

TECHSPEC® 0.136X, 1" C-Mount TitanTL® Telecentric Lens



TitanTL® Telecentric Lens



Stock **#34-011** **1 In Stock**

⊖ 1 ⊕ **A\$5,938⁰⁰**

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SPECIFICATIONS

General

Series:

TitanTL® Series

Stock No. of Mounting Clamp:

Telecentric Lens **Type:**

Physical & Mechanical Properties

Variable **Iris Option:**

267.90 **Length (mm):**

150 **Maximum Diameter (mm):**

6.88 **Weight (kg):**

25.4 **Rear Filter Diameter (mm):**

Optical Properties

94.2mm (Horizontal) **Horizontal Field of View, 1" Sensor:**

64.8mm **Horizontal Field of View, 2/3" Sensor:**

53.0mm **Horizontal Field of View, 1/1.8" Sensor:**

47.2mm **Horizontal Field of View, 1/2" Sensor:**

16.00 **Maximum Image Circle (mm):**

0.0062 **Numerical Aperture NA, Object Side:**

60 lp/mm @ 40% (MTF, open) **Resolution, Image Space:**

6 (4) **Number of Elements (Groups):**

0.136X **Primary Magnification PMAG:**

0.14 **Telecentric Lens Magnification:**

223 **Working Distance (mm):**

94.1 x 70.6 **FOV @ Max Sensor Format, H x V (mm):**

f/11 - f/22 **Aperture (f#):**

N/4 MgF₂ **Coating:**

±30.7mm (20% @ 20 lp/mm, open) **Depth of Field (mm):**

0.136X **Magnification:**

<0.13 **Typical Distortion @ 520nm (%):**

<0.1 **Typical Telecentricity @ 520nm (°):**

VS **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

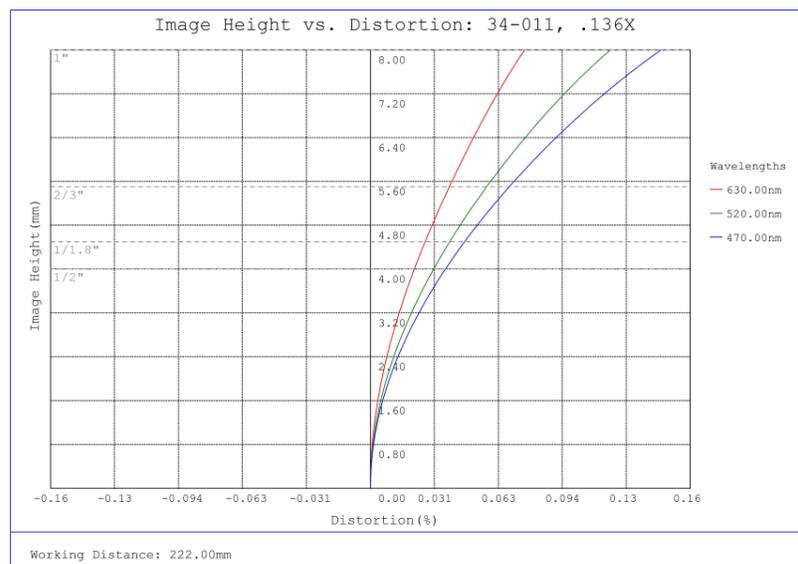
- Large Field of View Telecentric Lens
- Up to 31.4 MegaPixels, 3.45µm Pixel Size Sensors
- Full Frame (35mm), C-Mount, T-Mount, M58-Mount, F-Mount Telecentric Lens
- Magnification from 0.037X to 0.377X

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.

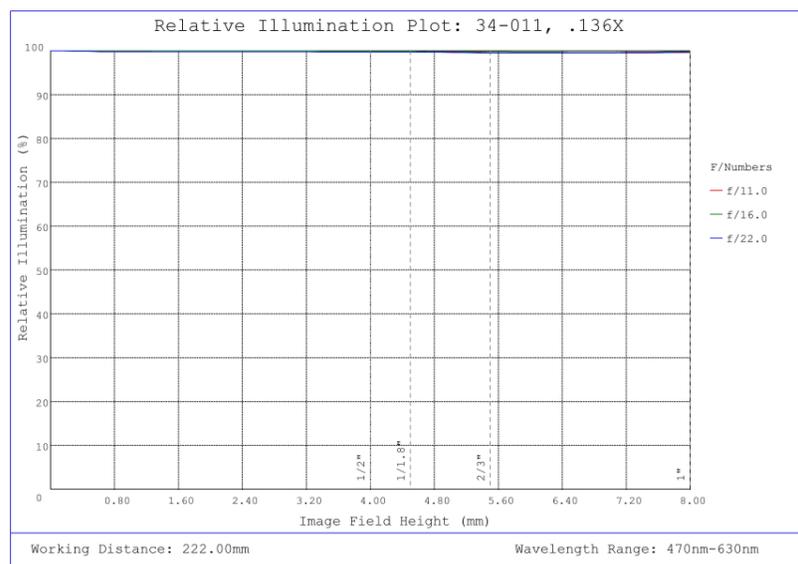
These lenses won the [Silver Level 2017 Innovators Award](#).

Note: Detailed inspection reports included with each lens.

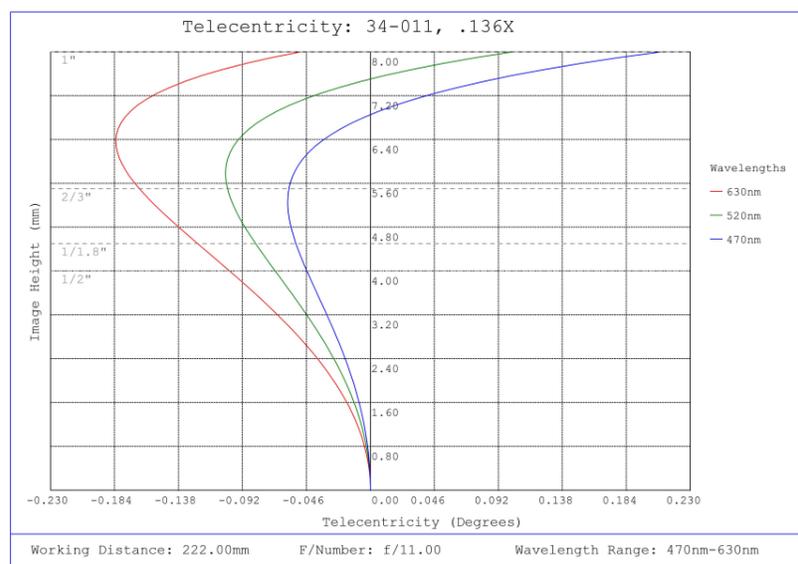
TECHNICAL INFORMATION



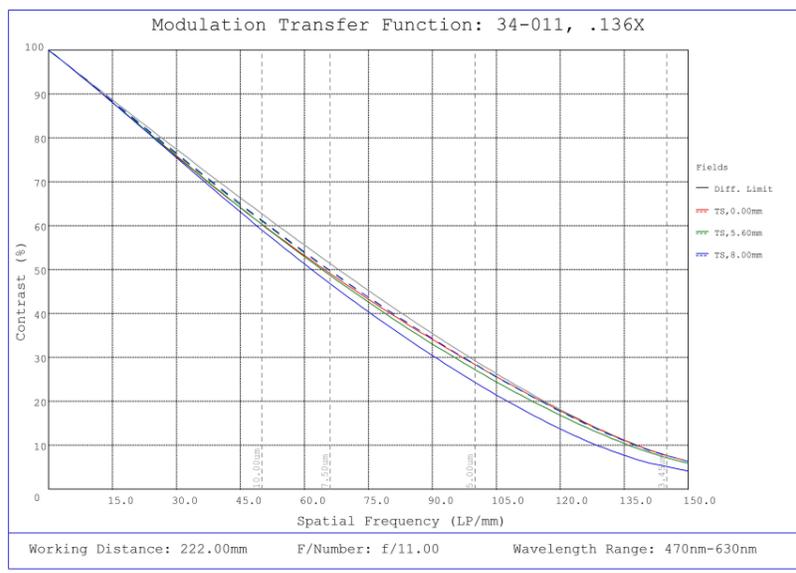
#34-011, 0.136X, 1" C-Mount TitanTL® Telecentric Lens, Distortion Plot



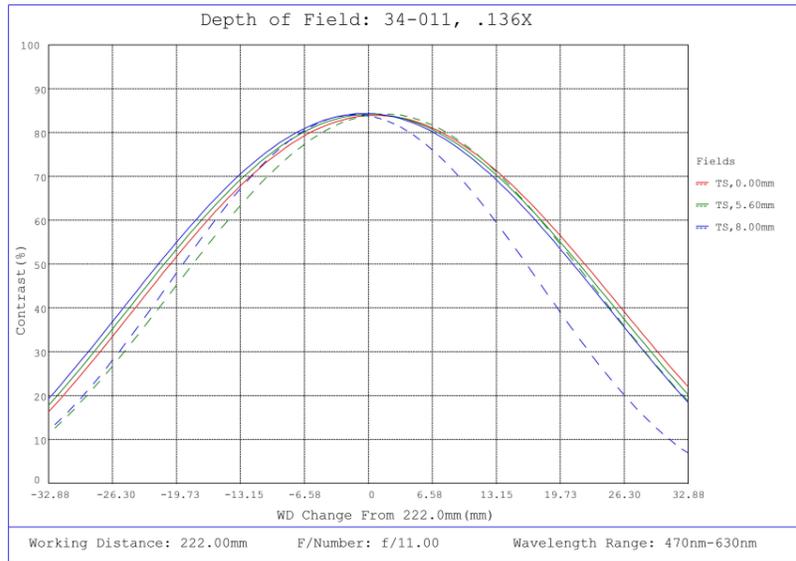
#34-011, 0.136X, 1" C-Mount TitanTL® Telecentric Lens, Relative Illumination Plot



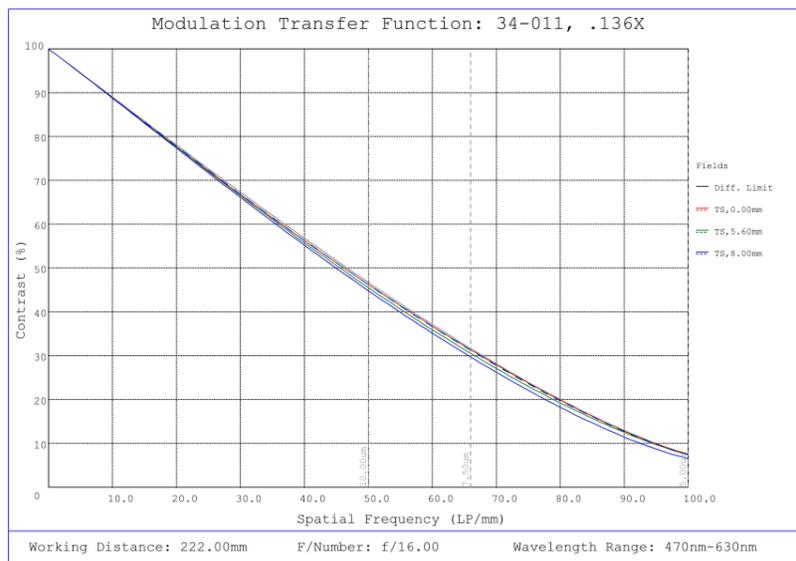
#34-011, 0.136X, 1" C-Mount TitanTL® Telecentric Lens, Telecentricity Plot



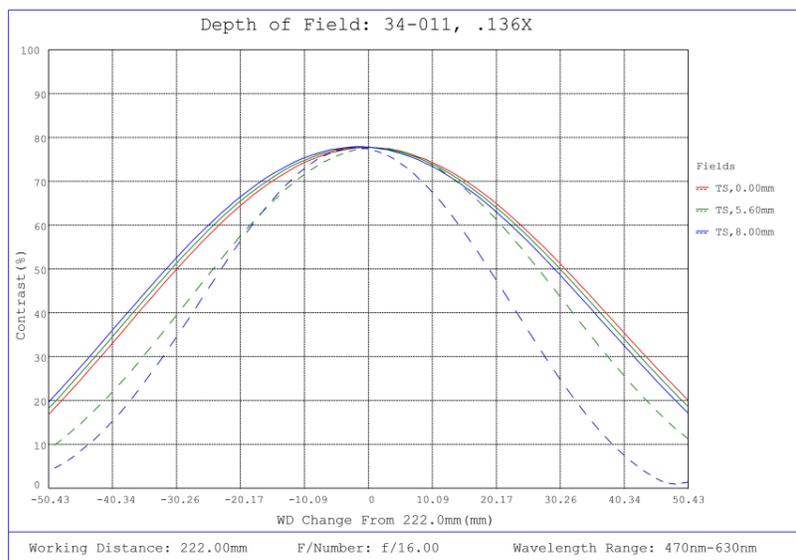
#34-011, 0.136X, 1" C-Mount TitanTL® Telecentric Lens, Modulated Transfer Function (MTF) Plot, 222mm Working Distance, f11



#34-011, 0.136X, 1" C-Mount TitanTL® Telecentric Lens, Depth of Field Plot, 222mm Working Distance, f11



#34-011, 0.136X, 1" C-Mount TitanTL® Telecentric Lens, Modulated Transfer Function (MTF) Plot, 222mm Working Distance, f16



#34-011, 0.136X, 1" C-Mount TitanTL® Telecentric Lens, Depth of Field Plot, 222mm Working Distance, f16