

Allied Vision to showcase Alvium Camera Series and Goldeye SWIR cameras at CVPR 2019

Allied Vision will be exhibiting at CVPR 2019 for the first time. Attendees can get an up-close look at the innovative Alvium Camera Series and Goldeye SWIR cameras

Long Beach, California, June 6, 2019 – Allied Vision will be exhibiting at CVPR 2019 in the Long Beach Convention & Entertainment Center from June 18-20, 2019. Allied Vision can be found at **booth #316**.

Alvium Camera Series: Embedded Vision with Industrial Machine Vision Benefits

Embedded system designers now have a camera module option that brings the benefits of industrial machine vision via the innovative Alvium Camera Series. Alvium is based on an innovative platform that delivers a full range of digital cameras capable of serving both industrial and embedded vision applications. The heart of Alvium is the unique **ALVIUM® Technology**. ALVIUM® Technology is a proprietary application specific integrated circuit (ASIC) with an integrated image signal processor (IPS) designed by Allied Vision. It is combined with a comprehensive image processing library (IPL) optimizing it for advanced digital imaging. ALVIUM® Technology completes image correction and optimization processing in the camera, which frees CPU capacity on the host board for alternative processing tasks.

Furthermore, Alvium simplifies system integration in two ways. First, Alvium is available in three housing options: bare board, open housing and closed housing. System designers can select the housing option that best meets their space requirements. Second, only one driver for each host platform is needed to operate all Alvium camera models. Alvium will support various embedded boards, beginning with the NXP i.MX6/8 and NVIDIA Jetson platforms. Future support will extend to the i.MX8, i.MX8M and NVIDIA Jetson AGX Xavier platforms. Alvium cameras can be controlled via Video4Linux, GStreamer, Direct Register Access and GenICam.

The design of the ALVIUM® Technology ASIC enables it to support all common sensor interfaces, allowing for quick integration of current and future sensors. Sensor resolutions

ranging from VGA to 21 Megapixels will be available among the Alvium camera series. Designers/integrators can choose between MIPI CSI-2 and USB3 Vision interfaces. The first two Alvium camera models to be made available are the 1500 Series and 1800 Series:

Model	Alvium 1500	Alvium 1800
Interface	MIPI CSI-2	USB3 Vision
Feature Set	Basic feature set	Advanced feature set
Camera Control	Video4Linux (V4L2), Direct Register Access (DRA)	GenICam
Housing Options	Bare Board, Open Housing	Bare Board, Open Housing, Closed Housing

Goldeye SWIR Cameras: Great for LiDAR Laser Profiling

Goldeye SWIR cameras use InGaAs sensor technology which is sensitive in the short-wave infrared spectrum of 900 to 1,700 nm. Its compact, ruggedized housing of 55mm x 55mm x 78 mm and numerous features, such as integrated thermo-electric sensor cooling, on-board image correction and comprehensive I/O control options, make the Goldeye an ideal camera for LiDAR laser profiling (typical wavelength range of 905-1,550 nm). Goldeye SWIR cameras offer three models available with either GigE or Camera Link interfaces: **Goldeye G/CL-008 TEC1** (320 x 256 resolution, 344 frames per second), **Goldeye G/CL-032 TEC1** (0.3 Megapixel resolution, 100 frames per second), and **Goldeye G/CL-033 TEC1** (0.3 Megapixel resolution, 301 frames per second). The Goldeye G-033 model is also available in a TECless variant.

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About Allied Vision

For 30 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 and embedded vision applications. 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 eight locations in Germany, Canada, the U.S., Singapore, China, France, and the UK, and is represented by a network of distribution partners in over 30 countries. Allied Vision is member of the TKH Group. www.alliedvision.com

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