Mobile Biometric Access Control

Secure Mobile Identify Verification with RealSense ID

Spotlight on Ones Technology

Ones Technology delivers access control systems for high-security areas such as data centers, airports, metro stations, stadiums, concert halls, and government buildings. Its innovative solutions are recognized across Europe and Asia for enhancing security in public and private sectors. sectors.

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more than one

"RealSense ID F450 is so small it is easy to integrate into our devices. And it's not just a face authentication device—it's also helping us eliminate 2D and 3D spoofing attacks."

– Onur Sirmatel, General Manager, Ones Technology

Challenge: Traditional mobile verification methods rely on centralized databases, making them vulnerable to breaches and difficult to deploy in remote or high-traffic areas. As fraud methods evolve—ranging from deepfake identity theft to stolen credentials—organizations need reliable, portable biometric authentication solutions for security and access control.

Solution: BioAffix Gate Vision Mobile, powered by RealSense™ ID F450, is a handheld identity verification device that uses advanced facial recognition and depth sensing to ensure only real, live individuals are granted access to secure locations, and that people always match their identity cards. Unlike conventional biometric systems that store data in the cloud, it processes everything on-device, keeping sensitive information in the user's possession.

Results: This versatile, AI-powered solution enhances security while eliminating authentication bottlenecks. It is easy to integrate into existing access control infrastructures and operates offline, reducing cybersecurity risks associated with network-based verification systems.

Meeting the Demands of Modern Security Screening

For organizations that require rapid, secure, and contactless identity verification, the ability to authenticate individuals in real-time without reliance on network connectivity is a game changer. However, traditional mobile verification methods require centralized data storage, increasing the risk of breaches and compliance violations. For example, many biometric-based handheld readers store data on the device or in central servers, which raises concerns over privacy, security, and compliance with regulations such as GDPR.

BioAffix Gate Vision Mobile addresses these challenges by offering a self-contained, AI-powered authentication solution that eliminates reliance on external databases, ensuring that sensitive biometric data remains private and secure.

To verify the authenticity of state documents like passports or driver's licenses, businesses and government institutions rely heavily on advanced biometric technologies as a critical second factor for access control. Unlike traditional 2D facial recognition, which can be fooled by photos or videos, RealSense ID F450 introduces active stereo depth sensing and AI-driven anti-spoofing technology, ensuring only live individuals can be authenticated. This eliminates concerns over deepfake fraud, a growing challenge in identity security.

The F450 provides fast, accurate, and secure identity verifi ation via 3D and IR cameras—ensuring reliable authentication regardless of ambient lighting conditions and effectively neutralizing spoofing attempts. This on-device processing system can authenticate people in less than one second, without requiring network connectivity.

> *"RealSene's technology detects 'liveness' and can be tuned for either maximum security or maximum performance, depending on the use case."*
>
> – Onur Sirmatel, General Manager**,** Ones Technology

How BioAffix Gate Vision Mobile is Transforming Industries

BioAffix Gate Vision Mobile ideal for field operations, remote sites, and environments with strict privacy requirements. Unlike stationary biometric access control systems, which require users to go to the scanner, BioAffix Gate Vision Mobile brings security to where it's needed most. Law enforcement officers conducting identity verifi ation in the fie d, fi st responders accessing secure disaster relief zones, and security teams managing VIP access at high-profile events can all benefit from real-time authentication, without reliance on centralized networks.

For example, at a bustling international airport, long security queues are a common frustration. With BioAffix Gate Vision Mobile, security personnel can verify identities instantly, ensuring that passengers move quickly through checkpoints while maintaining strict security standards.

In a hospital setting, where speed can make the difference between life and death, ensuring that only authorized medical professionals access restricted areas is critical. BioAffix Gate Vision Mobile allows doctors and nurses to authenticate on the move. Staff embers are instantly verified, providing faster and more secure access to patient care areas.

For corporate executives handling sensitive intellectual property or government agencies securing classifi d data, traditional access cards can pose a risk if stolen or cloned. With BioAffix Gate Vision Mobile, authentication happens in real time, ensuring that only the right individuals gain access without the vulnerabilities of keycards or passwords.

A New Vision for Mobile Biometric Security

Ones Technology's first-generation biometric security offering, BioAffix Gate Vision, set a new standard for stationary biometric access control. However, organizations with mobile security needs required a solution that could provide the same high level of authentication while offering greater mobility and ease of use. BioAffix Gate Vision Mobile was developed to bridge this gap. This second-generation device is designed for organizations that need on-the-go identity verification without unwavering security.

The Security Industry Association (SIA) recognized the outstanding achievements of RealSense and Ones Technology at the 2025 SIA New Products and Solutions Awards, celebrating the value of their technical collaboration in the Biometrics category. BioAffix Gate Vision and BioAffix Vision Mobile were singled out for their advanced identifi ation and access control capabilities.

Ones Technology's engineering team leveraged the RealSense software development kit (SDK) to streamline development and integration, making it easy to apply RealSense's facial recognition technology across various mobile authentication scenarios. The mobile device is easy to integrate with smart card and barcode-based security infrastructures.

Sirmatel and his team particularly valued the compact size of the RealSense ID F450 module, which is designed as a complete, self-contained hardware unit. This made it significantly easier to integrate into their portable biometric security devices without compromising processing power or speed.

BioAffix Gate Vision Mobile is engineered for harsh and demanding environments. Its IP68-rated enclosure protects against dust and water, making it suitable for outdoor deployments. The Corning Gorilla Glass touchscreen and 1.5-meter drop resistance ensure it can handle rough handling,

> *"Especially with AI, deep fakes, and so on, people don't want to supply their biometric data to the cloud. We designed a system that keeps everything local, where it belongs."*
>
> – Onur Sirmatel, General Manager, Ones Technology
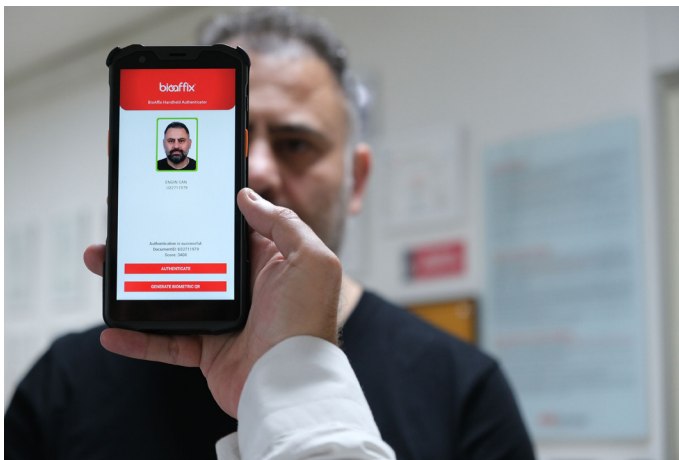
whether by border patrol agents verifying identities in the field or security teams screening event attendees at a crowded venue.

The device is also highly adaptable, seamlessly integrating with HID SEOS, Legic, Mifare Desfire, and Cipurse card technologies.

> *"With our solution, the data stays on the individual's badge. It doesn't go to any public server or infrastructure."*
>
> – Onur Sirmatel, General Manager, Ones Technology

This broad compatibility allows organizations to maintain their existing security infrastructures while upgrading to biometric authentication.

Complying with Data Privacy Mandates

GDPR sovereign identity regulations prohibit public organizations from sharing personal biometric data across national borders. Ones Technology solves this challenge by pre-loading facial templates onto a secondary authentication mechanism, such as an encrypted badge or ID card. RealSense ID processes all facial imprints locally; the biometric information on the badge or card is matched to the template extracted from each face. No personal data is uploaded to a computer or cloud-based server, ensuring compliance with these strict data privacy regulations. The solution complies with GDPR and other data protection regulations by ensuring biometric data never leaves the user's control.
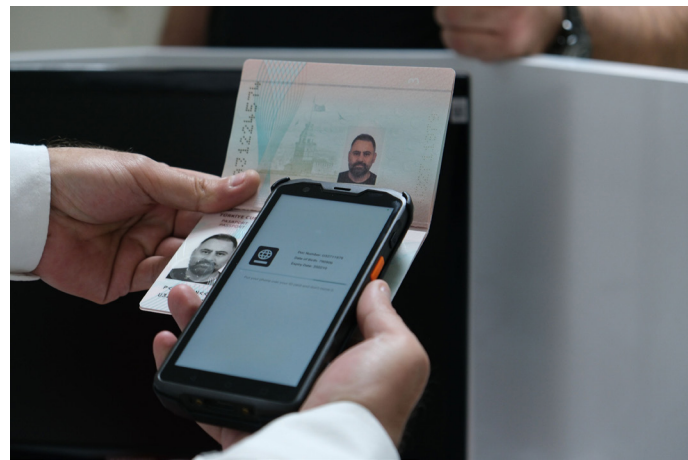
Learn More

BioAffix Vision Mobile: https://bioaffix.com/access-control/bioaffix-gate-vision-mobile/

BioAffix Gate Vision: https://bioaffix.com/access-control/bioaffix-gate-vision/

Discover more about Ones Technology's biometric access control solutions

Read about **RealSense ID for Facial Authentication** technology at realsenseai.com

Conclusion: Rolling Out A Future-Proof Security Solution

BioAffix Gate Vision Mobile is more than just a biometric reader—it's a fundamental shift in how organizations approach access control. With RealSense ID F450, it delivers unmatched accuracy, security, and portability, making it a must-have solution for enterprises, governments, and critical infrastructure providers looking to future-proof their security strategies.

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