

# AUTOFOCUS LIQUID LENS CAMERAS

**P i x e L I N K**<sup>®</sup>  
A NAVITAR COMPANY



PixeLINK has introduced a family of USB3 autofocus liquid lens cameras, ideal for high-speed autofocus imaging applications.



## Important Features

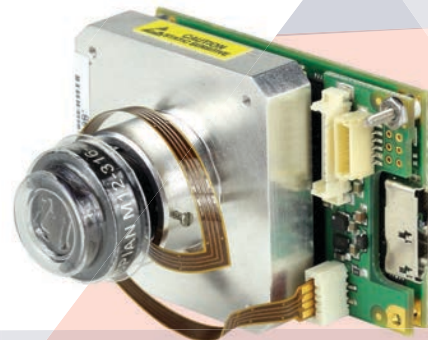
- » One push-autofocus, move focus from one post to another at high speed
- » Seamless integration of a compact, low-power durable liquid lens
- » Get a sharp image from a few centimeters to infinity in less than 20 ms
- » Get started quickly by integrating your autofocus application with the PixeLINK SDK

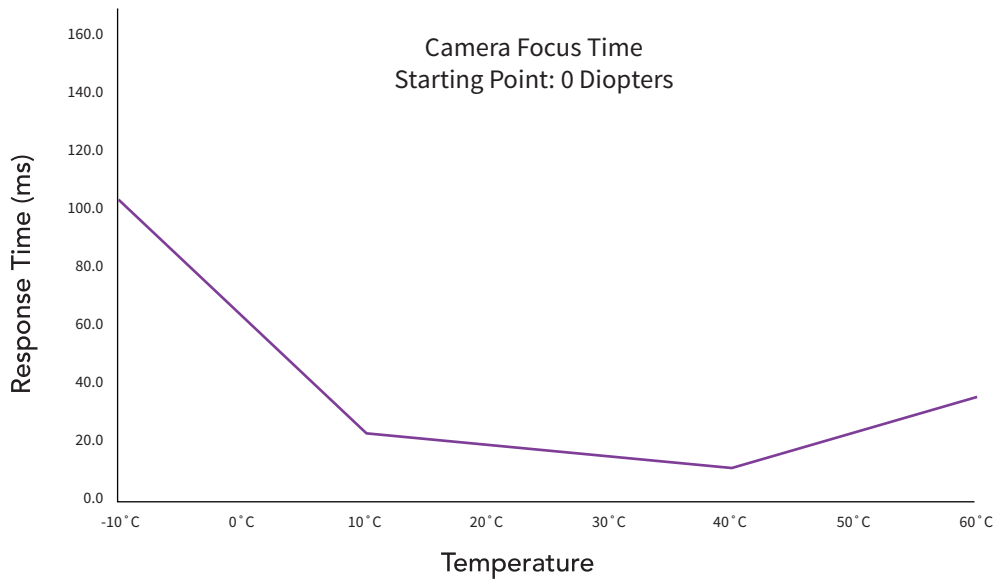
## Applications

- » Bar-code Reading
- » Biometrics- Facial and Retinal
- » Inspection
- » Biotechnology
- » Medical Applications

### Long Lifespan, Fast Focus Camera

While the typical lifespan of a mechanical lens system is a few hundred thousand cycles, liquid lenses have been tested over 100 million cycles without performance degradation. Liquid lenses can also reconfigure themselves in tens of milliseconds, making them ideal for high vibration environments and applications that require fast focus changes. A combination of liquid lens integrated with our high speed USB3 cameras brings cutting edge solutions to industrial and medical applications.

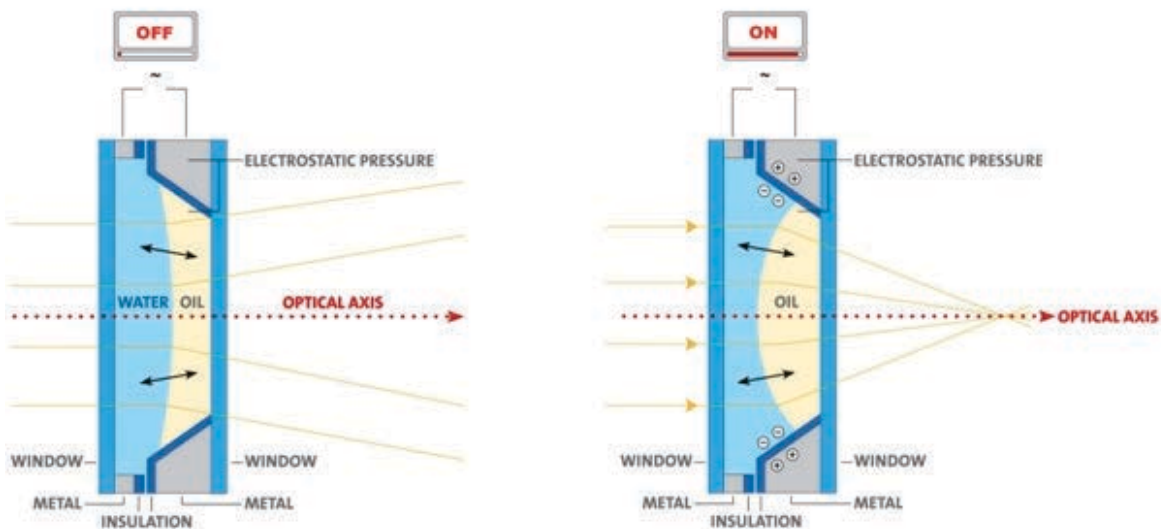




You can see at 10C, it takes about 20ms or less to snap into any focal point. For reference, a high end DSLR camera with AF would take 300 ms+ to do the same.

## Advantages of an Autofocus Lens Camera

- » Large range of optical variation- displacing a liquid interface allows for large phase shift variations
- » Sturdiness- it has been tested for over 100 million cycles and shows zero performance degradation
- » Shock resistance- it shows excellent output of the response curve before and after shock tests
- » High-speed- it can reconfigure in tens of milliseconds (see diagram below)
- » Low power consumption- typically it dissipates about 15mW; ten times lower than other systems



PixeLINK has a full line of USB3 Autofocus cameras including:

Camera Model	Color Space	Sensor	Resolution	Lens Format
PL-D721-AF	Monochrome or Color	On Semi (Vita 1300)	1.3 MP	1/2"
PL-D722-AF	Monochrome or Color	On Semi (Vita 2000)	2.3 MP	2/3"
PL-D729-AF	Monochrome	On Semi (Mano 9600)	9.5 MP	2/3"
PL-D732-AF	Monochrome or Color	CMOSIS (CMV2000)	2.2 MP	2/3"
PL-D755-AF	Monochrome or Color	Sony (IMX250)	5.0 MP	2/3"
PL-D7715-AF	Color	Aptina (MT9F002)	15 MP	1/2.3"
PL-D775-AF	Monochrome or Color	Aptina (MT9P031)	5.0 MP	1/2.5"

Lens Specifications:

Format	Varioptic C-Mount Lens		Edmund Optics Cx Lens (Board Level only)				S-Mount Lens (Board Level Only)		
	16 mm	25 mm	12 mm	16mm	25 mm	35 mm	2.6 mm	7.5 mm	9.6 mm
Effective Focal Length	16 mm	25 mm	12 mm	16mm	25 mm	35 mm	2.6 mm	7.5 mm	9.6 mm
Sensor Compatibility	1/3"-2/3"	1/3"-2/3"	1/3"-2/3"	1/3"-2/3"	1/3"-2/3"	1/3"-2/3"	1/2.5"	1/2.5"	1/1.8"
Focus Range	110 mm - ∞	120 mm - ∞	100 mm - ∞	100 mm - ∞	150 mm - ∞	225 mm - ∞	4 mm - ∞	7 mm - ∞	7 mm - ∞

Select the camera and the Autofocus lens that fits your application:





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