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# SigmaSense® Demonstrates On-Cell Capacitive Imaging for Automotive Applications

***SID Vehicle Displays Conference demonstrating on-cell LCD or OLED sensor driven by <500mV, an industry first***

**Austin, Texas – Sept 4, 2019 –** SigmaSense LLC, the pioneering performance leader in capacitive imaging technology, announces the industry's first on-cell interactive display that provides unmatched signal-to noise-performance sensitivity while driven by only one half volt of channel drive voltage. SigmaSense's capacitive imaging technology provides both touch and object imaging even when liquids or other contaminants are present on the display surface. SigmaSense's technology overcomes performance and functionality barriers as when touch point resistance exceeds 1M ohm in resistance, another industry first. This allows for a wide variety of sensor materials and sensor designs to be used to meet application, cost and mechanical objectives.

**Perceptive displays are bringing the next significant advance in user experiences**

Sensing touch on interactive infotainment displays has been an industry challenge as screen sizes can grow to the width of the entire dash – over 50 inches. Now, SigmaSense's capacitive imaging technology frees designers from traditional constraints on sensor size, sensor material and design parameters. New sensor materials, such as poly based flexible sensors, are now possible even for irregularly shaped sensors. Designers are now able to provide optimized touch sensor solutions with improved optics and accuracy but without challenging design constraints or lengthy and costly tuning cycles. SigmaSense's capacitive imaging technology also provides an accurate, low latency image of the entire display surface. This breakthrough capability is a boon to OEMs who desire to use curved or flexible displays for enhanced user experiences. Flexible sensors enable capacitive imaging on seats, steering wheels, windows, plastic interior surfaces and touch enabled button control functions. Capacitive Imaging can sense touch on other objects or surfaces that could not previously be sensed. A capacitive imaging based system provides the data for AI categorization enabling the next generation of perceptive user experience.

"Designers now have the freedom to use any type of touch sensor material, as well as any size and configuration sensor to provide optimal designs. Seats, plastic surfaces and contoured control surfaces can now include sensors and be touch enabled," said Steve Sedaker, CMO, SigmaSense. "Capacitive touch innovations have stalled over the last decade with very limited incremental improvements. Our capacitive imaging technology can drive over 1M ohm

channel touch point resistance, a breakthrough that tears down barriers and enables new use cases that were simply not possible before."

Capacitive imaging will be exhibited at the Vehicle Display 2019 conference in Livonia Michigan, September 24-25th, table 29. Please join us and see firsthand these breakthroughs in action.

**About SigmaSense® LLC**

SigmaSense, the global leader in touch sensing performance, is changing the world of traditional analog sensing solutions with a new advanced digital approach. We are pioneering a comprehensive sensing technology that delivers an order of magnitude improved performance that was previously not possible. SigmaVision™ capacitive imaging technology provides both touch and object detection on or in proximity to the sensing surface, thus enabling a new generation of perceptive devices that are interactive and engaging. Products that utilize sensing surfaces ranging in size from small wearables to surfaces larger than 100 inches can now adopt a superior sensing experience that reduces costs and lowers design risk. Headquartered in Austin, TX, SigmaSense provides semiconductor and board level products with development tools and support.

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