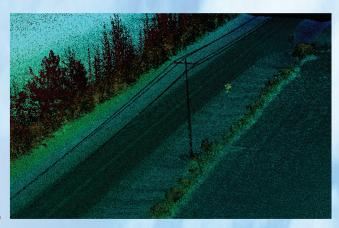


ScanLook Revolution Series

LiDARUSA makes mobile mapping easy with the VectorNav 300

ScanLook Revolution synergistically combines light-weight LiDAR and the VectorNav VN-300 to facilitate mapping from almost any moving platform. The low power consumption, extreme ease of use, and ability to store a full weeks' work on-board, while delivering a usable point cloud make this a must-have tool for any professional mapper.

REVOLUTION – Less Is Better! Putting aside complicated procedures, over performing laser scanners and inertial navigation systems, ScanLook Revolution combines the right hardware and software to make a usable, affordable mobile LiDAR system that can get the job done and leave room for a reasonable ROI. The fact is, most jobs are not sub-centimeter.



ScanLook Revolution starts at \$29,990 and up.



One of the keys to the success for the Revolution is the VectorNav VN-300, a dual GPS-aided INS combining MEMS sensors and advanced filtering algorithms. The VN-300 weighs only 30g with an aluminum enclosure and is 45x44x11mm in size (5g and the size of US Quarter for a surface mount). Packed in this little dynamo is everything necessary to provide adequate positioning and orientation data to fuel the Revolution LiDAR mapping system. The beauty of the system comes in the simplicity. No base station is required, no expensive post processing software, no RTK radio modems, and within minutes of completing

data capture a usable point cloud can be produced, ready for extraction of the feature rich LiDAR point cloud directly into the CAD or GIS program of choice.

Using a 72 channel, L1, GNSS operating at 5Hz and with a 400Hz IMU data rate, the VN-300 delivers horizontal positioning with SBAS of 2 meters RMS (in real-world projects this is most often 20 to 50 centimeters) and vertical positioning up to 2.5 meters RMS. The orientation, ever so important for a mobile LiDAR system, provides a heading accuracy of 0.3 degrees RMS and Pitch/Roll accuracies of 0.1 degrees RMS (equating to 2 inches at 100 ft).