

TECHSPEC[®] 0.050X, 1/1.8" C-Mount TitanTL[®] Telecentric Lens



TitanTL[®] Telecentric Lens



Stock **#34-002** 3 In Stock

-

1

+

£4,680^{.00}

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Qty 1+	£4,680.00 each
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SPECIFICATIONS

General

TitanTL[®] Series

Series:

Stock No. of Mounting Clamp: #28-641 (Sold Separately)	
Telecentric Lens	Type:
Physical & Mechanical Properties	
Variable	Iris Option:
383.20	Length (mm):
208	Maximum Diameter (mm):
6.98	Weight (kg):
12.7	Rear Filter Diameter (mm):
Optical Properties	
145.6mm	Horizontal Field of View, 1/1.8" Sensor:
129.4mm	Horizontal Field of View, 1/2" Sensor:
9.00	Maximum Image Circle (mm):
0.0031	Numerical Aperture NA, Object Side:
70 lp/mm @ 40% (MTF, open)	Resolution, Image Space:
6 (4)	Number of Elements (Groups):
0.050X	Primary Magnification PMAG:
0.05	Telecentric Lens Magnification:
287	Working Distance (mm):
144.0 x 108.0	FOV @ Max Sensor Format, H x V (mm):
f/8 - f/16	Aperture (f/#):
λ/4 MgF ₂	Coating:
±159.4mm (20% @ 20 lp/mm, open)	Depth of Field (mm):
0.050X	Magnification:
70 lp/mm @ 40%	Resolution, Image Space MTF @ F8:
<0.03	Typical Distortion @ 520nm (%):
<0.1	Typical Telecentricity @ 520nm (°):
VIS	Lens Wavelength Range:
Sensor	
1/1.8"	Maximum Sensor Format:
2.74	Pixel Size (μm):
Threading & Mounting	
N/A	Filter Thread:
C-Mount	Mount:
Regulatory Compliance	
View	Certificate of Conformance:

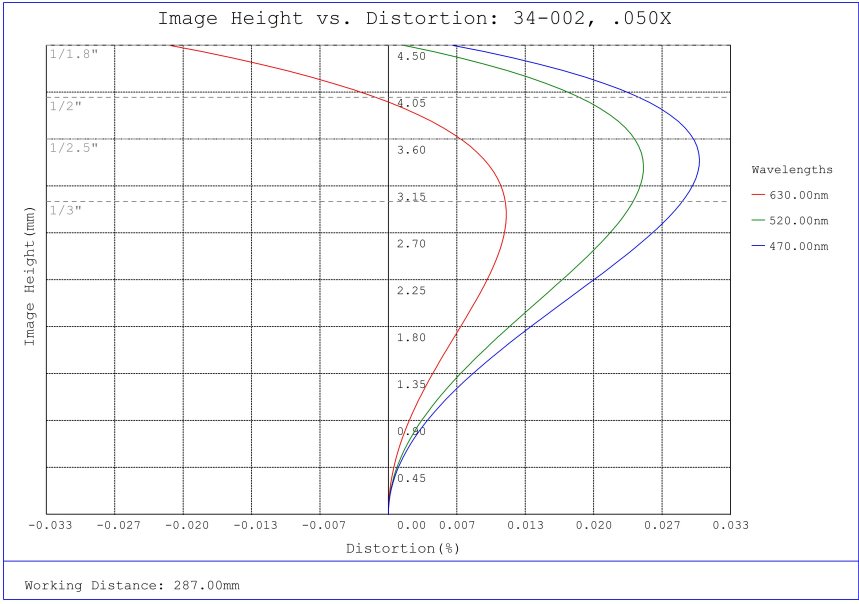
- Large Field of Mew Telecentric Lens
- Up to 31.4 MegaPixels, 3.45µm Pixel Size Sensors
- Full Frame (35mm), C-Mount, T-Mount, M58-Mount, F-Mount Telecentric Lens
- Magnification from 0.037X to 0.377X

TECHSPEC® TitanTL® Telecentric Lenses are designed for machine vision systems and metrology applications that require a large field of view. These lenses feature large maximum sensor formats, a variety of working distance and magnification options, and a rear filter holder on the back of the lenses to allow for easy filter integration. On our 118mm, 182mm and 242mm FOV versions, the integrated mounting flange allows for ease of securing each lens without requiring an additional mount and provides an easy to locate reference plane. TECHSPEC® TitanTL® Telecentric Lenses contain shims that provide adjustment for variation in camera sensor location, an adjustable iris and a 3 set screw lens mount for simple rotational alignment to the camera. Typical applications include automotive and electronic inspection, measurement and gauging applications.

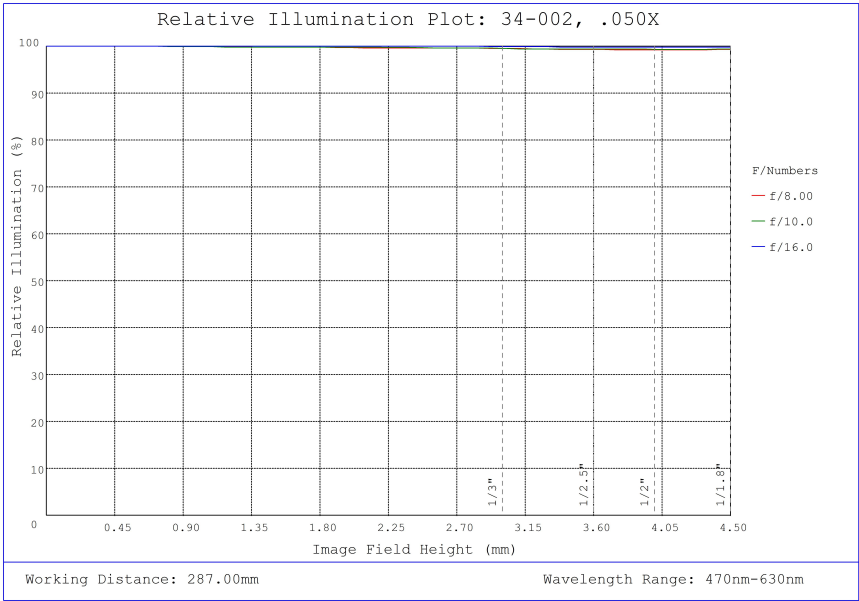
These lenses won the [Silver Level 2017 Innovators Award](#).

Note: Detailed inspection reports included with each lens.

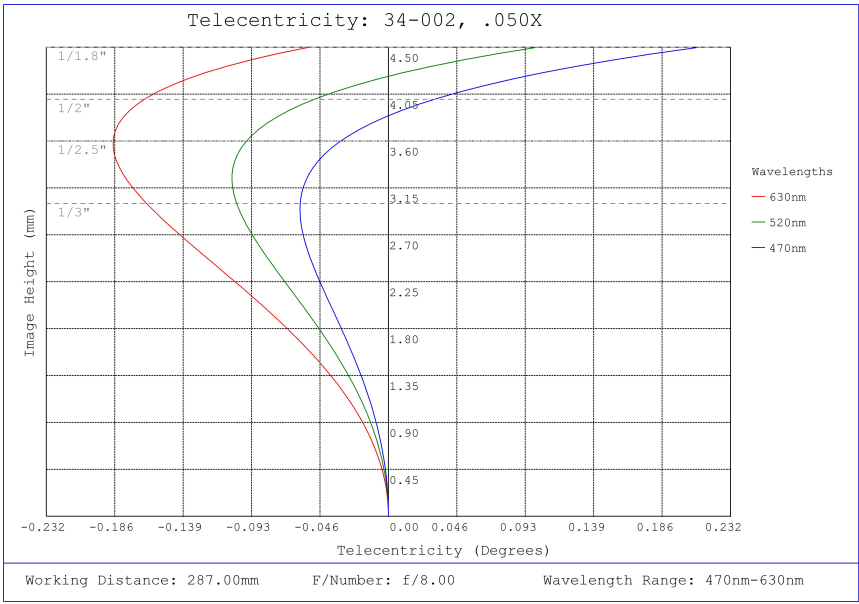
TECHNICAL INFORMATION



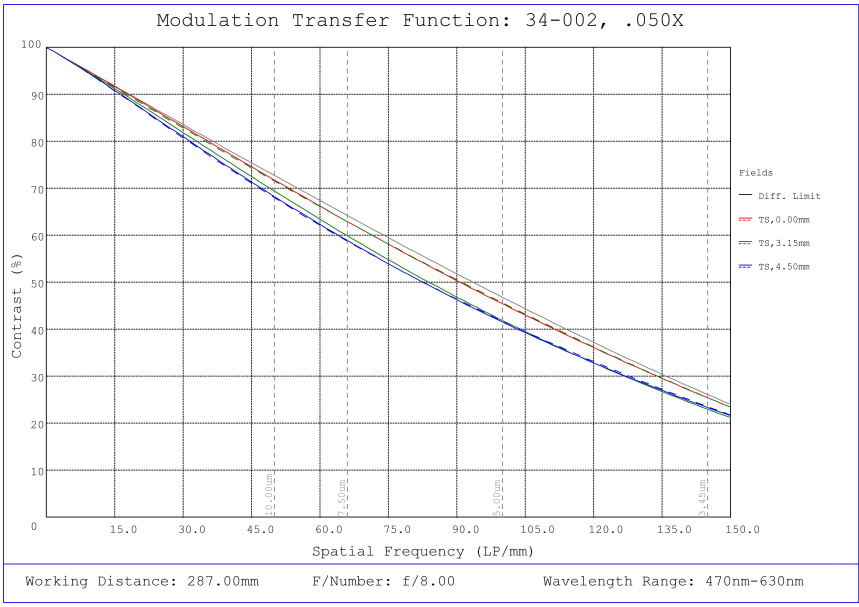
#34-002, 0.050X, 1/1.8" C-Mount TitanTL® Telecentric Lens, Distortion Plot



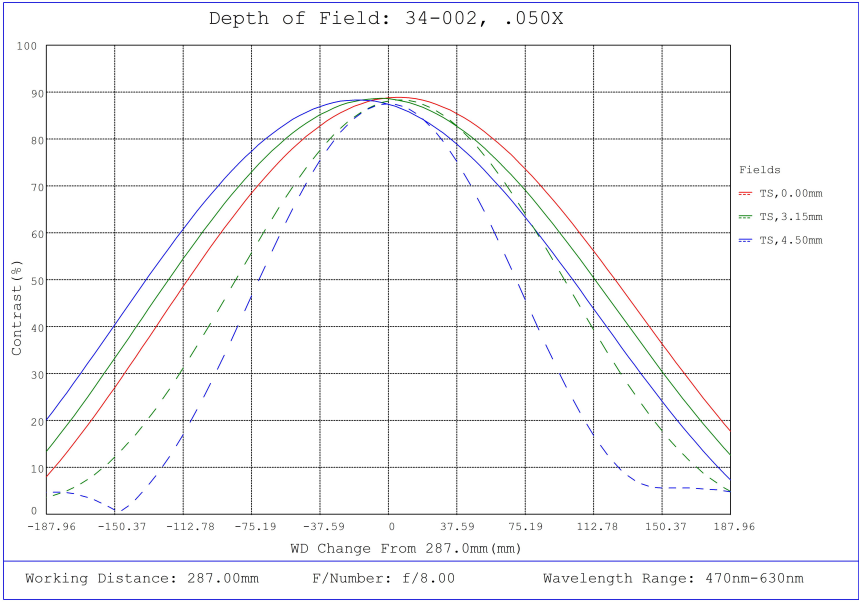
#34-002, 0.050X, 1/1.8" C-Mount TitanTL® Telecentric Lens, Relative Illumination Plot



#34-002, 0.050X, 1/1.8" C-Mount TitanTL® Telecentric Lens, Telecentricity Plot



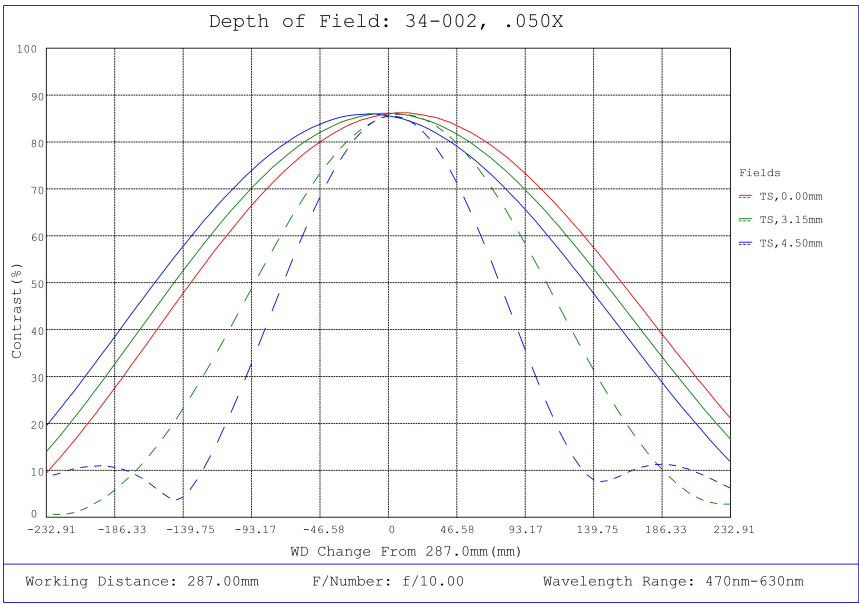
#34-002, 0.050X, 1/1.8" C-Mount TitanTL® Telecentric Lens, Modulated Transfer Function (MTF) Plot, 287mm Working Distance, f8



#34-002, 0.050X, 1/1.8" C-Mount TitanTL® Telecentric Lens, Depth of Field Plot, 287mm Working Distance, f8



#34-002, 0.050X, 1/1.8" C-Mount TitanTL® Telecentric Lens, Modulated Transfer Function (MTF) Plot, 287mm Working Distance, f10



#34-002, 0.050X, 1/1.8" C-Mount TitanTL® Telecentric Lens, Depth of Field Plot, 287mm Working Distance, f10