PRESS RELEASE

Basler Introduces High-Resolution ace 2 X visSWIR Cameras

**With the new ace 2 X visSWIR models, Basler AG presents compact, cost-effective SWIR cameras with high resolutions and excellent image quality. The international manufacturer of high-quality machine vision hardware and software also offers all relevant components for SWIR vision systems.**

**Ahrensburg, June 11, 2024** – Basler AG is expanding its ace 2 X visSWIR camera family with four high-resolution models. The models (optionally with USB 3.0 or GigE interface) are equipped with Sony's latest SenSWIR sensors IMX992 and IMX993 with 5 MP and 3 MP resolution. They complement the models already available with the IMX990 (1.3 MP) and IMX991 (VGA) sensors. Thanks to firmware features, all SWIR cameras deliver high image quality in the visible and short-wave infrared spectrum, from 0.4 µm to 1.7 µm. With a design of 29 mm x 29 mm, they are compact and also inexpensive, making them suitable for applications for which conventional SWIR cameras are too large or too expensive.

**High image quality thanks to firmware features**

Thanks to innovative firmware features, Basler is able to dispense with cooling for the ace 2 X visSWIR cameras and still offer high image quality in a small size at an attractive price.

The Pixel Correction Beyond feature detects the pixel defects typical of InGaAs sensors in every image during use. It then corrects them in real time directly in the camera without distorting the image content. The Line Noise Reduction feature, implemented in SWIR cameras with the already established IMX990 and IMX991 sensors, reduces the background noise typical of these sensors in the form of horizontal bars in the image and ensures a more homogeneous image background.

**Complete visSWIR vision system**

In addition to the cameras, Basler provides a comprehensive range of visSWIR accessories, including special SWIR lenses, illumination, and filters. Matching PC cards and the proven pylon software for image acquisition complete the portfolio, allowing a complete visSWIR vision system to be set up from a single source.

"SWIR cameras with InGaAs sensors are often equipped with cooling to counteract pixel defects. However, this has a detrimental effect on the size and price of the cameras. All our visSWIR cameras, including the new high-resolution models, do not require cooling. The firmware features, in particular the dynamic defect pixel correction (Pixel Correction Beyond), enable us to offer the cameras in a compact design at an attractive price," emphasizes Dr. Melanie Gräsel, Product Manager at Basler.

**Image caption:** ace 2 X visSWIR cameras - high image quality, compact, and affordable

Basler AG is an international leader and experienced expert in computer vision. The company offers a broad coordinated portfolio of vision hardware and software. In addition, it enables customers to solve their vision application issues by developing customer-specific products or solutions. Founded in 1988, the Basler Group employs around 1,000 people at its headquarters in Ahrensburg, Germany, as well as other sales and development locations throughout Europe, Asia, and North America. The company invests significant resources in the development of innovative, reliable products with an excellent price/performance ratio. Thanks to its global sales and service organization, as well as cooperation with renowned partners, Basler has been delivering solutions to customers from a wide range of industries for over 30 years.

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