

3D Vision Company TYZX Launches DeepSea G2 Stereo Vision System

New Embedded Stereo Vision System Provides Integrated Solution For Cost-Effective Volume Deployment in Commercial Applications Requiring Small Footprint and Low Power

MENLO PARK, Calif., Sept. 12, 2006 – Tyzx, Inc. today announced the DeepSea G2 Stereo Vision System, a small, multi-purpose, embedded stereo camera that can be deployed in mobile platforms such as commercial and defense robots, automobiles, or networked together into person-tracking security systems.



Tyzx, building on more than 15 years of research at Harvard, Interval Research, MIT, and Stanford, has developed a platform of hardware, software and services for building affordable products that see and interact with the world in three dimensions. Tyzx delivers high volume, cost-effective 3D vision solutions to industry leaders in automotive, consumer electronics, robotics and security markets.

The low power and small footprint of the new embedded G2 vision system permit powerful real-time 3D vision processing in applications and products where traditional workstations cannot be used. Tyzx 3DAWARE real time 3D stereo vision is especially useful for products that operate in dynamic, variably lit environments. It also provides

higher quality results, such as color, wider field of view, higher resolution and better range accuracy, than current monocular optical-based, lidar or radar systems.

“Although 3D vision research has been pursued on and off for many years, monocular camera systems have dominated commercial markets due to their lower cost,” said Neena Buck, vice president of the Emerging Frontiers program at Strategy Analytics, an industry analysis, market research and technology strategy firm. “With lower-cost, smaller format, low-power development platforms such as Tyzx’, designers can now consider implementing 3D vision systems as alternatives to monocular camera systems, when appropriate.”

The new Tyzx DeepSea G2 Stereo Vision System integrates two CMOS imagers, Tyzx’ own DeepSea II stereo image processing ASIC, and an FPGA implementing new Tyzx vision primitives together with a DSP/Co-processor and an embedded PowerPC running Linux. The G2 transforms the incoming imager data into easily utilized 3D object maps with the use of vision primitives implemented directly in hardware, thus dramatically increasing performance and freeing the Linux CPU and DSP to host the Tyzx SEER software API and user applications.

“Tyzx’ G2 can be used to create high performance, small format, low power 3D vision systems that can be easily deployed in the real world,” said Ron Buck, CEO of Tyzx. “Our approach to computer vision solves the enormous technical problems that historically made this solution unaffordable for volume commercial markets.”

Tyzx has been providing its G2 stereo vision systems to its key partners, such as NASA, Unisys Corporation and Takata Group, to develop and test the technology. The DeepSea G2 Vision system is now generally available immediately from Tyzx. Pricing for the system is \$4,995 in low volumes.

About Tyzx, Inc.

Tyzx is a 3D vision company providing a platform of hardware, software and services for building products that see and interact with the world in three dimensions. Tyzx delivers high volume, cost-effective 3D vision solutions to industry leaders in automotive, consumer electronics, robotics and security markets. Founded in 2002 and based in Menlo Park, Calif., Tyzx is privately funded. Tyzx received a \$4 million investment from Takata, the global manufacturer of automotive safety systems, following an earlier

investment by Microsoft co-founder Paul Allen. For more information, visit
www.tyzz.com

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