



ADVANCED BIOMETRICS · EMEA · PRODUCT BROCHURE 2026

# Palmki 2.0

Your palm is your key.

The smartest, safest and most privacy-friendly access control solution.

Contactless & Hygienic

Fast & Simple

GDPR Art. 9 Compliant

Most Privacy-Friendly

# 3rd Generation Access Control

Palmki 2.0 replaces badges, PIN codes and passwords with something nobody can forget, lose or copy: your palm. Near-infrared technology scans the unique vein patterns beneath your skin in under one second – contactless, hygienic and infallible.

## 1st Keys & Badges

Losable, copyable, shareable

## 2nd PIN Codes & Passwords

Forgettable, phishable

## 3rd Palmki 2.0 – Your Palm

Always with you. Unique. Unforgeable. Contactless.

**<1s**

Recognition

**99.999%**

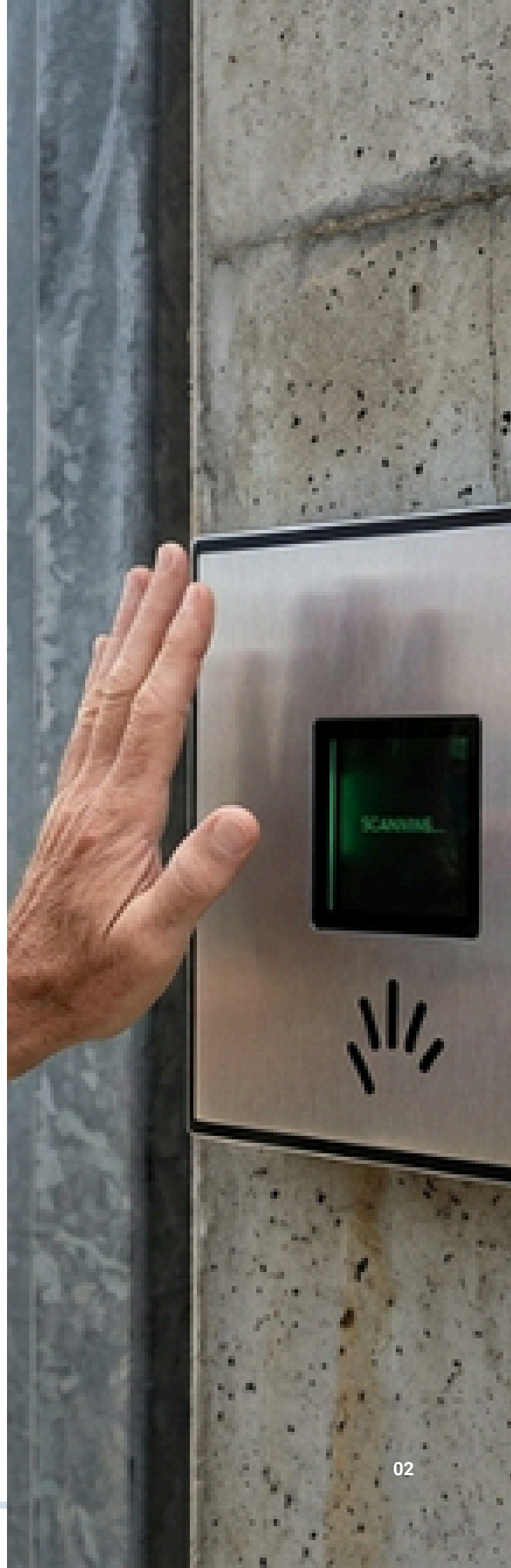
Accuracy

**5M+**

Reference points

**0%**

Contact needed



# How Palmki Works



## 01 Register

Capture your unique palm vein pattern with over 5 million reference points in seconds.

## 02 Encrypt

Data is converted into irreversible encrypted hash-codes for maximum security and stored securely on-device, on-card or on-server.

## 03 Verify

Hold your palm in front of the sensor for instant pattern recognition in under 1 second.

## 04 Access

Advanced algorithms verify your identity and grant secure access. Watch as millions of data points are analysed in under one second.

### Real Human Verification

In a world of robots and AI fraud, it is essential to be certain that a real person is requesting access. Palmki verifies both identity and humanity – irreplaceable for high-security environments.

### Most Privacy-Friendly

Vein patterns are subcutaneous and invisible – they can never be passively captured. Palmki 2.0 is the only biometric method confirmed by Ghent University (2025) as truly privacy-friendly.

# Nine Reasons to Choose Palm Vein Biometrics

01

## No Badges, Cards or PINs

Badges get lost, shared or copied. Palmki 2.0 eliminates this risk: your palm is your only key.

02

## Highest Biometric Accuracy

Palm vein patterns are unique, internal and invisible. They don't change with age – more reliable than fingerprint or face recognition.

03

## Contactless & Hygienic

No touching of shared surfaces. Ideal post-COVID-19 and in HACCP-certified environments.

04

## Fast & Simple

Recognition in under 1 second. No queues, no delays – faster than a badge or PIN code.

05

## Most Privacy-Friendly

Vein patterns lie deep beneath the skin – not visible or copyable without invasive scanning. Legislation requires the most privacy-friendly method.

06

## Real Human Verification

Verifies not just identity but humanity – essential in a world of AI fraud and deepfakes.

07

## Inclusive for All Skin Types

Near-infrared works regardless of skin colour, scars or dirt – fully inclusive for all users.

08

## Compatible with Existing Systems

OSDP v2, Wiegand, REST API – plug-and-play integration with virtually any existing access control system. No replacement needed.

09

## GDPR-Compliant & Legislation-Ready

Palmki 2.0 is designed in accordance with GDPR Article 9. Perfect-ID NV provides full DPIA support, data processing agreements and consent workflows for the EMEA market.

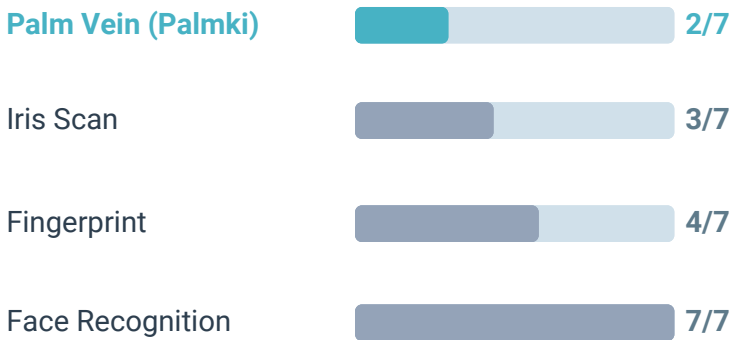
# The Most Privacy-Friendly Biometric Solution

## Legislation requires the most privacy-friendly biometric method

When an organisation deploys biometrics, it is legally obliged to choose the least privacy-invasive method that achieves the goal. Palm vein biometrics is scientifically proven to be the safest choice – and therefore the only legally defensible option.

### Independent Scientific Study – Ghent University, 2025

*"Football safety through biometric access control" – Vermeulen, G., Van Pée, J., & Dormaels, A. Risk factors out of 7 (lower = safer):*



### GDPR Article 9 – By Design

Biometric data falls under special categories of personal data. Palmki 2.0 is designed with privacy by default: templates instead of photos, local storage, explicit consent, right to erasure.

## GDPR Compliance Checklist

- ✓ Explicit consent at enrolment
- ✓ Right to erasure built-in
- ✓ No data shared with third parties
- ✓ DPIA support available
- ✓ Data processing agreement available
- ✓ Purpose limitation per use case
- ✓ Data minimisation: templates, not photos
- ✓ Audit trail & logging built-in
- ✓ Template-on-Card option: zero central database
- ✓ Certified for Belgian maritime ports (ISPS)

### Government Approval – Belgian Ports

Recognised by Minister Paul Van Tigchelt (Deputy PM, Minister of Justice & North Sea) as official supplier of biometric solutions for Belgian ports. Certified under Royal Decree Maritime Security & ISPS.

# From Stand-Alone to Fully Integrated



## ACCESS CONTROL

### Palmki Stand-Alone

The complete Palmki platform for access control – including cloud platform, management interface and sensor. Ideal for organisations without an existing access control system.

Access  
Control

Time  
Registration

Cloud  
Platform

### Integration with Existing Systems

Palmki 2.0 connects seamlessly to your existing access control system via OSDP v2 or Wiegand. No replacement of your current infrastructure – just an upgrade.

OSDP v2

Wiegand

REST API

## ADD-ON OPTIONS

### Time Registration

Automatic attendance registration without badges or separate terminals. Integrates with HR and ERP systems.

### Payments & Loyalty

Pay and earn loyalty points with your palm. No card or smartphone needed. First palm payment in Belgium at Corda Campus (Hasselt).

### Two-Factor Authentication

Combine Palmki with a badge or PIN for extra security in critical zones. Ideal for data centres, pharma and government buildings.

### Template-on-Card (TOC)

The biometric profile is stored on the user's own badge – no central database. Maximum privacy: even Palmki has no access to the data.

Flexibly deployable: Palmki scales from 5 to 50,000+ users and works in cloud, on-premise or hybrid environments.

# Works with Your Existing Systems. No Replacement Needed

Palmki 2.0 connects to your existing access control system, time registration, HR software or payment system. Your investment remains intact – Palmki adds the biometric security layer.

## OSDP v2

Seamless integration with Lenel, Genetec, CCURE.  
Open protocol – vendor-independent.

## Wiegand 26/34/37

Direct replacement of existing badge readers. Plug-and-play, no configuration needed.

## REST API / SDK

Custom integrations via Android SDK or REST API.  
Compatible with Windows 10 & Android 7–14.

## Cloud / On-premise

Fully local, cloud or hybrid. You choose the deployment environment to meet your security requirements.

## POS & Payment

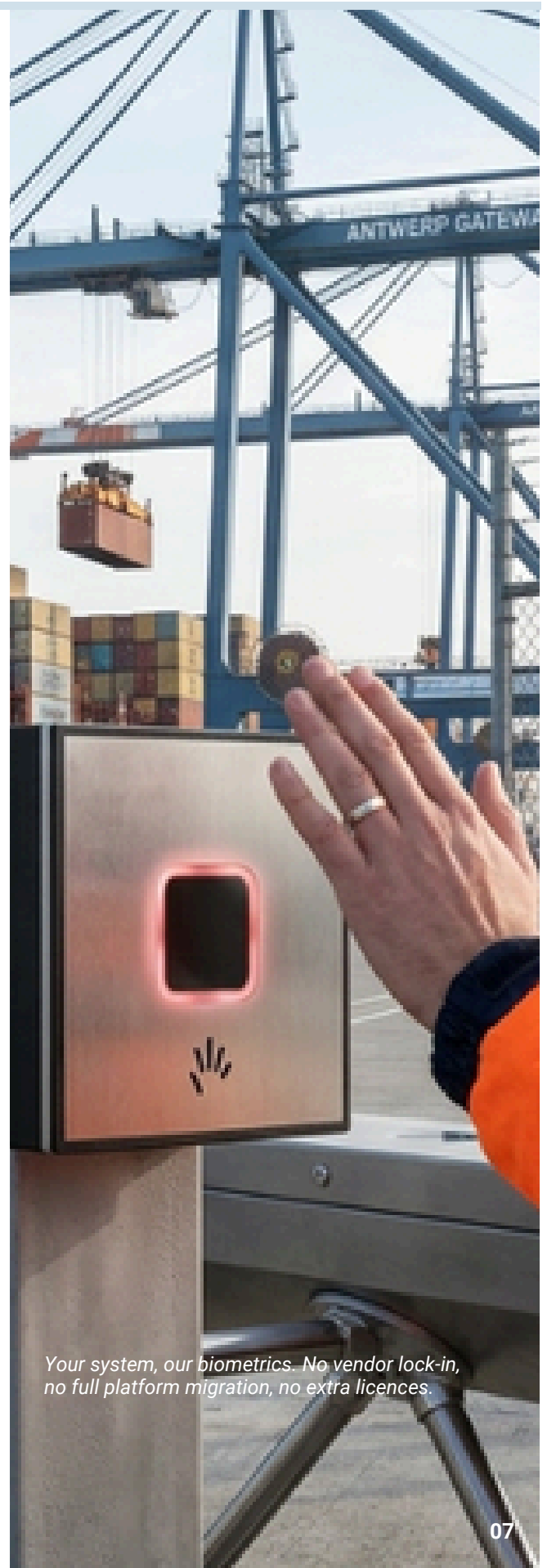
Connection to payment systems and platforms via the Alfa-Zet integration layer.

## ERP / HR Systems

Direct connection for time registration and attendance management – no separate terminals.

## Supported Protocols

OSDP v2 · Wiegand 26/34/37 · TCP/IP · REST API · MQTT · USB  
HID · Android SDK · 4G LTE · 802.11ac WiFi



*Your system, our biometrics. No vendor lock-in,  
no full platform migration, no extra licences.*

# Proven in Practice



MARITIME · HIGH SECURITY

## Ports & Maritime Security

Secured ISPS zoning: only authorised personnel gain access. Compliant with Royal Decree Maritime Security. Officially recognised by the Belgian government.



SPORTS · EVENTS

## Football Stadium – Fastlane Access

Fans enter the stadium in <1 second without scanning a ticket. Tested at KAA Gent. Eliminates ticket fraud entirely.



RETAIL · PAYMENT

## Campus & Canteen Payment

Pay with your palm — no card needed. First palm payment in Belgium at Corda Campus (Hasselt). Leuven Bears fans pay with their palm.



DATA CENTRE · HIGH SECURITY

## LCL Data Centres

2FA with template-on-card for access control. No central database. Meets the strictest data centre standards.

# One Technology, Endless Possibilities



## Office & Data Centre

Access control, time registration and cybersecurity



## Healthcare & Pharma

Hygienic, contactless access for sensitive zones



## Finance & Banking

High-security access and identity verification



## Education & Campus

Payment, access and attendance registration



## Industry & Logistics

Time registration and access at machines & warehouses



## Ports & Maritime

ISPS-compliant access, recognised by Belgian government

Also deployable for: sports clubs (access & lockers) · airports (staff access) · pharmaceutical labs · residential buildings

# The Business Value of Palmki 2.0

## COST SAVINGS

**-100%**

### Badge Costs Eliminated

No more badge creation, management, reprinting or replacement. Average saving: €15–30 per badge per year.

**-80%**

### Fewer Helpdesk Tickets

No forgotten PINs, blocked badges or lost cards. Fewer IT interventions, lower management costs.

**-95%**

### Security Incidents

Palmki eliminates the most common cause of security breaches: shared or stolen badges and codes.



## OPERATIONAL BENEFITS

**+40%**

### Faster Throughput

Access in <1 second versus 3–5 seconds with a badge. With 500 employees per day = 33 minutes saved daily.

**24/7**

### Seamless Time Registration

Check-in and check-out happens automatically at access. No separate time terminals or extra actions needed.

**Auto**

### Automatic Compliance

Full audit trail, GDPR documentation and access reports generated automatically. No manual administration.

## Typical payback period: 12–18 months

Based on eliminated badge and management costs, reduced security incidents and time savings at access. Request a custom ROI analysis at [www.palmki.eu/#contact](http://www.palmki.eu/#contact)

READY FOR THE FUTURE?

## Your palm is your key.

Request a free demo today and see how Palmki 2.0 can transform access control at your organisation.



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# PALM VEIN BIOMETRICS - SECURE ACCESS

