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TECHSPEC® 0.75X MercuryTL™ Liquid Lens Telecentric Lens

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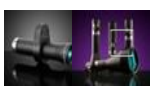

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Product Downloads

General

Product Family:	Mercury Series
Note:	MercuryTL™
Type:	Telecentric Lens

Special Type of Lens:
Liquid Lens Focusable

Physical & Mechanical Properties

Length excluding Threads (mm):
146.21

Maximum Diameter (mm):
48.00

Weight (g):
222

Optical Properties

Horizontal Field of View, 2/3" Sensor:
11.8

Horizontal Field of View, 1/2" Sensor:
8.5mm

Horizontal Field of View, 1/3" Sensor:
6.4mm

Typical Telecentricity @ 588nm (°):
<0.080

Typical Distortion @ 588nm (%):
<0.080

Primary Magnification PMAG:
0.75X

Telecentric Lens Magnification:
0.75

Working Distance (mm):
85 - 99

FOV @ Max Sensor Format, H x V (mm):
11.8 x 8.8

Aperture (f/#):
f/10

Depth of Field (mm):
±0.8 at f/10 (20% @ 20 lp/mm)

Wavelength:
VIS

Sensor

Maximum Sensor Format:
2/3"

Threading & Mounting

Mount:
C-Mount

Regulatory Compliance

Certificate of Conformance:
View

Product Details

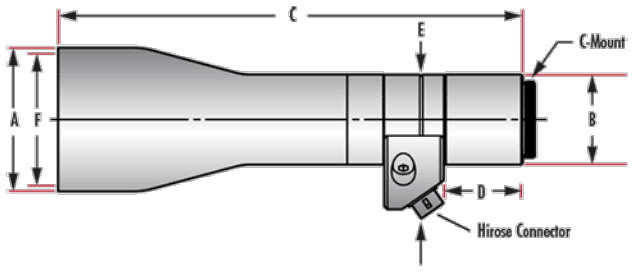
- Liquid Lens for Extended Depth of Field Telecentric Lens
- Up to 2.3 MegaPixels, 4.5µm Pixel Size Sensors
- Up to 2/3", C-Mount Telecentric Lens
- Magnification from 0.15X to 0.75X

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



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