

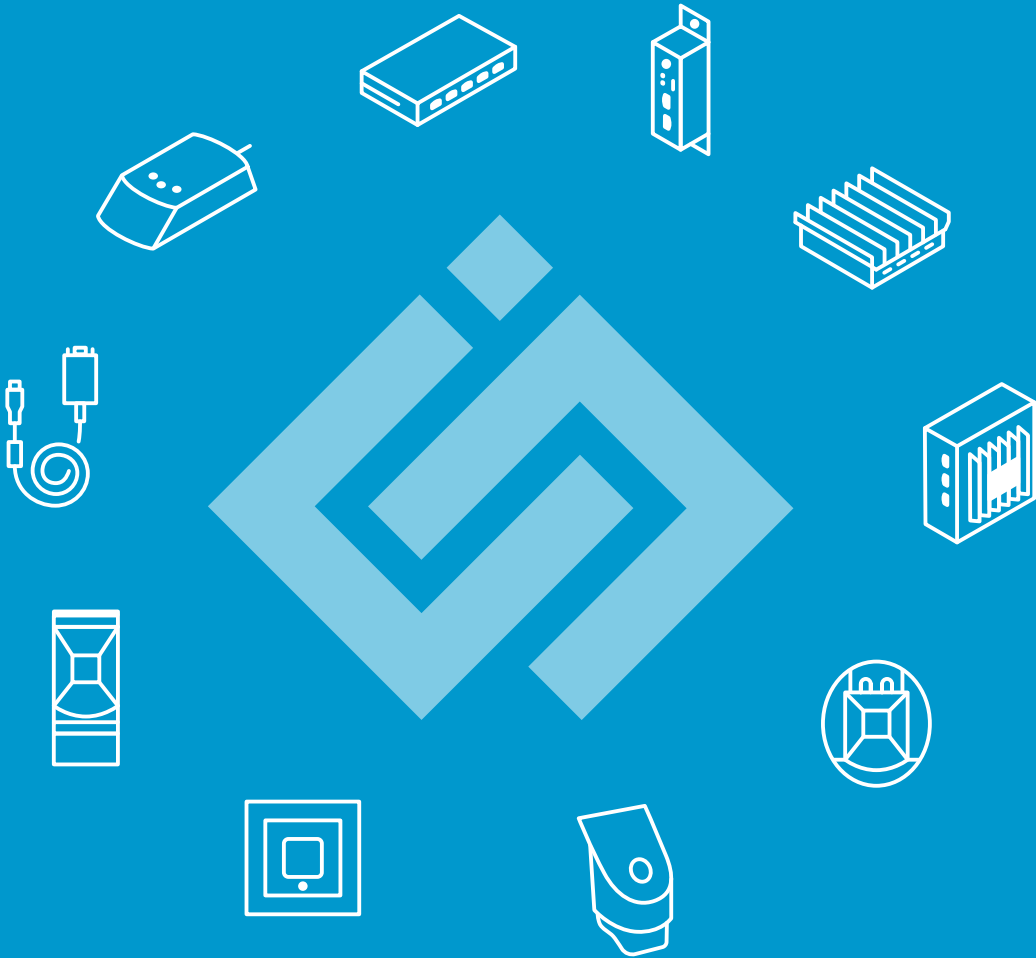


**iCOGNIZE®**

BIOMETRIC  
SECURITY SYSTEMS  
MADE IN GERMANY



ACCESS IT



# About us

## BIOMETRIC ACCESS SOLUTIONS – HIGHLY SECURE AND EASY TO USE

Since 2007, we have been developing and producing biometric palm vein scanners that can be integrated into almost any security system via a wide variety of interfaces.

## INNOVATION THROUGH RESEARCH

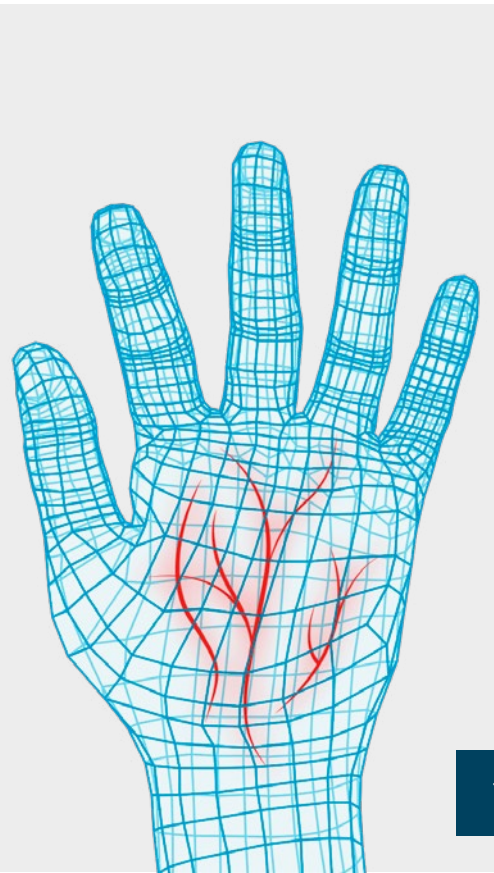
Our company is located in Dietzenbach near Frankfurt am Main. We have an on-site research department and closely cooperate with universities and other research institutes to advance innovation in the field of biometric security technology.

## WHY WE RELY ON PALM VEIN BIOMETRICS:

Fingerprint and facial recognition can be tampered with. However, swapping a palm vein scanner is close to impossible. Palm vein patterns have detailed and immutable characteristics that are unique to each person. This means that individuals can be uniquely authenticated. Since the palm vein scanners can be operated without touch, they meet high hygiene standards: there is no contact with potentially contaminated surfaces. Users are protected and the spread of viruses is prevented.

iCOGNIZE products are developed and built exclusively in Germany.





## THIS IS HOW IT WORKS:

- To operate the scanner, simply hold your hand briefly in front of the sensor. With a contactless palm vein scanner, touch is eliminated.
- The sensor takes a near infrared image of the hand and verifies that the biometric characteristics belong to the person in question.
- The system encrypts communication from the sensor to the database.
- The data is sent to Bio Control and compared with a stored reference value.
- If the characteristics match, the door is opened or the data is forwarded to a higher-level system.

The entire procedure takes about one second.



## WHERE BIOMETRIC PALM VEIN SCANNERS ARE USED:

Palm vein scanners can be used wherever access areas need to be secured and keys, access cards, or codes are insufficient measures. The goal is always to ensure safe, hygienic, and convenient access.

- Our systems can be integrated into (almost) any access or management system.
- The palm vein recognition complies with the EU-GDPR.
- Our palm vein scanners can be integrated at an interior and exterior access point – even with double door systems or turnstiles.
- A combination of keys, pins, and cards is possible, depending on requirements and security levels.

Our palm vein scanner is currently the most secure and reliable system for contactless biometric access control.



# Use Cases

## HIGHEST SECURITY FOR CRITICAL INFRASTRUCTURES

A malfunction or disturbance of critical infrastructures (e.g., power plants, airports, laboratories, data centers) can have a significant impact on public safety. Therefore, certain access points must be designed to be as secure as possible.

## BIOMETRIC SECURITY CONCEPTS FOR SMALL AND MEDIUM-SIZED COMPANIES

Small and medium-sized companies e.g., have server rooms that need to be well secured, because an act of sabotage can cause severe damage and have a huge impact on a company's success.

Palm vein biometrics can be used flexibly – regardless of company size.



Our palm vein scanners are perfect to authenticate authorized individuals and provide access.

## CONVENIENT ACCESS IN COWORKING SPACES, OFFICE BUILDINGS, AND ON PRIVATE PROPERTIES

In private properties, office buildings, or coworking spaces, our palm vein scanners can completely replace the card system. This not only increases security, but any issues due to stolen, misplaced, or forgotten chip cards are a thing of the past.

## SIMPLE BOOKING SYSTEM AND PRACTICAL SMART HOME SOLUTIONS

A variety of additional functions such as charging for drinks, snacks, or parking fees are also possible with biometric palm vein scanners. In smart homes, biometric palm vein scanners can be used for lighting control or combined with other smart home systems.

Palm vein scanners can be operated intuitively and the fast authentication allows them to be used even in high-frequency access points.





## OUR EU-GDPR CONCEPT – QUICK FACTS:

- 🔒 Certified by the Federal Office for Information Security Technology (BSI certificate)
- 🔒 Patent-pending split template procedure compliant with EU-GDPR
- 🔒 Multiple encryptions: Fujitsu software and iCOGNIZE encrypt the biometric comparison data (templates). The templates themselves are stored in an additional AES-256-bit encrypted database.
- 🔒 Communication between the handheld vein sensors and the AU (Authentication Unit) is also AES 256-bit encrypted.
- 🔒 All data is deleted as soon as the respective individuals no longer use the application.

The hand vein data is well protected at all times.





# Customized security concepts

by iCOGNIZE

Whether you need access or authentication at airports, power plants, commercial environments, or private properties, we provide highly secure solutions and support in all aspects of biometric access systems.

**You are not sure whether  
and how to incorporate  
hand vein biometrics?**

**We will gladly discuss your  
needs in detail and help you  
find the right solution.**

**Please feel free to contact us:**

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