

TECHSPEC® 0.088X, 1" C-Mount TitanTL® Telecentric Lens



TitanTL® Telecentric Lens



Stock **#34-012** 4 In Stock

-

1

+

S\$8,680^{.00}

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General	
TitanTL® Series	Product Family:
#28-641 (Sold Separately)	Stock No. of Mounting Clamp:
Telecentric Lens	Type:
Physical & Mechanical Properties	

Variable	Iris Option:
405.90	Length (mm):
208	Maximum Diameter (mm):
7.08	Weight (kg):

25.4	Rear Filter Diameter (mm):

Optical Properties

145.8mm	Horizontal Field of View, 1" Sensor:
100.2mm	Horizontal Field of View, 2/3" Sensor:

82.0mm	Horizontal Field of View, 1/1.8" Sensor:
72.9mm	Horizontal Field of View, 1/2" Sensor:

16.00	Maximum Image Circle (mm):
0.0040	Numerical Aperture NA, Object Side:

50 lp/mm @ 40% (MTF, open)	Resolution, Image Space:
6 (4)	Number of Elements (Groups):

0.088X	Primary Magnification PMAG:
0.09	Telecentric Lens Magnification:

286	Working Distance (mm):
145.4 x 109.1	FOV @ Max Sensor Format, H x V (mm):

f/11 - f/22	Aperture (f/#):
λ/4 MgF ₂	Coating:

±72.8mm (20% @ 20 lp/mm, open)	Depth of Field (mm):
0.088X	Magnification:

<0.05	Typical Distortion @ 520nm (%):
<0.1	Typical Telecentricity @ 520nm (°):

VIS	Lens Wavelength Range:

Sensor

1"	Maximum Sensor Format:
2.74	Pixel Size (μm):

Threading & Mounting

N/A	Filter Thread:
C-Mount	Mount:

Regulatory Compliance

View	Certificate of Conformance:

Product Details

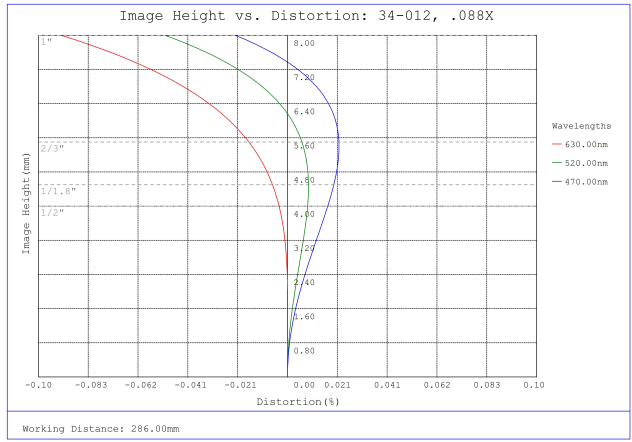
- Large Field of View Telecentric Lens
- Up to 31.4 MegaPixels, 3.45μm Pixel Size Sensors
- Full Frame (35mm), C-Mount, T-Mount, M58-Mount, F-Mount Telecentric Lens
- Magnification from 0.037X to 0.377X

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.

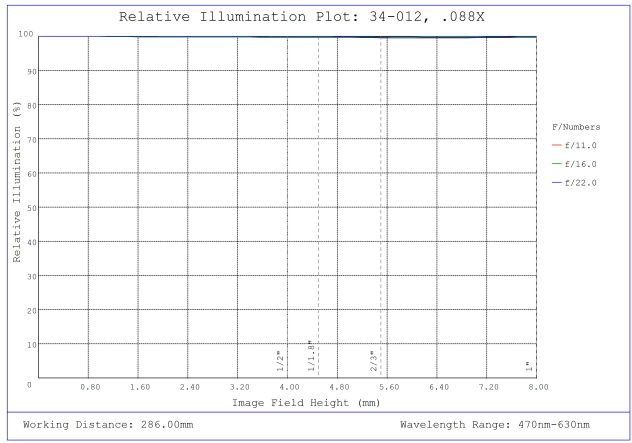
These lenses won the [Silver Level 2017 Innovators Award](#).

Note: Detailed inspection reports included with each lens.

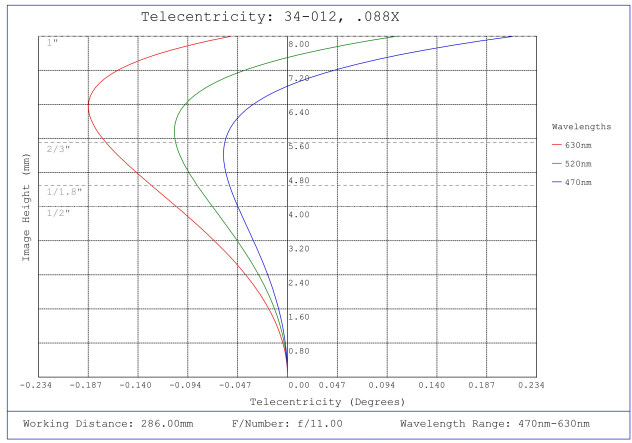
Technical Information



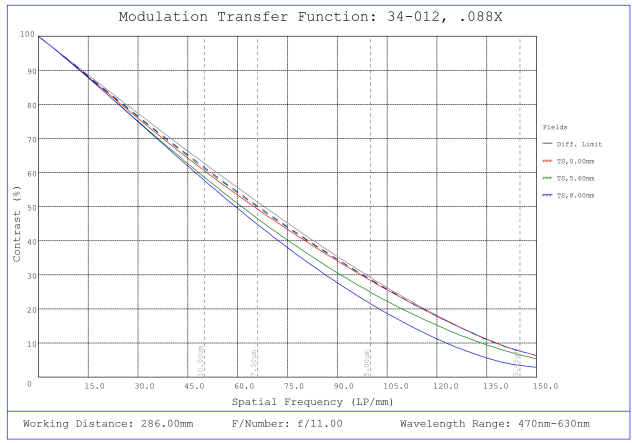
#34-012, 0.088X, 1" C-Mount TitanTL® Telecentric Lens, Distortion Plot



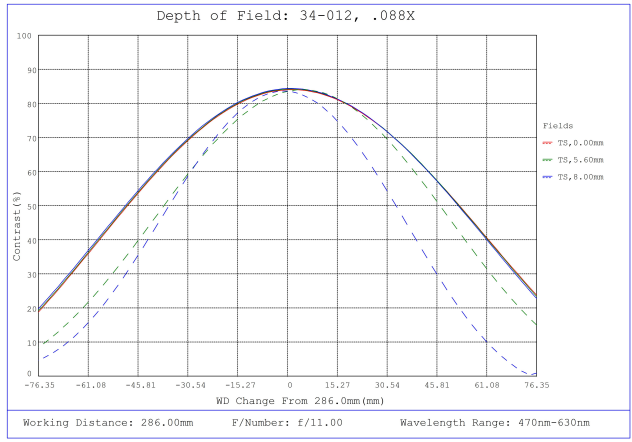
#34-012, 0.088X, 1" C-Mount TitanTL® Telecentric Lens, Relative Illumination Plot



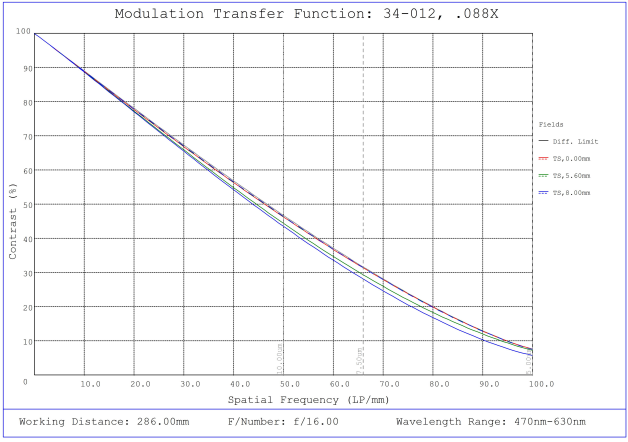
#34-012, 0.088X, 1" C-Mount TitanTL® Telecentric Lens, Telecentricity Plot



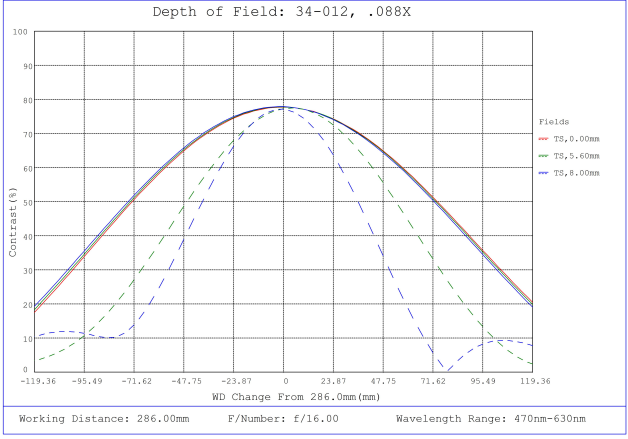
#34-012, 0.088X, 1" C-Mount TitanTL® Telecentric Lens, Modulated Transfer Function (MTF) Plot, 286mm Working Distance, f11



#34-012, 0.088X, 1" C-Mount TitanTL® Telecentric Lens, Depth of Field Plot, 286mm Working Distance, f11



#34-012, 0.088X, 1" C-Mount TitanTL® Telecentric Lens, Modulated Transfer Function (MTF) Plot, 286mm Working Distance, f16



#34-012, 0.088X, 1" C-Mount TitanTL® Telecentric Lens, Depth of Field Plot, 286mm Working Distance, f16