

# OptiML™ Focus



People expect their camera-enabled mobile devices to have the same capabilities as traditional digital cameras, especially the automatic-focus feature. They want to capture a moment immediately. Unfortunately, users often miss capturing important memories and events because of the time delay with traditional imaging solutions which use mechanical parts.

DigitalOptics Corporation™'s OptiML Focus technology enables every picture to be in focus, every time. It automatically focuses the camera-enabled device, delivering high-quality images – for both still and video – with no moving parts.

OptiML Focus technology delivers a smaller, lower cost, easier to manufacture alternative to mechanical auto-focus for improved features and smartphone camera modules. It offers extended depth of field, providing vivid, crisp images whether the subject is at close range or at a much greater distance.



## Features

- **Extended depth of field with no moving parts**
- **Fast focus with no time delay**
- **Ideal for business card and barcode reading**
- **Ideal for high-quality HD video capture**
- **High-quality still images in outdoor and low-light environments**

**OptiML Focus delivers a high-quality image that is always in focus**

OptiML Focus technology enables the immediate capture of fast-moving subjects by eliminating the time delay associated with mechanical solutions. The technology combines custom lens design and innovative image processing algorithms that result in an image that is always in focus, regardless of distance to the subject or circumstance: spur of the moment, posed, etc.

OptiML Focus image processing algorithms are implemented in hardware in the image sensor die, as a single chip system, image signal processor (ISP), or in the application processor. The lenses, which can be plastic or glass, are manufactured with standard existing injection molding production lines.

### Sample OptiML Focus Camera Specifications

Sensor Size	5.0Mp (1/5")
Focus Range	15cm to infinity
Full Business Card & QR Code Recognition Range	13cm - 20cm
F#	2.8
Diagonal Field of View	68°
Lens TTL	3.2mm
Lens Composition	4P



Instantly captured with OptiML Focus



Missed photo due to auto-focus delay

**Contact a DigitalOptics sales representative for more information.**

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