

trinamiX

A brand of
BASF – We create chemistry

The next generation of vehicle access

trinamiX Face Authentication for automotive applications



Secure

Certified protection against unauthorized access and theft



Convenient

Frictionless unlocking in real time based on facial biometrics



Seamless

Perfect user experience thanks to sleek integration into driver's door

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	Frictionless vehicle access

Hardware

Camera module	1 MP global shutter (940 nm bandpass)
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	0.20 — 0.65 m
Operating speed	< 800 ms @ NXP i.MX 8M nano
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.