

Press Release: Introducing Progressive CA-410 Probes

Measuring Ø2.1mm, Ø4mm and Viewing Angle Characteristics of Displays at SID Vehicle Display 2022

September 1, 2022 (Ramsey, NJ) - Konica Minolta Sensing Americas, Inc. (Konica Minolta) highlights its progressive technology at Vehicle Display 2022 booth #602 with its display measurement product line. The introduction of Konica Minolta's latest probes used in measuring Ø2.1mm (model CA-VP402), Ø4mm (model CA-VP404) and viewing angle characteristics (CA-VP410T) of displays. These progressive instruments for AR/VR microdisplays and curved OLED displays for Lxvy/u'v', FMA, JEITA, VESA and flicker use the new CA-410 probes to measure Ø2.1mm, Ø4mm and viewing angle characteristics.

The CA-VP402 (small spot probe Ø2.1mm) has a measuring area diameter of Ø2.1mm. The dedicated optical system and operation algorithm provides both guaranteed accuracy at low luminance and small measurement area. Suitable for applications requiring small-area measurements ranging from low luminance measurements, such as for gamma adjustment of micro OLED, to that of high-speed, high-accuracy measurements. The CA-VP404 (small spot probe Ø4mm) has a measuring area diameter of Ø4mm. The guaranteed accuracy from 0.004 cd/m² enables high-speed, high-accuracy measurements of small areas such as smartwatch OLEDs, smartphones, and small APL (average pixel level) windows.

Also available in the collection is the high sensitivity probe (Ø27mm, Ø10mm) which is primarily used for OLED displays and offers superb chromaticity repeatability on lower level luminance displays. The Ø10mm long-working distance probe (model CA-VP410T) has a measurement distance of 200mm to the sample and is extremely valuable in viewing angle measurements. Its ability to take multi-angle measurements of in-vehicle displays or smartphone OLEDs is due to its ability to measure displays regardless of its directionality. In addition, the long working distance probe allows it to be used in applications when distance from the item being measured is important. This valuable feature is often used in production measurement systems when the need to avoid collisions with the item being measured is imperative.

These probes are compatible with Konica Minolta's [Display Color Analyzer CA-410 instrument](#). The CA-410 is used for high-speed measurement of precise luminance, chromaticity and flicker of HDR displays, including curved OLED screens. Users can accurately measure and adjust the chromaticity and white balance of displays that have a wide color gamut. It can also easily integrate into an existing automatic measurement system and capture flicker measurement with the wider frequency measurement range that covers all types of displays.



Konica Minolta Sensing Americas prides itself in offering exceptionally advanced optical technology that precisely measures color and light. Its light and display measurement instruments provide reliable results in research, quality control, and display performance industries. Its instruments are used in labs to measure luminance, illuminance, chromaticity, color temperature and flicker of light sources for quality control, government testing, photography and cinematography worldwide.

Also on display at SID Konica Minolta's booth will be promoting our sister company, [Instrument Systems' LumiCam 4000B](#). This instrument is the latest 2D color measurement systems that also satisfy the requirements of display specification for automotive applications in terms of spectroradiometric precision.

On *Wednesday, September 28th* we invite you to attend two symposium lectures in Session 5 "Display Metrology" by Instrument Systems:
11:40am – 12pm (EDT) **"Fast 2D Display Testing with Spectrally Corrected Colorimeters"**
12pm – 12:20pm (EDT) **"VCSEL Characterization: LiDAR and Eye Safety Testing"**

About Konica Minolta Sensing

Konica Minolta Sensing Americas Inc. (KMSA), a wholly owned subsidiary of Konica Minolta, Inc., Sensing Business Unit is recognized as the international leader of industrial color and light measurement. The company is responsible for product lines that continuously revolutionize how visual perception is measured by the world. Konica Minolta Sensing Americas Inc. is 'The Standard in Measuring Color, Light, and Display'. Konica Minolta provides advanced optical technology that precisely measures the elements of color and light. Our products are a staple in research and manufacturing environments, helping organizations to meet product quality and operational goals with less waste, time, and effort. This commitment to creating value for customers is the core principle behind the Konica Minolta brand. It's also the driving force behind the high level of quality and precision built into each of our products and why we're the technological leader in color and light measurement solutions today.

KMSA's corporate headquarters in Ramsey, New Jersey is fully equipped with a state of the art service center, technical support center, and a focused sales force dedicated to both the North American and South American regions.

To learn more, please contact: Peter J. Roos, Marketing Manager

Phone: (201) 236-4300 **or Toll Free:** (888)473-2625

Email: marketing.sus@konicaminolta.com **or Visit Us Online:** <https://sensing.konicaminolta.us>