



OV2640 2 MPixel product brief



available in
a lead-free
package

world's smallest 2 megapixel CameraChip

The OV2640 is the world's first 1/4 inch 2 megapixel sensor. It's a fully integrated CameraChip™ built on OmniVision's latest 2.2 micron OmniPixel2™ architecture and can be assembled in the very popular 8 x 8 mm sockets with a building height as low as 5 mm, essentially thinner than today's 1.3 megapixel camera modules. This optimal sensor size, coupled with an embedded compression engine, allows customers to use the same camera interface bandwidth as they have used with their 1.3 megapixel sensors, making it very easy to upgrade their current platforms to the OV2640's 2 megapixel solution without hardware or mechanical changes.

The OV2640 takes advantage of the many process and design improvements of the new OmniPixel2 architecture, including more vibrant color, a zero-gap micro lens structure, an increased fill factor as well as significant improvements in the quantum efficiency and full well capacity resulting in a very small but highly sensitive 2.2 micron pixel.

In addition to the benefits of the OmniPixel2 architecture, OmniVision also integrated an advanced image signal processing block (OmniQSP™), which provides high-grade picture processing and additional features traditionally only found in digital still cameras. This advanced imaging processor has become very important as the camera phone continues to evolve from a simple gadget to a full fledged digital camera.

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