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Advanced SWIR Imaging: Allied Vision releases 5GigE Goldeye Pro Camera Series
New camera series features Sony's IMX992/993 SenSWIR sensors with thermo-electric cooling (TEC1)

*Stadtroda, Germany, July 14, 2025* – With the release of the Goldeye Pro series, Allied Vision is offering a new generation of short-wave infrared cameras that feature a 5GigE interface and is designed to provide exceptional image quality for enhanced accuracy and reliability. The **Goldeye Pro G5-530 and G5-320 VSWIR TEC1** cameras take SWIR imaging to the next level by improving throughput, image quality, and performance. They're the newest members of Allied Vision's comprehensive SWIR portfolio and are designed to meet the diverse needs of industrial, scientific, and medical applications.

The Goldeye Pro camera series incorporates the TEC-version of Sony's IMX992/993 SenSWIR sensors, sensitive from 400nm to 1,700nm, offering improved throughput and fast image transfer rates thanks to its 5 GigE interface, making them perfectly suited for demanding applications requiring precision and reliability. Simultaneously, the cameras maintain effective sensor temperature stabilization via a thermo-electric cooler (TEC), ensuring outstanding and reproducible image quality with unmatched details at high frame rates.

**On-board image correction features for excellent image quality**
The cameras come with advanced features for excellent image quality, including automated or manually controlled thermo-electric cooling (TEC1), dark current suppression, non-uniformity and defect pixel correction with automatic adaptation. They also feature 12- and 10-bit sensor readout modes for achieving the highest possible dynamic range. Additionally, Goldeye Pro cameras offer region-of-interest control to speed up frame rates and optimize bandwidth usage, look-up tables to increase contrast, and digital binning and gain control to increase sensitivity. Furthermore, multiple user sets are available for simplified camera setup.

The benefits of the Goldeye Pro camera series include efficient sensor cooling for reproducible imaging results even in dynamic environments. Thereby, they support the highest possible resolution of 5.32 MP for IMX992 sensors with 3.45 µm pixels for detailed and accurate imaging. The advanced features and unparalleled image quality of the Goldeye Pro cameras make them an ideal choice for applications requiring high-performance SWIR imaging.

“We are proud to announce that the Goldeye Pro camera series has been recognized with the VSD China Innovators Awards in Bronze, presented by Vision Systems Design China,” says Jens Hashagen, Senior Product Segment Manager at Allied Vision. “This recognition reflects our continuous commitment to high-quality SWIR imaging and future-oriented innovation. We leverage advanced technology to solve real-world challenges in SWIR imaging. The Goldeye Pro series embodies our customer-centric approach, delivering exceptional imaging results that exceed customers’ expectations.”

**Goldeye Pro Camera models at a glance**

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| **Camera Model** | **Sensor Model** | **Resolution** | **Frame Rate** | **Pixel Size** | **Optical Format** | **Cooling Power** |
| **Goldeye G5-530 VSWIR TEC1** | Sony IMX992 SenSWIR with TEC (IMX992AABA) | 2592 × 20565.3 MP | 115 fps | 3.45 μm | Type 1/1.4 | ΔT=30K (typical) |
| **Goldeye G5-320 VSWIR TEC1** | Sony IMX993 SenSWIR with TEC (IMX993AABA) | 2080 × 15443.2 MP | 159 fps | 3.45 μm | Type 1/1.8 | ΔT=30K (typical) |

**About Allied Vision**For more than 30 years, Allied Vision has been developing industrial machine vision cameras for customers by focusing on what counts. By obtaining a deep understanding of customers’ needs, Allied Vision finds individual solutions for every application, a practice which has made Allied Vision one of the leading camera manufacturers worldwide in the machine vision market. The product range includes 2D and SWIR camera technology that provides image capture solutions for factory automation, logistics, medical imaging, and many more digital imaging applications.

The company has locations in Germany, Canada, the United States, Singapore and China and is represented by a network of sales partners in over 30 countries.

Allied Vision is a TKH Vision brand.

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