lens Magnification:
110	Working Distance (mm):
17.6 x 13.2	FOV @ Max Sensor Format, H x V (mm):
f/9.1	Aperture (f/#):
M4 MgF <sub>2</sub>	Coating:
±1.9mm (20% @ 20 lp/mm)	Depth of Field (mm):
0.5X	Magnification:
VIS	Lens Wavelength Range:

## Sensor

2/3"	Maximum Sensor Format:
4.50	Pixel Size (µm):

## Threading & Mounting

M37 x 0.75 (Female)	Filter Thread:
C-Mount	Mount:

## Regulatory Compliance

<a href="#">Compliant</a>	RoHS 2015:
<a href="#">View</a>	Certificate of Conformance:
<a href="#">Compliant</a>	REACH 241:

## Product Details

- 2/3", C-Mount Telecentric Lens

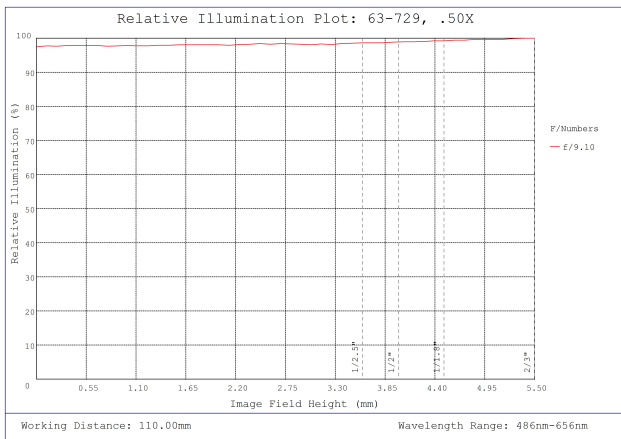
- Up to 2.3 MegaPixels, 4.5µm Pixel Size Sensors
- Small Telecentric Lens with Coaxial Illumination Options

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.

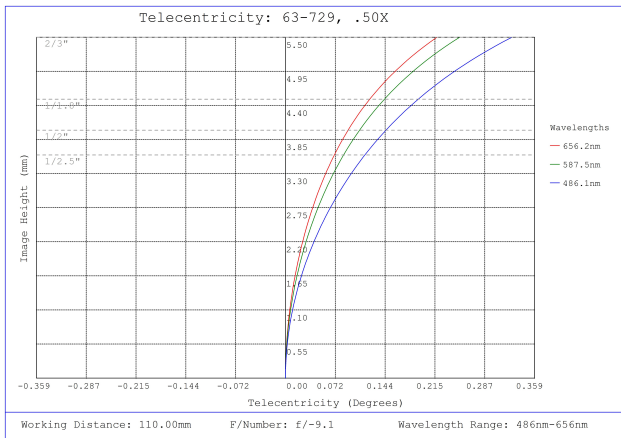
## Technical Information



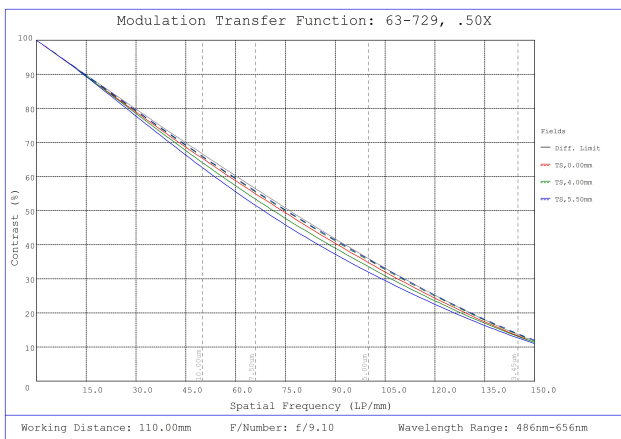
#63-729, 0.5X, 110mm WD CompactTL™ Telecentric Lens, Distortion Plot



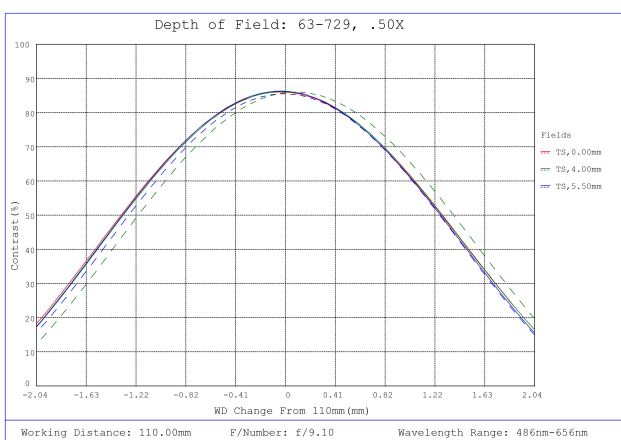
#63-729, 0.5X, 110mm WD CompactTL™ Telecentric Lens, Relative Illumination Plot



#63-729, 0.5X, 110mm WD CompactTL™ Telecentric Lens, Telecentricity Plot



#63-729, 0.5X, 110mm WD CompactTL™ Telecentric Lens, Modulated Transfer Function (MTF) Plot, 110mm Working Distance, f9.1



#63-729, 0.5X, 110mm WD CompactTL™ Telecentric Lens, Depth of Field Plot, 110mm Working Distance, f9.1

