

Velodyne to Attend SPIE Defense and Security Conference, Demonstrating Advantages of Real-Time 3D LiDAR

Velodyne will exhibit at the SPIE Defense and Security Conference, giving a live technology demonstration of real-time 3D LiDAR for security and surveillance purposes.

Morgan Hill, CA (PRWEB) April 24, 2013



Velodyne Acoustics' LiDAR division will be attending the SPIE Defense and Security show in Baltimore, MD from April 30 to May 2, exhibiting its real-time 3D LiDAR scanner HDL32. The HDL32's 32 rotating lasers allow to capture 360° views of its environment with a 40° vertical field of view up to 20 times per second producing a point cloud with over 700,000 data points per second.

Autonomous vehicles from the commercial and military sector take advantage of this data rich point cloud in order to make split second decisions navigating through city streets or unknown terrain in foreign countries.

The HDL32 also has established itself as the sensor of choice for mobile mapping, where one or two HDL32 sensors are mounted on a mapping vehicle moving at highway speeds, recording everything from the street itself, line markings, street signs, bridges and railings. Its calibrated reflectivities feature allows for automated detection of retro-reflectors like street signs and license plates.

Recently, Velodyne's HDL32 has received increased interest from the Security and Surveillance industry as the stationary HDL32 allows monitoring moving objects in a 150 meter diameter circle around the sensor at day and at night.

During the SPIE Defense and Security conference, Velodyne will be joined in booth #1739 by Raytheon BBN Technologies, showcasing BBN's People Tracking software, which allows users to track people moving in a 3D environment based on the data from the HDL's point cloud. A live technology demonstration takes this concept a step further and the XYZ coordinates, as measured by the HDL32 and tracked by BBN's People Tracking software, will be passed on to a web based PZT camera that follows the movement of a person of interest step by step. In addition, this technology demonstration allows certain areas to be marked as high security sectors and, upon entry of a person into such marked area, an alarm will be triggered and a light will flash alerting security personnel of a possible breach in security.

About Velodyne LiDAR:

Velodyne, located in California's Silicon Valley, established its roots over 30 years ago. The company's LiDAR division evolved after founder and inventor, David Hall, competed in the 2004-05 DARPA Grand Challenge utilizing stereo-vision technology. Based on his experience during this challenge, David Hall recognized the limitations of stereo-vision and developed the HDL64 high-resolution LiDAR sensor. Since its first commercial sale in 2007, Velodyne's LiDAR division has emerged as the leading developer of laser imaging technology. Today, Velodyne continues to build on its iconic history by introducing groundbreaking technology and design. Find out more about by visiting velodyne.com and velodynelidar.com.



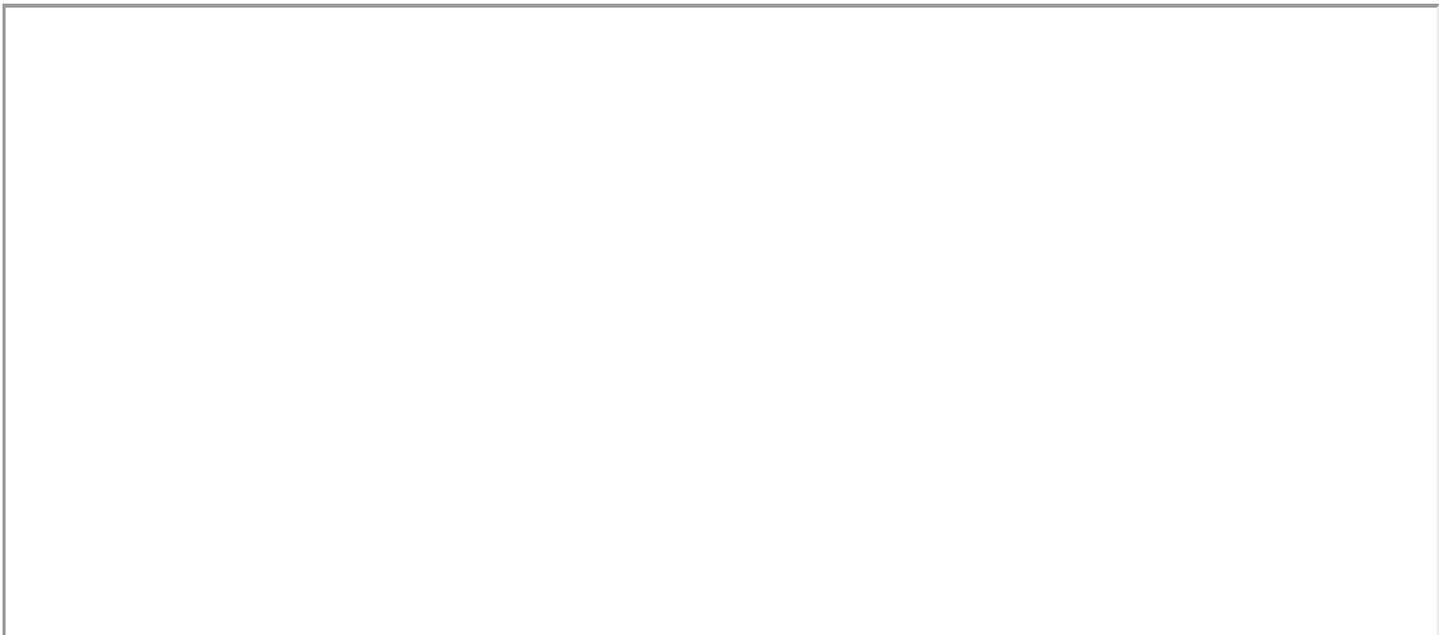
Combining Velodyne's real-time 3D LiDAR with PZT camera for security and surveillance purposes.

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