

OptiML™ Zoom Technology



The advent of smaller camera technologies has placed severe constraints on the optical design of camera modules - in particular, zoom. DigitalOptics Corporation™ (DOC) OptiML Zoom technology eliminates all the drawbacks of traditional mechanical zoom solutions while significantly advancing what's possible in a mobile device.

The size and cost of optical or mechanical zoom makes it impractical for today's smaller, thinner cell phones. Many camera phones today come with digital zoom, but fail to deliver the high-quality continuous zoom experience consumer expect with digital still cameras (DSCs).

OptiML Zoom technology combines a unique lens design with specialized algorithms, enabling 3x zoom capabilities. This translates to a smaller, more cost-efficient solution that is both easier to manufacture and more reliable while maintaining comparable image quality to other optical or mechanical zoom solutions.

OptiML Zoom technology is based on a unique lens which distorts an image to provide variable magnification across the image sensor. It utilizes oversampling in the sensor periphery to increase the resolution in the center of the image, which produces a zoomed image that has higher resolution than a standard digitally zoomed image. The technology also offers superior, low-power continuous zoom capabilities for video capture, and significantly improved low-light performance.

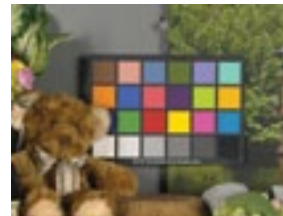
Key Features

- Low cost
- Low-profile optics
- 3x continuous zoom capabilities
- Fixed and low F/#-enabled at all zoom values
- High-quality images

Technical Specifications (OptiML Zoom)

Image Resolution	8Mp
Optical Format	1/3"
Lens Composition	5P
Zoom	3X (continuous)
F-Number	2.65
DFoV	73°
Module Height	6.5mm

Digital Zoom



OptiML Zoom



OptiML Zoom provides continuous 3X zoom capabilities providing high quality at low cost

Contact a DOC sales representative for more information.

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