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| **Press release** | **October 7, 2024** |
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Now available: High-resolution short-wave infrared Alvium cameras

Allied Vision integrates Sony’s latest SenSWIR sensors IMX992 and IMX993 into its compact Alvium camera series

*Stadtroda, Germany, October 7, 2024* – Allied Vision is expanding its powerful Alvium cameras series for machine vision applications with new models featuring Sony’s latest sensors with Sony’s SenSWIRTM Technology. Equipped with the 2nd generation SenSWIR InGaAs sensors IMX992 and IMX993, Alvium SWIR cameras deliver high resolution images at fast frame rates in a design offering small size, light weight, and low power consumption, including low cost (SWaP+C). The sensors will be available in Alvium cameras with either 5GigE Vision, USB3 Vision or with MIPI CSI-2 interface.

Allied Vision’s Alvium SWIR cameras are the smallest industrial-grade short-wave infrared (SWIR) imaging devices on the market ideally suitable to build extremely compact systems for applications with limited space, such as handheld devices or drones.

**Upcoming camera models at a glance**

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| **Model** | **Sensor** | **Resolution  (H × V)** | **Frame Rate** | **Pixel size** | **Optical Format** |
| **Alvium C-530** | IMX992 SenSWIR | 5.3 MP 2592 × 2056 | 84 fps | 3.45 µm x 3.45 μm | Type 1/1.4 |
| **Alvium U-530** | 77 fps |
| **Alvium G5-530** | 84 fps |
| **Alvium C-320** | IMX993 SenSWIR | 3.2 MP 2080 × 1544 | 131 fps | 3.45 µm x 3.45 μm | Type 1/1.8 |
| **Alvium U-320** | 125 fps |
| **Alvium G5-320** | 131 fps |

**Benefits for the user**

* Small form factor and low weight make Alvium SWIR cameras ideally suitable for OEM system designs:   
  - Compact housed versions with popular 29 mm x 29 mm footprint  
  - Bare board versions with a footprint of 26 mm x 26 mm for most-compact system designs
* Extensive modular options provide high flexibility for design-ins. For example, C-, CS, and S-Mount, Alvium Frame and bare board cameras, or sensors without cover glass.
* Innovative digital InGaAs sensors with the industry’s smallest pixels are precisely aligned in the camera to enable great image quality and maximum accuracy for your inspection system.
* High frame rates that can be increased by region of interest (ROI).
* On-board Automatic Gain Control (AGC) and Contrast Control enhance the vision quality under challenging conditions, like seeing through haze, fog, or smoke.
* A wide operating temperature range and on-board temperature monitoring secure a reliable operation under diverse conditions.

**Imaging in the visible and SWIR spectrum with a single camera**Alvium SWIR cameras support a spectral range from 400 nm to 1700 nm at high quantum efficiencies. This allows to capture images in both the visible and SWIR spectra with a single camera and enables users to reduce overall system costs! In combination with a high-precision sensor alignment at production time, inspection systems with highest requirements regarding image quality, resolution, and precision can be realized.

**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:

* Goldey 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).
* TECless 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 and FXO cameras with Sony SenSWIR sensors with 400 – 1,700 nm spectral sensitivity and CoaXPress-12 and 10GigE 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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