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Now available: Fast and feature-rich Alvium USB cameras

新品发布：Alvium USB相机新添两款新成员

Allied Vision expands its Alvium USB camera series with new features and models featuring fast Sony 3rd generation IMX sensors

Alvium USB全系列相机加入更多丰富功能

*Stadtroda, Germany, May 31, 2022* – With Alvium 1800 U-052 and Alvium 1800 U-291, Allied Vision adds two small Sony third generation IMX CMOS sensors with Pregius S global shutter technology to its Alvium Camera Series with USB3 Vision interface. 德国施塔特罗达, 2022年5月31日讯 – Allied Vision 旗下Alvium USB系列正式发布两款 USB3 Vision 接口新作：Alvium 1800 U-052和Alvium 1800 U-291，分别搭载两颗不同型号的索尼第三代小型IMX CMOS传感器，并且均采用了Pregius S全局快门技术。 **Alvium 1800 U-051** delivers images with a resolution of 0.5 Megapixel at a frame rate of up to 626 frames per second. Thanks to the large pixel size of 9 x 9 µm provided by **Sony’s IMX426 sensor,** the camera offers a very high sensitivity. **Alvium 1800 U-291** is equipped with the **Sony IMX421 sensor** combining a small sensor size (2/3’’) with a high readout rate of up to 141 frames per second (in 8-bit mode).

**Alvium 1800 U-052** 可在0.5 MP 分辨率下提供高达626的帧速率。得益于**索尼 IMX426 传感器**高达 9 x 9 µm 的像元尺寸，相机实现了极高的灵敏度。**Alvium 1800 U-291** 搭载的索尼 IMX421 传感器尺寸极其小巧，仅 2/3英寸，可提供高达每秒 141 帧的高读出速率（8 位模式下）。

**Selection of bit depth**With the new feature ADC (analog-to-digital converter) selection, Allied Vision offers the user the possibility to operate the new Alvium 1800 U-052 and Alvium 1800 U-291 with varying sensor bit depths. By choosing the bit depth of the readout mode between 12bpp (bit per pixel), 10 bpp, and 8bpp the user can speed up the cameras up to twice its speed (e.g. Alvium 1800 U-052 from 343 fps at 12-bit to 626 fps at 8-bit) depending on the application needs. If a smaller region of interest of the image is selected, the speed can be increased even further.

**色位深度选择**

借助全新的ADC（模数转换器）功能选项，Alvium 1800 U-052 和 Alvium 1800 U-291 可方便用户选择不同的传感器色位深度，共有 12 bpp （位/像素）、10 bpp 和 8 bpp 三档读出模式色位深度供选，用户可根据应用需求进行调整，从而将相机速度提高一倍（例如：Alvium 1800 U-052 从 12 位下的 343 fps 增至 8 位下的 626 fps）。如果选择更小的图像感兴趣区域，相机速度还可以进一步提升。

These fast USB cameras are especially suited for inspection applications in factory automation with fast moving objects or conveyer belts, like for example fruit or material sorting, bottle inspection, as well as for ITS applications.

这些高速USB相机非常适合设有移动物体或输送带的工厂自动化检测应用，如水果和物料分拣、瓶子检测和 ITS 应用。

**New Alvium 1800 U models at a glance**

**全新 Alvium 1800 U 机型概览**

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| --- | --- | --- | --- | --- | --- | --- |
| **Model** | **Sensor** | **Sensor type** | **Sensor size** | **Pixel size** | **Resolution on (H × V)** | **Frame rate** |
| **1800 U-052** | IMX426 | CMOS Global shutter | 1/1.7” | 9 µm × 9 µm | 816 × 6240.5 MP | 626 fps at 8 bit |
| **1800 U-291** | IMX421 | CMOS Global shutter | 2/3” | 4.5 µm × 4.5 µm | 1944 × 14722.8 MP | 141 fps at 8 bit |
| **型号** | **传感器** | **传感器类型** | **传感器尺寸** | **像素尺寸** | **分辨率(H × V)** | **帧率** |
| **1800 U-052** | IMX426 | CMOS全局快门 | 1/1.7” | 9 µm x 9 µm | 816 × 624 0.5 MP | 626 fps（8位） |
| **1800 U-291** | IMX421 | CMOS 全局快门 | 2/3” | 4.5 µm x 4.5 µm | 1944 × 1472 2.8 MP | 141 fps（8 位） |

All cameras will be available with different housing variants (closed housing, open housing, bare board) as well as different lens mount options. The USB interface can be located either on the camera back side or left side (as seen from the sensor).
所有相机均提供不同外壳版本（封闭式、开放式、裸板）及不同镜头接口供选。USB 接口可置于相机背面或左侧（背向传感器视角）。
Together with the Alvium USB cameras Allied Vision also releases the Alvium 1800 C-052 and Alvium 1800 C-291 with a MIPI CSI-2 interface and featuring the same Sony IMX Sensors as the USB models.

除 Alvium USB 相机之外，Allied Vision 也同步发布了配备 MIPI CSI-2 接口的同款机型 Alvium 1800 C-052 和 Alvium 1800 C-291，除接口外，所有功能与传感器型号 USB 机型一致。

**New features for 1800 USB cameras**In addition to the ADC selection, the Alvium USB camera series also offers an enlarged feature set. All Alvium 1800 U camera models now feature a unique **convolution filter with a 5x5 matrix** including an adaptive noise reduction mode. This filter can be used to reduce the noise in the image while keeping the corners and edges. This is especially important for applications selecting objects by edge detection. By choosing the custom convolution mode the user can define his own 5 x 5 convolution filter kernel to obtain for example a specific image deformation such as edge detection and relief effects.

**1800 USB 相机的新增功能**除ADC功能选项外，Alvium USB 相机还提供了更丰富的功能集。目前，Alvium 1800 U 全系机型均搭载了带有自适应降噪模式的 **5x5 矩阵卷积滤波器**。这一滤镜可在保持角落和边缘清晰的同时，降低图像中的噪声。这一功能对于通过边缘检测筛选物体的应用，尤为重要。用户可通过选择自定义卷积模式，自行指定 5 x 5 卷积滤镜内核，实现边缘检测、浮雕效果等特殊图像变形。

Furthermore, the user can now **save the different camera controls in** 4 individual sets of up to 77 features as for example different selection of exposure time, customized convolution filters, and readout modes. Depending on the application or environment, predefined user sets can then be selected. The default set which is loaded when starting the camera can also be configured individually.

此外，用户目前可将**不同的相机控件保存**在最多由 77 个功能组成的4个独立功能集中，例如不同的曝光时间选择、自定义卷积过滤器和读出模式。根据不同的应用或环境，可选择预定义用户设置。默认设置在相机启动时加载，也可单独配置。

Another new SNFC compliant feature of the camera, the **Timer control,** opens up the possibility for the user to precisely synchronize the illumination, e.g. by a stroboscopic flash unit, and the image acquisition of the camera.

另外有还一项符合 SNFC 标准的**定时器控制**新功能，允许用户通过闪光灯和相机的图像采集功能，精确同步照明。

**USB cameras with short delivery times**Allied Vision is continuously expanding the scope of the Alvium 1800 U camera series with powerful models. With these two new sensors and the enhanced feature set, the Alvium USB camera series offers a wide range of high-quality sensors and high-performance cameras for different machine vision applications whether it is on a PC-based or an embedded system.

**USB 相机快速交付**

Allied Vision 正持续不断地扩展 Alvium 1800 U 相机阵容，不断丰富相机功能。凭借这两颗新传感器和丰富的功能集，Alvium USB 系列相机可为不同的机器视觉应用（无论是基于PC还是嵌入式系统）提供了广泛的优质传感器和高性能相机选型。

With its Alvium USB cameras powered by ALVIUM**®** Technology, Allied Vision bypasses the supply shortage on the chip market that numerous camera manufacturers are currently facing. **Allied Vision can supply Alvium USB cameras with short delivery times.**

得益于 ALVIUM**®**  技术的加持，Allied Vision 旗下 Alvium USB 系列相机更是成功地规避了一众相机制造商目前普遍面临的芯片市场供应短缺问题，**所有 Alvium USB 相机都能够更快地交付至客户手中。**

**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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