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Radiant Presents Curved Display Measurement Methods and System Specifications at Vehicle Displays Detroit

REDMOND, Wash. – August 26, 2019— Radiant Vision Systems, a leading provider of imaging systems and software solutions for visual inspection of electronic displays, announces that it will exhibit and lead a technical session at the SID (Society for Information Display) [Vehicle Displays Detroit](#) 26th Annual Symposium

& Expo. This event, showcasing vehicle displays and interfaces, will take place at Burton Manor Conference Center in Livonia, Michigan, September 24-25. From table #37, Radiant will showcase photometric and colorimetric imaging solutions that address the latest challenges in automotive display testing, including unique image processing features that automatically find the edge and register non-rectangular freeform display shapes for accurate, holistic analysis.



Vehicle Displays Detroit provides a technical forum and exhibit of technologies that enable new vehicle displays like freeform and curved displays, head-up displays, virtual mirrors, and more. Engineers and designers from global automotive OEMs and suppliers convene at this event to exchange research and ideas that advance display technology, regulatory requirements, and measurement methods. Radiant Vision Systems sponsors Vehicle Displays Detroit each year to advocate the advancement of display innovation in the automotive industry, supported by the company's photometric solutions for metrology of new and complex display systems. Leveraging over two decades of industry leadership in visual quality for consumer electronics—including OLED, LCD, microLED, near-infrared three-dimensional (3D) sensing, and AR/VR (augmented/virtual reality) technologies—Radiant applies proven solutions to emerging challenges in automotive display manufacturing to achieve visual performance that is driven by the quality expectations of today's consumers.

During this year's Vehicle Displays [Technical Program](#), Radiant will give a presentation on measurement solutions for curved displays as part of Session 5 on Metrology, taking place on the second day of the symposium (Wednesday, September 25 from 8:15 A.M. to 10:15 A.M.). Radiant Automotive Business Leader Matt Scholz will lead Session 5.5 to present the content of his technical paper "Methods for Measuring Small Defects in Curved Displays: Evaluating Approaches and System Specifications," which summarizes the results of several lab tests evaluating the effectiveness of various methods to detect common display defects on a display with a 1500 millimeter (1500R) radius of curvature. As a display measurement provider, Radiant contributes to the testing of new display technologies to further the development of universal methods and metrology solutions that generate attainable quality standards within the automotive community. The goal of Radiant's research is to help redefine display metrology methods for curved displays, whose view-angle changes can obscure and distort defects that are easily addressed in flat panel display (FPD) evaluation using existing methods.

In his presentation, Scholz will offer alternatives to traditional FPD testing (unique system settings, imaging techniques, and analysis methods) that optimize the accuracy and efficiency of detecting display defects on a curve. Scholz will present recommendations from Radian's lab testing during Session 5.5 on September 25 from 9:35 A.M. to 9:55 A.M., with an opportunity for audience questions following the presentation.

In addition to a technical presentation, Radian will host tabletop #37 from the floor of the Vehicle Displays exhibition, where technical experts from the company's automotive solutions team will give live demonstrations of [ProMetric® imaging systems](#) and software used for metrology and production qualification of automotive lighting and display systems. Radian will provide a demo of its [ProMetric® 1 Imaging Colorimeter](#) evaluating a freeform (non-rectangular) display, applying several analyses for complete display measurement using a single, fully automated test sequence (analyses include ANSI Brightness, Line Defects, Edge Mura, ANSI Color Uniformity, Checkerboard Contrast, Particle Defects, and Black Mura Gradient). Radian's [TrueTest™ Automated Visual Inspection Software](#) provides advanced algorithms for active display registration of both rectangular and non-rectangular displays. With a growing number of freeform display concepts in automotive design, the ability to target the active display area of new and unique shapes is increasingly important for accurate measurement of spatially significant features (for example: display luminance, color, uniformity, contrast, and randomly occurring defects like mura). The RIDA (register inside display area) feature of TrueTest Software can be used to zero-out negative space around freeform display shapes such as curves and stadium shapes that are common in the latest freeform displays, ensuring easy setup of the Radian measurement system and reliability of data in any environment.

Complimentary registration for Vehicle Displays Detroit is available courtesy of Radian using ID Code **ndwJXGS**. For information or to register for Vehicle Displays Detroit, visit www.vehicledisplay.org. Learn more about Radian Vision Systems by visiting table #37 at the exhibit or online at www.RadiantVisionSystems.com.

About Radian Vision Systems

Radian Vision Systems works with world-class brands and manufacturers to deliver creative visual inspection solutions that improve quality, reduce costs, and increase customer satisfaction. Radian'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. Radian Vision Systems product lines include TrueTest™ automated visual inspection software for quality control, and ProMetric® imaging colorimeters, photometers, and light source measurement systems. Radian is headquartered in Redmond, Washington, USA, with strategic offices in California, Michigan, China, and South Korea. Radian 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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