

For Immediate Release

Radiant Vision Systems Honored by 2019 Laser Focus World Innovators Awards

REDMOND, Wash. – November 18, 2019 — Radiant Vision Systems, the leading provider of automated visual test and inspection solutions for light sources and displays, announced today that its [NIR \(Near-Infrared\) Intensity Lens](#) has been recognized among the best by the 2019 [Laser Focus World](#) Innovators Awards. An esteemed panel of judges from the optics and photonics community recognized Radiant Vision Systems as a Gold honoree.



“On behalf of the Laser Focus World Innovators Awards, I would like to congratulate Radiant Vision Systems on their Gold-level honoree status,” said *Laser Focus World* Editor in Chief John Lewis. “This competitive program allows Laser Focus World to celebrate and recognize the most innovative products impacting the photonics community this year.”

Radiant was honored with a Gold-level award for its new [NIR Intensity Lens](#) solution, released January 7, 2019. The NIR Intensity Lens is designed to measure NIR-emitting LED and laser sources—for example, vertical-cavity surface-emitting lasers, or VCSELs—used in non-visible 3D sensing applications such as facial and gesture recognition. Radiant’s NIR Intensity Lens is mounted directly to a Radiant [ProMetric® Y16 \(16-megapixel\) Imaging Radiometer](#) and uses Fourier optics to enable single-image analysis of the full angular distribution of an NIR light source to +/- 70 degrees. The system is designed for precise measurement of 940-nanometer wavelength sources—used by the majority of 3D sensing devices in consumer electronics as well as other applications. Paired with a specialized software test suite for NIR source measurement (Radiant’s [TT-NIRI™ software module](#)), the lens solution can be used to measure emission uniformity, total flux, and radiant intensity of sources including fall-off and hot spots of flood sources (used for time of flight (ToF) applications) and accurate angular position of structured light dot patterns containing tens of thousands of emission points.

“Capturing NIR emissions in angular space—especially thousands of emission points required for dot-pattern facial recognition—is extremely challenging for traditional measurement equipment,” said Doug Kreysar, Executive Vice President and Chief Solutions Officer at Radiant Vision Systems. “Traditional systems like goniometers capture comprehensive angular data from light sources, but are large, costly, and may take hours to perform a complete analysis. Combining an imaging radiometer and Fourier optics limits the complexity of NIR measurement by capturing all angular emissions within a single two-dimensional image, in a matter of seconds. The Radiant NIR Intensity Lens system can accomplish angular NIR emission measurement using a compact camera/lens combination in place of large, multi-component

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goniometric systems, giving manufacturers a very space- and cost-effective laboratory measurement solution. The scale and speed of the NIR Intensity Lens system also makes it an optimal solution for production-level qualification, which would be impossible with a lab-based goniometer.”

The 2019 Laser Focus World Innovators Awards Honorees are featured in the November issue of *Laser Focus World* magazine as well as on www.laserfocusworld.com. For more information about the NIR Intensity Lens from Radiant, visit www.RadiantVisionSystems.com.

About Laser Focus World

Published since 1965, *Laser Focus World* has become the most trusted global resource for engineers, researchers, scientists, and technical professionals by providing comprehensive coverage of photonics technologies, applications, and markets. *Laser Focus World* reports on and analyzes the latest developments and significant trends in both the technology and business of photonics worldwide — and offers greater technical depth than any other publication in the field.

Laser Focus World 2019 Innovators Awards program

The Laser Focus World Innovation Awards celebrates the most innovative applications of photonics, optoelectronics, and precision optics products and systems. Awards are presented to organizations that demonstrate excellence in the use of a product, system, or application. Designers, integrators, and users of laser, optics, and photonics systems may nominate their own projects or applications, or integrators or distributors that supplied products or systems can nominate exceptional projects for consideration.

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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