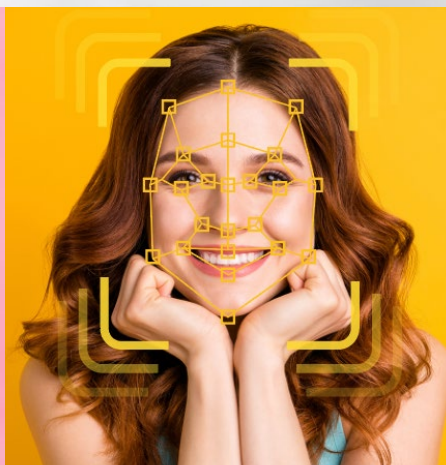
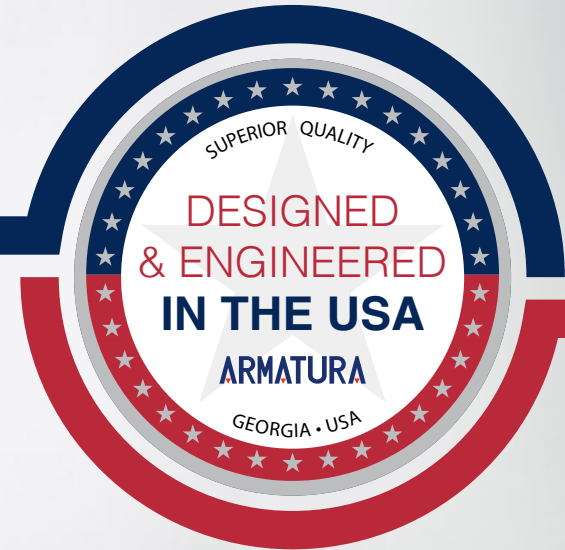


ARMATURA

MADE IN  
THAILAND

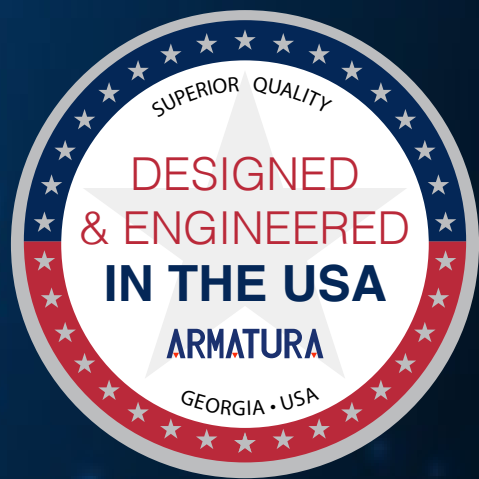
# PRODUCT CATALOGUE



# ARMATURA

Armatura is a Trusted Global High-tech  
Biometrics and Security Solution Provider





**MADE IN  
THAILAND** 

## Armatura's Vision

Armatura was founded with the idea of helping create a safer and more trustworthy world by ensuring the identity of everyone we're connected with. We believe biometric technology will be the key to recognising people by their body's own biometric data; it is always the most logical and effective way. With the help of Moore's law, the computer processing power doubles every two years, along with different evolving technologies such as artificial intelligence and deep learning. Since smartphones started with fingerprint sensors, biometric technology has become applicable in our everyday lives a decade ago. Hence, promoting high-tech biometric technology to the globe will always be Armatura's vision, helping its partners break through the barriers that only mega-size or high-tech companies can provide solutions with biometric authentication.

## About Armatura

Armatura is a global biometric technology-oriented company founded in the "The Silicon Valley of the South" (Atlanta, GA, USA), providing all-rounded Identity & Access Management (IAM) end-to-end solutions inspired by A.I. enhanced biometric technology to the broad spectrum of customers, including, system integrator, security company, government sector, multi-national enterprise, etc.

To ensure all the Armatura products' quality, all Armatura's products are designed in the U.S. and manufactured by its self-owned factory in Thailand.

Instead of adopting the regular business strategies, Armatura offers end-to-end solutions in different application scenes to maximize its partner's utilities and aligned 2 solution lines:

1. Biometric Integration
2. A.I. Enhanced Security Solution





# Access Control and Biometrics Solutions



## A.I. enhanced Security Solution

Controller  
Reader  
Standalone Terminals  
Software

Biometric Integration



# Access Control Controllers



Centralization operation enables easy management of all access points at a single location. Armatura offers complete range of access control panels for connecting and driving on-site additional devices for operations based on event-driven rules set up in the management software.

## AHSC Series

IP-Based Core Controller



AHSC-1000

- Main controller and integration hubs
- PoE (IEEE802.3at)
- Scalable, Supports up to 32pcs AHDU-1460 and 258 readers
- Onboard Webserver
- Threat Levels and Port Failover

## AHDU Series

IP-Based Biometric Door Unit Controller



AHDU-1160

AHDU-1260

AHDU-1460

- Single Door Unit (supports 1 door and 2 readers) (AHDU-1160)
- Two Door Unit (supports 2 door and 4 readers) (AHDU-1260)
- Four Door Unit (supports 4 door and 8 readers) (AHDU-14 60)
- PoE (IEEE802.3at)
- Scalable, Supports up to 24pcs AHEB expansion boards
- Advanced Access Control Functions
- 4-States Supervised and Programmable Inputs (Active, In-Active, Open, Short)

## AHEB Series

IO Expansion Board



COMING SOON



COMING SOON

AHEB-0216

AHEB-0808

AHEB-1602

- 2 Inputs and 16 Outputs (AHEB-0216)
- 8 Inputs and 8 Outputs (AHEB-0808)
- 16 Inputs and 2 Outputs (AHEB-1602)
- Scalable
- 4-States Supervised and Programmable Inputs (Active, In-Active, Open, Short)

# Access Control Readers



Armatura provides a wide variety of external readers with IP68 waterproof and dustproof levels, IK10 impact resistance and fire resistance levels for an unparalleled standard of security and robustness of security applications.

## EP10 Series

All Weather Outdoor Multi-tech Smart Reader



### EP10C

- K10 & IP68 Protection Level
- Supports 100+ card types and dual RFID frequencies
- Supports Mobile Credentials (Bluetooth & NFC)
- Mullion Mount Design
- Supports Asian / European / Single-gang box back-box spacing

## EP20 Series

All Weather Outdoor Multi-tech Smart Reader



### EP20C

### EP20CK

### EP20CQ

### EP20CKQ

- Up to IK10 & IP68 Protection Level
- Physical keypad
- Supports 100+ card types and dual RFID frequencies
- Supports Mobile Credentials (Bluetooth & NFC & QR code)
- Supports Asian / European / Single-gang box



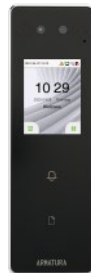
# Access Control Standalone Terminals



Armatura offer complete systems that enable both access control and time & attendance management. With various access control solutions with face recognition, palm recognition, mobile credential and RFID identification for entrance, exit and all kinds of access points.

## OmniAC Series

Contactless Biometric Standalone Terminal



OmniAC20

- Multi-Biometric technology combining palm and face recognition
- IP66 water & dustproof protection rating
- Slim design & form factor for a modern aesthetic design
- Supports 125 kHz and 13.56 MHz frequency RFID
- Supports Dynamic QR Code



OmniAC30

- Multi-Biometric technology combining palm and face recognition
- IP66 water & dustproof protection rating
- Supports 125 kHz and 13.56 MHz frequency RFID
- Supports multiple mount types (Single gang/ European/ Asian box)
- Supports Dynamic QR Code



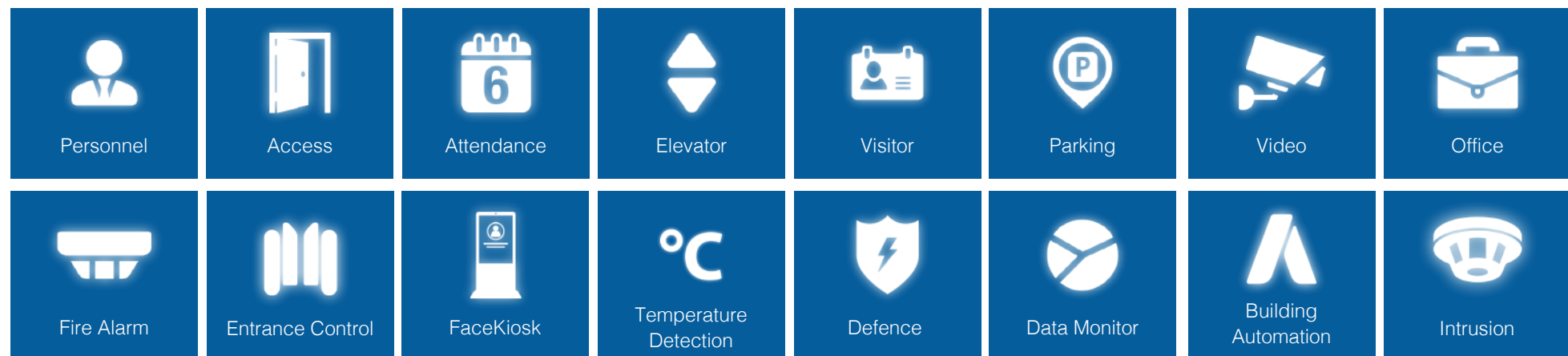
# Software

## Armatura One Security Platform

Web-Based Versatile Security Platform



Armatura One is the ultimate “All-in-One” web-based security platform developed by Armatura. It contains multiple integrated modules: Personnel, Access Control, Time & Attendance, Elevator, Visitor, Parking Management, Video Management System, Office, Fire Alarm, Entrance Control, FaceKiosk, Temperature Detection, Defence, Data Monitor, Building Automation and Intrusion.



# Biometric Modules

Armatura biometric modules are designed to provide developers and manufacturers with refined biometric security solutions to integrate with various applications such as access control systems, time & attendance terminals, smart lock and entrance control, to assist them in the acquisition of the original biometric data of an individual.



**AMT-FAM-30**

Dual-Lens Face Recognition Module



**AMT-PVR-10**

Near-Infrared Light Palm Reader



**AMT-PVM-10**

Near-Infrared Light Palm Module



**AMT-FAPVR-21**

Dual-Lens Multimodal Standalone Reader  
For Face and Palm Recognition



**AMT-FAM-10**

Dual-Lens Near-Infrared  
& Visible Light Face Module



**AMT-FAPVS-21**

Dual-Lens Multimodal Standalone Module  
For Face and Palm Recognition

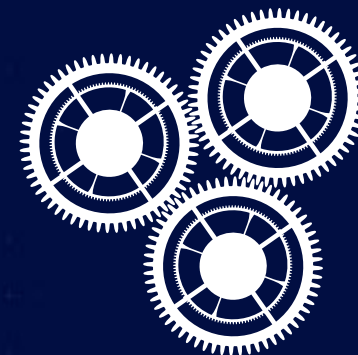


**AMT-FAR-10**

Dual-Lens Near-Infrared  
& Visible Light Face Reader

**SOFTWARE  
DEVELOPMENT  
KIT**

**SDK**



**ARMATURA**





Armatura offers software development kit (SDK) for developers and manufacturers to easily integrate with third-party software for flexible and scalable development.

#### FaceLite SDK

- Face Focusing Method to Enhance Image Quality
- High-Performance and High-Accuracy Face Recognition
- Multi-dimensional Face Feature Template
- Liveness Detection
- Automatic Update on Template Library
- Algorithm Integrity

#### MultiBio SDK 2.1

- High-performance and High-accuracy Face and Palm Recognition
- Rich Communication Interfaces with Module
- Support Wide Range of Hardware Platforms
- Flexible Matching Options: On-Chip Matching and On-Host Matching
- Face Attribute Analysis
- Highly Accurate Liveness Detection
- Highly Adaptable to Various Face and Palm Postures
- Fit to Most Environments
- Support for Multiple Operating Systems

#### FacePro Android SDK

- High-Speed and High-Accuracy Face Recognition
- Multi-Person Tracking from Single Image
- Highly Adaptable to Face Postures
- Highly Accurate Liveness Detection

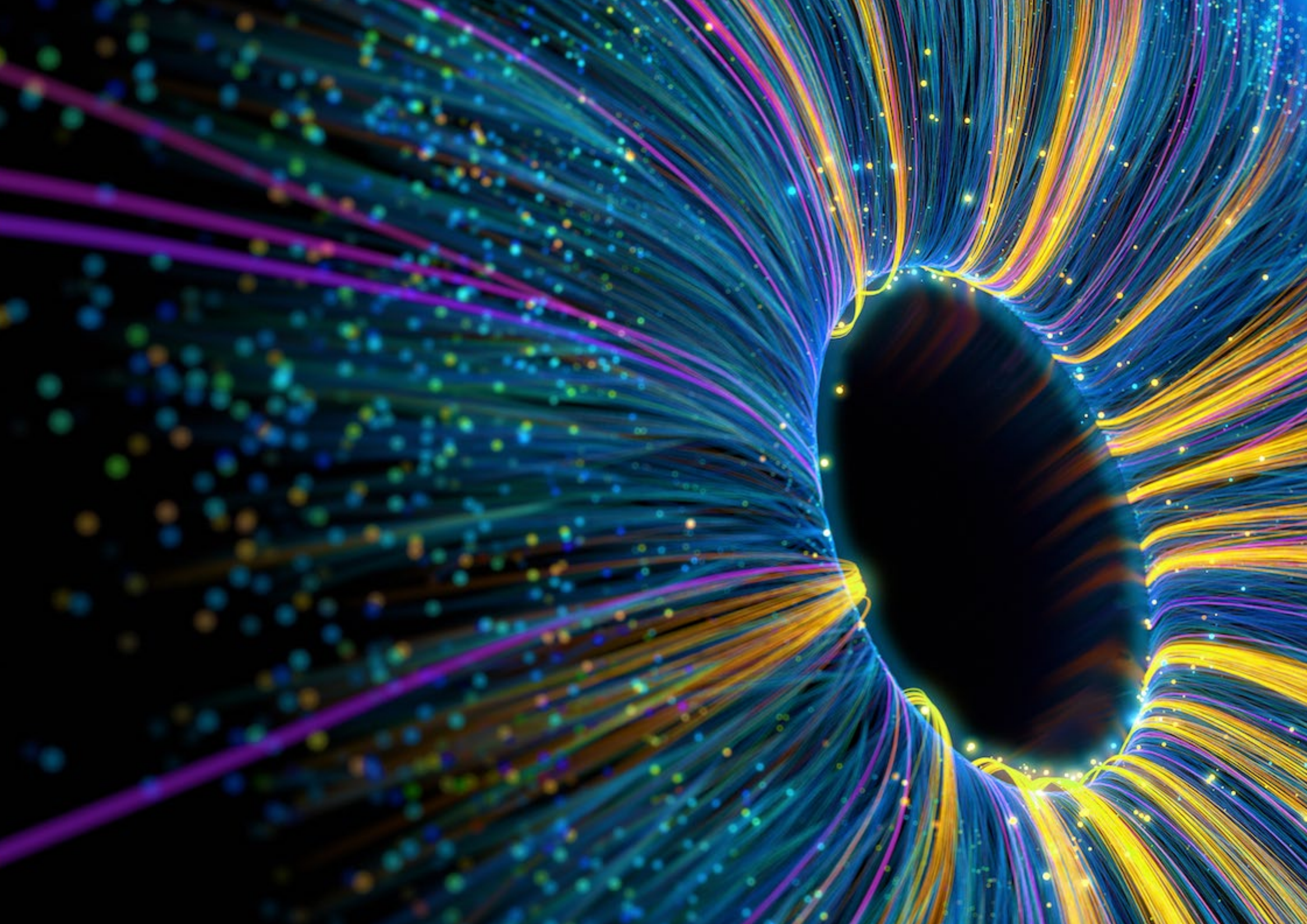
#### Armatura PalmMobile SDK

- High-Speed Palm Recognition
- Highly Adaptable to Various Palm Postures
- Accurate and Robust Palm Recognition
- Highly Accurate Liveness Detection

#### Armatura PalmLite SDK

- Adaptable to Various Environments
- Highly Adaptable to Palm Posture
- Highly Accurate and Robust Palm Recognition
- Highly Secure Liveness Detection
- High-Speed Palm Matching
- Algorithm Integrity









# ARMATURA

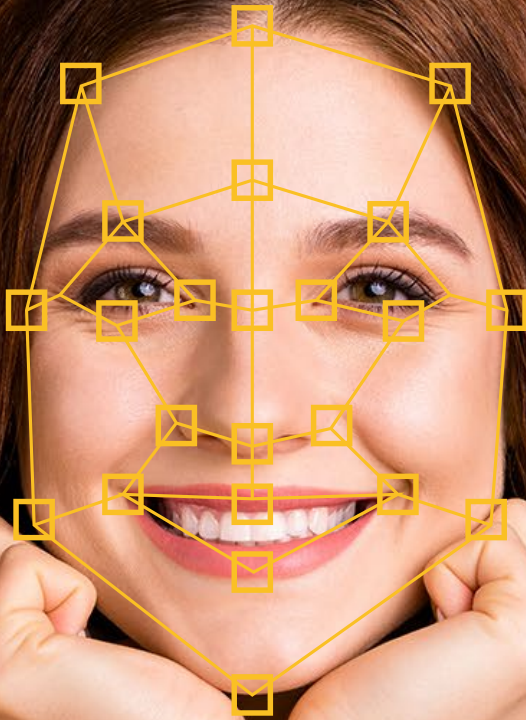
Pioneer Biometrics Technology

Security Caution Deep Learning Person Biometric Scan Deep Learning  
Mobile Credential  
**Facial Recognition**  
Access Control **Palm Recognition**  
ID Scan Identity Protection QR Code authentication  
Remote (BLE) Entry Express mode  
Verification Cyber Human  
Safety Exit Detection Security  
Bluetooth Scanning **Intelligent** Enhanced Convenience  
Monitoring Technology Attendance tag Business Cloud Eco-Friendly  
NFC Recognition



# Facial Recognition

Armatura's face recognition technology is highly efficient with deep learning and computer vision algorithm for secure, flexible and dependable applications. The technology enables quick and automatic recognition of human faces, users no longer need to stand steadily in front of camera. Upon passing through the specific area, they are recognized automatically.





# Facial Recognition

Armatura's face recognition terminals are proactive facial recognition devices, which is enabled to actively collect face images and perform matching and identification up to 10 feet (3 meters) long with an extra-wide angle of 30 degree and 0.3 seconds ultra-fast face recognition speed.

Recognition  
Distance  
**10 feet**

Recognition  
Time  
**0.3s**

Recognition  
Angle  
**30°**



# Palm Recognition

Armatura utilizes the newest generation of palm recognition technology, which reaches a new height of the industry by verifying images of palm and palm print. Palm image can be extracted by simply capturing the hands in front of camera for automatic recognition.



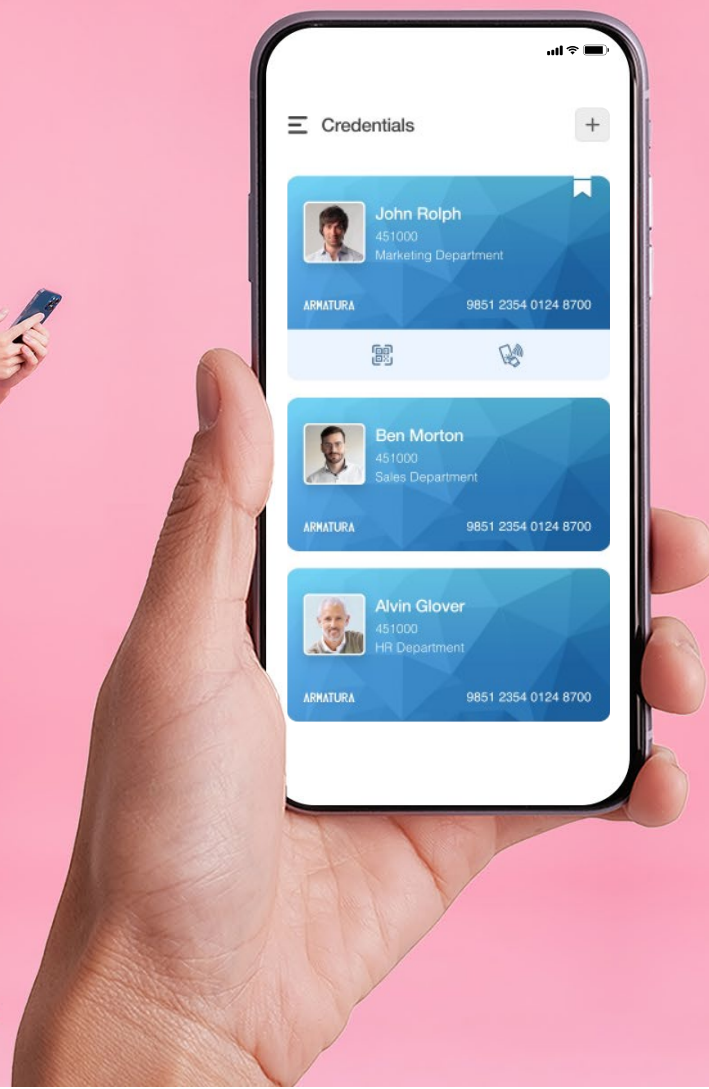




# Palm Recognition

With the newest palm recognition technology, the whole recognition time can be finished in 0.35 seconds. Moreover, the computer vision technology has greatly enhanced the recognition performance, the angle tolerance is improved to as wide as +/- 60 degrees (roll axis), and the recognition distance can be up to 1.6 feet (0.5 meters) upon the palm-size.





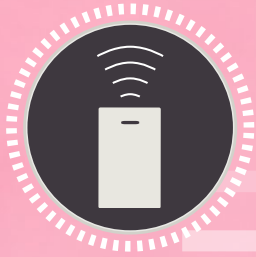
# Mobile Credential

With the Armatura's applications and software which enable mobile access with BLE & NFC & QR Code, users are able to use their smartphones as the RFID card to obtain access rights on Armatura's or 3rd-party access control device for identity authentication anywhere anytime.



## CARD MODE

Place your smartphone over the reader like any physical access card.



## REMOTE MODE

Open doors remotely by tapping a virtual button in the mobile app.



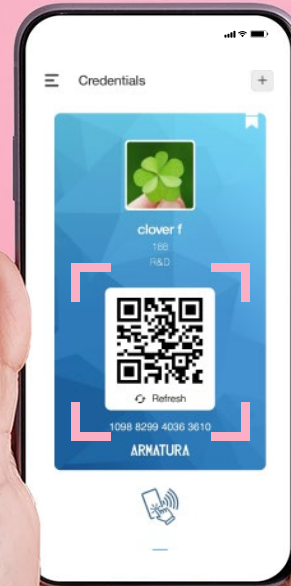
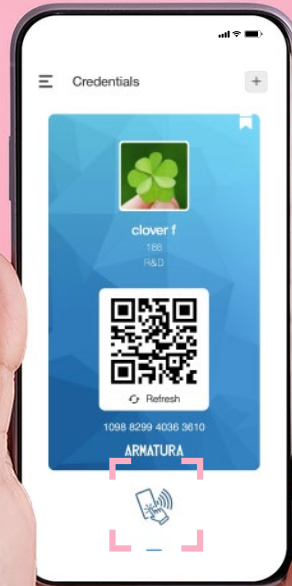
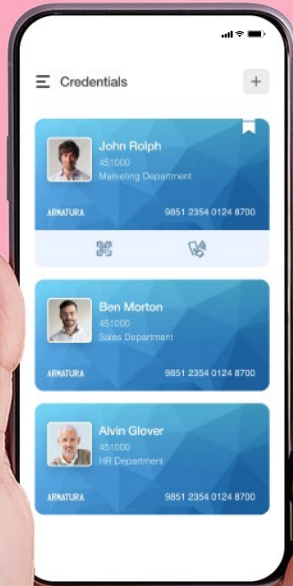
## QR CODE MODE

Present your QR Code and get access.



## EXPRESS MODE

Runs in the background for fully automated door access.



COMING  
SOON



# RFID Reader

Armatura's innovative RFID products ensure easy, simple and worry-free verification experiences, with only one swipe to go.





ARMATURA's products support multi-RFID frequency and 100+ RFID card types, including most of the world's common RFID formats such as ID, IC, DESFire EV1/2/3/4, Legic, Felica, NFC, etc.





# Certified of Data Protection



**ARMATURA**



# Certified of Data Protection

Data and privacy protection are always one of the primary concerns of Armatura; all of Armatura's engineers and researchers have done their best to deliver Armatura's system with the highest level of data protection in the industry.

Armatura's systems, developed by experienced R&D teams, which reached the CMMI5 standard, are GDPR and CCPA compliant and are certified by ISO 27001, 27701, 27017 data protection measures.

All Armatura's communications are encrypted with the best measures by using different encryption methods such as AES128, AES256, TLS1.2, etc., and all vital information is stored in certified EAL6+ crypto chips, with access routes securely blocked.



# Certified of Data Protection





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