# Press Release

**New LX *VisualApplets* 3D cameras for high-performance laser triangulation**

(11/07/2016) The Baumer portfolio of LX *VisualApplets* cameras with integrated image preprocessing is complemented by fast 2 and 12 megapixel models with 2K and 4K line width respectively and profile rates of more than 2.5 kHz at 128 lines for precise tasks in laser triangulation at high speed. Series production begins in the first quarter of 2017.

These 3D cameras feature a particularly developed laser triangulation applet based on *VisualApplets* technology. It allows for locating the laser line focus directly in the camera with subpixel accuracy, so transmission will only contain the profile data. This will reduce the volume of data for transmission and processing for cost-efficient and flexible system setup with GigE interface. The high resolution and profile rate allow for precise acquisition of the 3D information to identify even the slightest deviations reliably at high processing speed. Aggregating profiles ensure reliable high-speed transmission while also significantly reducing the CPU load. Thanks to the pre-installed 3D applet, laser triangulation tasks can be immediately set up without the need for additional programming – yet providing users with maximum flexibility in convenient adaptation to application-specific requirements. The 3D cameras are quickly integrated using third party software such as *HALCON*. System calibration is easily performed by 3D specimen.

The Baumer LX *VisualApplets* cameras allow users to quickly realize high-performance tasks in image preprocessing with maximum flexibility right in the camera’s FPGA with the help of graphical programming environment *VisualApplets* by Silicon Software. In favor of this, customers benefit from time savings in development, application real-time behavior and maximum know-how protection. At the same time, the volume of data to be transmitted is reduced to simplify processing by the PC-based image processing system which does not have to perform complex algorithms consuming considerable processor power. By using a *GigE Vision* interface the integration effort and system cost can be reduced.

More information on the LX *VisualApplets* cameras: [www.baumer.com/VisualApplets-Cameras](http://www.baumer.com/VisualApplets-Cameras)

Our product tutorial for LX *VisualApplets* industrial cameras: [Simple Show on YouTube](https://www.youtube.com/watch?v=_dlI68VTgBg)

**Baumer at VISION: Hall 1, booth F32**

Photo: Baumer adds to the LX *VisualApplets* camera portfolio with new fast 2 and 12 megapixel models as well as 3D cameras for laser triangulation.

Number of characters (with spaces): approx. 2200

Text and picture download at: [**www.baumer.com/press**](http://www.baumer.com/press)

**Baumer Group**

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