

For Immediate Release

Radiant Hosts Webinar with IEEE GlobalSpec Presenting Optical Metrology Systems for Head-Up Display Measurement

REDMOND, Wash. – April 29, 2020— Radiant Vision Systems, a leading provider of test and measurement solutions for lighting and displays, announces that it will host a webinar with [IEEE GlobalSpec \(Engineering 360\)](#)



presenting the latest trends in automotive head-up display (HUD) technology, from conventional to augmented reality (AR) HUD. The webinar focuses on optical measurement challenges and system benefits that ensure virtual image quality across all HUD systems and image types. “[Measuring the Visual Quality of Head-Up Displays from Conventional to AR HUD](#)” will be broadcast Tuesday May 12, from 11:00 A.M. to 12:00 P.M. Eastern Daylight Time (EDT) (8:00 A.M. to 9:00 A.M. Pacific Daylight Time (PDT)). The broadcast includes a technical presentation and demonstration of measurement software, followed by a live audience question and answer session with Radiant Automotive Business Leader, Matt Scholz.

Projecting safety, navigation, and other time-sensitive information directly within the driver’s field of view offers advantages that have made HUDs the application segment with the highest expected growth rate in the automotive market. Introduced as a standard feature in an increasing number of vehicles, HUD technology is evolving rapidly. Already, consumer expectations regarding projection and holographic displays have set a high bar for HUD design and quality. With the advent of new HUD systems, equipment used to ensure optical quality (the accuracy and visibility of virtual images projected on the windshield) is likewise facing new demands. HUD measurement must adapt with the incorporation of 3D and AR-HUD systems, which project new types of virtual images, across larger fields of view, and at a range of depths. Responding to these demands, manufacturers are challenged to find measurement systems that can address the rapid evolution of HUD technology.

Radiant Vision Systems is a leading provider of HUD measurement solutions for the automotive industry, offering image-based photometric and colorimetric measurement systems combined with test software that greatly simplify visual inspection of HUD projections. Radiant’s dedicated Automotive Solutions Team works with major automotive brands, OEMs, and Tier I suppliers worldwide to meet specific measurement criteria for products that incorporate a range of technologies including TFT, DLP, and laser-based systems. Having contributed to international HUD measurement standards ([SAE J1757-2 “Optical System HUD for Automotive”](#)), Radiant provides all of the necessary components for a complete HUD

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measurement system. Radiant [ProMetric® imaging colorimeters and photometers](#) feature electronic lens control (software-adjustable focus and aperture) which is highly effective for identifying and focusing on images projected at variable distances into infinity. This capability enables Radiant’s analysis software to provide accurate luminance and chromaticity measurements at any working distance—from conventional HUD projections at two to five meters, to AR-HUD projections at as far as 20 meters. A range of analyses can be performed by a Radiant HUD measurement system, including evaluation of virtual image brightness, color, contrast, uniformity, sharpness or clarity (MTF), and positional accuracy, including characterization of undesirable visual qualities like ghosting, distortion, and warping.

During the upcoming webinar organized by [IEEE GlobalSpec \(Engineering 360\)](#), Radiant Automotive Business Leader, Matt Scholz, will provide an overview of HUD systems, with a focus on measurement challenges posed by new technology like AR-HUD and 3D virtual images that go beyond conventional fixed-depth projections. The webinar will introduce benefits and specifications of optical metrology systems and demonstrate HUD visual quality testing using Radiant's [TT-HUD™](#) head-up display test software module.

For more information about this webinar or to register for the live broadcast on May 12, visit <https://www.globalspec.com/events/eventdetails?eventId=2808>.

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, 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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