optotune

Plug-and-play autofocus for cameras

No moving parts. No optical design. Compatible with off-the-shelf cameras.

Optotune's **Liquid lenses** and **ELM** modules, driven by the embedded **ECC-1C** lens controller, bring millisecond-range, high-precision autofocus directly into your existing camera ecosystem.



Millisecond autofocus
Reaches target focus faster than alternatives

Easy software integration
No custom drivers or firmware required

Large camera ecosystem
Supported by major camera manufacturers

Stable across environments
Maintains focal power despite temperature changes

Reduced integration risk
Validated path from evaluation to production

Compatible with

Allied Vision
BASLER the power of sight
Baumer Passion for Sensors
DAHENG IMAGING
OPTO ENGINEERING
3D VISIONLABS

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Integration overview



The focus loop runs entirely between camera and controller – your image-processing software never has to know it's there.

Camera compatibility matrix

Camera brand	Camera models	Software ecosystem	Autofocus integration	Cable type
Allied Vision	Alvium G1, G5, U	Vimba X	Runs on camera	Y-cable with external power
Basler	Ace, Ace 2, Boost	pylon Camera Software Suite	Runs on camera	Y-cable with external power
Baumer	VLXT	Baumer GAPI / BaumerCamExplorer	Runs on camera	Direct camera to lens
Daheng Imaging	MER3	Galaxy SDK / GxIPy	Runs on camera	Y-cable with external power
Opto Engineering	Itala G.EL Itala G.EL.IP	ITALA SDK / ITALA view	Runs on camera	Direct camera to lens
3D Vision Labs	ECM C7	Edge computing on NVIDIA® Jetson™	Runs on camera	Direct camera to lens

Trigger interfaces shown reflect the standard hardware I/O typically exposed by each camera line. Please confirm the exact GPIO pinout and timing requirements for your specific camera model with Optotune's application engineering team.

Applications

- Barcode scanners
- Quality control & industrial inspection
- Robot & bin-picking vision
- Packet sorting & box filling
- Palletizing

Ready to evaluate?

- Download **ECC-1C datasheet**
- Get **camera-specific integration notes**
- Request **Evaluation kit**
- Get our application engineering support at **sales@optotune.com**

Scan to get started:

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