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| **Press release** |  **July 29, 2021** |
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Now available: Allied Vision’s SWIR Goldeye camera with Sony SenSWIR sensors

Allied Vision releases Goldeye short-wave infrared (SWIR) models with Sony IMX990 and Sony IMX991 SenSWIR sensors

*Stadtroda, Germany, July 29, 2021* – Allied Vision is one of the first camera manufacturers to integrate Sony's new innovative SenSWIR InGaAs sensors in its popular Goldeye SWIR camera series, making the cameras sensitive in both visible and short-wave infrared (SWIR) spectrums.
The Goldeye G-030 is equipped with the Sony IMX991, and the 1.3 MP Goldeye G-130 is outfitted with the Sony IMX990 sensor, both utilizing Sony’s SenSWIR technology. Both camera models are available with GigE Vision interface and integrated single-stage thermo electric sensor cooling (TEC1). Models with Camera Link interface are planned for release in Q4/2021.

**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 ranges (400 nm to 1700 nm) with high quantum efficiency. This will considerably expand the application possibilities of Goldeye SWIR cameras regarding the spectral analysis of objects and increase the precision of details detected, all enabled by a small pixel size of only 5 µm.

**The new Goldeye models in detail**The Goldeye G-030 features the ¼ inch VGA sensor, IMX991, which provides a frame rate of 234 fps at a resolution of 656 x 520 pixels. The Goldeye G-130 with the IMX990 1.3MP SXGA sensor (1280 x 1024 pixels) offers a maximum frame rate of 94 fps.

Both new camera models feature a robust, compact, and fanless design optimized for industrial applications. The integrated single-stage sensor cooling (TEC1) and several integrated image correction functions contribute significantly to the cameras’ excellent image quality. In addition, comprehensive I/O and GenICam standard compliant feature control options considerably simplify their system integration.

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| **Model** | **Goldeye G-030 TEC1** | **Goldeye G-130 TEC1** |
| 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) | 656 × 520 | 1280 × 1024 |
| Frame rate | 234 fps | 94fps |
| Cooling power | max. ΔT=25 K | max. ΔT=25 K |

**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) equipped with a nitrogen cooling chamber and fan are also available, which enables 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 provide 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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