



Sofradir's Snake SW Tecless detector selected for Allied Vision's latest Goldeye SWIR camera

Industrial camera Goldeye, designed with Sofradir's cost-effective uncooled SWIR technology, is now available as an affordable, low-power solution for multiple imaging applications

Camera demo of a microscope-based semiconductor inspection on display at Photonics West, booth 2369 South Hall, February 5 – 7, at the Moscone Center, San Francisco (CA)

Photonics West, San Francisco (CA), USA, February 5, 2019 – Sofradir, a global leader in designing and manufacturing high quality infrared technologies, and Allied Vision Technologies, a market leading manufacturer of machine vision cameras, today announce the availability of Goldeye G/CL-033 TECless, a cost-effective SWIR (shortwave infrared) industrial camera designed with Snake SW Tecless technology.

Using Sofradir's Snake SW Tecless detector, Allied Vision's Goldeye cameras have VGA resolution housed in very compact housing (55x55x78mm), allowing integration into systems with limited space.

Allied Vision designed its new model Goldeye G/CL-033 TECless industrial cameras around the Snake SW Tecless sensor due to the uncooled detector's small footprint (0.65in², 3.23cm²), the compatibility of its frame rate (300 frames per second) within most industrial in-line inspection requirements and its availability in large volume. In addition, the detector is distinguished by its exceptional level of performance in terms of low noise and image quality.

Snake SW Tecless is manufactured based on the cost-efficient high-volume standards typically used for visible image sensors, which makes SWIR technology more affordable in cost-sensitive applications such as industrial machine vision.

"The industrial machine vision market has, thus far, been dominated by visible light CMOS/CCD cameras for product sorting and quality control. Yet, cameras using SWIR wavelengths have proven to be effective in solving challenges where the capacities of visible light fall short," said Sebastien Frasse-Sombet, SWIR product line manager at Sofradir. "Until now, the cost of SWIR technology has been prohibitive for most high-volume applications. Our new affordable Snake SW Tecless detector helps customers justify the use of SWIR solutions like the Goldeye camera in machine vision applications aimed at increasing production yields and improving performance and quality."

Goldeye G-033 TECless with Snake SW Tecless is among the fastest GigE Vision compliant SWIR cameras on the market. The camera achieves an outstanding image quality due to multiple image correction features such as non-uniformity, defect pixel and background correction. It offers advanced features including auto-contrast, look-up tables and comprehensive I/O control. By selecting smaller Regions-of-Interest (ROI), the camera's frame rate can be increased even further and image data processing can be optimized.



"As a global player in the machine vision market, Allied Vision has been a driver of SWIR imaging for years. We believe that the combination of Sofradir's knowledge in manufacturing infrared sensors and Allied Vision's expertise in sensor integration, including image correction and optimization, will sustain the ongoing growth in the SWIR imaging market," said Jens Hashagen, senior product manager at Allied Vision Technologies.

"With SWIR vision system costs gradually decreasing thanks to the maturity and production volumes of these technologies, the adoption of SWIR vision technology is accelerating to reliably cover a growing spectrum of applications," added Sebastien Frasse-Sombet.

Allied Vision will showcase its Goldeye G-033 TECless camera, designed with the Snake SW Tecless detector, in a microscope-based semiconductor inspection demo, at [Photonics West](#), booth 2369 South Hall, February 5 – 7, at the Moscone Center, San Francisco (CA)

About Allied Vision Technologies

Allied Vision Technologies delivers camera solutions for industrial inspection, medical and scientific imaging, traffic monitoring and many more applications. The company serves a large array of imaging application markets, from quality inspection to interactive point-of-sale advertising, from traffic monitoring to 3D-microscopy. Allied Vision Technologies is part of the [TKH Group](#).
www.alliedvision.com

About Sofradir

Sofradir and its subsidiaries ULIS and US-based Sofradir-EC are global leaders in designing and manufacturing high quality infrared technologies for aerospace, defense and commercial markets. Their vast portfolio of infrared detectors 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. It employs 1,000 staff. Safran and Thales are equal (50/50) shareholders.

www.sofradir.com; www.ulis-ir.com; www.sofradir-ec.com/

Media contact
Andrew Lloyd & Associates
Carol Leslie
carol@ala.com
UK and US: +44 1273 675 100
France: +33 1 56 54 07 00