TECHSPEC® 0.238X, 35mm M42 x 1.0 TitanTL® Telecentric Lens

TitanTL® Telecentric Lens

Stock **#34-027**   CONTACT US

⊝   1   ⊕   **S$10,124**.⁰⁰

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Qty 1+	**S$10,124.00** each
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General

Product Family:
TitanTL® Series

Stock No. of Mounting Clamp:
#28-641 (Sold Separately)

Type:
Telecentric Lens

Physical & Mechanical Properties

Iris Option:

Variable

Length (mm):

500.10

Maximum Diameter (mm):

208

Rear Filter Diameter (mm):

50.8

Optical Properties

Horizontal Field of View, APS-H Sensor:

122.7mm

Maximum Image Circle (mm):

35.50

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):

122.7 x 84.9

Aperture (f/#):

f/16

Coating:

$\lambda/4$ MgF$_2$

Depth of Field (mm):

±14.9mm (20% @ 20 lp/mm, f/16)

Magnification:

0.238X

Typical Distortion @ 520nm (%):

<0.2

Typical Telecentricity @ 520nm (°):

<0.036

Lens Wavelength Range:

VIS

Sensor

Maximum Sensor Format:

APS-H

Pixel Size (μm):

2.74

Threading & Mounting

Filter Thread:

N/A

Mount:

M42 x 1.0

Regulatory Compliance

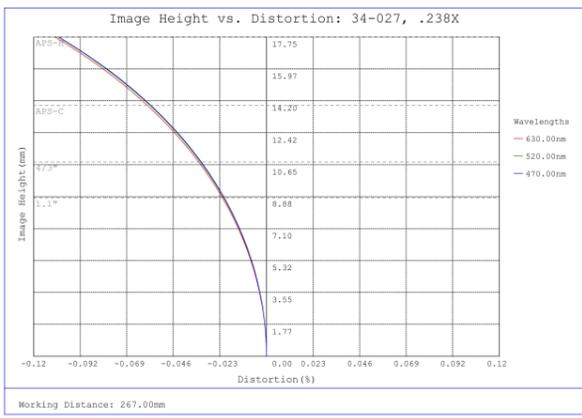**Certificate of Conformance:**

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.
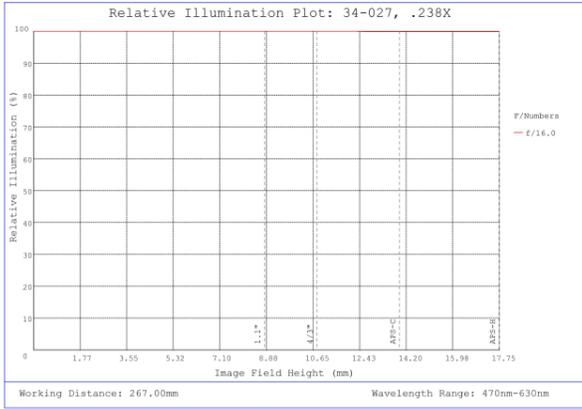
These lenses won the Silver Level 2017 Innovators Award.

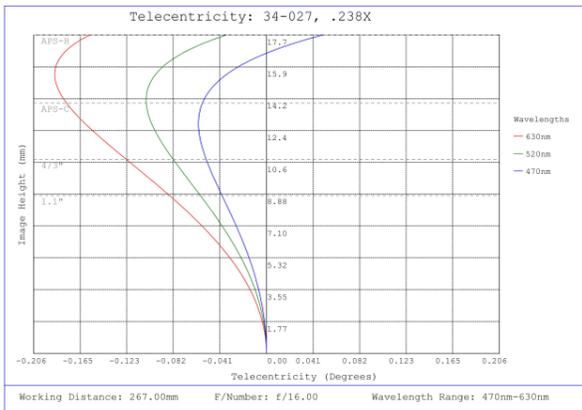**Note:** Detailed inspection reports included with each lens.
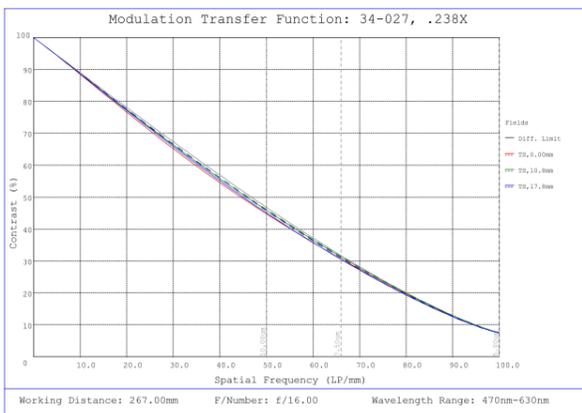
Technical Information

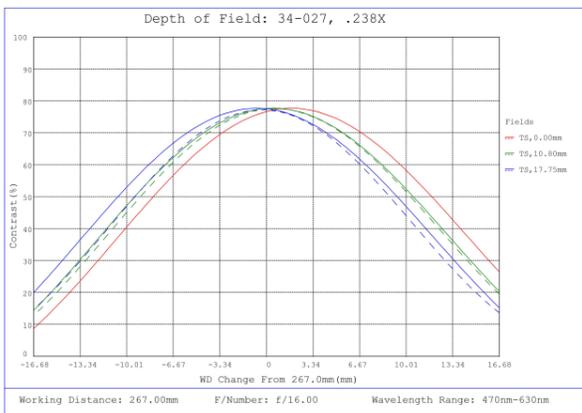*#34-027, 0.238X, 35mm M42 x 1.0 TitanTL® Telecentric Lens, Distortion Plot*

#34-027, 0.238X, 35mm M42 x 1.0 TitanTL® Telecentric Lens, Relative Illumination Plot

#34-027, 0.238X, 35mm M42 x 1.0 TitanTL® Telecentric Lens, Telecentricity Plot

#34-027, 0.238X, 35mm M42 x 1.0 TitanTL® Telecentric Lens, Modulated Transfer Function (MTF) Plot, 267mm Working Distance, f16

#34-027, 0.238X, 35mm M42 x 1.0 TitanTL® Telecentric Lens, Depth of Field Plot, 267mm Working Distance, f16