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| **Press release** | **24.04.2018** |

Now available: Allied Vision's new affordable InGaAs camera models for short-wave infrared (SWIR)

Allied Vision releases two new Goldeye camera models with an excellent price-performance ratio: Goldeye G/CL-033 TECless and Goldeye G/CL-008 Cool TEC1

*Stadtroda, Germany – April 24, 2018* - With the release of two new affordable Goldeye models Allied Vision expands the Goldeye camera family of short-wave infrared cameras and makes the shortwave infrared technology more accessible for demanding, cost-sensitive application fields. Goldeye cameras are equipped with InGaAs sensor technology making them sensitive in the short wave infrared spectrum ranging from 900 nm to 1,700 nm.

**Affordable Goldeye G/CL-033 TECless for temperature-stable environments**For the first time, Allied Vision is releasing a tecless InGaAs camera (without thermo-electric cooling element). With an excellent price-performance ratio for a VGA InGaAs camera, the Goldeye G/CL-033 TECless is the perfect choice for demanding, cost-sensitive short-wave infrared applications. In temperature-stable environments, the camera delivers high quality images with outstanding low noise performance (low read-out noise of 32 electrons in high gain mode).

Advanced background correction functionalities can be used to further improve the image quality. With up to 301 frames per second at full resolution the Goldeye G/CL-033 TECless is the fastest VGA resolution short-wave infrared camera with Camera Link and GigE Vision interface. Moreover, the TECless Goldeye camera offers low power consumption of 6 W (<7.5 W with PoE) compared to more than 10 W for a camera with a single-stage thermo-electric cooling element (TEC1).

**Affordable Goldeye G/CL-008 Cool TEC1 for high temperature fluctuations**The second new model, the Goldeye G/CL-008 Cool TEC1, is an affordable InGaAs SWIR camera for the use under demanding conditions with high temperature fluctuations. To enable low-noise imaging in the spectral range from 900 nm to 1,700 nm, the camera is equipped with a nitrogen filled cooling chamber which encloses the sensor including the single-stage thermo-electric cooler (TEC1). This avoids condensation on the sensor and makes the camera especially useful in warm and humid environments with a high risk of condensation. The camera also features a controllable fan to further enhance the efficiency of the cooling. The InGaAs sensor is by default stabilized and calibrated at +5°C. A temperature difference of up to ΔT=30°C from the sensor towards the housing can be reached.

Moreover, advanced image correction features contribute to the Goldeye's outstanding image quality. With frame rates up to 344 fps at full resolution, versatile application fields can be addressed.

**Goldeye - Excellence in infrared**

All Goldeye SWIR cameras can be operated at very high frame rates and capture outstanding low-noise images. They are the perfect choice for industrial applications beyond the visible spectrum. All Goldeye models are available with either a Camera Link or a GigE Vision interface.

**Goldeye G/CL-033 TECless and Goldeye G/CL-008 Cool TEC1 at a glance**

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| **Model** | **Goldeye G/CL-033 TECless** | **Goldeye G/CL-008 Cool TEC1** |
| **Sensor** | InGaAs FPA 640 × 512 | InGaAs FPA 320 × 256 |
| **Spectral Range** | 900 nm to 1,700 nm | 900 nm to 1,700 nm |
| **Pixel size** | 15 µm x 15 µm | 30 µm x 30 µm |
| **Resolution** | VGA resolution | QVGA resolution |
| **Frame rate** | 301 fps | 344 fps |
| **Lens mounts** | C-Mount, F-Mount, M42-Mount | C-Mount, F-Mount, M42-Mount |
| **Operating temperature** | -20 °C to +55 °C (case) | -20 °C to +55 °C (case) |
| **Power consumption** | 6.0 W (at 12 VDC) | 10.5 W (at 12 VDC) |
| **Body dimensions (L × W × H in mm)** | 78 × 55 × 55 | 90 × 80 × 80 |

**Allied Vision company profile**For over 25 years, Allied Vision has been helping people to reach their goals focusing on what counts. Allied Vision supplies camera technology and image capture solutions for industrial machine vision applications and embedded systems. 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, China, France, and the UK, and is represented by a network of distribution partners in over 30 countries.

www.alliedvision.com

**Contact (Company Headquarters):**Allied Vision Technologies GmbH, Taschenweg 2a, 07646 Stadtroda, Germany
T: +49 36428/677-0, F: +49 36428/677-24, Email: info@alliedvision.com

**Media contact:**

Francis Obidimalor
Allied Vision Technologies Inc., 102 Pickering Way - Suite 502, Exton, PA 19341, USA

T: +1-484-881-3398, F: +1 978-225-2029, Email: francis.obidimalor@alliedvision.com

Nathalie Többen

Allied Vision Technologies GmbH, Klaus-Groth-Str. 1, 22926 Ahrensburg, Germany

T: +49 4102/6688-194, F: +49 4102/6688-10, Email: nathalie.toebben@alliedvision.com