

New: High-resolution Alvium 1800 USB cameras with attractive price-performance ratio

Allied Vision expands the cost-effective Alvium camera series with USB3 Vision cameras with up to 20 megapixels

Stadtroda, Germany, February 24, 2020 – A total of four new Alvium cameras with a USB3 Vision interface expand Allied Vision's 1800 series. All models feature a powerful 2nd Gen Sony CMOS sensor with either Pregius Global Shutter technology or Rolling Shutter and offer an attractive price/performance ratio thanks to their compact design. The rolling shutter model incorporates the Sony IMX183 sensor with innovative back-illuminated sensor technology providing excellent low-light performance.

Cross-over machine vision camera

Allied Vision's Alvium 1800 series is a cross-over machine vision camera that combines the high performance and durability of machine vision cameras with the compact hardware and cost efficiency of embedded devices. These cameras, now available with Sony IMX CMOS sensors with up to 20 megapixel resolution, offer high frame rates, high sensitivity, and excellent image quality. With industrial-grade hardware, a USB3 vision-compatible interface with screw-locked connectors, built-in image correction functions and high-precision triggering, they meet all the requirements of industrial image processing.

They are also based on the Alvium platform from Allied Vision, which has been optimized for embedded vision systems. This means they have an ultra-compact, lightweight design and are available as single-board modules or with an open housing for easy integration into small systems. Their cost-optimized platform design offers an unprecedented price/performance ratio.

This makes the cameras the ideal choice for machine vision applications that require a ultra-compact and lightweight camera with high image quality and frame rates at an affordable price.

Alvium 1800 U-319, 1800 U-507, 1800 U-1236 and 1800 U-2050 at a glance

Model	1800 U-319	1800 U-507	1800 U-1236	1800 U-2050
Sensor	Sony IMX265	Sony IMX264	Sony IMX304	Sony IMX183
Resolution	3.2 MP 2064 × 1544	5.1 MP 2464 × 2056	12.4 MP 4112 × 3008	20.2 MP 5496 × 3672
Pixel size	3.45µm × 3.45µm	3.45µm × 3.45µm	3.45µm × 3.45µm	2.4µm × 2.4µm
Sensor size	Type 1/1.8	Type 2/3	Type 1.1	Type 1
Shutter type	Global shutter	Global shutter	Global shutter	Rolling shutter with Global reset
Frame rate	53 fps	34 fps	22 fps	17 fps

Excellent connectivity

With **Allied Vision's Vimba Suite**, USB cameras can be easily integrated into both PC-based and embedded systems. Vimba Suite offers a future-proof, platform-independent SDK for all Allied Vision cameras with USB3 Vision Interface. GenICam-based Transport Layer supports USB cameras and automatically connects them to third-party software solutions such as MATLAB, OpenCV, Halcon, CVB, and many more.

With these four new Alvium models, the Alvium 1800 series now includes nine USB camera models ranging from 0.4 to 20.5 megapixels, each available in monochrome or color including a 5 megapixel USB camera with a near-infrared optimized sensor.

All camera models are also available with a MIPI CSI-2 interface.

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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