RADIANT
VISION SYSTEMS

**For Immediate Release**

## Next-Generation Conoscope Lens Measures Flat Panel Displays at View Angles up to ±70 Degrees

**REDMOND, Wash. – April 9, 2018** — Radiant Vision Systems, a leading provider of visual test and inspection systems for lighting, display devices, and assemblies, announces the release of its newest conoscope lens. Designed to work with Radiant ProMetric® imaging photometers and colorimeters, the FPD conoscope lens can measure angular emissions of color, luminance, and contrast in flat panel displays (FPDs) to evaluate view angle performance up to ±70 degrees in a single measurement.

By capturing luminance data from multiple viewing angles at once, the conoscope solution allows manufacturers to quickly and accurately evaluate display view angle performance in real-time, in both R&D and production line environments. “As display screens become a more important part of everyday life—from consumer electronics to smart home appliances to automobiles—product function and safety is more dependent than ever on the quality of the display,” says Shannon Roberts, Product Manager at Radiant.

“Any time the user is not perpendicular to the screen, view angle is a factor in performance. For example, a dashboard GPS navigation system must be clearly visible to the driver of the car sitting at a slight diagonal orientation with respect to the display. Smart phone and smart watch users expect to be able to view their devices from multiple angles, whether they are stationary or in motion. To meet these expectations, view angle performance measurement is critical for manufacturers to ensure overall display quality and usability. To keep up with market demand, a simple and efficient measurement method is desired,” says Roberts.

The Radiant FPD conoscope lens mounts directly to a Radiant ProMetric Y Imaging Photometer or ProMetric I Imaging Colorimeter using a custom bracket (suggested for use with 16MP models). Together, the camera and lens provide an efficient view angle performance measurement solution for a wide range of display types, including those based on LCD, OLED, and backlight technologies. The solution is useful for both R&D and production, capturing identical measurements of view angle data for seamless evaluation of displays throughout an entire product lifecycle, from initial characterization to manufacturing quality control. The FPD conoscope lens offers:

- Reduced hardware size, cost, and complexity compared to typical goniometric measurement systems for angular emission characterization in R&D.
- Speed and a compact form factor suited for in-line inspection of displays during production. Users can apply real-time pass/fail operations based on display view angle performance data to eliminate poor-quality components from the line and identify production trends before significant materials loss.

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Learn more about the FPD conoscope lens and other photometric imaging systems for measuring displays, lighting, and other components 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 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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