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| **Press release** | **March 14, 2019** |
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Out now: Allied Vision's Mako camera with Polarization Sensor Technology

Allied Vision releases new Mako GigE Vision CMOS camera model equipped with polarization filter technology from Sony.

*Stadtroda, Germany, March 14, 2019* – Allied Vision is expanding its series of compact, rugged Mako G cameras with a new camera featuring polarization filter technology. The new Mako G-508B POL camera is equipped with a PolarsensTM 5.0 Megapixel CMOS sensor from Sony (IMX250MZR). With the new polarizer camera Allied Vision offers a cost-effective tool to unveil features not visible with conventional imaging solutions.

**Improving visibility with polarization image data**The IMX250MZR CMOS sensor incorporates the latest four-directional polarization filter technology from Sony. The on-chip nanowire polarizing layer supports four orientations (0°, 45°, 90°, and 135°) so that each pixel of the sensor captures polarized light in relation to its specific wire-grid axis. Four pixels together build a calculation unit to determine for each pixel the intensity and angle of polarization.

By using polarized image data, reflections that make the inspection of surfaces difficult can be reduced, contrast can be enhanced in lowlight conditions to detect shapes, and various material properties can be detected, like stress, composition, or surface structure. The Mako G-508B POL enables an eased usability to gather polarization imaging data, as replacement or manual rotation of polarization filters is not necessary anymore. It also reduces costs due to a minimized system setup, compared to traditional polarization imaging methods.

**Mako G-508B POL at a glance**

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| **Model** | **Mako G-508B POL** |
| Sensor | Sony IMX250MZR |
| Sensor type | CMOS |
| Shutter type | Global shutter |
| Sensor size | 2/3” |
| Pixel size | 3.45 μm × 3.45 μm |
| Resolution | 5.0 Megapixel 2464 (H) × 2056 (V) |
| Frame rate | 23.7 fps |
| Default lens mount | C-Mount |

**Mako G cameras – ultra-compact and affordable**The Mako G is an attractively priced camera in an ultra-compact rugged industrial housing. It's equipped with a GigE Vision-compliant interface technology to enable a reliable connection to your host system and image processing solution. Basic functionalities, including screw mount RJ45 connector and multiple I/Os, facilitate straightforward system integration. Mako cameras are equipped with CCD and the latest high-quality CMOS sensors to support the realization of future-oriented applications. Thanks to Allied Vision’s Vimba Software Development Kit they can be integrated and operated within diverse imaging processing systems very easily.

**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.  
Allied Vision is part of the TKH Group.

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