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| **Press release** | **October 7, 2024** |
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Coming soon: Goldeye Pro Short-wave infrared cameras with 5GigE interface

Allied Vision to release first Goldeye Pro models with the TEC-version of Sony’s IMX992/993 SenSWIR sensors

*Stadtroda, Germany, October 7, 2024* – With the Goldeye Pro SWIR camera series Allied Vision is expanding its SWIR camera portfolio. The new Goldeye Pro camera series is designed to leverage SWIR vision systems to the next level regarding throughput, quality, and imaging performance. The Goldeye Pro G5-530 TEC 1 and Goldeye Pro G5-320 TEC1 incorporate the TEC-version of Sony’s IMX992/993 SenSWIRTM sensors sensitive between 400nm – 1,700nm. They enable high-resolution SWIR imaging with unmatched details at high frame rates by providing best in class imaging performance. Equipped with a GigE Vision compliant 5 Gbps interface, they can optimally support the bandwidth requirements of the latest SWIR sensor solutions while enabling simultaneously an efficient sensor temperature stabilization via thermoelectric cooler (TEC).

**Upcoming camera models at a glance**

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| **Model** | **Sensor** | **Resolution  (H × V)** | **Frame Rate** | **Pixel size** µm × μm | **Optical Format** | **Cooling Power** |
| **Goldeye Pro G5-530 TEC1** | IMX992 SenSWIR | 5.3 MP 2592 × 2056 | 115 fps | 3.45 × 3.45 | Type 1/1.4 | min. ΔT= 25K |
| **Goldeye Pro G5-320 TEC1** | IMX993 SenSWIR | 3.2 MP 2080 × 1544 | 150 fps | 3.45 × 3.45 | Type 1/1.8 | min. ΔT= 25K |

**Benefits for the user**

* 5GigE Vision interface, GenICam-compliant feature control, and a free comprehensive GUI-viewer application provide a plug & play feeling when evaluating Goldeye Pro cameras and speed up the integration into any system.
* Automatic on-board image correction and stabilized sensor cooling without a fan ensure best possible imaging results even when the camera configuration changes.
* Lockable connectors and an extended operating temperature range enabling secure operation under harsh conditions.
* Power over Ethernet (PoE) and comprehensive, configurable I/O control options simplify the connection of Goldeye Pro cameras to your host system and the synchronization with other system components.
* Ability to update firmware in the field will simplify the systems’ maintenance.
* Advanced features, such as:
  + ROI settings for frame rate and bandwidth control
  + Built-in image correction for optimized image quality:   
    Non-uniformity correction with automatic adaption, Defect pixel correction, Background correction
  + Look-up tables to increase contrast
  + User sets for simplified camera setup
  + Digital binning and gain control to increase sensitivity

**TKH Vision SWIR area scan camera portfolio**Together with the TKH Vision sister companies SVS-Vistek and NET, Allied Vision is offering the broadest area scan camera portfolio for SWIR imaging in the market. It includes:

* Goldeye SWIR cameras with high grade of versatility whether resolution, interface (GigE Vision and CameraLink), lens-mount, spectral range (up to 2,200nm), or thermo-electric sensor cooling (TEC1, TEC2, TECless) wise.
* TEC-less Alvium SWIR cameras with multiple interface options (GigE Vision, 5GigE Vision, USB3 Vision, or CSI-2 interface incl. FPD-Link III or GSML2TM), and up to 5.3 Megapixel resolution
* iam SWIR Smart cam supporting all TEC-less IMX99x SenSWIR sensors
* EXO & FXO SWIR cameras support both Sony SenSWIR sensors sensitive from 400 - 1,700 nm. While the EXO supports tec-less IMX990/991 and provides a GigE or USB3 interface, the FXO is supporting IMX990/992/993 with and without TEC at fastest frame rates via its 10GigE or CoaXPress-12 interface.

**Allied Vision company profile**For more than 30 years, Allied Vision has been helping people to reach their imaging goals. Allied Vision supplies camera technology and image capture solutions for industrial inspection, medical and scientific imaging, traffic monitoring and many more application areas in digital imaging. With 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 company has nine 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 member of the TKH Group.

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