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| **Press release** | **January 21, 2021** |
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New: High-resolution Manta cameras with 4th generation Sony IMX sensors

Allied Vision releases Manta cameras with Sony IMX540, IMX541 and IMX542 sensors

*Stadtroda, Germany, January 21, 2021* – Allied Vision expands its extensive GigE Vision Manta camera series with three camera models featuring the latest Sony Pregius S global shutter sensor technology, which delivers due to the backside illuminated pixel structure improved imaging performance despite smaller pixels of only 2.74 µm. The 16.2 megapixel Manta G-1620 is equipped with the Sony IMX542 CMOS sensor, the 20.4 megapixel Manta G-2040 features the Sony IMX541 sensor, and the Manta G-2460 with the Sony IMX540 sensor offers 24.6 megapixel resolution. All new models are available as monochrome and color versions.

**High image quality by wider angle of light incidence**The new models offer several advantages over existing high-resolution CCD and CMOS cameras. High quantum efficiency, lower readout noise and higher spatial resolution result in excellent image quality with high dynamic range. In addition, Pregius S BSI (Back Side Illuminated) sensors support wider light incidence angles, enabling simpler lens designs with less sensor shadowing.

**Manta G-1620, Manta G-2040, and Manta G-2460 at a glance**

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| **Model** | **Manta G-1620** | **Manta G-2040** | **Manta G-2460** |
| Sensor | Sony IMX542 | Sony IMX541 | Sony IMX540 |
| Sensor type | CMOS Global shutter | CMOS Global shutter | CMOS Global shutter |
| Sensor size | Type 1.1 | Type 1.1 | Type 1.2 |
| Pixel size | 2.74 μm × 2.74 μm | 2.74 μm × 2.74 μm | 2.74 μm × 2.74 μm |
| Resolution  (H × V) | 16.2 MP 5328 × 3040 | 20.4 MP  4512 × 4512 | 24.6 MP 5328 × 4608 |
| Aspect ratio | 16:9 | 1:1 | 4:3 |
| Frame rate | 7.4 fps | 5.9 fps | 4.9 fps |

**Versatile camera family for demanding applications**The Manta is Allied Vision's most versatile GigE Vision camera series with a wide range of sensors and features. Thanks to the modular concept, users can choose from a wide range of hardware options, including Power-over-Ethernet support, various optical filters, and angle head and board-level variants. This high level of design-in flexibility allows Manta cameras to be incorporated into practically any system. System integration is further simplified by a variety of camera mounting options, and locking connectors ensure safe operation in high vibration environments. To optimize system costs, Manta cameras also support single-cable solutions by powering and triggering the camera simultaneously via the Ethernet cable. In addition, multiple cameras can be precisely synchronized when applying the Precision-Time-Protocoll (PTP) feature.

Easy integration is also ensured on the software side: The new Manta models have a comprehensive GenICam-compatible feature set and are supported by all common image processing libraries. In addition, they can also be easily integrated into applications via Allied Vision's Vimba Software Development Kit.

**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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