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New Time-of-Flight Camera Model Complements Basler's 3D Portfolio

**The 850 nm blaze Time-of-Flight (ToF) camera offers improved stray light robustness for indoor applications and delivers precise, high-resolution 3D data in real time.**

**Ahrensburg, October 26, 2022** – The new model in Basler's blaze ToF camera family combines high precision, low power consumption, and low heat generation with proven blaze features. Both its compact IP67 housing and near-infrared operation at 850 nm make it particularly suitable for indoor applications in logistics and factory automation. With its large 67° x 51° field of view and a working distance ranging from 0.3 to 10 meters, the camera can capture depth data of large objects and entire scenes at once.

As with the blaze 940 nm camera variant, the new 850 nm model's Sony IMX556-DepthSense™ sensor provides precise 2D and 3D data in one shot, consisting of distance, intensity, and confidence maps. The light source (VCSEL diodes) and lens are already integrated in the new variant, enabling precise 3D measurements based on the time-of-flight method.

**Powerful blaze features for optimal 3D images**

The new variant also includes the blaze ToF series feature package. Thanks to Dual Exposure HDR (for scenes with large differences in brightness) and Hardware Trigger, the cameras deliver precisely synchronized images in VGA resolution. All blaze camera models feature new bandwidth control and latency reduction, allowing for optimal GigE load management and improved real-time capability. The distinguished pylon Camera Software Suite enables the usual easy setup and provides full 3D functionality.

**Comprehensive portfolio for 3D imaging**

In addition to two wavelength variants (850 nm and 940 nm), Basler's 3D product portfolio also includes a RGB solution for 3D imaging in true color. This solution combines the spatial depth data from the blaze ToF camera with RGB data from a color camera, such as the Basler ace 2. The result is a colored 3D point cloud in which each 3D point is assigned a color value, especially useful to perform classifications additionally based on object color, or to simplify scene understanding.

Basler’s stereo camera series completes the 3D range with two models designed specifically for image-guided robotics.

"This diverse range of 3D hardware and software, as well as the application software modules optimized for vision tasks in robotics, logistics, and factory automation, allows us to offer customers a wide selection of 3D vision solutions to meet their individual requirements," emphasizes Dr. Sebastian Sauppe, Product Market Manager responsible for the Basler 3D portfolio.

Detailed information on the new blaze camera and the entire 3D portfolio can be found on the [Basler website](https://www.baslerweb.com/en/products/3d-portfolio/).

**Image caption:** Basler’s new blaze Time-of-Flight-camera model for precise 3D measurements.

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 more than 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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