

Omnivision first company to implement BSI technology on VGA CMOS image sensors

Medical Design Technology

Using a 1.75-micron OmniBSI pixel, the OV7727 delivers video conference-quality low-light performance of 1300 mV/lux-sec, while also enabling complete camera modules with Z-height as low as 2.2 mm, ideal for tomorrow's ultra-thin portable devices.

*"VGA sensors are generally considered low-end and low-cost, but the OV7727 is quite the opposite in terms of performance. It is a very high-end VGA product, and currently the only sensor on the market that can meet the size, cost and performance requirements of the next generation high-end notebook market," said **Nicholas Nam**, senior product marketing manager at OmniVision. "We listened to our customers and realized there was real demand for thinner yet better performing notebook cameras to facilitate the continued design shrink in the notebook market. To fill that need we used our most advanced pixel technologies to develop a product that underscores OmniVision's leadership in the digital imaging industry."*

The OV7727 offers complete user control over image quality, resolution and output data format. It provides full frame, sub-sampled, windowed or scaled 8-bit/10-bit images in RAW RGB format over a parallel DVP interface or serial MIPI port, offering a versatile platform for use in single and multi-camera applications. A new feature on the OV7727 is a serial peripheral interface, which supports multiple cameras using a single controller, while also offering support to touch screen applications.

The OV7727 comes with a full array of high end image processing functions, including automatic exposure control, gamma correction, automatic white balance control, and defect pixel correction, which are all programmable through the serial camera control bus interface. The OV7727 is now available for sampling and is expected to enter mass production in September 2010.

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[1] <http://www.i-micronews.com/lectureArticle.asp?id=5379>

[2] <http://www.MDTmag.com/News/Feeds/2010/08/products-electronic-components-omnivision-first-company-to-implement-bsi-technolo/>

