

To offer their Alpha Puck lidar sensor to automakers on a volume basis, Velodyne Lidar first had to design a manufacturing system for it.



The company created a fully-automatic production line in San Jose, California that allowed them to handle tight tolerances at the robust volumes needed to support automotive mass production.

The result is that the Alpha Puck system has become Velodyne's flagship product for surround-view sensors.

The lidar sensor, officially known as VLS-128, incorporates 128 lasers, provides real-time 3D data up to 0.1-degree vertical and horizontal resolution, has a 300-metre range, and gives a 360° surround view. The system has surpassed other available lidar systems based on field of view, resolution, and range—that's according to Mircea Gradu,

Velodyne's Senior Vice President of Quality and Validation.

Velodyne say their technology is precise enough to support high-speed highway autonomous driving, and the Alpha Puck is attracting interest for use in Level-4 and -5 autonomous applications, Gradu said.