



Press Release

PMD's partner Bluetechnix presents 3D camera equipped with PMD PhotonICs® 19k-S3 Time-of-Flight 3D chip

October 31st, 2012 – Siegen – PMD's partner Bluetechnix premieres the first products of its new Argos® line of 2D and 3D camera systems together with software and tools of partner Nisys who demonstrates the seamless integration into the Advanced Development & Analysis Framework (ADAF) at Vision 2012 in Stuttgart, November 6th to 8th.

Argos^{3D} - P100 with pmd intelligence

The Argos^{3D} - P100 is a new 3D camera operating on the Time-of-Flight (ToF) principle. The Argos^{3D} - P100 is equipped with a PMD PhotonICs® 19k-S3 Time-of-Flight 3D chip. Using active IR illumination, the sensor is able to capture 2D as well as 3D information at a resolution of 160x120 pixels with up to 160 frames per second independently of ambient light. With a range of 3m, a field of view of 90° and a size of 75 x 57 x 26 mm, this USB camera can be used for next generation sensor systems in various application fields like robotics, gesture recognition, HMI or people counting.

ADAF & TRS by Nisys

ADAF (Advanced Development & Analysis Framework) is a platform-independent plugin-based data processing middleware with a flexible structure for recording data, annotation of ground-truth data, integration and validation of algorithms. The Evaluation Framework within Nisys ADAF comes with out-of-the-box data evaluation algorithms. Moreover, Nisys supplies its clients with the ADAF SDK, which allows easy development of new modules.

The traffic simulation environment TRS is specifically designed for endurance tests (> 250,000 km). Its flexible internal design allows easy integration of any client-specific module.

PMD PhotonICs® 19k-S3

The PMD PhotonICs® 19k-S3 is the first commercially available Time-of-Flight 3D chip. The optical sensor enables the real-time capture of distance and grayscale information. Due to the outstanding sensitivity and improved performance high accuracy with extremely low power consumption is achievable. Read-out clocks of 15MPixel/s are possible. Thanks to the integrated SBI (Suppression of Background Illumination) technology, a well known PMD feature, this innovative product can be deployed in indoor and outdoor environments. The resistance to motion blur allows detecting fast moving objects. A Region-of-Interest (ROI) function enables a flexible and application specific lateral



Press Release

resolution. All the same, the chip is suitable for various applications such as automotive environmental detection, factory automation, mobile robotics as well as digital signage to mention just a few.

About Bluetechnix

In business since 2004, **Bluetechnix** is well known for being a manufacturer of high quality System-on-Modules (SoM) and Embedded Systems. With the Argos camera family Bluetechnix takes the next step to offer turnkey solutions for 2D and 3D image processing. Bluetechnix delivers off-the-shelf products for development and integration into customer products as well as tailored solutions including firmware and driver development. For more information, please visit www.bluetechnix.com.

About Nisys

Nisys was founded in 2003 as a spin-off of the "Institut für Neuroinformatik" (Institute for Neuroinformatics) at the Ruhr University Bochum. Their goal is to support our clients from design to the release for series production of current and upcoming ADAS applications. Therefore, nisys offers high-quality algorithms and efficient tools for development and validation of ADAS applications. For more information, please visit www.nisys.de.

About PMDTechnologies GmbH

PMDTechnologies, a fabless IC company, is the worldwide leading 3D ToF CMOS-based digital imaging supplier. Founded in 2002 as a spin-off from the Center for Sensor Systems at the University of Siegen, PMD owns over 40 patents worldwide concerning PMD-based applications, the PMD (Photonic Mixer Device) principle and its realization. By 2011, the company had sold over 500,000 PMD sensors in various markets and applications. More than 60 highly-skilled engineers are employed by the German-based Corporation headquartered in Siegen, working mainly on chip design, quality assurance and in the area of pre-series and product development. For more information, please visit www.PMDTec.com and www.cayim.com.

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