

News release

trinamiX to Present Molecular Sensing Technology for use in Mobile Devices at Snapdragon Tech Summit Digital 2020

- Introduction of an established industrial method focused on molecular sensing to end consumers
- First use-case to include checking skin condition and making cosmetic recommendations

December 2, 2020 – Ludwigshafen, Germany – trinamiX GmbH (Ludwigshafen, Germany), a leader in 3D and infrared sensing solutions and a subsidiary of BASF, the world's largest chemical company, announced its vision to bring Near-Infrared Spectroscopy into smartphones based on Qualcomm® Snapdragon™ mobile platforms at the Snapdragon Tech Summit Digital 2020. trinamiX' sensing technology will empower end consumers to identify the molecular composition of material enabling them to optimize their decision making.

trinamiX intends to build a potent, yet miniaturized infrared sensing module for integration into smartphones. The module sends out infrared light which is reflected from the object and then detected by the sensor. Breakthroughs in research and development enabled trinamiX to reduce the footprint of the technology down to smartphone form factor while ensuring high-volume production capacities.

The Qualcomm® Sensing Hub processes the captured data within the powerful Qualcomm® Artificial Intelligence (AI) Engine allowing the Snapdragon mobile platform to analyze the data based on trinamiX' capable analytical models and extensive know-how about molecules. Further, the 5G capabilities of Snapdragon will allow for constant improvements via the cloud while maintaining the user's personal data on the smartphone. Distributed Intelligence enables a seamless transition of AI processing between cloud and device.

Initial applications of mobile spectroscopy will focus on daily skincare. Future smartphones incorporating the technology will enable consumers to scan their skin on a molecular level and receive near-instantaneous suggestions on optimal skincare products for use on that day.

Dr. Wilfried Hermes, Director IR Sensing at trinamiX, said: "As a global leader in wireless technologies, Qualcomm Technologies has been developing foundational technologies that have helped power the modern mobile experience. Qualcomm Technologies shares our vision and is as excited about our unique technology as we are. We are looking forward to taking the next steps together in bringing the power of NIR spectroscopy to everyone."

Manvinder Singh, Vice President, Product Management, Qualcomm Technologies, Inc., added: “trinamiX’ cutting edge sensing technology will enhance consumers’ everyday lives. We are excited to work with trinamiX to optimize their technology on Snapdragon.”

For more information, press photos and videos, visit www.trinamiXsensing.com/tech-summit.

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About trinamiX

trinamiX GmbH develops and sells cutting-edge 3D vision and infrared sensing solutions for use in both consumer electronics devices 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 150 people worldwide. Further information on www.trinamixsensing.com.

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