

## Excelitas Technologies Introduces New High-performance Surface-mount Optoelectronic Devices for Cutting-edge Sensing Applications at SENSOR + TEST 2012

*Excelitas' latest SMD DigiPyro® and SMD DigiPile™ detectors, Si APDs in SMD, and new OptiBlock™ SMD device enable automated, high-volume manufacture for cutting-edge sensing applications*

**Nürnberg, Germany, May 21, 2012 – SENSOR + TEST 2012 – Nürnberg Exhibition Centre – Hall 12, Stand Number 12-503 – [Excelitas Technologies](http://www.excelitas.com)**, a global provider of innovative, customized optoelectronic solutions, will debut its newest high-performance surface-mount pyroelectric infrared detectors, thermopiles, avalanche photodiodes, and SMD Opto Assemblies at Sensor + Test 2012, which is taking place May 22-24 at the Nürnberg Exhibition Centre. Excelitas' innovative range of detectors in SMD is expressly designed to enable automated, high-volume production for cutting-edge sensing applications, including motion and presence detection, non-contact temperature sensing, and gesture recognition.

“Excelitas Technologies is delighted to showcase at Sensor + Test the latest sensor innovations in our growing portfolio of thermal and solid state detection solutions,” said Michael Ersoni, senior vice president and general manager for the global detection business, Excelitas Technologies. “With our new surface-mount detectors, we are excited about the ability for our customers to ramp-up next-generation applications utilizing automated, high-volume assembly processes,” Mr. Ersoni added.

### **Exhibition Highlights**

- **New Infrared Detectors and Modules in SMD.** Excelitas will be showcasing its newest surface-mount design (SMD) pyroelectric IR detectors and thermopile sensors, and introducing its new DigiPyro® - PYD 5790, a brand new dual-element DigiPyro® in SMD. With a height of only 1.8 mm, the DigiPyro® PYD 5790 is the smallest pyro of its kind on the market. Excelitas will also be featuring its new DigiPile™ digital thermopile in an SMD package, the DigiPile™ - TPIS 1S 1253. Excelitas' IR Detectors and Modules in SMDs are well-suited to motion and presence detection for secure homes, motion sensing for automatic light switching, energy-conserving home appliances, thermometry, and other high-volume applications.
- **New Avalanche Photodiodes in SMD.** Excelitas will be showcasing its surface-mount APDs to facilitate high-volume, automated “pick-and-place” manufacturing. Its [C30737CH Series](#)

[of Si APDs](#) and [C30737LH Series of Si APDs](#) will be on display. The large size of the APD's active area for the C30737CH Series and C30737LH Series facilitates easy optical assembly. Excelitas' high-speed, large bandwidth APDs are specifically designed for laser meter, laser range-finding, 3D laser scanning, and cutting-edge, high-volume consumer sensing applications such as gesture recognition.

- **New Opto Assemblies in SMD.** Excelitas will be introducing a unique surface-mount design device called OpticBlock™ that is well-suited to high-volume production of [electro-optical smoke detector assemblies](#). Excelitas' OpticBlock consists of a pre-aligned photodiode (PD) and Infrared LED (IRED) in a fixed, single-component optical and mechanical configuration, ready to be assembled into a defined smoke chamber. The superior design of the OpticBlock does not obstruct air flow to the smoke chamber, ensuring for 360° smoke entry and sensitivity. The OpticBlock can be ordered in "tape-and-reel" packing format, which allows for automated, SMD-compatible, RoHS-compliant reflow soldering.

Excelitas Technologies provides innovative, optoelectronic solutions to enable our customers' success in six major applications areas: [Energy-conserving and Environmental](#), [Safety and Security](#), [Industrial](#), [Medical](#), [Analytical Instrumentation and Life Sciences](#), and [Aerospace and Defense](#).

In addition to our innovative new SMD Infrared Detectors and Modules, Avalanche Photodiodes, and Opto Assemblies, Excelitas provides a broad range of photon detection and infrared sensing technologies, products, and solutions, including: [Single Photon Counting Modules \(SPCMs\)](#); [Photodiodes and Photodiode Arrays](#); [High-speed, low-light Analog APD Receiver Modules](#); [Pulsed Laser Diodes](#); and [CCD Cameras and Imagers](#).

Excelitas Technologies will exhibit at stand number 12-503 in the Nürnberg Exhibition Centre.

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**About Excelitas Technologies**

Excelitas Technologies is a global technology leader focused on delivering innovative, customized solutions to meet the detection, lighting, and advanced electronic systems needs of OEM customers. From safety and security applications to industrial, consumer, medical, analytical instrumentation, clinical diagnostics, and aerospace and defense applications, Excelitas Technologies is committed to enabling our customers' success in their specialty end-markets. Excelitas Technologies has approximately 3,000 employees in North America, Europe and Asia, serving customers across the world.

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