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TECHSPEC®

0.25X MercuryTL™ Liquid Lens Telecentric Lens



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Stock

#73-699

NEW

14 In Stock

-

1

+

£1,920⁰⁰

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Product Downloads

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

Special Type of Lens:	
Liquid Lens Focusable	
Physical & Mechanical Properties	
Length excluding Threads (mm):	
155.20	
Maximum Diameter (mm):	
48.00	
Weight (g):	
266	
Optical Properties	
Horizontal Field of View, 1/2" Sensor:	
25.6mm	
Horizontal Field of View, 1/3" Sensor:	
19.2mm	
Typical Telecentricity @ 588nm (°):	
<0.035	
Typical Distortion @ 588nm (%):	
<0.040	
Primary Magnification PMAG:	
0.25X	
Telecentric Lens Magnification:	
0.25	
Working Distance (mm):	
91 - 173	
FOV @ Max Sensor Format, H x V (mm):	
28.8 x 21.6	
Aperture (f/#):	
f/10	
Depth of Field (mm):	
±8.2 at f/10 (20% @ 20 lp/mm)	
Wavelength:	
VIS	
Sensor	
Maximum Sensor Format:	
1/2"	
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



