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## **ULIS' Pico640 Gen2 simplifies thermal imaging for professional cameras**

**New sensor offers night vision security and surveillance camera makers higher thermal image resolution that is easier and faster to install**

**ULIS will display Pico640 Gen2 at  
SECON, South Korea, March 18 – 20, 2015 at stand E39**

**Veurey-voroize, near Grenoble, France, March 18, 2015** – ULIS, a leading manufacturer of thermal image sensors for commercial and military applications, today announces the availability of Pico640 Gen2.

Pico640 Gen2 is a VGA format 17-micron thermal image sensor for 24/7 security night vision, a market where makers of surveillance cameras are demanding significantly improved thermal imaging capabilities with seamless integration.

For decades, the complexity and cost of thermal imaging technologies originally designed for military applications precluded them from commercial use. Newer thermal technologies based on microbolometers, a MEMS (microelectromechanical systems) technology that ULIS develops, have changed the landscape by making thermal imaging more accessible.

In addition to security and surveillance systems, ULIS's new sensor can also be used in cameras for outdoor leisure, such as nature observation or hunting.

"ULIS has designed Pico640 Gen2 to match increasing requirements from fixed and portable camera makers for high standard thermal imaging technologies that are easier to install," said Jean-François Delepau. "We have stripped away the complexity by closely aligning our thermal image sensor with all-important commercial standards. Customers can now have easier access to top-notch thermal image resolution at longer detection ranges with enduring performance at an affordable cost. We are eager to show security and surveillance professionals the benefits of our Pico brand products."

Pico640 Gen2 is quick and easy to install because it uses Hsync/VSync clocking and an I2C standard communication protocol that are compatible with commercial camera standards. In addition, Pico640 Gen2 is easy to calibrate, even in shutterless mode, due to the predictability of the sensor's behavioral patterns over varying operating temperatures.

Other significant improvements include better image quality through higher image resolution (>300kpixels). This means that users can capture the most minute details up to a distance of several hundred meters. The product offers faster frame rates from 30Hz to 120Hz that provide more fluid images. No matter how fast an object is moving, captured images remain unblurred.

Another parameter, the NEDT (Noise Equivalent Differential Temperature), has also been upgraded. NEDT enables a longer detection range and crisper images; the lower the NEDT, the sharper the image. Dipping far below 50mK means that this model has achieved a more than 15% improvement over earlier generations, without any trade-off in power consumption. It operates at less than 130mW with a 60Hz frame rate. This is in contrast to other thermal imaging sensors in this category, which tend to consume more power, typically >200 to 350mW at an equivalent frame rate.

All Pico640 Gen2 features are housed in ceramic packaging, a cost-saving production technique ULIS first introduced to the market ten years ago. It has shown its value and vacuum integrity in the 500,000 ULIS thermal image sensors already in the field.

ULIS' Gen2 products will be displayed at SECON, an international security conference and exhibition taking place March 18 – 20, 2015 in South Korea, at booth #E39. SECON draws close to 38,000 visitors annually.

### **About ULIS**

ULIS, a subsidiary of Sofradir, specializes in the design and manufacture of high quality thermal image sensors for commercial and military applications. It enables makers of consumer electronics and infrared equipment to produce low weight, low power consumption and cost-effective thermal cameras for everyday use.

ULIS is the second largest producer of thermal image sensors (microbolometers). It offers a targeted range of microbolometers that are the key component of many top brands in thermal imaging equipment sold across Europe, Asia and North America. ULIS is active in security and surveillance, energy management and in the thermography, defense and automotive markets. Hundreds of thousands of its products are used to detect threats and thereby protect property, industrial sites, national borders, and commuter systems as well as military personnel in combat zones. Many other professionals are increasingly choosing thermal imaging devices equipped with ULIS' products due to the excellent performance of ULIS' technology and its affordability for mainstream commercial applications. Size, weight, low power consumption and lower cost reductions drive ULIS innovations enabling the company to address new trends in energy efficiency for building automation and advanced driving assistance systems for vehicles. ULIS is located in Veurey-Voroize, near Grenoble. For more information, visit: <http://www.ulis-ir.com>

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