For Immediate Release

Radiant Presents on Near-Infrared Sensing Systems for Vehicle Interiors at Intelligent Lighting Online Event

REDMOND, Wash. – September 17, 2020— Radiant Vision Systems, a leading provider of test and measurement solutions for lighting and displays, announces that it will present at Intelligent Lighting Online—a free, half-day virtual event hosted by Automotive IQ—which brings together experts in the automotive industry to discuss the future of vehicle lighting. Automotive Business Leader at Radiant, Matt Scholz, will give the company's presentation "Near-Infrared Light for In-Cabin Sensing and Driver Monitoring Systems (DMS)" during a live web broadcast. The presentation includes a discussion of the market, forthcoming regulations, and performance considerations for near-infrared (NIR) sensing systems used in vehicle interiors. The Intelligent Lighting Online event takes place Tuesday, September 29, from 8:00-11:00 A.M. Eastern Daylight Time (EDT) (14:00-17:00 Central European Summer Time (CEST)). Scholz will lead Session Two of the conference from 9:00-9:45 A.M. EDT (15:00-15:45 CEST) with a 30-minute presentation followed by an audience Q&A session.

"Near-IR light broadens our traditional understanding of automotive lighting," says Scholz. "The invisible wavelengths of NIR enable vehicle intelligence beyond most visible light—for example, in sensing systems, where lidar is the leading application outside the vehicle. Inside the vehicle, light-based sensing has an even broader scope of potential applications, from DMS to occupant safety to personalization. With semi-autonomous vehicle functions becoming more commonplace, new regulations from the European Union and the United States are emphasizing the importance of sensing and other advanced driver assistance systems (ADAS) for safety. As a test and measurement provider, Radiant aims to help manufacturers ensure optimal performance of these systems so they can easily integrate sensing components to meet these regulations."

In-vehicle sensing systems that rely on NIR LED or laser light sources function by projecting invisible light into areas of the cabin. Reflections of this light are captured by NIR sensors to map the vehicle interior as well as calculate the presence, depth, shape, and other 3D information about all occupants and objects inside. In DMS, NIR light can be used to unobtrusively monitor driver alertness, gaze, presence, and position to prevent accidents due to distraction or drowsiness behind the wheel. In the future, such systems could be leveraged for facial recognition to enable vehicle personalization, automatically adjusting settings like seat and mirror position for each driver's personal preferences.

This year, the European Union mandated that DMS and other safety systems be integrated into all new vehicles by 2022, and the United States is soon to follow, initiating the "Stay Aware for Everyone" (SAFE) Act of 2020. Additionally, the European New Car Assessment Programme (Euro NCAP) has announced that it will reward manufacturers that offer Child Presence Detection as a standard feature in new vehicles beginning in 2022, (e.g., sensing systems to monitor the safety of children left unattended in cars). Automakers and suppliers are under pressure to implement sensing technologies quickly and effectively, with the role and performance of NIR light sources gaining new significance within the vehicle.

During the upcoming web presentation at Intelligent Lighting Online, Scholz will provide an overview of the applications and considerations of integrating NIR-based sensing systems inside the vehicle. The webinar will provide examples of systems currently deployed in the market, a review of upcoming regulations, and the measurement methods used to ensure effective and safe performance of NIR light sources used for sensing (such as LEDs and vertical-cavity surface-emitting lasers, or VCELs). With over 10 years of experience working on automotive metrology applications, Scholz has led projects at all levels of the automotive supply chain, from Tier 1, 2, and 3 vendors to major OEMs worldwide.

For more information about Radiant's presentation or to register for the free, half-day virtual event on September 29, visit https://www.automotive-iq.com/events-intelligent-lighting-online

About Radiant Vision Systems
Radiant Vision Systems works with world-class brands and manufacturers to deliver creative visual inspection solutions that improve quality, reduce costs, and increase customer satisfaction. Radiant's legacy of technology innovation in photometric imaging and worldwide install base date back more than 25 years and address applications from consumer electronics to automotive manufacturing. Radiant Vision Systems product lines include TrueTest™ automated visual inspection software for quality control, and ProMetric® imaging colorimeters, photometers, and light source measurement systems. Radiant is headquartered in Redmond, Washington, USA, with strategic offices in California, Michigan, China, Vietnam, and South Korea. Radiant has been a part of Konica Minolta's Sensing Business Unit since August 2015. For more information, visit www.RadiantVisionSystems.com.

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