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| **Press release** | **February 3, 2021** |
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Shortwave infrared camera expert Allied Vision integrates Sony's innovative SenSWIR sensors

Allied Vision combines Sony's new SenSWIR technology with many years of SWIR camera know-how in its successful Goldeye camera series

*Stadtroda, Germany, February 3, 2021* – Allied Vision will be one of the first camera manufacturers to integrate Sony's new innovative IMX990 and IMX991 InGaAs sensors into its Goldeye SWIR camera series in early 2021. The series will be expanded by 4 models with the innovative sensors, which are sensitive in both the visible and the short-wave infrared (SWIR) range.

With more than 30 years of experience in the development of industrial cameras in the visible as well as the infrared spectral range, Allied Vision is well positioned to provide prototype test cameras with the new image sensor at an early stage - also thanks to its close business relationship with Sony. Series production of the first models is scheduled for summer 2021.

**SenSWIR sensor technology - Wide spectral range, small pixels**The new sensors are based on Sony's new SenSWIR technology, which, due to the innovative InGaAs sensor architecture, creates a quantum leap in pixel size and image homogeneity while enabling image acquisition in the visible and short-wave infrared range (400 nm to 1700 nm) with high quantum efficiency. In the future, this will considerably expand the application possibilities of Goldeye SWIR cameras regarding the spectral analysis of objects and a more precise detection of details enabled by a comparatively small pixel size of only 5 µm. Here the availability of the ½ inch SXGA sensor is a particularly interesting innovation for many applications, like semiconductor inspection or laser beam profiling.

**The new Goldeye models in detail**Allied Vision will release four Goldeye camera models with the new SenSWIR-InGaAs sensors. As usual, the cameras will be available with GigEVision or CameraLink interfaces to meet as many different system requirements as possible. The Goldeye G/CL-130 with IMX990 1.3MP SXGA sensor offers a frame rate of 110 fps (with CameraLink interface) or 94 fps (with GigE Vision interface) and the G/CL-030 features the ¼ inch VGA sensor IMX991, which enables interface independent a frame rate of 258 fps.All new camera models feature a robust and compact design optimized for industrial applications without fan. The integrated single-stage sensor cooling (TEC1) and several integrated image correction functions will contribute significantly to the excellent image quality. The comprehensive I/O and GenICam standard compliant feature control options also considerably simplify the system integration of Goldeye cameras.

**Allied Vision - The SWIR camera expert**

Allied Vision has many years of experience in the development of short-wave infrared cameras with InGaAs sensor technology. The current product portfolio includes models with QVGA and VGA resolution with and without thermoelectric sensor cooling. For scientific applications, cameras with two-stage thermoelectric sensor cooling (TEC2), nitrogen cooling chamber and fan are also available, which enables particularly low-noise image acquisition with long exposure times. With this comprehensive expertise, Allied Vision provides optimized cameras with outstanding image quality in terms of homogeneity, dynamics, and linearity for a wide range of applications. The high quality of Goldeye SWIR cameras is emphasized by a 3-year guarantee, which is unique for SWIR cameras in the market. The ease-of-use of Goldeye cameras provides an unmatched out-of-the-box experience.

**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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