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| **Press release** | **March 13, 2023** |
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Alvium GigE Vision cameras now available with SWIR and UV sensitivity

With three new sensors, Allied Vision expands the spectral range of the Alvium G1 camera series

*Stadtroda, Germany, March 13, 2023* – Allied Vision expands the sensor line-up for its GigE Vision Alvium G1 cameras series by introducing two Sony SenSWIR sensors and the IMX487 CMOS sensor with ultraviolet (UV) sensitivity from Sony. With this extension, the Alvium G1 cameras series broadens its spectral range, now offering imaging capabilities from 200nm to 1700nm. As a result, it is suitable for various industrial and scientific applications. With a compact form factor of 29 mm × 29 mm x 41 mm the Alvium G1 series provides the smallest industrial grade SWIR and UV imaging cameras on the market. It is therefore ideally suited for building extremely compact OEM systems for machine vision applications.

**SWIR sensitivity**Alvium G1-130 VSWIR and Alvium G1-030 VSWIR feature the IMX990 and IMX991 InGaAs based SWIR sensors. The two TEC-less SenSWIR sensors from Sony with VGA (IMX991) and SXGA (IMX990) resolution enable users to capture images with high quantum efficiency in the visible as well as the SWIR spectrum with a single camera, reducing overall system costs. The innovative architecture of the InGaAs digital sensors allows pixel sizes of only 5µm and high image homogeneity due to their copper-to-copper interconnects. The small pixel size is essential especially for SWIR applications with high resolution and precision requirements, such as semiconductor inspection or quality inspection of optics for laser-based measurement systems.

**Ultraviolet sensitivity**The Alvium G1-812 UV camera comes with Sony’s 8 MP backside illuminated, global shutter IMX487 CMOS sensor specifically offered for UV applications and with a good response in that spectral range. With the industry ‘s smallest pixel size of only 2.74 μm, the cameras are able to detect the smallest details at high UV sensitivity. Combining small size and ultraviolet spectrum the camera is perfectly suited for UV applications such as battery inspection, UV microscopy, or forensic inspection.

**New models at a glance**

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| **Model** | **Sensor** | **Spectral sensitivity** | **Resolution  (H × V)** | **Frame Rate** | **Pixel size** | **Optical Format** |
| **Alvium  G1-812 UV** | Sony IMX487 | 0.2 – 0.4 µm | 8.1 MP 2856 x 2848 | 14 fps | 2.74 µm × 2.74 µm | Type 2/3 |
| **Alvium  G1-030 VSWR** | Sony IMX991 | 0.4 – 1.7 µm | 0.3 MP 656 x 520 | 249 fps | 5 μm ×  5 μm | Type 1/4 |
| **Alvium  G1-130 VSWIR** | Sony IMX990 | 0.4 – 1.7 µm | 1.3 MP 1296 x 1032 | 86 fps | 5 μm ×  5 μm | Type 1/2 |

**Alvium platform**All Allied Vision Alvium cameras share the same platform. They are based on ALVIUM® Technology – a custom ASIC packed with unique features and 30 years of machine vision industry expertise. This offers highest flexibility for the development of any vision systems and makes it very easy to adjust and upgrade it when prototyping, upgrading or downgrading your system. Users benefit from:

* Long-term availability
* Easy migration between different series
* Fast prototype development and time-to-market
* Easy system integration
* Same form factor (H x W: 29 mm x 29 mm) for all series
* Industrial-grade hardware with screw locks
* Small size, low weight, low power consumption

**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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