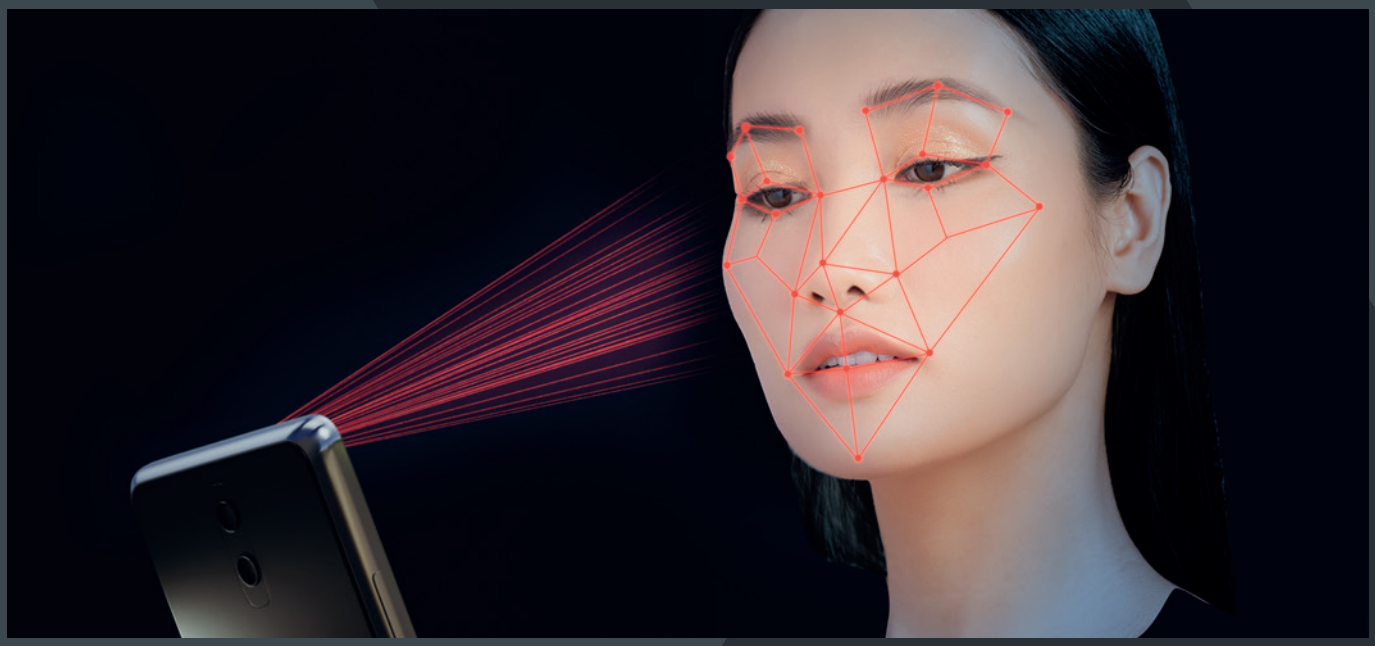
trinamiX

A brand of
BASF – We create chemistry

# Secure face authentication behind OLED

## for unlock and mobile payment



## Powerful combination of design, security and speed

**New freedom in display design**
trinamiX technology allows OEMs to have unmatched new flexibility in your designs, which can now be sleeker and more consumer friendly – no more holes or notches as the technology works behind OLED.

**New level of security for face authentication**
Improved liveness detection through unique skin classification improves security for critical applications and protects user data.

**Excellent user-experience**
Face authentication works in real-time, enabling a seamless user experience for unlocking as well as mobile payment and more.

### Watch how it works

trinamiX solution for secure face authentication

## Performance

trinamiX' Beam Profile Analysis technology enables face authentication for behind OLED integrations. It supports Android 10 and upwards on a Qualcomm secure environment. The hardware consists of a standard CMOS sensor and a near-infrared light projector.

- **Runtime** (per unlock operation)
  < 0.2 s @ Snapdragon 855
- **FAR / FRR & Spoof Acceptance Rate (SAR)**
  FAR: 1/1,000,000 @ FRR: 0.5 % *
  SAR: ≤ 0.1 % **
- **Display**
  Runs on semi-transparent OLED display currently commercially available

## About trinamiX

trinamiX GmbH develops and sells cutting-edge 3D vision and infrared sensing soluti ons for use in both consumer electronics devices and industrial designs. The company's products enable humans and machines to bett er capture data, with the goal of understanding the world around us. This results in improved decision-making as well as stronger security.
trinamiX, based in Ludwigshafen, Germany was founded in 2015 as a wholly owned subsidiary of BASF SE and employs 150 people worldwide. trinamiX has 85 patents granted.

* dataset of 29 tested persons
** spoof objects: video-replay, photo print-outs, 3D printed masks, latex masks

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