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| **Press release** | **December 1, 2020** |
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New Alvium CSI-2 cameras allow industrial machine vision applications on embedded systems

Allied Vision’s Alvium 1800 camera series with MIPI CSI-2 interface combine high-performance sensors, industrial grade hardware, and optimized CSI-2 driver support for embedded vision applications.

*Stadtroda, Germany, December 1, 2020* – Allied Vision expands its range of Alvium CSI-2 camera series with 3 Alvium 1800 CSI-2 camera models equipped with high-quality Sony IMX CMOS sensors from 2.4 to 12.2 Megapixel resolution. In combination with the industrial grade design and various hardware options, the cameras allow system designers to easily migrate from PC-based to embedded systems without having to compromise on machine vision performance. Together with the high-performance CSI-2 camera models Allied Vision releases a new MIPI CSI-2 driver for all NVIDIA Jetson modules including the new Jetson Xavier NX with NVIDIA’s new JetPack SDK version 4.4.

**CSI-2 cameras with high-quality Sony sensors**The new Alvium 1800 C camera models feature Sony CMOS sensors popular in the machine vision industry for their high image quality at high frame rates. The **Alvium 1800 C-240** comes with the Sony IMX392 global shutter sensor, providing a 2.4 Megapixel resolution at 126 frames per second. The 5.1 Megapixel **Alvium 1800 C-508** model extends the Alvium portfolio with a fast global shutter IMX250 sensor at a very good value for money. The **Alvium 1800 C-1240** incorporates Sony’s back-illuminated IMX226 rolling shutter 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 high image quality with a small optical format und thus offers a very good price/performance ratio.

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

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| Camera Models | 1800 C-240 | 1800 C-508 | 1800 C-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 |

**One driver for all Alvium cameras**

The new NVIDIA CSI-2 driver for NVIDIA Jetson Nano, TX2, Xavier NX, and AGX Xavier with Jetpack 4.4 supports all current and future Alvium camera modules with MIPI CSI-2 interface, no matter which sensor the camera module uses. With minimal development effort, various cameras can be tested with different sensors, diverse resolution variants of a system can be developed, or existing systems can be upgraded to latest sensors. This not only saves time, but also significantly reduces development costs. Comprehensive documentation and support further facilitate system integration and simplifies prototyping. The one common driver for NVIDIA’s Jetson SoMs is available on Github.com.

**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

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

**Media contact:**

Nathalie Többen

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

T// +49 4102 6688-194, E// [nathalie.toebben@alliedvision.com](mailto:nathalie.toebben@alliedvision.com)

Francis Obidimalor

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

T// +1-484-881-3398, E// [francis.obidimalor@alliedvision.com](mailto:francis.obidimalor@alliedvision.com)