

TECHSPEC® 0.25X MercuryTL™ Liquid Lens Telecentric Lens



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- 1 + C\$3,360⁰⁰

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General

Mercury Series	Product Family:
MercuryTL™	Note:
Telecentric Lens	Type:
Liquid Lens Focusable	Special Type of Lens:

Physical & Mechanical Properties

155.20 Length excluding Threads (mm):

48.00 Maximum Diameter (mm):

266 Weight (g):

Optical Properties

25.6mm Horizontal Field of View, 1/2" Sensor:

19.2mm Horizontal Field of View, 1/3" Sensor:

<0.035 Typical Telecentricity @ 588nm (°):

<0.040 Typical Distortion @ 588nm (%):

0.25X Primary Magnification PMAG:

0.25 Telecentric Lens Magnification:

91 - 173 Working Distance (mm):

28.8 x 21.6 FOV @ Max Sensor Format, H x V (mm):

f/10 Aperture (f/#):

±8.2 at f/10 (20% @ 20 lp/mm) Depth of Field (mm):

VS Wavelength:

Sensor

1/2" Maximum Sensor Format:

Threading & Mounting

C-Mount Mount:

Regulatory Compliance

[View](#) Certificate of Conformance:

Product Details

- Liquid Lens for Extended Depth of Field Telecentric Lens
- Up to 2.3 MegaPixels, 4.5µm Pixel Size Sensors
- Up to 2/3", C-Mount Telecentric Lens
- Magnification from 0.15X to 0.75X

TECHSPEC® MercuryTL™ Liquid Lens Telecentric Lenses combine the capabilities of a telecentric lens with the flexibility of a liquid lens. These lenses combine the unique feature of telecentric lenses, eliminating parallax (or perspective) error, with a liquid lens, allowing for the focus to be electronically controlled. This combination provides quick working distance adjustment, while maintaining telecentricity, distortion, and image performance throughout the entire working distance range. TECHSPEC® MercuryTL™ Liquid Lens Telecentric Lenses are ideal for gauging, measurement, and placement applications where quick depth of field adjustment is required.

As the liquid lens is used to focus the telecentric lens, its curvature changes. As its curvature changes, there will be small changes in the ray angles in the rear of the lens (incident on the image sensor). As a result, there are small field of view changes over the working distance range as the liquid lens refocuses the lens. However, the front (object space) ray angles are unaffected by the liquid lens changing curvature, allowing the telecentric lens to maintain telecentricity over the entire working distance range.

Note: Hirose cables and [Liquid Lens Driver](#) sold separately.

Technical Information



