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Out now: Allied Vision's GigE camera Mako G with Sony IMX273 and IMX287 CMOS sensors

Allied Vision expands its ultra-compact affordable Mako G camera family with two new CMOS camera models

*Stadtroda, Germany – July 24, 2018* - Allied Vision expands its Mako G camera family with two new models incorporating second generation Sony ExmorTM CMOS sensors with PregiusTM global shutter pixel technology. The Mako G-158 incorporates the IMX273 sensor, offering a resolution of 1.58 megapixels and a frame rate of 75.2 fps at full resolution. The Mako G-040 is equipped with the IMX287 sensor delivering a resolution of 0.40 megapixels and a frame rate of 286 fps at full resolution. With a smaller Region of Interest, higher frame rates can be achieved.

These new Mako G models are especially suited for industrial applications that require increased accuracy for measurement tasks, especially fast-moving subjects. Due to their superior performance, these models will be the best candidates to replace existing CCD cameras with similar resolution and optical formats (for example, Mako G-032 or Mako G- 132 models).

**Faster frame rates and better image quality**In comparison to their CCD equivalents both CMOS Mako G cameras are much faster. The frame rate of the Mako G-040 is 2.8 times as high as the comparable CCD camera Mako G- 032. As for the frame rate of the new Mako G-158 the value is 2.5 times higher than the frame rate of the Mako G-125.

The Mako G-040 and Mako G-158 enable high quality imaging offering a wider dynamic range than the equivalent CCD models. A very low noise (down to a few electrons) and a high uniformity both in the dark signal as well as the photo response result in a high image quality. The Mako G-040 benefits from the 6.9 μm2 pixel size which achieves increased sensitivity which allows for shorter shutter times.

**Mako G-040 (NEW) versus Mako G-032**

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| **Model** | **Mako G-040 (NEW)** | **Mako G-032** |
| **Sensor** | Sony IMX287 Exmor | Sony ICX424 |
| **Sensor type** | CMOS | CCD |
| **Shutter type** | Pregius Global shutter | Global shutter |
| **Sensor size** | Type 1/2.9 | Type 1/3 |
| **Pixel size** | 6.90 μm × 6.90 μm | 7.4 μm × 7.4 μm |
| **Resolution** | 0.40 megapixel728 (H) × 544 (V) | 0.30 megapixel658 (H) × 492 (V) |
| **Frame rate** | 286 fps | 102.3 fps |

**Mako G-158 (NEW) versus Mako G-125**

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| **Model** | **Mako G-158 (NEW)** | **Mako G-125** |
| **Sensor** | Sony IMX273 Exmor | Sony ICX445 EXview |
| **Sensor type** | CMOS | CCD |
| **Shutter type** | Pregius Global shutter | Global shutter |
| **Sensor size** | Type 1/2.9 | Type 1/3 |
| **Pixel size** | 3.45 μm × 3.45 μm | 3.75 μm × 3.75 μm |
| **Resolution** | 1.58 megapixel1456 (H) × 1088 (V) | 1.2 megapixel1292 (H) × 964 (V) |
| **Frame rate** | 75.2 fps | 30.3 fps |

The Mako G cameras combine high image quality and compact form factor with a comprehensive feature set, including:

* Region of Interest (ROI)
* Binning and Decimation
* Auto Exposure, Auto Gain, and Auto White Balance
* Reverse X/Y

**Mako G cameras – ultra-compact and affordable**The popular Allied Vision Mako G camera is known for both its compact form factor and a low price. Due to its small dimensions (29 mm × 29 mm) and various input and output options the flexible integration into existing systems is very easy. This makes the camera especially suitable for the use within complex system designs where space is limited and cost sensitive industrial applications like automated quality inspection or multimedia applications. All cameras have Power over Ethernet (PoE). 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 over 25 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.

www.alliedvision.com

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

**Media contact:**

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

Nathalie Többen

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

T// +49 4102 6688-194, E// nathalie.toebben@alliedvision.com