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| **Press release** |  **December 17, 2019** |

Allied Vision introduces first Alvium USB3 Vision camera with NIR sensitivity

New 5.1 megapixel Alvium 1800 U-501 NIR cameras with superior near-infrared imaging to be released

*Stadtroda, Germany, December 17, 2019* – With the new Alvium 1800 U-501 NIR, Allied Vision further broadens its range of Alvium USB cameras powered by ALVIUM® Technology. The 5.1 megapixel USB3 Vision camera is equipped with ON Semi’s near-infrared enhanced sensor AR0522, which is designed for both low light and high dynamic range performance. The combination of small size, light weight, low power consumption, and NIR sensitivity makes the Alvium 1800 U-501 NIR the perfect choice for surveillance and security applications, especially with low light conditions.

The camera is also ideal for applications where NIR sensitivity is beneficial. This is usually the case when visible light would blind people or interfere with the purpose of the application (e.g. traffic monitoring and eye tracking). NIR cameras can reduce costs and simplify system design as the illumination of the scene would cause additional costs and complexity.

By offering a frame rate of 67 frames per second at full resolution the camera a can also be used in applications demanding a higher frame rate.

**1800 U-501 NIR at a glance**

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| **Camera model** | **1800 U-501 NIR (monochrome)** |
| Sensor model | ON Semi AR0522 |
| Resolution | 2592 × 1944; 5.1 MP |
| Pixel size | 2.2 µm × 2.2 µm |
| Sensor size | Type 1/2.5 |
| Shutter type | Rolling Shutter  |
| Frame rate  | 67 fps  |
| Power consumption | 2.2 W (USB); 2.4 W (External power) |

The camera will be available in monochrome with different housing variants (closed housing, open housing, bare board) as well as different lens mount options (S-Mount, CS-Mount, and C-Mount). The USB interface can be located either on the camera back side or left side (as seen from the sensor). The Alvium 1800 U series now includes four models from 0.5 to 5.1 megapixels.

Samples of the new Alvium 1800 U-501 NIR are available as of now. Series deliveries will start early 2020.

**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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