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| **Press release** | **November 1, 2022** |
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Now available: Goldeye SWIR camera with extended SWIR sensitivity up to 2.2 µm

Allied Vision adds extended range InGaAs sensors to its SWIR camera series Goldeye

*Stadtroda, Germany, November 1, 2022* – Allied Vision is launching four new Goldeye SWIR camera models equipped with extended range InGaAs sensors, which can detect wavelengths up to 1.9 μm or 2.2 μm at high quantum efficiencies. The integrated dual-stage sensor cooling (TEC2) and several on-board image correction features are key factors to make specific spectral features visible with outstanding image quality.

**Extended SWIR wavelength range**Goldeye XSWIR cameras reveal material properties in the wavelength range above 1.7 μm. By sensing further into the infrared range, more unique spectral features can be detected to better distinguish between different materials. This is especially important for sorting applications or to determine material concentrations in composites. Main application fields are, for example: Waste recycling, water content (moisture) detection, identification of foreign objects or contaminations, and laser beam profiling. With the new Goldeye XSWIR models, Allied Vision’s famous Goldeye camera series now covers the wavelength range from 0.4 μm (Goldeye VSWIR) to 2.2 μm (Goldeye XSWIR).

**New Goldeye XSWIR models at a glance**   
The Goldeye G/CL-034 XSWIR features lnGaAs focal plane arrays with 15 µm pixel size that are either sensitive in the wavelength range from 1.1 μm to 1.9 μm or 1.2 µm to 2.2 µm. At VGA resolution (636 x 508 pixels), these cameras achieve 303 frames per second. The same spectral ranges are supported by the Goldeye G/CL-008 XSWIR models incorporating a focal plane array with QVGA resolution at 30 µm pixel size that can be operated up to 344 fps at full resolution (320 x 256 pixels).

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| **Model** | **Spectral Range** | **Resolution  (H × V)** | **Frame Rate** | **Pixel size** | **Optical Format** | **Cooling Power** |
| **Goldeye G/CL-034 XSWIR 1.9 TEC2** | 1.1 μm – 1.9 μm | 636 x 508 | 303 fps | 15 μm | Type 1” | Max. ΔT= 60 K |
| **Goldeye G/CL-034 XSWIR 2.2 TEC2** | 1.2 μm – 2.2 μm | 636 x 508 | 303 fps | 15 μm | Type 1” | Max. ΔT= 60 K |
| **Goldeye G/CL-008 XSWIR 1.9 TEC2** | 1.1 μm – 1.9 μm | 320 x 256 | 344 fps | 30 μm | Type 1” | Max. ΔT= 60 K |
| **Goldeye G/CL-008 XSWIR 2.2 TEC2** | 1.2 μm – 2.2 μm | 320 x 256 | 344 fps | 30 μm | Type 1” | Max. ΔT= 60 K |

All models will be provided with GigE Vision (G) or Camera Link (CL) interface. First evaluation test samples with GigE interface are available.

Allied Vision’s Goldeye SWIR cameras are designed to fulfill the highest quality standards. Every component in the camera was carefully selected to provide a robust and reliable vision solution. A compact form factor and multiple mounting options let the camera fit easily into compact system designs. In addition, standardized interfaces (GigE Vision including PoE or Camera Link), GenICam compliant feature control, and comprehensive I/O control options simplify the connection to your software solution and the synchronization with other system components. Hence, all Goldeye cameras provide a plug & play experience when setting up an image processing system.

**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 a TKH Technology Company.

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