TECHSPEC® 0.238X, 35mm F-Mount TitanTL® Telecentric Lens

TitanTL® Telecentric Lens

Stock **#34-032** **1 In Stock**

- 1 + **A$11,181**.00

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Qty 1+	**A$11,181.00** each
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SPECIFICATIONS

General

Series:
TitanTL® Series

Stock No. of Mounting Clamp:

#28-641 (Sold Separately)

Type:
Telecentric Lens

Physical & Mechanical Properties

Iris Option:
Variable

Length (mm):
474.00

Maximum Diameter (mm):
208

Weight (kg):
7.39

Rear Filter Diameter (mm):
50.8

Optical Properties

Horizontal Field of View, 35mm Sensor:
151.3mm

Maximum Image Circle (mm):
43.30

Numerical Aperture NA, Object Side:
0.0074

Number of Elements (Groups):
7 (5)

Primary Magnification PMAG:
0.238X

Telecentric Lens Magnification:
0.24

Working Distance (mm):
267

FOV @ Max Sensor Format, H x V (mm):
151.3 x 100.9

Aperture (f/#):
f/16

Coating:
$\lambda/4$ MgF_2

Depth of Field (mm):
±14.6mm (20% @ 20 lp/mm, f/16)

Magnification:
0.238X

Typical Distortion @ 520nm (%):
<0.2

Typical Telecentricity @ 520nm (°):
<0.1

Lens Wavelength Range:
VIS

Sensor

Maximum Sensor Format:
35mm (43.3mm Image Circle)

Pixel Size (µm):
2.74

Threading & Mounting

Filter Thread:
N/A

Mount:
F-Mount

Regulatory Compliance

Certificate of Conformance:
View

PRODUCT DETAILS

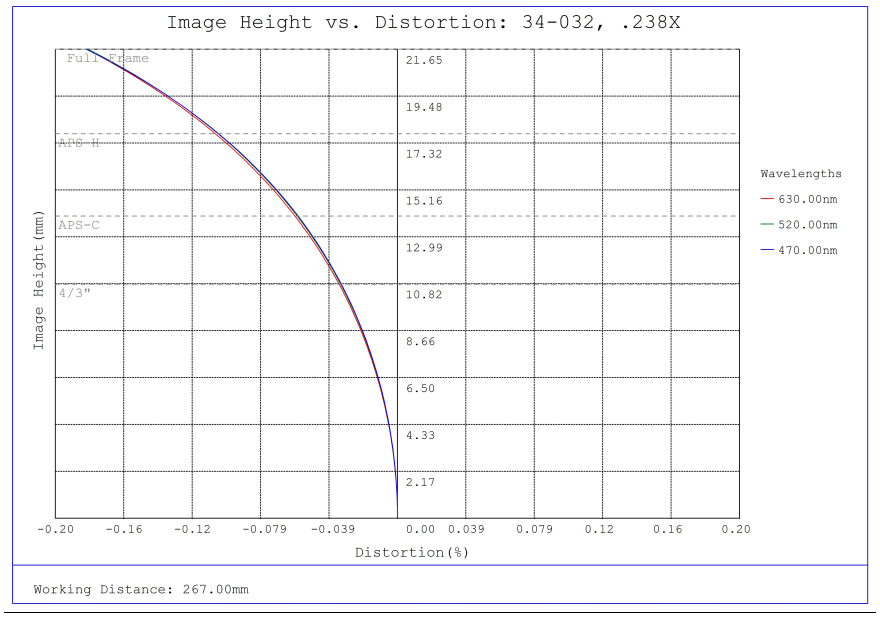
- Large Field of View Telecentric Lens
- Up to 31.4 MegaPixels, 3.45µm Pixel Size Sensors
- Full Frame (35mm), C-Mount, T-Mount, M58-Mount, F-Mount Telecentric Lens
- Magnification from 0.037X to 0.377X

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.

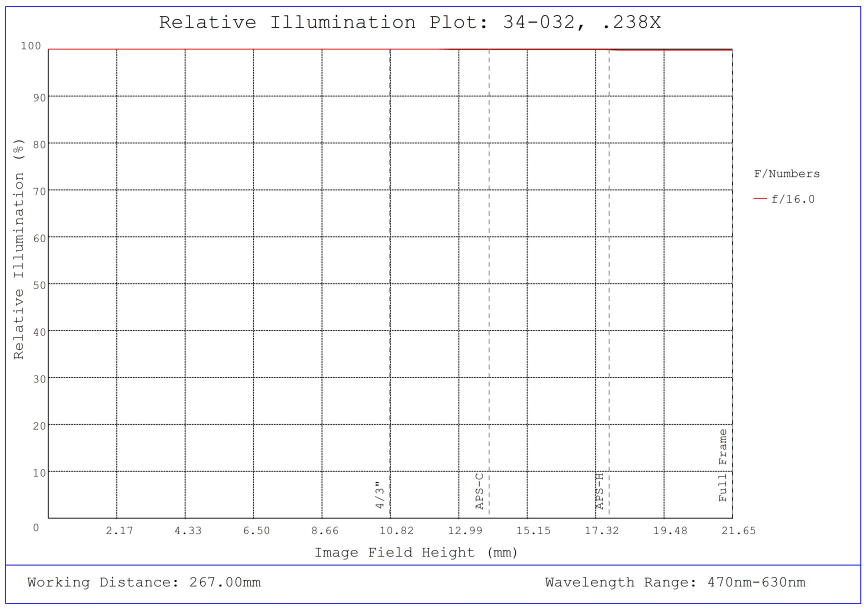
These lenses won the Silver Level 2017 Innovators Award.

Note: Detailed inspection reports included with each lens.

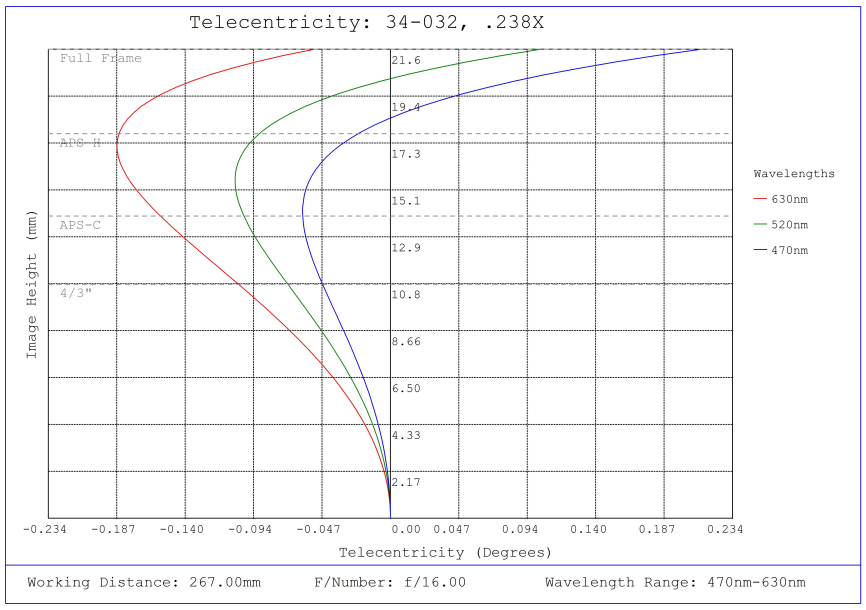
TECHNICAL INFORMATION



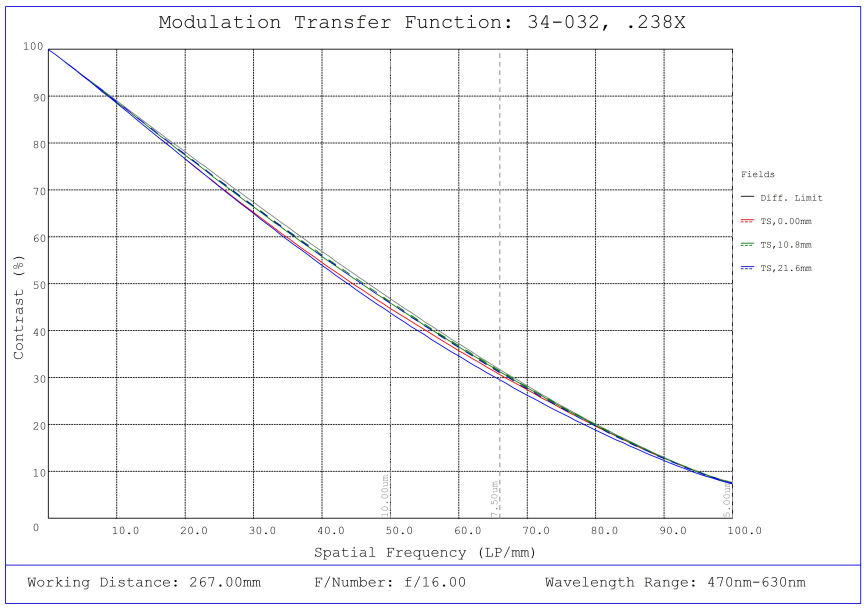
#34-032, 0.238X, 35mm F-Mount TitanTL® Telecentric Lens, Distortion Plot



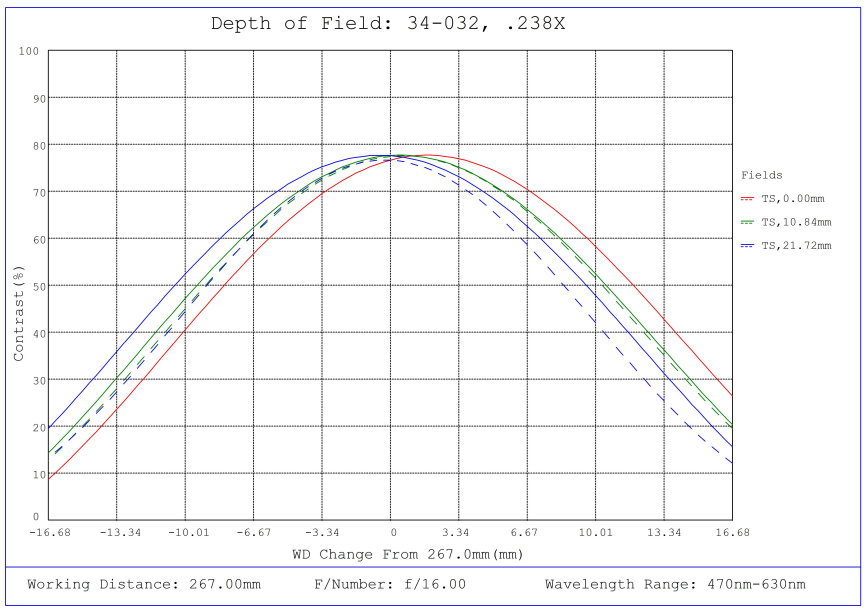
#34-032, 0.238X, 35mm F-Mount TitanTL® Telecentric Lens, Relative Illumination Plot



#34-032, 0.238X, 35mm F-Mount TitanTL® Telecentric Lens, Telecentricity Plot



#34-032, 0.238X, 35mm F-Mount TitanTL® Telecentric Lens, Modulated Transfer Function (MTF) Plot, 267mm Working Distance, f16



#34-032, 0.238X, 35mm F-Mount TitanTL® Telecentric Lens, Depth of Field Plot, 267mm Working Distance, f16