trinamiX

A brand of
BASF – We create chemistry

News Release

Innovative Non-invasive Blood Alcohol Measurement by trinamiX and AUMOVIO unveiled at CES 2026

- Non-invasive procedure at the touch of a button
- Experience convenient and reliable blood alcohol measurement in seconds.
- Compact design for seamless integration in any vehicle cabin
- trinamiX and AUMOVIO collaborate to bring next-level security features to automotive.
- Live demonstrations at CES 2026 trinamiX booth **#4565 at LVCC, West Hall**

Ludwigshafen, Germany, December 01, 2025 – At CES 2026, **trinamiX GmbH** and **AUMOVIO** will demonstrate a groundbreaking, non-invasive blood alcohol measurement solution for private and commercial vehicles. Designed to enhance road safety and address growing regulatory demand for innovative driver-monitoring systems, this state-of-the-art technology enables precise, real-time measurement of blood alcohol concentration by touching a sensor with the fingertip. Live demonstrations will take place at **trinamiX booth #4565 at LVCC West Hall**.

This cutting-edge approach utilizes invisible near-infrared light that interacts with ethanol molecules present in the tissue under the skin. By analyzing the unique reflection of this light, the system's advanced algorithms based on AI can derive the alcohol content in a person's blood. The functionality and performance of this technology have been scientifically validated through a clinical study.

trinamiX provides the expertise in spectroscopy and optical sensing, and AUMOVIO the comprehensive know-how in vehicle system design and integration. The system can be configured to meet different market requirements and legal threshold levels.

Key benefits of the miniaturized NIR spectroscopy sensor include:

- Non-Invasive Convenience: Touch-based, no need for users to blow into a device
- Real-Time Readings: Results delivered in seconds to ensure operational efficiency
- Seamless Integration in Vehicles: Compact and adaptable for various vehicle positions to encourage user acceptance
- Excellent Automotive System Design and Integration through partnership with AUMOVIO

"Our NIR spectroscopy technology offers a reliable, user-friendly way to measure blood alcohol levels, redefining driver safety standards. By providing OEMs with a vital tool to meet emerging safety regulations, we're empowering a safer and more convenient future for all road users", said Wilfried Hermes, Director Consumer Electronics & Automotive EU & NA, trinamiX GmbH.

"The integration of trinamiX's NIR spectroscopy, for example into vehicle displays, enables innovative safety and health features directly in the car. With this we create new standards for comfort and safety and demonstrate how such technologies can be seamlessly integrated into existing systems," said Ulrich Lüders, Director Strategy & Portfolio, User Experience business unit at AUMOVIO.

Business partners and journalists may register in advance to attend live demonstrations of the non-invasive blood alcohol measurement at the trinamiX booth **#4565 at LVCC, West Hall**.

For further information please contact Nicole Messmer-Pohan or Johannes Meder:

Nicole.messmer-pohan@trinamix.de
Phone: +49 172 7470483

Johannes.meder@trinamiX.de
Phone: +49 173 3098372

trinamiX @ CES 2026

06 to 09 January 2026

Booth #4565

LVCC, West Hall

Las Vegas, USA

Media contact

Nicole Messmer-Pohan
E-Mail: nicole.messmer-pohan@trinamix.de
Phone: +49 172 74 70 483

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 800 patents and patent applications.

Learn more at https://www.trinamiXsensing.com
Visit trinamiX on LinkedIn: https://www.linkedin.com/company/trinamixsensing