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New in Alvium camera portfolio: Sony IMX548 sensor and additional GenIcam features

Allied Vision expands sensor choice and offers advanced features with new firmware for Alvium Cameras

*Stadtroda, Germany, January 25, 2023* – Allied Vision integrates Sony’s 4th generation 5.1 Megapixel IMX548 global shutter sensor with Pregius S Sensor Technology into its Alvium camera portfolio. With the new camera models, the Sony IMX548 sensor is now also available in Alvium cameras with either GigE Vision (Alvium G1-510), 5GigE Vision (Alvium G5-510), USB3 Vision (Alvium U-510), or MIPI CSI-2 (Alvium C-510) interface. The IMX548 sensor provides the same pixel size and resolution as Sony’s IMX547 but comes in a smaller, more affordable sensor package which makes the cameras slightly less expensive. With these additional models Allied Vision is offering a large choice of Alvium cameras with different interfaces and various housing options providing the very popular resolution of around 5 MP.

**New camera models at a glance**

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| **Model** | **Sensor** | **Resolution  (H × V)** | **Frame Rate** | **Pixel size** | **Optical Format** |
| **Alvium G1-510** | IMX548 | 5.1 MP 2464 x 2064 | 22 fps | 2.74 µm | 1/1.8” |
| **Alvium G5-510** | 81 fps |
| **Alvium U-510** | 79 fps |
| **Alvium C-510** | 81 fps |

**New Features with Alvium Camera Firmware V11**Together with the hardware release, user of Alvium cameras can benefit from a new version of the Alvium Camera Firmware V11 introducing sophisticated GenICam compliant features, of which these should be emphasized:

**GenICam compliant Sequencer:**The sequencer allows to acquire images of an object in up to 16 different settings. Each set stores image settings (e.g. ExposureTime, FrameRate, Balance Ratio, Gamma, Saturation) and multiple possible transitions on trigger events. Each set can have up to 8 paths to any other set. For Alvium cameras with USB, GigE, and 5GigE interface an additional Offset X/Y Mode for IMX GS sensors is available.

**Counter**Up to 4 individual counters can be defined to count different events, such as LineN, Exposure Active, Acquisition Active, or number of software signals. The counter can also be used as a timer for triggering on every n-th image. In combination with the sequencer the user can define that the set should be changed after n acquired images or triggers.

**Debouncer**This feature allows to filter out unwanted noisy and too short hardware input signals. Only sufficiently long input signals are allowed to pass through the debouncer to trigger the camera. The user can define the minimum duration of the input signal to cause a trigger. Two modes of using this functionality are available: The “Delay Mode” makes the camera wait until the signal is stable enough according to the Debounce Duration. Whit the “Stall Mode” it is checked if the input signal has the same value after the Debounce Duration to take over the new level.

For Alvium G1 and G5 cameras there are additional features available:

* **Action Commands** for Triggering, Sequencer, Timer   
  (now also available in Alvium G1 cameras)
* **Flow Control** to avoid the loss of images or data  
  (now also available in Alvium G1 cameras)
* **Burst Mode** for up to 150% higher framerates (only available for Alvium G1 cameras)

**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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