

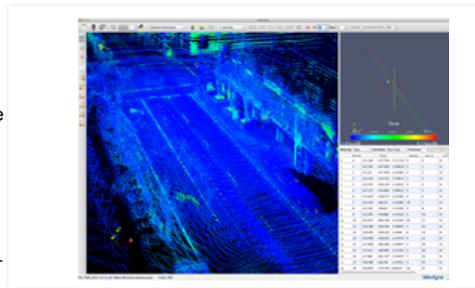
## Velodyne Announces VeloView 2.0, Next Version of Visualization and Recording Software for LiDAR Sensors

VeloView 2.0 to Debut at SPAR in Colorado Springs, April 13-17; Enhances Features Related to Positioning, Remains Free and Open-Source

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Velodyne's LiDAR division (<http://www.velodynelidar.com>), the leading manufacturer and supplier of real-time LiDAR sensor technology used in a variety of commercial applications, announced today that it will release Version 2 of VeloView software during SPAR 2014, the Mapping and LiDAR show, in Colorado Springs April 13-17. The company will be in Booth #615.



VeloView is free and open-source visualization and recording software for Velodyne's family of 360°, real-time, 3D LiDAR sensors, including the classic HDL 64E and its compact and lightweight successor, HDL-32E.

Since its introduction last year, VeloView has been instrumental in enabling new customers to get up and running rapidly. With this software, users can view and record HDL sensor data in Velodyne's proprietary .pcap format in addition to exporting the data frame-by-frame to the more common .csv format. VeloView also includes a "live" mode, where data from up to 64 channels can be viewed in 3D and in real-time, much as a self-driving car sees the world using Velodyne's HDL sensors (see the video: <http://vimeo.com/91453207>).

VeloView Version 2.0 includes enhanced features related to positioning information and data analysis.

New in revision 2 is the ability to record and display position packets. This capability is vital when a high accuracy GPS/IMU device is connected to the LiDAR sensor for geo-referencing. PPS signals (pulse per second) from the GPS/IMU device allow for time synchronization between GPS/IMU and the sensor, while the \$GPRMC NMEA from the GPS/IMU is being mirrored in the HDL's position packets. A "map" feature enables the GPS waypoints to be plotted on screen, indicating the path traveled. The accuracy of the plotting is tied directly to GPS data accuracy and limited to updates of one per second.

VeloView was created in partnership with Kitware, a leading developer of open-source 3D visualization software. Both companies are committed to continue offering VeloView 2.0 free of charge, including its source code and libraries.

"Interested parties can base their customized application software on these already existing libraries without having to start from scratch," said Casey Goodlett, lead developer of VeloView at Kitware. "This will help eliminate programming errors and save software development time, thereby making data collection more productive."

Additional features in VeloView 2.0 include a ruler for distance measurements, a plane fit tool, a laser selection tool, and the ability to show sequential data in one display (trailing frames). VeloView 2.0 can be downloaded here: <http://www.paraview.org/Wiki/VeloView>.

### About Velodyne LiDAR

Founded in 1983 and based in California's Silicon Valley, Velodyne, Inc. is a diversified technology company known worldwide for its high-performance audio equipment and real-time LiDAR sensors. The company's LiDAR division evolved after founder and inventor David Hall competed in the 2004-05 DARPA Grand Challenge using stereovision technology. Based on his experience during this challenge, Hall recognized the limitations of stereovision and developed the HDL64 high-resolution LiDAR sensor. More recently, Velodyne has released its smaller, lightweight HDL 32E sensor, available for many applications including UAVs. Since 2007, Velodyne's LiDAR division has emerged as a leading developer, manufacturer and supplier of real-time LiDAR sensor technology used in a variety of commercial applications including autonomous vehicles, vehicle safety systems, 3D mobile mapping, 3D aerial mapping and security. For more information, visit <http://www.velodynelidar.com>. For the latest information on new products and to receive Velodyne's newsletter, [register here](#).

### About Kitware

Kitware is an advanced technology, research, and open-source solutions provider for research facilities, government institutions, and corporations worldwide. Founded in 1998, Kitware specializes in research and development in the areas of visualization, medical imaging, computer vision, quality software process, data management, and informatics. Among its services, Kitware offers consulting and support for high-quality software solutions. Kitware is headquartered in Clifton Park, NY, with offices in Carrboro, NC; Santa Fe, NM; and Lyon, France. More information can be found on <http://www.kitware.com>.

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