

RIEGL Launches Mobile Mapping Turnkey Systems at ILMF 2016



At ILMF 2016 in Denver, Colorado, USA, RIEGL launched two new high-speed mobile mapping turnkey systems featuring the high-performance VUX-1HA kinematic Lidar sensor. The first customers in the United States for these systems are David Evans and Associates, a surveying firm based in Portland, Oregon, and Surveying Solutions, a professional surveying firm based in Michigan.

When looking for a second mobile laser scanning system to supplement its surveying and geomatics arsenal, David Evans and Associates, Inc. chose the RIEGL VMQ-1HA to assist with client requirements on transportation, water, land development and energy projects. The company was very impressed with the small size of RIEGL's VMQ and the extraordinary data resolution that can be achieved from the VUX1-HA laser, said Marcus

Reedy, PLS director of surveying and geomatics with David Evans and Associates.

Lightweight system

The new VMQ-1HA high-speed single scanner mobile mapping system, with one VUX-1HA scanner integrated, is a lightweight system for the growing mobile mapping market. Fully integrated into the measuring head of the system, the sensor enables acquisition of dense point cloud patterns, also with single passes at typical traffic speeds. The usage of the system's swivel plate enables the measuring head to be set to different predefined mounting angles, which enables the generation of different point cloud patterns meeting diverse project requirements. The optional integration of up to four cameras allows simultaneous acquisition of imagery to complement the captured Lidar data.

Surveying Solutions, Inc. (SSI) announced the purchase of its second VMX mobile Lidar system. SSI's acquisition of the new RIEGL VMX-1HA will aid in the expansion of SSI's mapping portfolio. This acquisition allows SSI to continue to stay at the forefront of the mobile mapping market, according to Andrew Semenchuk, president of SSI. The VMX dual scan head system provides, in the company's experience, the most accurate and complete data collection package on the market which allows SSI to provide accurate and reliable information to its clients. SSI has had an outstanding relationship with RIEGL since the purchase of its first VMX mobile system in 2011 and has pushed the limits of the equipment and software. Since then, RIEGL has responded with the VMX-1HA which is capable of over 2 million points per second, making it the premier mobile Lidar system on the market today. Semenchuk added that SSI is proud to add this system to its mobile mapping operations.

Challenging projects

The new VMX-1HA high-speed, high-performance dual scanner mobile mapping system, with two VUX-1HA scanners integrated, provides dense, accurate and feature-rich data, even at high driving speeds. With up to 2 million measurements and 500 scan lines per second, the fully integrated turnkey solution is ideally suited for challenging projects and engineering-grade surveying applications.

In addition to the sensors, the roof-carrier mounted measuring head integrates a very high-performance INS/GNSS Applanix unit. All components of the system are housed under an aerodynamically shaped protective cover. An optional camera platform ensures user-friendly mounting and set-up of up to six digital cameras providing precise time-stamped images. The compact control unit and RIEGL's software suite are designed to ensure a seamless workflow for mobile data acquisition, processing and adjustment.