

trinamiX

A brand of
BASF – We create chemistry

Fueling the next generation of in-cabin sensing trinamiX Face Authentication for automotive applications



Driver identification powered by trinamiX Face Authentication contributes to a new driving experience by protecting the car against theft and unlocking innovative applications like touchless in-car payment.



Security

Certified protection against biometric fraud



Convenience

Effortless driver authentication



Design

Invisible performance behind display

About

trinamiX Face Authentication is based on our unique method to make biometric authentication even more secure: The detection of human skin. It adds a reliable, passive liveness check to regular 2D/3D recognition. Our solution can benefit a broad variety of particularly sensitive use cases across markets.



Learn more

trinamiX Face Authentication
for automotive applications

Secure face authentication

Our technology combines 2D image,
3D depth and unique skin detection



Software

Operating system	Linux
Platform	NXP i.MX 8M nano
Applications	In-cabin sensing

Hardware

Camera module	NIR CMOS (1 MP Global Shutter)
Laser projector	trinamiX VCSEL-array
Flood illumination	NIR LED (940 nm)
Baseline	25 mm
Dimension sensing head	36 x 9 x 5 mm (length x width x height)

Key Operating Figures

Working range	0.2 – 0.7 m
Operating speed	< 1,000 ms
Effective field of view	46° x 58° (h x v), diagonal = 74°
Outdoor performance	From darkness to 100k LUX bright sunlight
FAR @ FRR	1:50,000 @ < 3 %
SAR	Fulfills requirements for iBeta Level 2 certification (ISO 30107-3 Biometric Presentation Attack Detection Standard)

Our solution can be integrated behind OLED displays.
Further information on request.

Contact

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Technology

The system enhances a regular 2D IR image by laser dot projection and analyzing it through our proprietary algorithms.

- Flood-illuminated 2D IR image
- 3D depth information
- Skin detection

About trinamiX GmbH

trinamiX 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.