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Radiant Vision Systems Introduces New ProMetric® Y43 Imaging Photometer with 43-Megapixel CCD

REDMOND, Wash. – May 1, 2019 — Radiant Vision Systems, a leading provider of image-based light and color measurement systems, announces a new 43-megapixel CCD imaging system as part of its line of ProMetric® imaging photometers. The ProMetric Y43 Imaging Photometer provides extremely high CCD resolution to enable advanced measurement capability for display and consumer electronics manufacturers. The Y43 complements the Y2, Y16, and Y29 models of Radiant's ProMetric Y series of imaging systems, with superior imaging resolution for measuring high-definition displays at the pixel level, or for imaging electronic components and surfaces in maximum detail using a single camera.

The high spatial resolution of the Y43 allows the camera to detect pixel and subpixel luminance and color variations across display bright states (gray levels), subtle surface anomalies or particles, and other defects that are easily missed by human visual inspection or competitive measurement systems. Defects in images can be identified and quantified using Radiant's TrueTest™ Automated Visual Inspection Software (available with tests for comprehensive display defect detection, mura identification & assessment, or application-specific testing of automotive displays, head-up displays, and augmented or virtual reality displays). TrueTest applies objective analysis and repeatable pass/fail criteria to Y-series images for fully automated quality control.

"OLED, microLED, quantum dot, and other display technologies rely on increasingly small light-emitting elements for greater visual detail and control of display brightness, color, and contrast," states Doug Kreysar, Radiant Executive Vice President and Chief Solutions Officer. "As display pixels and subpixels shrink in size, the demand for higher-resolution measurement systems to test display visual performance at every variable element is greatly increased."

"Engineering teams at Radiant continue to pursue of the next evolution in resolution for our imaging photometers," Kreysar explains. "We dedicate significant time and research to ensure that we are able to achieve high-resolution imaging while maintaining the signal-to-noise advantages that Radiant measurement systems are known for. Working directly with CCD vendors, our engineers seek resolution improvements only if they do not sacrifice image quality and measurement capability. The ProMetric Y43 imaging system is the result of this commitment, providing manufacturers with a metrology solution that maximizes measurement quality at 43 megapixels."

Radiant's ProMetric Y-series imaging systems are engineered with scientific-grade, cooled interline CCD sensors that limit image noise for highly accurate, repeatable imaging. The new

ProMetric Y43 uses a 43-megapixel (8040 x 5360) CCD sensor with low image noise for repeatability inspecting small visual details. Time to measure a complete high-resolution display at several CCD pixels per display pixel is less than 1.5 seconds, enabling production-level applications such as in-line quality control. ProMetric Y imaging systems are available with an internal Tristimulus Y filter for photometric metrology applications (light and color measurement), or as a radiometric imager for radiant intensity measurements (for imaging surfaces and non-lit components, or measuring near-infrared light).

All Radiant ProMetric imaging systems are designed to simulate human perception of brightness and color. Y-series camera systems combine the benefits of automation—speed, repeatability, and objective data—with the sensitivity of human vision to ensure that quality assessment of light and display products accurately reflects the human user's experience. Each Y-series model is available with a variety of interchangeable lenses calibrated at each F-stop, enabling optimized measurements over a wide range of working distances and viewing angles. ProMetric Y supports high-speed USB and Ethernet communications, with reliable operation over long distances. Smart Technology™ features, including electronic focus and aperture control, simplify setup via software, reduce measurement time, and improve accuracy. A ProMetric Y imaging photometer combined with Radiant TrueTest Software provides a complete, turnkey solution for testing a variety of displays, keyboards, illuminated components, cover glass, and device surfaces.

For more information about Radiant Vision Systems and the new ProMetric Y43 Imaging Photometer, visit 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

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