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| **Press release** | **December 21, 2021** |
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Allied Vision's compact Alvium camera now available with Sony SenSWIR sensors

Allied Vision releases Alvium 1800 SWIR camera models with IMX990 and IMX991 SenSWIR sensors from Sony

*Stadtroda, Germany, December 21, 2021* – Allied Vision's Alvium 1800 compact modular camera series is now available with Sony's innovative InGaAs SWIR sensors. The new models of the 1800 series with USB3 Vision or CSI-2 interface can be used in a wide spectral range from 400 nm to 1700 nm thanks to the SenSWIR sensor technology. Alvium 1800 U/C-030 features the IMX991 sensor with VGA resolution, whereas the Alvium 1800 U/C-130 with IMX990 offers SXGA resolution.

Alvium 1800 SWIR cameras are currently the smallest industrial-grade, uncooled SWIR core modules on the market. With their compact design, low power consumption and light weight, they are the ideal solution for compact OEM systems used in embedded and machine vision applications.

**Sony SenSWIR sensor technology**The broad spectral range enables 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.

Alvium SWIR Core modules are available with USB3 Vision or MIPI CSI-2 interface including GenICam-compatible function control. With industrial-grade hardware and optimized drivers, they offer a plug-and-play experience when building vision applications beyond the visible spectrum, regardless of whether they are based on a PC or an embedded system.

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| **Model** | **Alvium 1800 U/C-030** | **Alvium 1800 U/C-130** |
| Sensor | Sony IMX991 SenSWIR | Sony IMX990 SenSWIR |
| Optical format | Type 1/4 | Type 1/2 |
| Pixel size | 5 μm × 5 μm | 5 μm × 5 μm |
| Resolution (H × V) | 0.3 MP (VGA) 656 × 520 | 1.3 MP (SXGA) 1296 × 1032 |
| Frame rate | 223 fps | 119 fps |
| Weight | 20 g (bareboard) 50 g (open housing) 70 g (closed housing) | 20 g (bareboard) 50 g (open housing) 70 g (closed housing) |
| Power consumption | < 2 W | < 2 W |

**High performance under changing operating conditions**

All models of the Alvium camera series can be operated at housing temperatures from -20°C to +65°C. This makes them suitable for applications with changing operating conditions, such as outdoor imaging.

**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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