

# AuténID

Authentic Identity | ID CARD & BIOMETRICS CONVERGED SOLUTION

The removal of existing PAIN or avoidance of near-term PAIN is a more powerful motivator than the potential of future PLEASURE



# and

**ANDOPEN**

BIOMETRICS SOLUTION PROVIDER

**Contact information for AuténID Access Control Solution**

46, Dallaena-ro, Sujeong-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

**Seongnam Global Convergence Center**, A Tower, Room 506

TEL : 031 608 0010 FAX : 0504 374 9019

✉ [contact@andopen.co.kr](mailto:contact@andopen.co.kr)

🌐 [www.andopen.co.kr](http://www.andopen.co.kr)

▶ [www.youtube.com/andopen](http://www.youtube.com/andopen)

**Borrowed, lost, stolen..**

**Misidentification, tedious biometric registration procedure,  
personal information protection...**

Are you aware of the problems with ID cards that you always use?

Are you sure your biometrics are 100% accurate?

Is there a way to safely manage biometrics?

Is the only option to replace the entire system?

Can the current system being used be replaced in a short period of time?

# AuténID

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The combination of biometrics and ID cards supplement each other's weaknesses and offers realistic solutions.

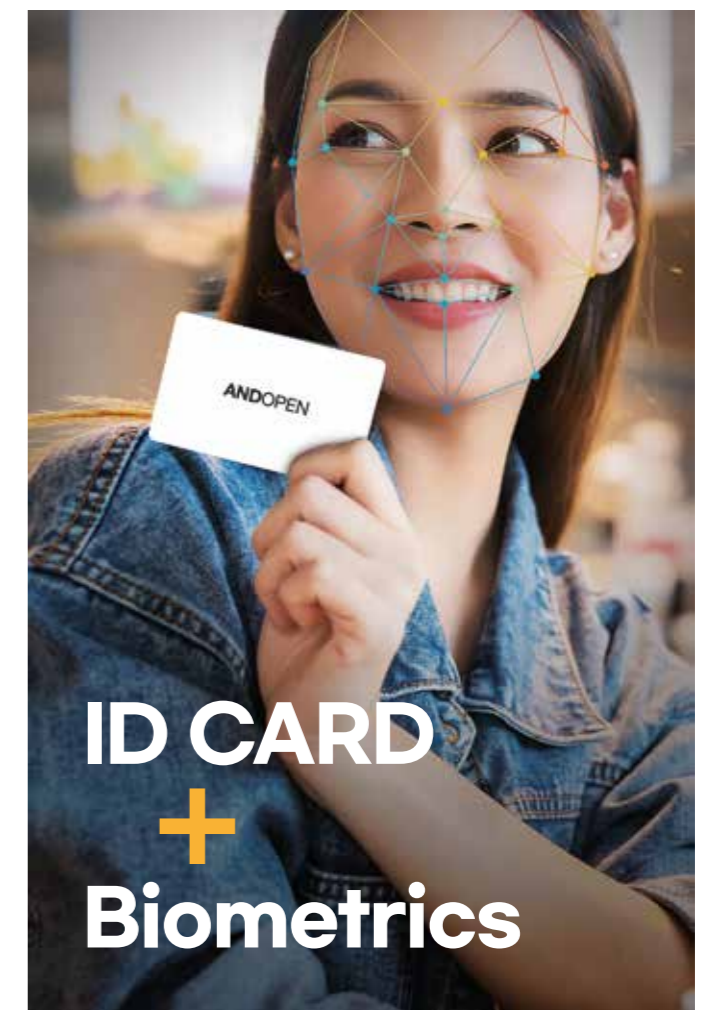
**ANDOPEN calls this solution AuténID.**

Everyone knows that there are weaknesses in the current security system, but they are being used because there are no clear alternatives.

We may consider switching to contact-free biometrics that is accurate, convenient, and up-to-date, but there are numerous issues such as complicated registration processes, biometrics that must be strictly managed, and system overhauls.

Even when putting up with all these issues, the issue of misidentification is not solved, and so we end up returning to the starting point.

Here, ANDOPEN offers a realistic solution.



## Incomplete existing entry control system

Card-based solutions have the advantage of fast speed and no misidentification.

We know about such issues like easy forgery, borrowing, response when lost, and so on, but we still use them.

This is because it does not verify the individual, but the card, therefore making identification of identity impossible.

Some attempt to apply biometric systems for better identification in order to solve the issues of card-based solutions, but even if we tolerate such issues as slow speed with more users, and high installation and operation costs, the issue with misidentification still cannot be solved.

These factors make it difficult to come to the decision to change the system.

## Collaboration of biometric authentication solution and ID card system!

**ANDOPEN offers a security solution with a whole new concept.**

**AuténID** is a solution that adds biometric authentication to card-based solutions to offset the weakness of each, while offering both convenience and security.

Existing ID card-based solutions are the most typical solutions for entry control and have the advantage of no misidentification.

Meanwhile, biometric identification is the only solution that can verify identity, and the most convenient among them is facial recognition.

**ANDOPEN** combines the strengths of the contrasting security solutions to mutually supplement each in order to provide the perfect hybrid security solution.

## Unnecessary biometric information registration procedures are not necessary.

In order to issue the ACC (**ANDOPEN** security card), the user must submit his or her photo to the applicable office. The face on the photo is detected and analyzed using **ANDOPEN's** AI neural network-based technology to be highly encrypted and compressed for saving on the ACC.

**ACC cannot be duplicated and it perfectly represents the user.**

Personal biometrics ( Facial image ) applied with the **AuténID** solution is saved only on the ACC and is sent only to the respective user, and therefore, it is individually managed and used by the user.

In other words, sensitive personal biometrics that organizations must manage does not exist inside the system. This makes the system light and simple, and there are no limitations in terms of the number of users.

# ID CARD + Biometrics

## AuténID



**ANDOPEN** provides realistic solutions to the businesses seeking transformation in security.

# A.bc1

The entry control terminal **A.bc1** is the core product of **AuténID**, an identity authentication solution combining only the strengths of facial recognition and ID cards.

**A.bc1** compares the facial information of the user using a 1:1 method without a troublesome biometrics registration procedure, and its authentication misidentification rate is 0%.

This multi-authentication system that can enhance authentication convenience and security compares the actual face of the user and the facial image of **ACC** (ID card that encrypts and saves facial images) in real time.

**A.bc1** can be immediately linked with existing entry control systems without requiring additional operations, and it can be immediately installed without requiring initial settings.

If you are looking to switch to a realistic and complete entry security system, you can easily upgrade to a 100% safe and efficient system with **A.bc1**.

## Accuracy and reliability

Misidentification rate 0% - 1:1 comparison method.  
Best facial recognition algorithm accuracy.  
HDR dual camera that can overcome various lighting environments.  
Three-way false authentication prevention. (Anti-Fake)  
IP65 rated waterproof/dustproof.

## Best flexibility and connectivity

Immediate link with existing entry control system without requiring extra work.  
Gigabyte Ethernet, Wi-Fi, ODSP and RS-485 secure communication.  
30pin I/O interface composed to interwork with all existing entry control systems.

## Multiple functions and convenience

Plug & Play – No initial settings required.  
Removal of unnecessary elements: biometrics registration process, database management.  
Slim size makes it easy to install anywhere with PoE.  
Offers various authentication tools including not only cards, but also NFC and Bluetooth.  
Simple management tools, cloud-based device monitoring.  
Unlimited number of users / attendance management function.  
Temperature measurement module. (optional)

## Ease of application and management

User does not have to go through the cumbersome registration process and receives his or her card with the encrypted facial image. User easily identifies his or her identity by simply 'look tagging.'  
The fact that there is no biometrics registration process means that there is no personal biometric information to be managed within the system.

Therefore, system integration/construction personnel do not have to complete difficult system changes to easily add **A.bc1** to the existing security system or compose the **AuténID** integrated system.

There is continuous growing demand among customers to strengthen security by making improvements to system vulnerabilities in all fields.  
In particular, the entry control sector is still being exposed to problems not solved by card-based systems, but the current biometric recognition solutions have not been able to serve as suitable alternatives.

Existing biometrics products have misidentification according to its specifications, and sensitive biometric information must be separately stored and managed.  
In addition, there are many restrictions in terms of compatibility and expandability.

**A.bc1** is a product designed to resolve these customer issues. Easily resolve all your concerns with **AuténID**.

## ACC

Andopen Card Credential

### ID card with facial image

AES128 encryption  
Can be used in various devices including cards, smartphones, smart watches, and key chains.

## ACIS

Andopen Card Issuing System

### Integrated solution that records facial images on cards for individual issue

Subscription / construction types selectable  
Based on Windows 10

## ADMS

Andopen Device Management System

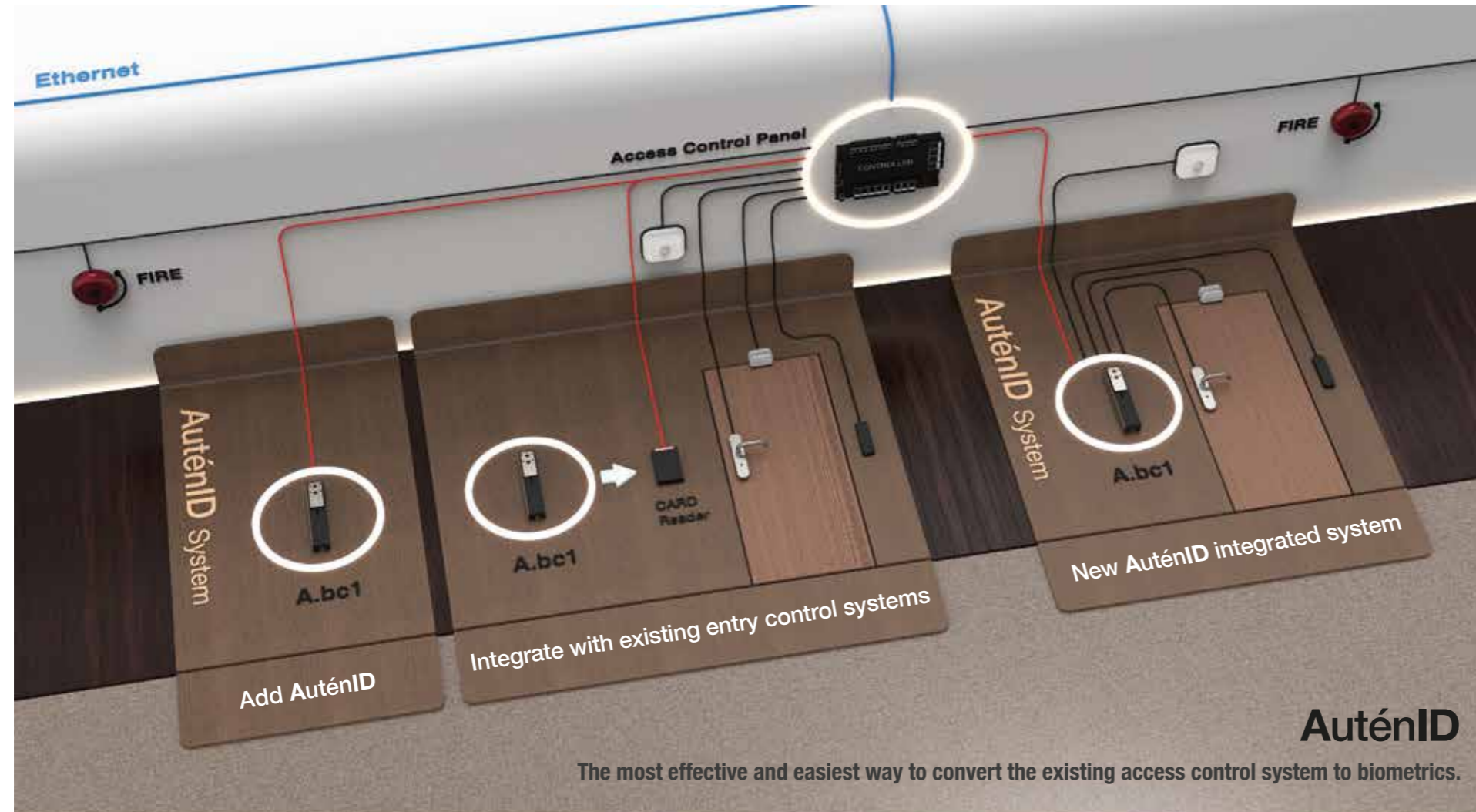
### Device management using cloud or simple SW

Device monitoring.  
Entry authority / Entry group / Entry log, etc management.  
Can be connected to various DB using REST API



ANDOPEN provides realistic solutions to the businesses seeking transformation in security.

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## Integrate with existing entry control systems

### Hybrid integration

A.bc1 judges authentication success/fail through real-time analysis and comparison of facial image encrypted and saved on ACC and the face of the actual user. Therefore, the facial data of the user is not needed in the system. The organization's security administrators simply have to manage only the current entry regulation controller.

When wanting to additionally manage or separately manage A.bc1, simply use ADMS or install REST API to the entry management system for easy application. A.bc1 sends only the 'card number' in the same format as the existing card reader in use to the entry regulation controller only when user authentication is successful.

Elements that must be considered when implementing new security systems are flexibility and expandability. A.bc1 that includes ACU supports both direct control of doors and control through external access panels.

When using A.bc1 independently, it operates simply by connecting the power, and it can also be used as a reader by connecting to other systems through various interfaces.

A.bc1 offers various communication methods including the default OSDP and over 22 input/output interfaces, thus making it flexibly compatible with most standard systems.

Existing systems in operation can be easily upgraded thanks to complete compatibility and expandability.



# AuténID

**Authentic Identity**  
ID CARD & BIOMETRICS CONVERGED SOLUTION

# Prove yourself with AuténID.

Is it applicable only for employee ID cards or entry cards?

Can a person's identity be accurately authenticated with photos, signatures, etc., printed on an ID card or credit card?

Why is it difficult to change the self-authentication method in the age of the digital transformation?

**AuténID is the best contact-free facial recognition solution that offers mutual reliability by being applied in all areas that require identity verification based on its outstanding expandability.**



Employee ID card, resident registration card, public employee card, military ID, student ID, youth ID, etc.



Paid memberships such as for supermarkets, theme parks, season sports tickets, etc.



Credit card, prepaid card, welfare card, etc.



Tickets related to culture and arts such as movies, concerts, and sports



Youth, elderly and disabled priority cards, priority public transportation cards for meritorious persons, etc.



## You can have a perfect system. Now, make a wise choice.

Is there a solution for weaknesses in card-based systems such as reproduction, forgery and alternation, loss, or borrowing?

Is it possible to implement a biometrics verification system using the same method as an alternative to card-based systems even after putting up with issues related to misidentification, limited number of users, complicated registration processes, management of sensitive biometric information, compatibility, expandability, and so on?

A.bc1 was designed to simply resolve these issues.

Easily resolve all your concerns with **AuténID**.

## Benefit

Strengthened security through biometric verification

100% accuracy - no misidentification

Secure security and convenience simultaneously (Response to mobile card)

Cannot be used by others (no actions have to be taken when lost)

Cannot be used fraudulently (secure mutual reliability between user and operator)

Refactoring (system upgrade without communication or power construction)

Full use of existing infrastructure (Help with ESG management activities)

Can be expanded to various uses

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