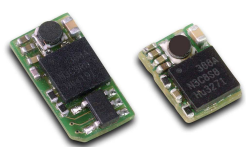# Liquid Lens

Developer Kits

Introduction

Varioptic's liquid lens technology is a breakthrough in the possibilities for designing small aperture lens systems allowing variable focus with absolutely no moving parts.

Varioptic's Developer Kits aim at supporting integrators from evaluation to design cycle, all the way through ramp to volume production.

All of Varioptic's main products (liquid lenses, liquid lens modules, drivers and camera modules) are now available for orders of up to 100,000 pieces per month. Varioptic is fully ISO9001 certified, and its stringent quality control and evaluation tests meet the exacting requirements of the mobile phone industry.

PRODUCTS

Main Products

Liquid Lens – ARCTIC Series		
	ARCTIC 416	The SMIA-compliant ARCTIC 416 Series liquid lens is dedicated to applications requiring fast response time and high optical power. It is especially suited to barcode applications.
	ARCTIC 314	Varioptic's Arctic 314 has been especially designed to match the requirements of camera module and camera phone manufacturers. This new product is the perfect fit for low footprint camera modules, for both 1/4'' and 1/3'' formats, and matching resolution up to 5MP.
Liquid Lens Driver – DrivIC 60 Series		
	DrivBoard 60 LL3 PWM / I²C	Driver Mini-Board, based on DrivIC 60 LL3. Complete reference design, available with either PWM or I²C control interface

Development Support Products

Lens Holders – VHD Series		
	VHD-002	Lens Holder designed to connect a Liquid Lens to the VPS-048 power supply. This allows you to evaluate the liquid lens added to your own fixed optics. Fits both ARCTIC 416 and ARCTIC 314.
Power Supplies – VPS Series		
	VPS-048	VPS-048 is used to deliver the right output voltage to the lens. It can be driven automatically (by an application running on a PC for instance), or manually (in a standalone mode)

Product Kits

🔵 For an evaluation of the technology: **The Liquid Lens Evaluation Kits**
These kits are designed to allow for a quick integration of the Liquid Lens into any application. This is achieved by simply placing the lens (either temporarily or permanently) in front of an imaging system; and manually driving the level of voltage through the provided power supply, thus changing the focus (alternatively, the power supply can also be application-driven through a specific API).

Liquid Lens Evaluation Kits		
ARCTIC 314 LL EK	**ARCTIC 416 LL EK**	**ARCTIC MIX LL EK**
5 ARCTIC 314	5 ARCTIC 416	3 ARCTIC 314
1 VHD-002	1 VHD-002	3 ARCTIC 416
1 VPS-048	1 VPS-048	1 VHD-002
		1 VPS-048

🔵 For complete integration and prototype development: **The Developer Kits**
These kits are intended for integrators and application developers willing to develop a standalone and integrated auto-focus solution. It comes with a complete and flexible set of components to cover most architectures.

Liquid Lens Developer Kits		
ARCTIC 314 LL DK	**ARCTIC 416 LL DK**	**ARCTIC MIX LL DK**
5 ARCTIC 314	5 ARCTIC 416	3 ARCTIC 314
5 flex cables	5 flex cables	3 ARCTIC 416
5 DrivBoard 60 LL3 PWM/I²C	5 DrivBoard 60 LL3 PWM/I²C	6 flex cables
1 VHD-002	1 VHD-002	6 DrivBoard 60 LL3 PWM/I²C
1 VPS-048	1 VPS-048	1 VHD-002
		1 VPS-048
Full Developer Kits		
ARCTIC MIX FULL DK		
3 ARCTIC 314		
3 ARCTIC 416		
A/F Source Code		
6 flex cables		
3 DrivBoard 60 LL3 PWM		
3 DrivBoard 60 LL3 I²C		
1 VHD-002		
1 VPS-048		

Next Steps

If you wish to place an order or discuss your specific requirements, please contact Varioptic at +33 4 37 65 35 31 or contact@varioptic.com.

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