



July 18, 2016, Cranbury, NJ – Princeton Lightwave Inc. announces Automotive LiDAR Business Unit

Princeton Lightwave is announcing the formation of its Automotive LiDAR Business Unit to commercialize its industry leading Geiger-mode LiDAR technology for the emerging driverless car market. Geiger-mode LiDAR has been recommended by the Auto Alliance – which represents vehicle manufacturers that produce 77% of all cars and light trucks in the United States – for its ability to sense beyond 200 meters for reducing collisions. Princeton Lightwave is a global leader in Geiger-mode LiDAR operating at wavelengths with high eye-safety margin. Dr. Sabbir Rangwala, who has been leading the company’s Advanced Driver Assistance Systems activities for several years, is the unit’s President. He affirmed, “Safety is a prerequisite for automated driving, and long-range LiDAR is a critical part of the sensor suite for enabling safety at different levels of automation. Princeton Lightwave is the only company with Geiger-mode LiDAR sensors operating beyond 1400 nm and is uniquely positioned to leverage this technology into the automotive market.”

Princeton Lightwave has commercialized Geiger-mode detectors over the past decade for 3D imaging applications in defense and mapping. CEO Mark Itzler stated, “The high sensitivity of Geiger-mode detectors – which are capable of detecting even just a single photon – provides unparalleled performance for high-resolution, long-range 3D LiDAR imagery. Our sensors are enabling new targeting and navigational capabilities as well as disruptive improvements in 3D mapping.”

LiDAR’s benefit for automotive safety is its ability to provide 3D object recognition, which neither monovision cameras nor radar can. Princeton Lightwave Chairman Yves Dzialowski commented, “We are forming the Automotive LiDAR Business Unit in response to this need. The GeigerCruizer™ LiDAR is differentiated from others by its ability to detect low-reflectivity objects beyond 200 meters within eye safety limits. The core device technologies are semiconductor-based, so they will scale in volume to meet automotive prices.”

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Princeton Lightwave is the leading supplier of Geiger-mode detectors, which are sensitive optical devices capable of detecting single photons. These detectors are at the core of 3D LiDAR cameras that provide orders-of-magnitude improvement in applications such as target identification, 3D mapping, ranging, and navigation. Geiger-mode LiDAR sensors also enable eye-safe, long-range autonomous driving, long-distance free-space optical communications, quantum communications, and other remote sensing applications. Princeton Lightwave is located in Cranbury, NJ and is privately held.

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