

The Alvium Camera Series and Goldeye SWIR take center stage at Photonics West 2020

Allied Vision will showcase the innovative Alvium Camera Series and Goldeye, its short-wave infrared camera during Photonics West 2020

San Francisco, California, January 13, 2020 – Allied Vision will be exhibiting at SPIE Photonics West 2020 in San Francisco, California at the Moscone Center from February 4-6, 2020. Attendees can find and visit Allied Vision at **booth #134** in the South Hall. In the booth, visitors can view all of Allied Vision's camera solutions, including the Alvium Camera Series and Goldeye SWIR (Short-Wave Infrared).

Alvium Camera Series: Allied Vision's Next Generation Camera

The Alvium Camera Series is an innovative camera platform created by Allied Vision that merges the worlds of industrial machine vision and embedded vision. This is made possible by ALVIUM® Technology, a proprietary System-on-chip (SoC) designed by Allied Vision which completes on-board image processing through a comprehensive image processing library (IPL). ALVIUM® Technology also provides intelligent power management, as power is used only for the image processing features enabled, and eases stress of application development with camera control via Video4Linux, GStreamer, Direct Register Access or GenICam. Furthermore, Alvium supports various embedded system-on-modules (SoMs) such as NVIDIA's Jetson TX2 and NXP's i.MX6/8. In the future, support will extend to the i.MX8, i.MX8M, NVIDIA's Jetson AGX Xavier platforms and many more. Alvium is available in three configurations: board level, open-housing and closed housing and is available with MIPI CSI-2 and USB3 Vision interfaces.

Alvium is split into two series: the 1500 Series and 1800 Series. Below offers a quick comparison between the two:

Series	Alvium 1500	Alvium 1800
Interface	MIPI CSI-2	MIPI CSI-2; USB3 Vision
Feature Set	Basic feature set	Advanced feature set
Camera Control	Video4Linux2 (V4L2), Direct Register Access (DRA)	GenICam (USB only), Video4Linux2 (V4L2), Direct Register Access (DRA)
Housing Options	Bare board, Open housing	Bare board, Open housing, Closed housing (USB only)

New Alvium Camera Models to be Released

Allied Vision will soon release three new Alvium USB3 models before Photonics West 2020: 1800 U-040, 1800 U-158 and 1800 U-501m NIR. The **1800 U-040** utilizes Sony's Pregius IMX287 sensor offering 0.4 Megapixels at 278 frames per second. The **1800 U-158** uses another Pregius sensor, the IMX273, and provides 1.6 Megapixels at 149 frames per second. The **1800 U-501m NIR** is Alvium's first near-infrared (NIR) camera model. It delivers 5 Megapixels at 67 frames per second using ON Semiconductor's AR0522 rolling shutter sensor.

Camera model	1800 U-040	1800 U-158	1800 U-501m NIR (monochrome only)
Resolution	0.4 MP (728 x 544)	1.6 MP (1456 x 1088)	5.1 MP (2592 x 1944)
Sensor	Sony IMX287	Sony IMX273	ON Semi AR0522
Shutter	Global Shutter	Global Shutter	Rolling Shutter
Sensor size	Type 1/2.9	Type 1/2.9	Type 1/2.5
Pixel size	6.90 μm x 6.90 μm	3.45 μm x 3.45 μm	2.2 μm x 2.2 μm
Frame rate	278 fps	149 fps	67 fps
Power consumption	1.9 W (USB) / 2.1 W (external power)	2.5 W (USB) / 2.6 W (external power)	2.2 W (USB) / 2.4 W (external power)

Goldeye SWIR: Infrared Imaging for Advanced Applications

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 advanced imaging applications (laser beam profiling, thermal imaging, or hyperspectral imaging). 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 without thermoelectric cooling.

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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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