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Samsung Integrates Tessera's OptiML Technologies Into HD Image Sensors

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Tessera has announced that its OptiML Focus solution for extended depth of focus capabilities, and OptiML UFL solution for improved low-light performance have been integrated into Samsung's 2.0 megapixel, full HD CMOS image sensor for notebook computer cameras and other applications.

There is a raise in demand among consumers for video cameras in portable devices and the increase in use of video capture and HD video in mobile cameras is fueling the demand for enhanced image sensors for notebook computers.

Samsung has stated that the new CMOS image sensor has the advantages of using a battery for extended time of use, with low power consumption and noise reduction at high sensitivity. Moreover, the CMOS image sensor can express clear images with high definition and excellent reliability in color by improving the amount of light received per unit area through the refinement of the circuit process.

With the integration of OptiML technology, Samsung has stated that its image sensors are better able to meet the growing needs of indoor video capture in notebook computer cameras and other applications. The company's ongoing work with Tessera continues to enhance its capabilities and provide more value for its customers.

OptiML technology is an innovative wafer-level camera (WLC) technology designed to significantly advance the integration of miniaturized cameras in mobile phones, personal computers, security cameras and other portable electronic devices.

The OptiML image enhancement solutions combine innovative lens design with digital image processing algorithms to offer improved low-light performance for high-quality video conferencing capabilities in indoor situations. The camera integrated with these innovative technologies can offer depth of field ranging from

20 cm to infinity which makes business card reading and text and barcode image capture more precise.

Officials with Tessera have stated that they are delighted that their partner Samsung is proliferating its use of Tessera optical image enhancement technology beyond mobile phones and into the rapidly growing area of notebook computer video capture. Their goal is to combine advanced optical design and image processing to give their customers advanced miniaturized features for their camera-based applications.

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