

**For Immediate Release**

**Radiant Webinar Presents Optimal Imaging Sensor Characteristics for Pixel-Level Display Measurement Systems**

**REDMOND, Wash. – August 30, 2019** — Radiant Vision Systems, a leading provider of test and measurement solutions for lighting and displays, announces that it will host a webinar to discuss trends and measurement challenges of high-resolution displays, from OLED and LED displays to the latest microLED panels. The webinar will present the importance of measuring emissive displays to detect common variations at each pixel, and the effect of the measurement system’s imaging sensor on capturing the most accurate and repeatable data from pixel to pixel. The webinar, titled “[CCD or CMOS? How Imaging Sensor Properties Affect Pixel-Level Measurement of Displays](#),” will be broadcast live on Tuesday, September 10, 2019, from 10:00 to 10:30 A.M. Pacific Daylight Time (PDT) (1:00 to 1:30 P.M. Eastern Daylight Time (EDT)). The broadcast includes a technical presentation by Radiant Product Manager, Shannon Roberts, followed by a live audience question and answer session.



Imaging systems are highly efficient visual inspection solutions for display measurement and qualification. Images enable contextual analysis of a display to identify defects by comparing visual deviations in luminance, color, and other characteristics across the full display area. The process of converting light to digital input to create an image, however, is not precisely one-to-one—inconsistencies in electronic signals occur as values of light are translated into electronic data. Imaging sensor types (CCD and CMOS) accomplish this conversion process in different ways, each with distinct benefits and limitations. Inevitable inconsistencies may be more or less apparent depending on the sensor’s properties—hindering or improving imaging system performance. Understanding the effect of imaging system specifications and sensor properties is critical for choosing a system that optimizes the accuracy and repeatability of measurement data. This becomes even more important when evaluating the extremely limited data-sampling area of a single display pixel—a significant quality indicator for today’s high-resolution, emissive displays, such as OLEDs and microLEDs ( $\mu$ LED).

With over 25 years manufacturing imaging systems for display metrology, Radiant’s engineering efforts have continued to evolve with market trends to address the smaller size of display pixels, increasingly dynamic integrations, and the need to ensure data accuracy within more precise light-emitting elements. Radiant’s [ProMetric® Imaging Photometers and Colorimeters](#) are designed to achieve high resolution while maintaining signal-to-noise advantages necessary for repeatable measurement data across thousands to millions of display pixels. Radiant works directly with image sensor vendors to evaluate imaging performance for each system and accepts only scientific-grade components that achieve resolution benefits without sacrificing image quality and measurement capability. Within a

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single measurement image, a ProMetric imaging system can capture highly accurate luminance data at each pixel in the display, enabling comprehensive and efficient visual inspection (under 1.5 seconds per measurement) in both lab and production applications.

At Radiant’s upcoming webinar, Product Manager Shannon Roberts will present the impact of imaging system specifications on measurement performance in display metrology. The presentation will include measurement examples that compare sensor type (CCD versus CMOS), pixel size, and signal-to-noise ratio (SNR), and the effect of these properties on the accuracy and repeatability of data for pixel-level display measurement.

For information about this webinar and to register for the live broadcast on September 10<sup>th</sup>, visit [www.RadiantVisionSystems.com](http://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](http://www.RadiantVisionSystems.com).

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