INNOVATRICS

Identity Verification

Contactless Palm Verification

A privacy-centric biometric alternative for seamless, secure verification

Every palm is unique, with patterns of lines and ridges that stay stable throughout life. That makes palms a highly reliable biometric modality, comparable to fingerprints.

We turned this uniqueness into a fast and **reliable way to verify identity** that works with any standard camera, **completely contact-free.** Any regular smartphone or laptop camera with at least 800×600 resolution works.

The result **is secure, seamless, and highly accurate identity verification that gives users control and confidence.** Unlike face recognition, which can feel invasive, a simple palm gesture offers a privacy-friendly alternative.

How it works?

A smartphone or standard IP camera captures an image of a user's palm, while liveness detection running in the background prevents presentation attacks.

Advanced algorithms analyze the image and create a unique biometric template.

This template is then used for secure verification (1:1) or identification (1:N), depending on the use case.

Build trust with your clients

Enhanced privacy

Contactless palm verification does not have to be paired with facial data or ID, making it ideal for privacy-focused applications. This ensures user data stays secure and separate from other identifiers.

Unmatched accuracy

The accuracy of our algorithm surpasses both facial and fingerprint recognition, especially when both palms are used. This makes our technology ideal for applications requiring the highest level of security.

General practicality

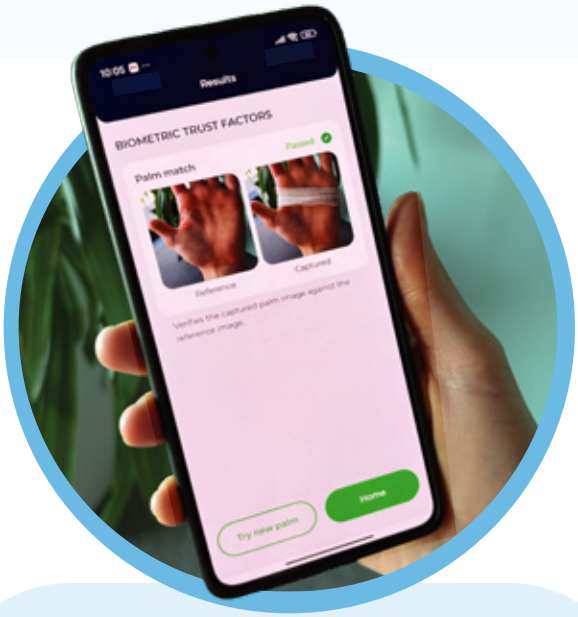
Our palm verification can accommodate situations where a face scan isn't possible. It adapts to a wide range of use cases, integrates easily into any digital service, and scales effortlessly.

Made for Real-World Applications

Financial & Digital Services
- Passwordless login
- Payments authorization
- KYC / Onboarding

Healthcare & Public Sector
- Patient authentication
- Access control
- Second-factor authentication

Travel & Mobility
- Passenger verification
- Biometric CAPTCHA
- Ticketless access



Inclusive by Design

Trained on a well-balanced dataset, our algorithm performs accurately across all skin tones and ethnicities. It works on children's palms and tolerates natural changes such as scars, skin conditions, or aging.

Secure and Adaptable

Built-in liveness detection prevents spoofing attempts, such as printed or screen-based attacks. The system can be tuned for both high-security use cases and large-scale, user-friendly verifications.

- banking & fintech
- travel & mobility
- e-commerce
- gig economy
- healthcare
- public sector

Reliable in Any Condition

From bright daylight to low light, and from new to older smartphones, our palm recognition performs consistently. Unlike vein scanning, it maintains its accuracy unaffected by temperature, circulation, or health factors.

GDPR Compliance

Palm images and templates are considered personal data under GDPR. Our technology is delivered as a toolkit hosted by the customer, ensuring full control and compliance on their side.

Because people generally see palmprints as "safer" than their faces, they usually feel more comfortable using them. Images of palms are rarely shared publicly, and the act of showing one's palm is intentional, signaling consent.

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Building trust all over the world

With over 20 years of experience, we are an independent EU-based provider of high-performance biometric solutions, trusted worldwide by governments, businesses, and law enforcement agencies. Our fingerprint, face, and iris algorithms rank among the fastest and most accurate in the world, powering flexible identity solutions in more than 80 countries and benefiting over a billion people.

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