

Press Release

Introducing Progressive CA-410 Probes for Measuring \varnothing 2.1mm, \varnothing 4mm Small Spot Areas and Viewing Angle Characteristics of Displays at Virtual Display Week Expo

August 2020 - Konica Minolta Sensing Americas, Inc. highlights its progressive technology within its display measurement product line at the Virtual Display Week 2020 Expo scheduled for August 3rd through August 7th, 2020. The presentation of Konica Minolta's latest probes used in measuring \varnothing 2.1mm (model CA-VP402), \varnothing 4mm (model CA-VP404) and viewing angle characteristics (CA-VP410T) of displays is the **first of its kind available to the display industry** will be available for review. These progressive instruments for AR/VR head-mounted displays and curved OLED displays for luminance, chromaticity and flicker (in JEITA, VESA and FMA) use the new CA-410 probes to measure \varnothing 2.1mm, \varnothing 4mm and viewing angle characteristics.

The Small Spot Probe, CA-VP402 has a measuring area diameter of \varnothing 2.1mm. 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. An additional Small Spot Probe, CA-VP404 has a measuring area diameter of \varnothing 4mm. 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 (\varnothing 27mm, \varnothing 10mm) which is primarily used for OLED displays and offers superb chromaticity repeatability, particularly on lower level luminance displays. The \varnothing 10mm Long-Working Distance Probe (CA-VP410T) has a measurement distance of 200mm to the sample and is extremely valuable in viewing angle measurements with the same ability as other CA-410 Probes in measuring luminance, chromaticity, and flicker. 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.

Konica Minolta's Display Color Analyzer CA-410 series is used for high-speed measurement of precise luminance, chromaticity and flicker of any types of HDR displays. CA-410's highly-accurate sensor technology allows users to be able to accurately measure and adjust the chromaticity and white balance of displays that have a recent wide color gamut. It can also easily integrate into an existing automatic measurement system using a complimentary SDK (Software Development Kit) and capture flicker measurement with high sampling rate and 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.



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. 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.

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.

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