

ams OSRAM and trinamiX jointly release demonstration of ultra-secure face authentication behind OLED

- Joint demonstration of full solution for smartphone integration, also behind OLED
- Solution includes low-profile combined dot/flood illuminator from ams OSRAM and trinamiX algorithm
- Certified for use in mobile payments according to IIFAA, Android™ and FIDO standards
- ams OSRAM illuminator features custom dot/flood illumination that allows for maximum speed and performance also when operating behind OLED screen

Ludwigshafen, Germany (June 27, 2022) -- [ams OSRAM \(SIX: AMS\)](#), a global leader in optical solutions, and [trinamiX GmbH](#), a wholly owned subsidiary of BASF SE and pioneer of new biometric technologies, today announced the development of a demonstration system that shows face authentication from behind an OLED screen with the ultra-high security performance required for mobile payments. The demonstrator will first be showcased at Sensors Converge 2022 from June 27-29 in San Jose, USA.

ams OSRAM and trinamiX are working together to provide smartphone manufacturers with a highly secure and convenient user authentication system that will be available later this year. The core of the full solution are trinamiX's certified face authentication software and a dedicated projector by ams OSRAM. Based on this innovative combination, the solution is able to perform behind smartphone displays while enabling for a small technical footprint and a cost-efficient integration.

A pioneering solution for secure and convenient user authentication

More recently, trinamiX Face Authentication has proven to reliably reject advanced fraud attacks by means of a novel liveness check based on skin detection. The solution was certified in compliance with the world's leading mobile payment standards of Android™ Biometric Class 3, the IIFAA Biometric Face Security Test Requirement and FIDO Alliance.

Matthias Gloor, Senior Product Manager of ams OSRAM, said: 'trinamiX's solution has been tested exhaustively against spoofing attempts. Even when attackers used ultra-realistic masks, the spoofing was detected and access reliably rejected. We present mobile phone manufacturers with a solution that fulfills top security requirements for mobile payments while being easy to integrate into their devices.'

The companies' first demonstration system leverages ams OSRAM's dot-flood infrared projector and trinamiX's unique hardware/software setup – both allowing for a highly secure and convenient performance, also when integrated behind OLED displays. 'ams OSRAM's optimized projector is the perfect match for our solution,' said Stefan Metz, Head of Smartphone Business Asia at trinamiX. 'The combination of our unique hardware and algorithms rapidly produce reliable face authentication results to create an extremely smooth experience for smartphone users. We are happy to finally present this next-generation solution to customers.'

The demonstration system will premier at Sensors Converge 2022, taking place on June 27-29 in San Jose, USA. Customer presentations as well as appointments during the fair can be requested at info@trinamiX.de.



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About ams OSRAM

The ams OSRAM Group (SIX: AMS) is a global leader in optical solutions. By adding intelligence to light and passion to innovation, we enrich people's lives. This is what we mean by Sensing is Life.

With over 110 years of combined history, our core is defined by imagination, deep engineering expertise and the ability to provide global industrial capacity in sensor and light technologies. We create exciting innovations that enable our customers in the consumer, automotive, healthcare and industrial sectors maintain their competitive edge and drive innovation that meaningfully improves the quality of life in terms of health, safety and convenience, while reducing impact on the environment.

Our around 24,000 employees worldwide focus on innovation across sensing, illumination and visualization to make journeys safer, medical diagnosis more accurate and daily moments in communication a richer experience. Our work creates technology for breakthrough applications, which is reflected in over 15,000 patents granted and applied. Headquartered in Premstaetten/Graz (Austria) with a co-headquarters in Munich (Germany), the group achieved over EUR 5 billion revenues in 2021 and is listed as ams-OSRAM AG on the SIX Swiss Exchange (ISIN: AT0000A18XM4).

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About trinamiX GmbH

trinamiX GmbH develops cutting-edge biometric and mobile NIR spectroscopy solutions, which are used in both consumer electronics and industrial designs. The company's products enable humans and machines to better capture data with the goal of understanding the world around us. This results in improved decision making as well as stronger biometric security. trinamiX, based in Ludwigshafen (Germany), was founded in 2015 as a wholly owned subsidiary of BASF SE. The company employs over 200 people worldwide and holds more than 300 patents and patent applications.

For further information visit www.trinamiXsensing.com