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| **Press release** | **July 30, 2020** |
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Out now: 12.2 MP Alvium 1800 USB camera with rolling shutter sensor and small pixel size

Allied Vision’s new 4k 1800 U-1240 camera offers high-quality imaging for machine vision applications

*Stadtroda, Germany, July 30, 2020* – Allied Vision adds another USB3 Vision camera with a rolling shutter to the Alvium 1800 series. The **Alvium 1800 U-1240** incorporates Sony’s back-illuminated IMX226 CMOS sensor that enables high-quality imaging at 12.2 megapixel and 29 frames per second. Due to the pixel size of 1.85 μm, the camera combines the high image-quality with a small optical format und thus offers a very good price/performance ratio.

**Versatile USB cameras with Sony Pregius IMX global shutter sensors**Together with the 1800 U-1240 Allied Vision releases two other new models in the 1800 U series equipped with Sony Pregius IMX global shutter sensors.

The **Alvium 1800 U-240** comes with the Sony IMX392 CMOS sensor, providing a 2.4 megapixel resolution at 126 frames per second. Therefore, the Alvium 1800 U-240 models can replace cameras with Sony’s popular IMX174 and IMX249 sensors. Compared to sensors with the same resolution, the 1800 U-240 has a smaller optical format making it attractive for cost sensitive applications.

The **Alvium 1800 U-508** model extends the Alvium portfolio with a fast global shutter IMX sensor at a very good price/performance ratio. With the IMX250, the 1800 U-508 is almost twice as fast as the 1800 U-507 while offering the same resolution.

Ideal for outdoor applications the compact cameras offer various hardware options to make the mounting and integration as easy as possible:

* Housings: Bare board, open housing, or closed housing
* Various lens mounts: C-Mount, CS-Mount, or S-Mount (not for 508 models)
* USB connector position: Select between the back panel or the left side of the camera (seen from the sensor side).

**Alvium 1800 U-240, 1800 U-508, and 1800 U-1240 at a glance**

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| Camera Models | 1800 U-240 | 1800 U-508 | 1800 U-1240 |
| **Sensor** | IMX392 | IMX250 | IMX226 |
| **Resolution** | 2.4 MP | 5.1 MP | 12.2 MP |
| **Pixels** | 1936 × 1216 | 2464 × 2056 | 4024 × 3036 |
| **Pixel Size (µm)** | 3.45 | 3.45 | 1.85 |
| **Optical Format** | 1/2.3” | 2/3” | 1/1.7” |
| **Shutter** | Global | Global | Rolling |
| **Frame Rate (fps)** | 126 | 65 | 29 |
| **Mount Options** | C-, CS-, S-mount | C-, CS-mount | C-, CS-, S-mount |

The Alvium 1800 U-1240 and 1800 Alvium U-240 camera models are also available with a MIPI CSI-2 interface. The 1800 C-508 model will follow in August.

**Alvium 1800 U cameras for PC-based machine vision**Allied Vision's Alvium 1800 series combines the high performance and durability of machine vision cameras with the compact hardware and cost efficiency of embedded devices. These cameras 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 an ultra-compact and lightweight camera with high image quality and frame rates at an affordable price.

**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 Layers support the Alvium USB cameras and can automatically connect them to third-party software solutions such as MATLAB, OpenCV, Halcon, CVB, and many more.

**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.

[www.alliedvision.com](https://www.alliedvision.com/en/digital-industrial-camera-solutions.html)

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