Lynred unveils ATI320, its first Advanced Thermal Imager with embedded image signal processing

Embedded image correction features, plus a lens option, make it easier and quicker for manufacturers of all camera types to integrate thermal imaging

Grenoble, France, August 31, 2021 – Lynred, a leading global provider of high-quality infrared detectors for the aerospace, defense and commercial markets, today announces the unveiling of ATI320, its first advanced thermal imager with embedded image signal processing. The product's embedded features, with a lens available as an option, aim at saving camera makers time and effort in integrating thermal imaging during the development and manufacturing process, enabling them to speed products to market.

Designed as a ready-to-use product, ATI320 simplifies the calibration process during camera assembly, relieving manufacturers from performing complex steps. A key motivation underpinning the product's advanced design is in eliminating tricky integration steps, in order to extend access to infrared technology for newer thermal image market entrants.

"ATI320 marks a milestone in Lynred's strategic development towards bringing more ambitious and innovative value-added propositions to key markets," said Jean-Yves Dussaud, chief marketing officer at Lynred. "This Advanced Thermal Imager is the culmination of our teams' latest know-how and dexterity in developing image processing solutions, electronics and software for our microbolometer technology, in which we have a 20-year legacy."

Market applications
ATI320 is particularly suitable for camera makers in industrial, consumer equipment and safety across a broad range of activities, for example in Unmanned Aerial Vehicles (UAVs) for aerial thermal inspection, as its thermal imaging solutions are compact, lightweight and low power consumption. It provides the calibration, the associated image processing algorithms and a lens, when required.

Product features
ATI320 (16x16mm) is the most compact QVGA (320x240 pixels) resolution thermal imager available and comes with ruggedized housing. It is available in two models: ATI320L (with lens) and ATI320S (without lens). It operates as a shutterless product - providing continuous image viewing - an important function for the leisure, firefighting and security-surveillance market applications.

In contrast to comparable solutions, ATI320 offers more flexibility in camera designs, since manufacturers can choose and optimize where to place ATI320 within the camera.

Product performance

- Resolution: 320x240; 12µm pixel pitch
- NETD (Noise Equivalent Temperature Difference): f/1, 300 K scene, 20°C ambient for ATI320S version: <60mK
- Scene dynamic >100°C
- Operating T°C range: -40°C; +85°C
- Full digital product with power consumption <400mW, when an image signal processing is fully activated
- Frame rate: 60Hz
- Standards compliance: Mil-Std-810/883
- Weight: <3g for ATI320S version; <7g for ATI320L version

About Lynred

Lynred and its subsidiaries, Lynred USA and Lynred Asia-Pacific, are global leaders in designing and manufacturing high quality infrared technologies for aerospace, defense and commercial markets. Lynred has a vast portfolio of infrared detectors that covers the entire electromagnetic spectrum from near to very far infrared. The Group's products are at the center of multiple military programs and applications. Its IR detectors are the key component of many top brands in commercial thermal imaging equipment sold across Europe, Asia and North America. The organization is the leading European manufacturer for IR detectors deployed in space.
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