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New Basler pilot Cameras Push the Speed Barrier for Five Megapixel Cameras to 17 Frames per Second

Ahrensburg, 9 September 2008 – Basler Vision Technologies expands its successful pilot GigE camera series with two new models based on Sony's ICX625 CCD sensor.

The new pilot piA2400-17 cameras feature an image capture rate of up to 17 frames per second with uncompromisingly high image quality. With 2448 x 2050 pixels, these cameras deliver five megapixel resolution. They are the direct successors of Basler's piA2400-12 cameras, which feature the same resolution but offer a 12 frame rate. To be even more attractive, the new models will have the same prices as the older cameras. Basler pilot cameras fit perfectly into intelligent traffic systems (ITS), semiconductor and electronics inspection, LCD inspection, 3D measurement, and several other applications.

"By adding the piA2400-17 cameras to our pilot portfolio, we think we currently supply the marketplace with the fastest five megapixel camera using the ICX625 sensor. And we redefine the benchmark for speed and image quality while retaining our attractive price level", explains Henning Tiarks, Product Manager at Basler Components.

The new piA2400-17 models actually break the 12 frame barrier that had been set by the market for this class of cameras and allow an image capture rate of 17 frames. A 17 frame rate is the usual standard for one megapixel cameras such as Basler's A102f or scout scA1400-17. The combination of a one megapixel camera and a new pilot five megapixel camera within a single application is now very easy. Customers can capture images from both cameras at the same time without performing the synchronization tasks needed in the past.

All Basler pilot camera models feature a compact 29 mm x 44 mm x 98.5 mm housing with a GigE Vision compliant Gigabit Ethernet interface. They are available in monochrome or color. The cameras provide an RJ-45 Ethernet connector with a screw mount option. Standard cameras are equipped with a C-mount lens adapter. For easier integration into space critical applications, a 90° angled head option is available.

The impressive image quality of these new models is measured and qualified for each camera during production using automated EMVA 1288-based sensitivity tests. Thanks to a superior camera design, even at 17 frames these tests show results that are comparable to or even better than the 12 frame versions.

Basler has leveraged its years of experience in balancing the output from imaging sensors with two taps, so customers can expect a perfectly balanced, homogenous image. This technological advantage has



already impressed many customers who use other Basler pilot cameras based on Kodak dual readout sensors. All Basler pilot cameras have shown exceptionally good results compared to competitive cameras based on the same sensors.

Basler's pylon driver package supports both GigE and FireWire cameras. The Basler pylon SDK enables straightforward integration into existing applications via extensive documentation and code samples that can often be simply cut and pasted into customer applications. The pylon driver technology developed by Basler has been proven in several thousand camera installations over the last year and has gained a well-deserved reputation for low CPU load, robustness, and ease of use.

The new pilot cameras will enter series production in October 2008.

This year, the cameras will be presented at the Vision Show in Paris, France from September 30 until October 2, 2008 and at the VISION trade show in Stuttgart, Germany from November 4-6, 2008.

Basler Components designs and manufactures digital cameras for industrial, medical, and traffic system applications, and also for the video surveillance market. Products include color and monochrome line scan, area scan, and intelligent cameras as well as innovative and flexible IP cameras. Basler has more than 20 years of experience in image processing. We have designed and manufactured high quality digital cameras for over 10 years. Product designs are driven by industry requirements and offer easy interfacing, compact size, and a strong price/performance ratio.

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