

TV-Service – Seeing is believing

BASF in motion

tvservice.basf.com

trinamiX – a start-up within BASF group

Founded in 2015, BASF's own start-up is fully dedicated to infrared and 3D sensing technology.

Infrared sensing: Chemical expertise for better microchips

For their infrared sensors names Hertzstück™, the team of trinamiX has developed a patent-pending thin-film encapsulation, which protects the sensor from oxygen and moisture. In addition, this encapsulation enables the miniaturization of the sensor. With such a small detector, miniaturized applications such as near-infrared spectroscopy in smartphones will be possible. Hertzstück™ can also be used for industrial applications such as flame and spark detection, gas analysis, moisture detection of classical spectroscopy.

(01) Clean room

02-06-2019 / 7'05 / ATMO / Footage



Hertzstück™ are manufactured in the in-house production in Ludwigshafen. From the chemical deposition to the encapsulation – trinamiX produces the sensor in the chemical lab and clean room in mass production in different sizes as well application-specific designs.

The Hertzstück™ lead sulfide (PbS) detector is a short wave infrared (SWIR) semiconductor sensor for 1 – 3 μm wavelength. Thanks to its thin-film encapsulation, Hertzstück™ is the first bare chip lead salt photoconductor that can be wire-bonded to printed circuit boards. Using this chip-on-board (COB) technology Hertzstück™ enables devices to be smaller, more flexible and more efficient.

Further information:

BASF SE, Channel Management,
Silke Buschulte-Ding,
Tel. 0049 621 60 48 387,
E-Mail: silke.buschulte-ding@basf.com



(02) Optics laboratory

02-05-2019 / 3'11 / ATMO / Footage

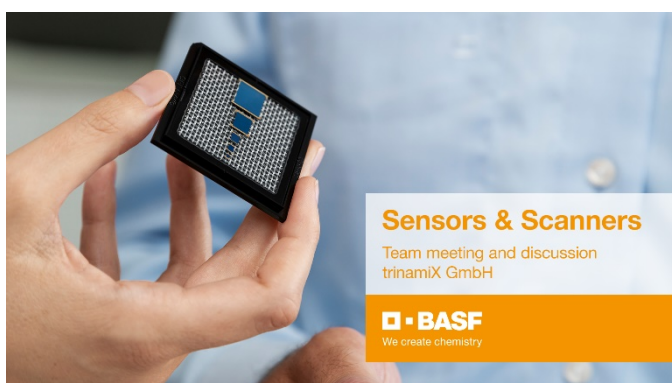


The Ludwigshafen-based start-up trinamiX, a spin-off of BASF, is developing new methods for distance measurement and object recognition. These technologies are used, for example, in industrial automation.

In the optics laboratory two employees test a prototype distance measurement device. They measure objects at different distances to determine its performance.

(03) Sensors, scanners and meeting

02-04-2019 / 7'41 / ATMO / Footage



Founded by a small team of researchers from BASF developing solar cells, today more than 60 employees are working for trinamiX. A creative team of engineers, electronics, computer scientists and chemists.

Their latest development in the area of distance measurement is a sensor that can measure distances precisely in real time using optical fibers. And further innovation is ready to go, too: using an off-the-shelf camera chip and a laser projector will enable robots, for example, to see, navigate and pick better in the future.

Further information:

BASF SE, Channel Management,
Silke Buschulte-Ding,
Tel. 0049 621 60 48 387,
E-Mail: silke.buschulte-ding@basf.com



(04) Dr. Ingmar Bruder

Managing Director, trinamiX GmbH (Available in German only)

02-03-2019 / 4'14 / direct sound / Statement



„Ich beschreibe die trinamiX ganz gern als ein Start-Up mit 150 Jahren Erfahrung und was wir damit sagen wollen ist, dass wir versuchen das Beste aus beiden Welten hier zusammen zu bringen: das Wissen, die Erfahrung und auch die finanzielle Sicherheit eines Konzerns ...“

(05) Dr. Wilfried Hermes

Department Leader IR Sensing, trinamiX GmbH (Available in German only)

02-02-2019 / 4'25 / direct sound / Statement



„Sie als Privatperson können damit in Zukunft, wenn wir etwas visionärer denken, verschiedenste Dinge untersuchen. Lebensmittel: sie gehen in den Supermarkt und checken, ob der Apfel gut ist oder nicht gut ist.“

Further information:

BASF SE, Channel Management,
Silke Buschulte-Ding,
Tel. 0049 621 60 48 387,
E-Mail: silke.buschulte-ding@basf.com



(06) Dr. Stefan Metz

Department Leader 3D Sensing, trinamiX GmbH (Available in German only)

02-01-2019 / 3'37 / direct sound / Statement



„Jeder brennt für trinamiX, jeder brennt für die eigenen Aufgaben, die zu erledigen sind, um die Technologie wirklich weiter zu entwickeln. Das ist so ein bisschen wie das kleine Baby hier eines jeden, um zu sehen, wie sich das weiterentwickelt, wie wirklich etwas daraus wird.“

Further information:

BASF SE, Channel Management,
Silke Buschulte-Ding,
Tel. 0049 621 60 48 387,
E-Mail: silke.buschulte-ding@basf.com

