

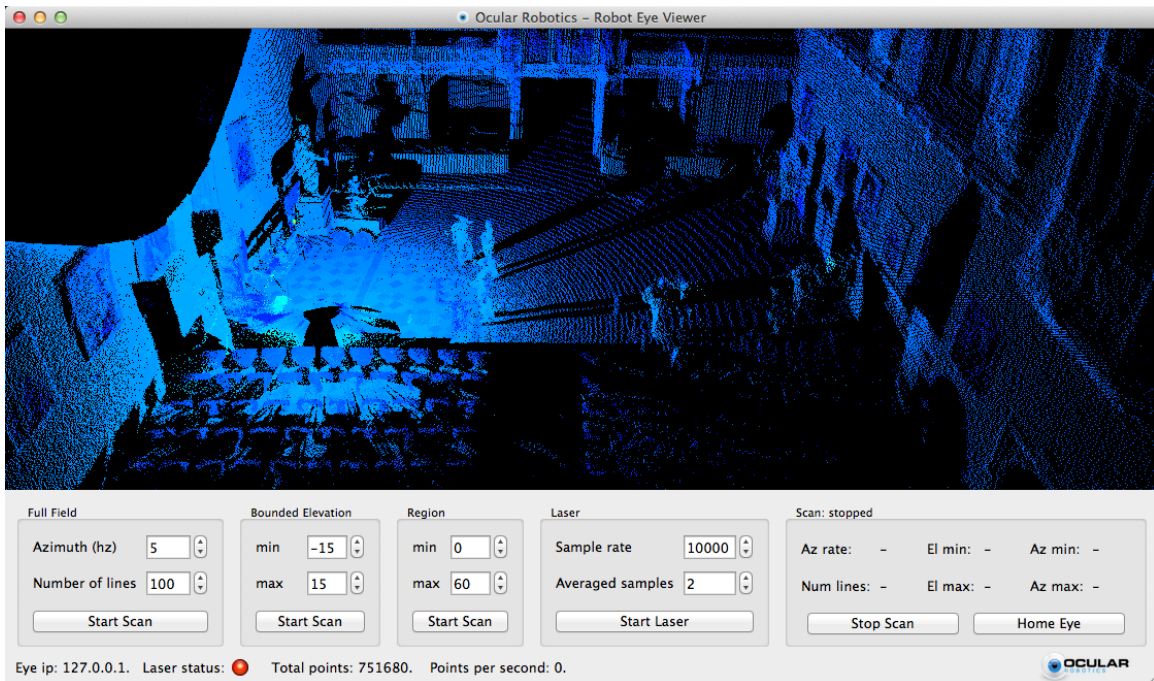
OCULAR ROBOTICS LIMITED (ASSOB: OCR)

Point Cloud Library Project Delivers to Ocular Robotics Customers a Live Visualization Tool and Seamless Access to State of the Art 3D Processing



The Completion of the Open Perception project to add Ocular Robotics' RE05 3D laser scanner support to the Point Cloud Library delivers to RE05 users' seamless access to the state of the art 3D processing capabilities of the library. In addition a live visualization tool to control and immediately visualize the unique scanning capabilities of 3D scanners based on the RobotEye technology was also delivered. The following video shows a demonstration of the RE05's unique scanning capabilities through the live viewer, which in addition to being a powerful tool for RE05 users is also ideal for demonstration of the RE05 to prospective customers. [RE05 LIVE VIEWER](#)

This collaboration has delivered to the worldwide PCL user community the ability to directly access data streamed from RE05 scanners through the Point Cloud Library. Resulting in accelerated application development timelines for our customers by streamlining the link between data capture and data processing. In addition to this the live viewer that was created will ship with RE05 scanners allowing users full control over scanning behavior and simultaneous viewing of the 3D data as it is streamed from the RE05.



Ocular Robotics Live Viewer User Interface

The Point Cloud Library is a large scale, open project for 3D point cloud processing. The PCL framework contains numerous state-of-the art algorithms including filtering, feature estimation, surface reconstruction, registration, model fitting and segmentation. These algorithms can be used, for example, to filter outliers from noisy data, stitch 3D point clouds together, segment relevant parts of a scene, extract keypoints and compute descriptors to recognize objects in the world based on their geometric appearance, and create surfaces from point clouds and visualize them -- to name a few.



Mark Bishop - Director, CEO