

News release

Backgrounder trinamiX GmbH

February 19, 2020 – Ludwigshafen, Germany – trinamiX GmbH is a leading supplier of 3D and IR detection solutions based on patented technology originally developed by BASF SE, the world's leading chemical company. As a unique, wholly-owned subsidiary of BASF, trinamiX is also based in Ludwigshafen and was founded in 2015 as an operationally-independent company with complete access to the resources, expertise and experience of the entire BASF Group. Led by its founder, Dr. Ingmar Bruder, the company now has several offices worldwide and serves customers across multiple market segments.

trinamiX is developing unique sensor systems based on cross-disciplinary BASF research. In 2011, scientists from BASF made an unexpected discovery while characterizing under-development opto-electronic materials. The discovery, at first considered a bug, turned out to be a revolutionary, eye-opening feature that enabled instantaneous depth measurement through a monocular system. As trinamiX has evolved, it has placed great emphasis on not only foundational research into both chemistry and physics, but also into algorithmic design for 3D imaging, cloud-based spectroscopic services and fiber optic-based distance measurement across multiple industries.

trinamiX has developed an entire suite of different sensor technologies with a singular purpose: to enable humans and machines to better understand the world around us for improved decision-making and security. With a team of more than 100 experts across different fields ranging from algorithmic design to chemistry and optics, trinamiX is uniquely qualified to leverage its broad patent portfolio into a host of vertical markets that can best take advantage of the company's unique value proposition. A sampling of trinamiX customers and partners include Qualcomm, Siemens and finally our parent company BASF.

3D imaging

In 3D imaging, trinamiX has developed the patented Beam Profile Analysis technology, which succeeds in turning a standard camera and light projector into a robust and powerful imaging system. As a result, trinamiX has created a unique way to sense the world through a single camera. Beam Profile Analysis adds a new dimension of reliability to both object- and user-recognition by extracting 3 data streams from 1 system: a 2D image, a 3D depth map and a unique material classification capability. The analysis is done with proprietary algorithms that run on a multitude of different platforms, such as the CPU or GPU of a PC or the DSP of an embedded compute unit.

About trinamiX:

trinamiX (www.trinamixsensing.com) is a wholly-owned subsidiary of BASF SE, the world's largest chemical company. Founded in 2015, the company has developed a wide-ranging portfolio of technologies and products around both Infrared detection as well as 3D imaging and distance measurement employing a team of more than 100 experts across a wide-range of scientific disciplines.

A video about trinamiX 3D imaging with material classification may be found at <https://www.youtube.com/watch?v=cUA6j-fh7SE&feature=youtu.be>

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