

For Immediate Release

Radiant Presents a Technical Talk on Considerations for Measuring the Visual Performance of Augmented Reality Displays at the SPIE AR, VR, MR Conference

REDMOND, Wash. – January 20, 2020 — Radiant Vision Systems, a leading provider of photometric imaging solutions for light and display measurement, announces that it will present at the 2020 [SPIE AR, VR, MR Conference](#), taking place February 2-4, 2020, at Moscone West in San Francisco, California—one of several events surrounding [SPIE Photonics West](#). Eric Eisenberg, Optics Development Manager at Radiant, will present his paper titled “Measuring and qualifying optical performance of AR/VR/MR device displays and addressing the unique visual requirements of transparent AR displays” during the first day of the conference. The presentation is part of the conference Technical Talks and takes place during *Session 2C: AR/VR Display Optics Measurements and Analysis* on the first day of the conference, Sunday, February 2, from 10:40 A.M. to 11:40 A.M in Room 2011 (Level 2 West).



Ensuring the quality of [augmented \(AR\) and virtual reality \(VR\)](#) headset displays requires precise measurement within the context of the human visual experience. Because these displays are viewed so close to the eye, even minor defects and irregularities can be noticed by the wearer, potentially interfering with functionality and user experience. The goal of an effective measurement system is to replicate human vision so as to characterize these defects and irregularities as they are visualized through the optical geometry of AR/VR headsets or glasses. In AR displays, considerations must be made for the viewing conditions that are constrained by unique fields of view (FOV), eyebox sizes, and visual performance of the transparent display’s virtual projection onto a real-world scene. These systems must meet performance thresholds for display brightness, contrast, and image sharpness in order to be distinguished when overlaid with a changing background and variable lighting conditions.

As part of the SPIE AR, VR, MR Conference [Technical Talks](#), Radiant’s presentation will provide a brief overview of near-eye display metrology with a focus on the specific requirements of testing AR and MR displays, given their narrow FOV and transparent display substrates. The presentation will cover optical configurations and performance parameters, how to address AR measurement challenges, and recent research into testing new types AR optical architectures to match the human visual experience.

Presenting the Technical Talk on behalf of Radiant Vision Systems is Eric Eisenberg, Optics Development Manager on Radiant’s Engineering team. Eisenberg has spent years developing solutions to help display manufacturers and their upstream suppliers ensure quality and improve efficiencies in both design and production. With extensive hands-on experience incorporating imaging technology into diverse applications worldwide, he has a deep understanding of the technical considerations required for successful implementation. Prior to

joining Radiant, Eisenberg held Optical Engineering roles at Lockheed Martin and Terabeam. He is the inventor of multiple patents and has a BS in Laser and Optical Engineering from the Oregon Institute of Technology.

For more information or to register for the SPIE AR, VR, MR Conference, visit spie.org/conferences-and-exhibitions/ar-vr-mr. Learn more about Radiant Vision Systems at www.RadiantVisionSystems.com.

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.

Press Contact:

Shaina Warner
Creative Marketing Specialist
Radiant Vision Systems
+1 (425) 844-0152 x587
Shaina.Warner@RadiantVS.com

###

