



Case Study | Precise Biometrics | Access Control

Secure Access Control with Seamless User Experience



Basic facts

- **Client:** Precise Biometrics is a global identification software provider with headquarters in Lund, Sweden and offices in Shanghai, China and Potsdam, NY, USA. The company's offering, which combines various biometric technologies to ensure an accurate digital identity, is marketed to companies in sectors such as finance, betting, healthcare and transport.
- **Size of project:** 20 projects deployed in the first year alone
- **Country:** Scandinavia
- **Time span:** 2019 – now

Products used

- SmartFace

Deployment

- **Impact:** Improved user experience, Cost savings (No need for 24/7 in-person system to grant access)
- **Application:** Gyms, Offices, Temporary buildings, Production lines

Challenge

Someone always needs to be physically present when registering and granting access to visitors and/or employees, which can be laborious, inefficient and costly. Tags, badges, or access cards can easily be lost, misplaced, or even stolen. The spread of the pandemic has only intensified the need for a more secure and safer system.

To solve these issues, Precise Biometrics wanted to leverage facial recognition technology in developing the next generation of seamless access control systems.

- Improve user experience by removing bottlenecks and making onsite visits a breeze
- Upgrade access control systems to offer better security while keeping market costs down
- Establish a healthy environment thanks to a digital, seamless and completely contactless user journey

Solution

Innovatrics SmartFace was integrated into the Precise system to build a complete multi-tenant cloud access control and time & attendance solution called YOUNiQ - Access. A registration link is emailed to a new user, where the steps can be completed remotely. A biometric template is generated and stored in the database. SmartFace identifies faces via a video stream and matches it against the recorded data. To enhance security, our liveness detection makes it impossible to spoof the system, combatting various presentation attacks.

Given its accuracy, the face becomes an incredibly secure form of digital user ID.

- Fast deployment and integration support throughout the duration of the project
- Quick and convenient access permission verification via face matching, alert notifications and other consents in the software
- Remote enrollment of visitors and/or employees online or through the mobile app using facial biometrics

Results

Precise YOUNiQ now offers a multisite centralized administration system that can issue visitors temporary face passage keys, granting access to selected doors in various facilities. No physical contact is required, ensuring smooth operations of establishments even during lockdowns. Implementing a digital user ID eliminates bottlenecks at the entrance by allowing seamless access to premises even before arrival. For gyms or workout studios, providing secure access to members even without the presence of staff is possible even outside operating hours. It gives clients the freedom to exercise whenever they want - something that can easily be replicated in other verticals.

- Scalable, fast and accurate access control system for facility management, gyms, etc.
- Biometric technology guarantees highest levels of convenience, privacy and security
- Improved security suitable for high throughput or high security premises

"Innovatrics is truly a front runner in face recognition modality and their proprietary technology is one of the cornerstones in Precise YOUNiQ - Access. With our mutual core values that extend beyond the mere technical, we can deliver solutions that positively impact people's lives from entering premises to making businesses more efficient. YOU are the key."

Stefan K. Persson
Precise Biometrics CEO

The power of efficient biometric algorithm

Before

1-2 days of unnecessary administrative work to register and grant access to a new user

Physically requiring staff to grant visitor access

Unreliable system of identification

Limited operations due to staff/time constraints

After

30 second digital self-enrollment

Distribution of digital key via email, without physical interactions

Highly secure face recognition system

Non-stop operations with automated facility management capabilities

Security as a priority

The safeguards in place on our facial recognition technology grant secure and convenient access to premises.

Extra Customization

SmartFace was highly optimized to run on LINUX and various embedded platforms, enabling a real seamless access approach.

On-Premise System and Cloud-Based User Management

Deployed as an on-premise solution to fulfill critical requirements for seamless access control approach with low latency detection, extraction and matching, SmartFace has also been integrated with various local access control and cloud-based user management systems.

Self-Enrollment Via Smartphones

Innovatrics technology enables the remote enrollment of users using mobile phones, removing the need for physical interactions especially useful in these pandemic times.

About us

We are an independent EU-based provider of multimodal biometric solutions. Our algorithms consistently rank among the fastest and most accurate in fingerprint and face recognition. For over 15 years, we have partnered with all types of organizations to build trusted and flexible biometric identification solutions. Our products are being used in more than 80 countries, benefiting more than a billion people worldwide.

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