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| **Press release** | **February 4, 2019** |
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New features for Allied Vision's Mako GigE cameras with Sony IMX sensors

Mako G cameras with Sony IMX sensors now support easy camera synchronization and triggering over Ethernet

*Stadtroda, Germany, February 4, 2019* – With a firmware update, Allied Vision extends the feature set of the Mako G cameras equipped with Sony Pregius CMOS sensor. The Mako G-040, Mako G-158, Mako G-234, Mako G-319 as well as Mako G-507 now support IEEE 1588 Precision Time Protocol (PTP) support and action commands for triggering the camera via the Ethernet connection (ToE).

These cameras now offer a more comprehensive feature set, the latest Sony CMOS sensors, and support for popular C- and CS-Mount lenses in an ultra-compact housing (29 mm × 29mm). With the new features, the Mako G cameras are particularly suitable for use in multi-camera applications.

**Synchronization and triggering of cameras in a multi-camera system**IEEE 1588 PTP enables precise synchronization of multiple cameras and devices within an Ethernet network. The device or camera with the master clock passes the time information to all subordinate clocks, which in turn adjust their time settings so that all devices are set to 2 microseconds exactly at the same time. This feature is often used for recording sports events or objects in motion in order to record them from different angles at the same time. Because all cameras capture an image synchronously at exactly the same moment, a clear 3D image of the situation or object can be displayed as a result.

Using Action Commands or the Trigger over Ethernet function, one or more cameras can be triggered simultaneously via the Ethernet connection. Combined with the Power-over-Ethernet function (PoE), a single cable is enough for powering the camera, triggering, camera control and transferring image data. No additional cable is required for triggering, which can reduce system costs and complexity. The ToE function is particularly useful for event-driven applications. If, for example, a ball passes the goal line or an object on the assembly line passes a control threshold, a trigger signal can be sent via Ethernet to the camera or, if necessary, several cameras.

**Small size, big performance**In addition to the new features for the IMX sensor-based models, all Mako GigE cameras offer features such as:

* Automatic features including gain, exposure, and white balance
* Gamma correction and black level (offset)
* Region of Interest (ROI)
* Look-up table
* User sets
* Temperature monitoring

Due to the small dimensions, their industrial design and comprehensive I/O functionality, the integration of the cameras into existing systems is usually very simple. The cameras are particularly suitable for use in compact and cost-sensitive systems where little space is available, for example in automated quality control or in multimedia applications. For the system integration of Mako GigE cameras, users can also use the free Vimba Software Development Kit from Allied Vision, which enables a high-performance software connection to the camera.

**Allied Vision company profile**For 30 years, Allied Vision has been helping people to reach their goals focusing on what counts. Allied Vision supplies camera technology and image capture solutions for industrial machine and embedded vision applications. 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 U.S., Singapore, China, France, and the UK, and is represented by a network of distribution partners in over 30 countries.

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