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TECHSPEC®

0.75X MercuryTL™ Liquid Lens Telecentric Lens



0.75XMercuryTL™ Liquid Lens Telecentric Lens



Stock

#73-701

NEW

14 In Stock

-

1

+

C\$3,360^{.00}

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

Physical & Mechanical Properties

146.21	Length excluding Threads (mm):
48.00	Maximum Diameter (mm):
222	Weight (g):

Optical Properties

11.8	Horizontal Field of View, 2/3" Sensor:
8.5mm	Horizontal Field of View, 1/2" Sensor:
6.4mm	Horizontal Field of View, 1/3" Sensor:
<0.080	Typical Telecentricity @ 588nm (°):
<0.080	Typical Distortion @ 588nm (%):
0.75X	Primary Magnification PMAG:
0.75	Telecentric Lens Magnification:
85 - 99	Working Distance (mm):
11.8 x 8.8	FOV @ Max Sensor Format, H x V (mm):
f/10	Aperture (f/#):
±0.8 at f/10 (20% @20 lp/mm)	Depth of Field (mm):
VS	Wavelength:

Sensor

2/3"	Maximum Sensor Format:
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Threading & Mounting

C-Mount	Mount:
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Regulatory Compliance

View	Certificate of Conformance:
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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



