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suprema
INNOVATION IN SECURITY

Access Control & Time & Attendance
PRODUCT CATALOG 2016

The Future is Easy

Suprema Inc. is a global leader in biometrics and security technology. By combining world renowned biometric algorithms with superior engineering, Suprema is able to continually develop and manufacture reliable industry leading products. Suprema's extensive portfolio of products include biometric access control systems, time & attendance devices, fingerprint/live scanners and embedded fingerprint modules.

Suprema supports worldwide sales network that spans across more than 133 countries around the world and was the first biometrics company listed on Korea's stock market (KOSDAQ 094840).

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BioStar 2

Web-based Open Security Platform



BioStar 2 sets the new standard in security. The powerful biometric access control framework provides system integrators the ability to easily integrate with 3rd party systems and allows software developers to build new applications & functions into BioStar 2. Accessibility to BioStar 2 and its APIs is further extended through cloud services.

Key Features

Sever Matching



When server matching is turned on, BioStar 2 will process all verification of credentials at the BioStar 2 server. Combined with automatic synchronization, the user credential will be duplicated on the device that will act as a failsafe when the server is disconnected or offline.

New Smart Card Features



New Smart Card feature will allow users to utilize smart card in various applications. Access on card mode stores information such as user information, fingerprint template, PIN, and access rules to be used as secure credential card. Secure credential card will exclusively store fingerprint template and PIN on the card for enhanced security for users.

Dynamic Logs



Enhanced logs functionality provides added versatility by capturing and storing more dynamic image logs in addition to text logs. Combined with Suprema terminal that features camera, image logs will provide in-depth view of what actually happened at preset events.

List of Compatible Devices & Accessories

- BioStation A2
- BioStation 2
- BioStation L2
- BioLite Net
- BioEntry W
- BioEntry Plus
- Xpass S2
- Xpass
- BioMini
- Secure I/O 2
- DM-20

Powerful Open Platform

Build New Functionality into BioStar 2

BioStar 2 Extension Framework

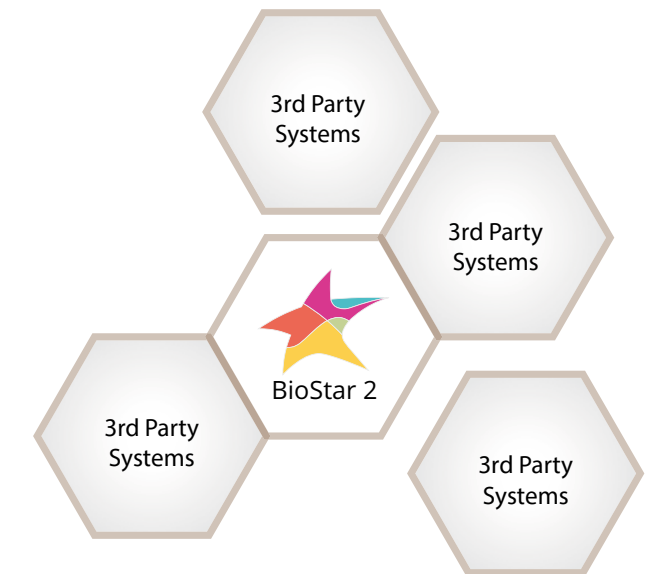
Additional functionality can easily be developed using BioStar 2 extension framework.



Integrate with 3rd Party Systems

BioStar 2 API

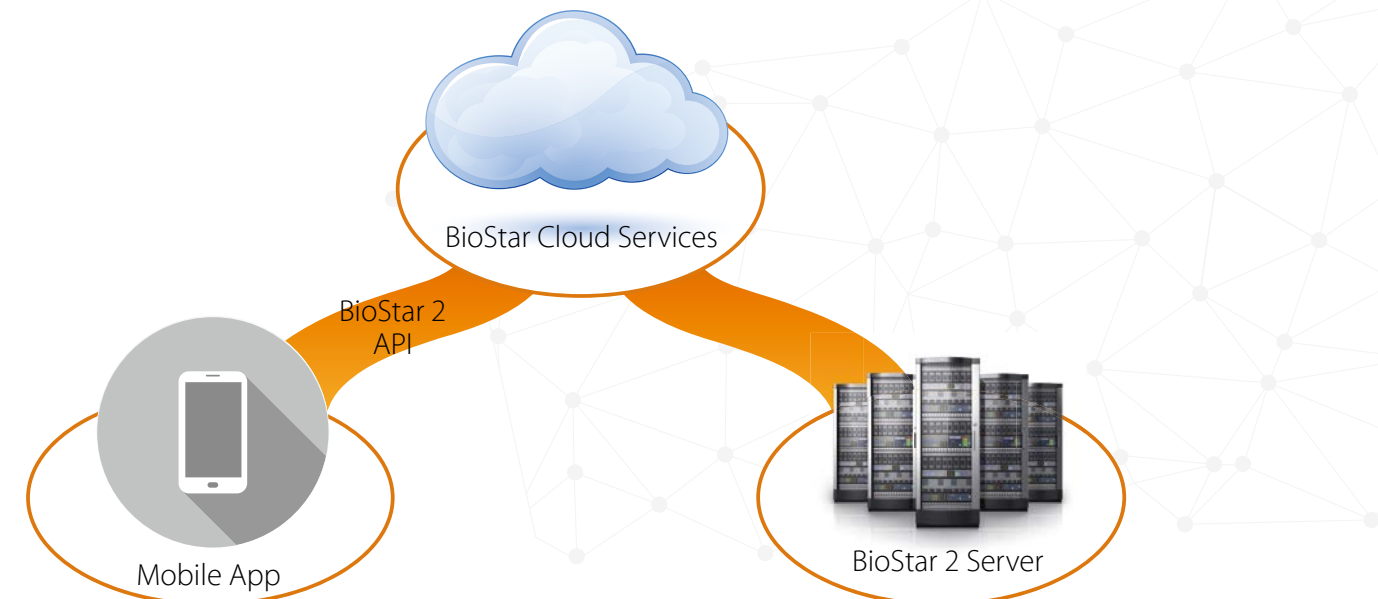
Using BioStar 2 API, the platform can easily be integrated with 3rd party systems.



Mobile Ready

BioStar Cloud Services

BioStar Cloud Service provides access to the platform anywhere through mobile solutions.



Easy to Use



Automatic user synchronization

New additions, deletions, and modifications of user data on the server will be automatically synchronized on the devices configured on the system.



Automatic device discovery

The feature allows the platform to detect all devices connected within the IP network for configuration and installation.



Automatic update notification via cloud

BioStar 2 receives system update notification through the cloud service. All updates can be installed with a few simple clicks or automatically depending on the system setting.



Simple deployment of sites

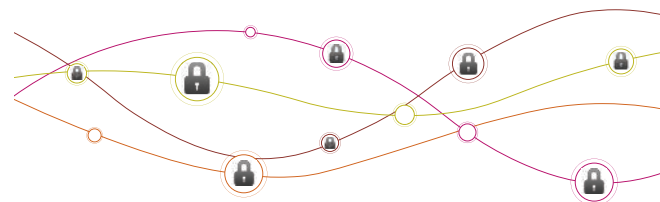
The web-server architecture significantly reduces deployment time by removing the need for software installations in client workstations.



Biometrics ready

BioStar 2 seamlessly integrates benefits and convenience of biometrics into the platform for use with Access Control.

Enhanced Security



Encrypted Communication

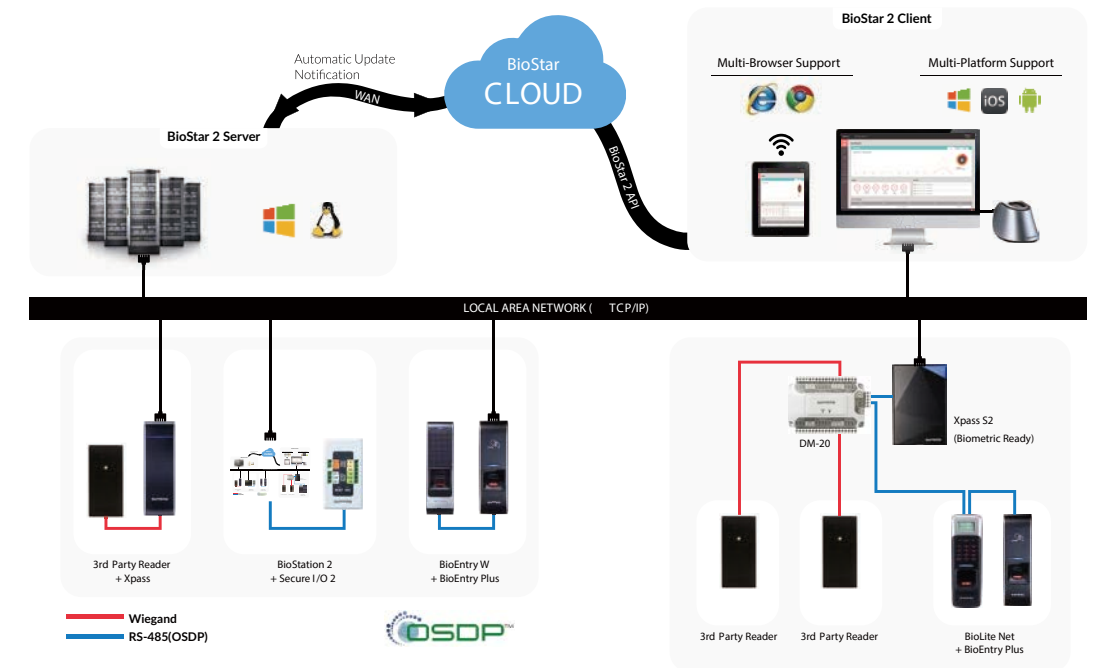
Communication between the server to the client is protected by HTTPS encryption, and communication between server to device is protected by 256bit AES encryption.



Encrypted Information

BioStar 2 also protects user data such as fingerprint, PIN, and password using 256bit encryption standards.

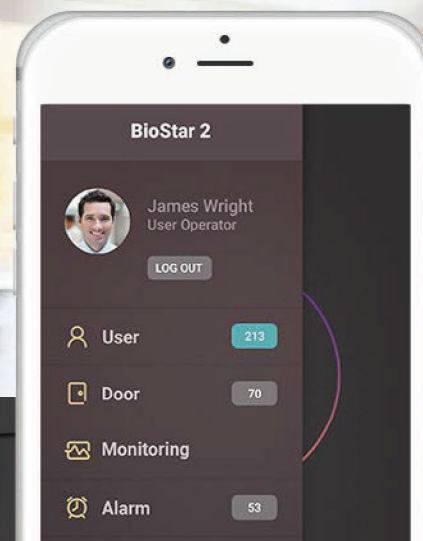
System Topology



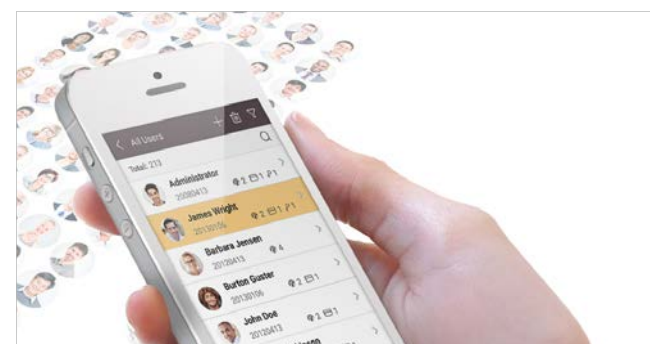
Specifications

		Basic Edition	Standard Edition
System	License	Free	S/W license
	Type	Web-server	Web-server
	OS	Windows	Windows
	Client	Web Browser(Chrome, IE)	Web Browser(Chrome, IE)
	Max. Client	100	100
	Database	SQLite	SQLite
	Server Auto Update	Yes	Yes
Device	Cloud	Yes	Yes
	Max. Device	1,000	1,000
	Max. Slave per Master(RS485)	31 (Up to 8 Fingerprint Device)	31 (Up to 8 Fingerprint Device)
	RS485 Protocol	OSDP Supported	OSDP Supported
	Multi Door Control	Yes	Yes
	Device Admin Level	All/User Config Admin	All/User Config Admin
	Auto Reconnection to Server	Direct & Server Mode	Direct & Server Mode
User	USB Enrollment Device	BioMini	BioMini
	Max. Card per User	8	8
	Max. Fingerprint per User	10	10
	Auto User Sync to Device	Yes	Yes
	Access on Card	Yes	Yes
Access Group	Secure Credential	Yes	Yes
	Max. Access Level	128	128
	Max. Access Group	128	128
	Max. Access Group per User	16	16
	Auto Access Group Sync to Device	Yes	Yes
Zone	Max. Zone	-	100
	Max. Device per Zone	-	1,000 Global, 32 Local
	Anti-passback	Single Door APB	Global, Local
	Fire Alarm	-	Global, Local
	Scheduled Unlock/Lock	-	Yes
Advanced	Dashboard	Yes	Yes
	Server Matching	-	Yes
	BioStar Mobile App Support	Yes (User,Door,Monitoring, Alarm)	Yes (User,Door,Monitoring, Alarm)

BioStar 2 Mobile

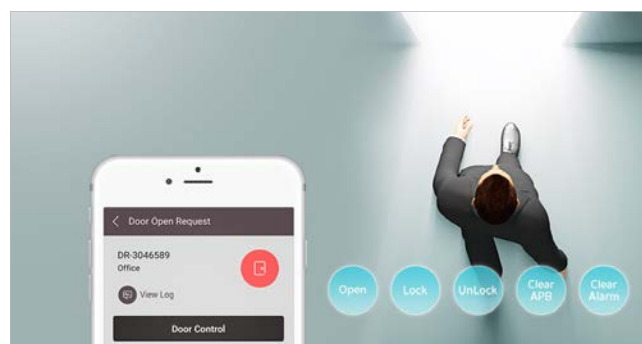


BioStar 2 Mobile app gives administrators and operators the freedom to manage BioStar 2 anywhere. The Mobile app developed from BioStar 2 API.



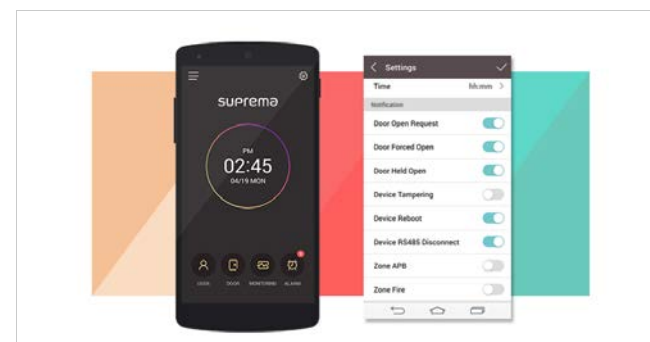
Manage Users on the Fly

Administrators can easily add, edit or remove users remotely through the app. The app will also control any installed device on the network to capture new user's biometric data.



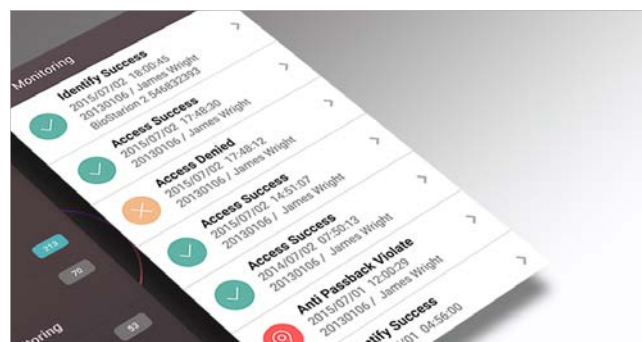
Control Doors Remotely

BioStar 2 Mobile App allows administrators to control the door remotely on their mobile device. It allows admin to respond to any request without being tied to their desk.



Live notifications

Receive live notification and respond to requests or alarms quickly without accessing BioStar 2 via client. Following events can be notified through the mobile app.



Real-time Monitoring

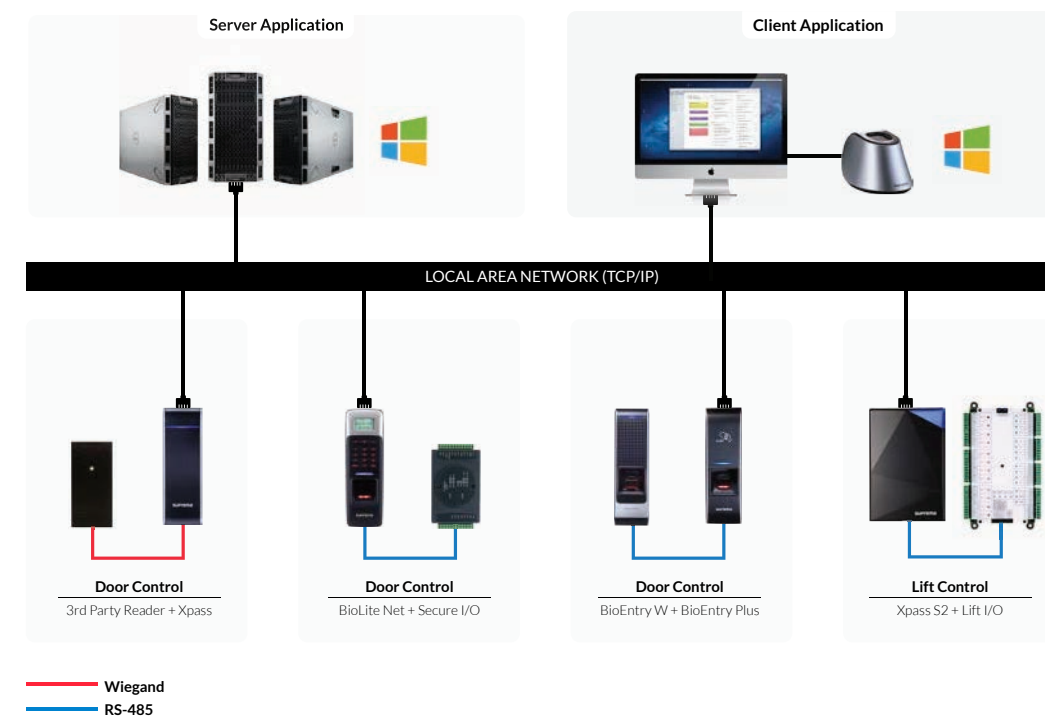
Monitor current system activities anywhere through the app and track system status. Filter is provided to efficiently sort data for follow up on past activities.

BioStar 1

IP Access Control and Time and Attendance Software

BioStar is a comprehensive access control and time and attendance management software featuring TCP/IP based system architecture with intelligent IP devices and terminals. It supports a wide range of third-party devices and integration with other business systems. It is the optimal solution that results in cost reduction and flexibility in design.

System Topology



List of Compatible Devices & Accessories

- FaceStation
- BioStation T2
- BioStation
- BioLite Net
- BioEntry W
- BioEntry Plus
- X-Station
- Xpass S2
- Xpass
- BioMini
- Secure I/O
- Lift I/O

Software Editions

Basic Edition (BE)

Basic Edition is an ideal solution for small to medium sized enterprises. The software covers up to 20 devices and supports integration with various database systems, event monitoring, T&A management and reporting features.

Standard Edition (SE)

Standard Edition offers powerful and comprehensive access control features for full scale applications. Standard Edition controls up to 512 access control devices with IP camera/ NVR integration, anti-passback, muster zone, e-mail notification and visual maps.

Specifications

		Basic Edition	Standard Edition
System	License	Free	USB Dongle
	System Architecture	Client/Server	Client/Server
	Operating System	Windows	Windows
	DB	MSSQL, MySQL, Oracle	MSSQL, MySQL, Oracle
	Server Matching	-	Yes
	Max Device	20	512
	User Import/Export	USB,CSV	USB,CSV
	Concurrent Client PC	2	32
	Access Control	Time Schedule	128
Access Group/Level		128	128
Max Access Group per User		4	4
Max. Fingerprint per User		5 to 10	5 to 10
Max. Doors		20	512
Template on Card		Yes	Yes
Device Administrator		User property	User property
Zone		-	APB, Entrance limit, Alarm, Access, Fire alarm, Muster
Email Notification		-	Yes
Roll Call		-	Yes
Visual Map		-	Yes
Event Monitoring		Yes	Yes
IP Camera		-	Yes
NVR Integration		-	Yes
Lift Management	-	Yes	
Time Attendance	Work Time Calculation	Yes	Yes
	Holiday/Leave Management	Yes	Yes
	Report	Yes	Yes
	In/Out Board	-	Yes

Suprema Devices

Biometric Devices



RFID Devices

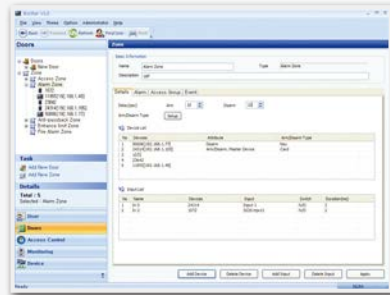


Accessories



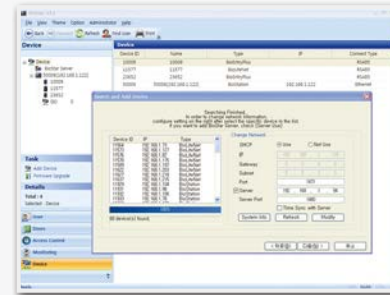
Advanced Access Control

BioStar SE offers key features that allow users to extend the system beyond conventional access control. BioStar SE supports advanced access control zones and a powerful visual map, and lift management for control of up to 120 floors. Camera Integration provides visual log capabilities for a convenient merger of video surveillance and access control.



Zone Management

- Fire alarm, alarm, anti-passback, entrance limit, interlock, muster and access zones
- Controls up to 32 advanced zones
- Customizable alarm settings for each zones
- View event log for selected zones



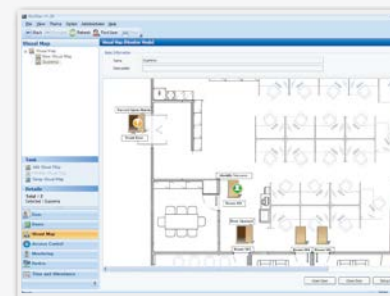
Device Management

- Configure access control devices & I/O peripherals
- Server matching (Biometric matching on the server)
- Real-time monitoring of device connection
- Wizard-type device search interface
- Easy firmware upgrade and reset



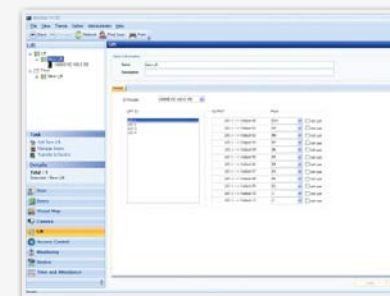
IP Camera & NVR Integration

- Real-time video monitoring
- Still image capturing
- Control of PTZ cameras
- Video log search through NVR



Visual Map Interface

- Graphical representation of the system
- Device/door settings modifications from the map
- Real-time monitoring on the map
- Event notifications in graphic icons
- Monitoring interface for doors and zones

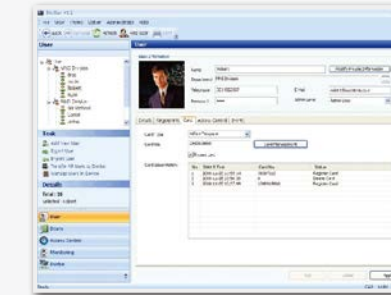


Lift Management

- Control up to 120 floors
- Configurable per floor and user
- Dedicated Lift I/O module support

Time and Attendance Features

BioStar SE includes features that allow administrators to define time categories, shifts, daily schedules and zones holidays. BioStar SE can administer employees to comply with check-in and check-out procedures, restrict access to off-duty personnel and generate attendance report. BioStar SE's Time & Attendance features also give administrators the ability to generate a variety of reports.



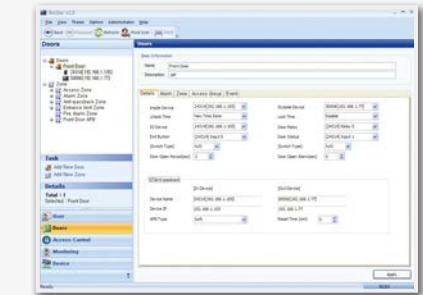
Work Hour Calculation

- User-defined time category configurations
- Daily working schedule configuration
- Overtime calculation
- Rounding & Grace



Shift, Holiday & Leave Management

- Daily and Weekly cycle scheduling
- Multiple shift rules per user
- Holiday Schedule configurable per group
- Leave schedule configurable per user

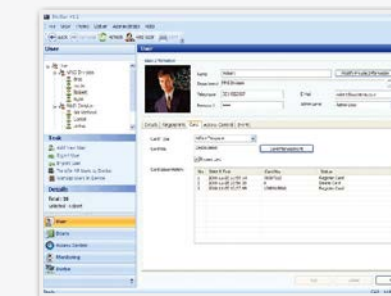


Reporting / Monitoring

- Daily/Individual summary and report
- Report by TA result (such as absence or late)
- Work hour displayed by time category
- CSV Export capability
- Real-time monitoring by T&A event

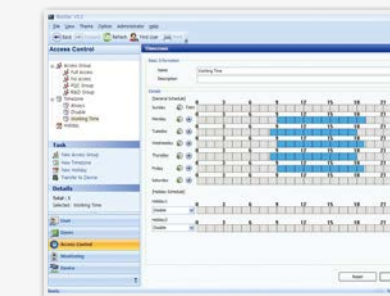
Distributed IP Access Control

BioStar is Suprema's access control system based on IP connectivity and biometric security. Suprema devices work not only as a reader for multiple types of credentials, but also as an intelligent controller removing the need for a traditional controller.



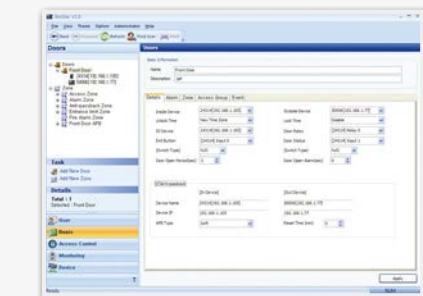
User Management

- Four department levels
- Intuitive user search interface
- Multi-level administrator settings
- Customized authentication mode per user
- Biometric and card credentials



Access Control

- Control up to 128 access groups
- Control up to 128 time schedules
- Up to 32 configurable holidays



Door Management

- Four door group levels
- Control up to 512 doors
- Alarm features for each door








FaceStation

Smart Face Recognition Terminal

FaceStation perfectly combines beauty and performance. By providing contactless authentication at near real-time matching speeds, FaceStation offers unmatched user convenience and enhanced security synonymous with biometrics. It is ideal for applications that require convenient & secure authentication and can be used in either standalone or network environments.



Key Features

-  Suprema Face Recognition Algorithm
-  Fake Face Detection
-  Intuitive UI
-  Versatile Interface
-  Videophone Capability

Specifications

Capacity	Max User	10,000 (1:1) 1,000 (1:N)
	Max Template	250,000 (1:1) 25,000 (1:N)
	Max Log	1,000,000 (Text) 5,000 (Image)
Interface	Comm.	TCP/IP, RS485, RS232, USB
	Wiegand	1ch In or Out
	Input / Output	4 TTL Inputs 2 Relays
H/W	CPU	667MHz RISC + 1.1GHz DSP
	Memory	512MB RAM + 4GB Flash
	LCD	4.3" Color Touch
	Operating Temp.	-20° to 40°C
	Power	12 VDC, PoE (Optional)
	Dimensions	132 x 165 x 60 mm (W x H x D)

※Compatible S/W : BioStar 1 Only

Model Line up

Model No.	FSM	FSM-PoE
Compatible S/W	BioStar 1	BioStar 1
Card Type	13.56MHz Mifare/Desfire	13.56MHz Mifare/Desfire
PoE	-	Y



NEW







BioStation A2

High Performance IP Fingerprint Terminal

Fingerprint Access Control and Time Attendance Terminal Suprema BioStation A2 is the most advanced fingerprint access control and time attendance terminal featuring Suprema's next generation biometric technology and security platform. BioStation A2 provides class-leading performance through the World's best matching performance, uncompromised security and accuracy along with top-notch usability.



Key Features

-  World's Fastest Performance
-  Improved Accuracy & Security
-  Expanded Capacity
-  Live Finger Detection
-  Versatile Interface
-  Power-over-Ethernet Support

Specifications

Capacity	Max User	500,000(1:1) 100,000 (1:N)
	Max Template	1,000,000(1:1) 200,000(1:N)
	Max Log	5,000,000(Text) 50,000(Image)
Interface	Comm.	TCP/IP, RS485, RS232, USB, WiFi
	Wiegand	1ch In and 1ch Out
	Input / Output	2 TTL Inputs 1 Relay
H/W	CPU	1.0 GHz Quad Core
	Memory	1GB RAM + 8GB Flash
	LCD	5.0" IPS LCD Touch
	Operating Temp.	-20° to 50°C
	Power	12 VDC, PoE
	Dimensions	155 x 155 x 40 mm (W x H x D)

※ Compatible S/W : BioStar 2 Only

Model Line up

Model No.	BSA2-OMPW	BSA2-OIPW	BSA2-OHPW	BSA2-OEPW
Compatible S/W	BioStar 2	BioStar 2	BioStar 2	BioStar 2
Card Type	13.56MHz Mifare/DESFire/ DESFire EV1/ Felica/ NFC	13.56MHz iCLASS SE	125KHz HID Prox	125KHz EM
Wi-Fi	Y	Y	Y	Y
PoE	Y	Y	Y	Y



BioStation T2

High Performance IP Fingerprint Terminal

BioStation T2 not only leverages a state-of-the-art device platform to provide an immense variety of features in a single device, but also takes advantage of Suprema's world renowned fingerprint technology to ensure speed and accuracy. It is ideal for applications that require a powerful & reliable hardware and an extensive feature set with a convenient user interface.



Key Features

- Suprema Fingerprint Technology
- Intuitive UI
- Face Detection
- Powerful Dual-CPU Architecture
- Videophone Capability
- Power-over-Ethernet Support

Specifications

Capacity	Max User	200,000 (1:1) 10,000 (1:N)
	Max Template	400,000 (1:1) 20,000 (1:N)
	Max Log	1,000,000 (Text) 5,000 (Image)
Interface	Comm.	TCP/IP, RS485, RS232, USB
	Wiegand	1ch In or Out
	Input / Output	4 TTL Inputs 2 Relays
H/W	CPU	667MHz RISC + 533MHz DSP
	Memory	256MB RAM + 1GB Flash
	LCD	5.0" Color Touch
	Operating Temp.	-20° to 50°C
	Power	12 VDC, PoE
	Dimensions	155 x 155 x 40 mm (W x H x D)

※Compatible S/W : BioStar 1 Only

Model Line up

Model No.	BST2R-OC	BST2M-OC
Compatible S/W	BioStar 1	BioStar 1
Card Type	125KHz EM	13.56 MHz Mifare/Desfire
PoE	Y	Y



BioStation 2

Ultra Performance IP Fingerprint Terminal

BioStation 2 incorporates the latest Suprema technology in a beautiful exterior. It combines a new powerful processor, Suprema's next generation optical sensor and improved fingerprint sensing & capturing algorithm to offer unrivaled performance. BioStation 2 provides users with instant authentication and rapid data transfer to manage high volume data with ease. It is ideal for applications that requires versatility without compromise in style and performance.



Key Features

- Instant Matching & Authentication
- Rapid Data Transfer
- Expanded Memory Capacity
- IP65 Certified dust and Water Protection
- Versatile Interface
- Power-over-Ethernet Support

Specifications

Capacity	Max User	500,000(1:1) 20,000 (1:N)
	Max Template	1,000,000(1:1) 40,000(1:N)
	Max Log	3,000,000
Interface	Comm.	TCP/IP, RS485, RS232, USB, WiFi
	Wiegand	1ch In and 1ch Out
	Input / Output	2 Inputs 2 Output 1 Relay
H/W	CPU	1.0 GHz
	Memory	128MB RAM + 8GB Flash
	LCD	2.8" Color
	Operating Temp.	-20° to 50°C
	Power	12 VDC, PoE
	Dimensions	142 x 144 x 45 mm (W x H x D)

※ Compatible S/W : BioStar 2 Only

Model Line up

Model No.	BS2-OEPW	BS2-OMPW	BS2-OHPW	BS2-OIPW
Compatible S/W	BioStar 2	BioStar 2	BioStar 2	BioStar 2
Card Type	125KHz EM	13.56MHz Mifare/DESFire/DESFire EV1/Felica/NFC	125KHz HID Prox	13.56MHz iClass/iClass SE
Wi-Fi	Y	Y	Y	Y
PoE	Y	Y	Y	Y



BioStation

Full-featured IP Fingerprint Terminal

BioStation incorporates many fundamental features into a single reliable hardware platform. Its simple user interface allows users to effortlessly interact with the device and its large memory capacity provides storage for a large amount of data. It is the ideal cornerstone of any system requiring fingerprint technology and can be used in either a standalone or network environment.



Key Features

- Suprema Fingerprint Technology
- Interactive UI
- Dual-CPU Architecture
- Large Memory Capacity
- Versatile Interface
- Interphone

Specifications

Capacity	Max User	200,000 (1:1) 10,000 (1:N)
	Max Template	400,000 (1:1) 20,000 (1:N)
	Max Log	1,000,000 (Text)
Interface	Comm.	TCP/IP, RS485, RS232, USB
	Wiegand	1ch In and 1ch Out
	Input / Output	2 TTL Inputs 1 Relay
H/W	CPU	200MHz RISC + 533MHz DSP
	Memory	34MB RAM + 1GB Flash
	LCD	2.5" Color
	Operating Temp.	-20° to 50°C
	Power	12VDC
	Dimensions	135 x 128 x 50 mm (W x H x D)

※Compatible S/W : BioStar 1 Only

Model Line up

Model No.	BST-OC	BSR-OC	BSH-OC	BSM-OC
Compatible S/W	BioStar 1	BioStar 1	BioStar 1	BioStar 1
Card Type	-	125KHz EM	125KHz HID	13.56MHz Mifare/Desfire



NEW

BioStation L2

IP Fingerprint Access Control & Time Attendance Terminal

Suprema BioStation L2 is an essential fingerprint terminal that provides comprehensive access control and time attendance features based on Suprema's next generation biometric technology and security platform. Designed for all type of time-attendance applications, BioStation L2 provides exceptional value by combining World's best Suprema fingerprint algorithm, high performance and enhanced security features.



Key Features

- Best-in-class Performance
- Improved Accuracy & Security
- Expanded Capacity
- Rapid Data Transfer
- Live Finger Detection
- Interactive GUI

Specifications

Capacity	Max User	500,000(1:1) 100,000 (1:N)
	Max Template	1,000,000(1:1) 200,000(1:N)
	Max Log	1,000,000 (Text)
Interface	Comm.	TCP/IP, RS485
	Wiegand	1ch In or Out
	Input / Output	1TTL Inputs 1 Relay
H/W	CPU	1.2 GHz Quad Core
	Memory	256MB RAM + 2GB Flash
	LCD	2.0" TFT LCD
	Operating Temp.	-20° to 50°C
	Power	12VDC
	Dimensions	71 x 201 x 44 mm (W x H x D)

※ Compatible S/W : BioStar 2 Only

Model Line up

Model No.	BSL2-OE	BSL2-OM
Compatible S/W	BioStar 2	BioStar 2
Card Type	125KHz EM	13.56MHz Mifare/ DESFire/ DESFire EV1/ Felica/ NFC



BioLite Net

Smart Outdoor IP Fingerprint Terminal

BioLite Net is a compact IP fingerprint terminal that has been designed to fit on a mullion mount. BioLite Net's IP65 rating for protection against dust and water makes it suitable for both indoor & outdoor use and its simple user interface allows for quick easy access to the device. It is ideal for applications that require basic user interaction and a variety of installation environments.



BioEntry W

Smart Outdoor IP Fingerprint Device

BioEntry W is a robust high performance fingerprint access control device designed to provide 3-way protection against dust, water and vandalism. BioEntry W also has Power-over-Ethernet capabilities giving it the perfect edge for easy installation. It is ideal for applications that require fingerprint technology and can be used with a variety of installation environments.



Key Features

- Suprema Fingerprint Technology
- Sleek Unobtrusive Design
- Environment Protection (IP65)
- Interactive UI
- Versatile Interface

Specifications

Capacity	Max User	5,000 (1:1) 5,000 (1:N)
	Max Template	10,000 (1:1) 10,000 (1:N)
	Max Log	50,000 (Text)
Interface	Comm.	TCP/IP, RS485
	Wiegand	1ch In or Out
	Input / Output	2 TTL Inputs 1 Relay
H/W	CPU	533MHz DSP
	Memory	16MB RAM + 8MB Flash
	LCD	1.35" B/W
	Operating Temp.	-20° to 50°C
	Power	12 VDC
	Dimensions	60 x 185x 40 mm (W x H x D)

※Compatible S/W : BioStar 1, BioStar 2

Key Features

- Suprema Fingerprint Technology
- Sleek Unobtrusive Design
- Environment protection (IP65)
- Vandal Resistant Housing (IK08)
- Versatile Interface
- Power-over-Ethernet Support

Specifications

Capacity	Max User	5,000(1:1) 5,000 (1:N)
	Max Template	10,000(1:1) 10,000(1:N)
	Max Log	50,000 (Text)
Interface	Comm.	TCP/IP, RS485
	Wiegand	1ch In or Out
	Input / Output	2 TTL Inputs 1 Relay
H/W	CPU	533MHz DSP
	Memory	8MB RAM + 8MB Flash
	LCD	-
	Operating Temp.	-20° to 50°C
	Power	12VDC, PoE
	Dimensions	50 x 172 x 42 mm (W x H x D)

※Compatible S/W : BioStar 1, BioStar 2

Model Line up

Model No.	BLR-OC	BLR-OC-V2	BLN-OC	BLN-OC-V2
Compatible S/W	BioStar 1	BioStar 2	BioStar 1	BioStar 2
Card Type	125KHz EM	125KHz EM	13.56MHz Mifare/Desfire	13.56MHz Mifare/Desfire
IP65	Y	Y	Y	Y

Model Line up

Model No.	BEWM-OC	BEWM-OC-V2	BEWH-OC	BEWH-OC-V2	BEWI-OC	BEWI-OC-V2
Compatible S/W	BioStar 1	BioStar 2	BioStar 1	BioStar 2	BioStar 1	BioStar 2
Card Type	13.56MHz Mifare/Desfire	13.56MHz Mifare/Desfire	125KHz HID	125KHz HID	13.56MHz iClass	13.56MHz iClass
IP65	Y	Y	Y	Y	Y	Y
PoE	Y	Y	Y	Y	Y	Y



BioEntry Plus

Smart IP Fingerprint Device

BioEntry Plus exquisitely blends the benefits of an IP access control system with the added security provided by biometrics. It is the base of Suprema's IP fingerprint product line and a good indoor solution to any system requiring fingerprint technology.



Key Features

- IP Access Control
- Suprema Fingerprint Technology
- Sleek Unobtrusive Design
- Versatile Interface

Specifications

Capacity	Max User	5,000 (1:1) 5,000 (1:N)
	Max Template	10,000 (1:1) 10,000 (1:N)
	Max Log	50,000 (Text)
Interface	Comm.	TCP/IP, RS485
	Wiegand	1ch In or Out
	Input / Output	2 TTL Inputs 1 Relay
H/W	CPU	533MHz DSP
	Memory	8MB RAM + 8MB Flash
	LCD	-
	Operating Temp.	-20° to 50°C
	Power	12VDC
	Dimensions	50 x 160 x 37 mm (W x H x D)

※Compatible S/W : BioStar 1, BioStar 2

Model Line up

Model No.	BEPL-OC	BEPL-OC-V2	BEPM-OC	BEPM-OC-V2	BEPH-OC	BEPH-OC-V2	BEPI-OC	BEPI-OC-V2
Compatible S/W	BioStar 1	BioStar 2	BioStar 1	BioStar 2	BioStar 1	BioStar 2	BioStar 1	BioStar 2
Card Type	125KHz EM	125KHz EM	13.56MHz Mifare/Desfire	13.56MHz Mifare/Desfire	125KHz HID	125KHz HID	13.56MHz iClass	13.56MHz iClass



X-Station

Smart IP RFID Terminal

X-Station is a formidable device that combines a vast array of components into a slim form factor. X-Station's 3.5" touchscreen LCD provides the perfect interface to an intuitive UI and its camera, speaker and microphone allows for advanced features such as Face Detection and Videophone capabilities. It is a versatile product that can be used in a variety of applications.



Key Features

- Intuitive UI
- Face Detection
- Large Memory Capacity
- Versatile Interface
- Videophone Capability

Specifications

Capacity	Max User	200,000
	Max Template	-
	Max Log	1,000,000 (Text) 5,000 (Image)
Interface	Comm.	TCP/IP, RS485
	Wiegand	1ch Host and Slave
	Input / Output	2 TTL Inputs 1 Relay
H/W	CPU	667MHz RISC
	Memory	128MB RAM + 1GB Flash
	LCD	3.5" Color touch
	Operating Temp.	-20° to 50°C
	Power	12VDC
	Dimensions	79 x 135 x 21 mm (W x H x D)

※Compatible S/W : BioStar 1 Only

Model Line up

Model No.	XSE	XSM
Compatible S/W	BioStar 1	BioStar 1
Card Type	125KHz EM	13.56MHz Mifare/DesFire



Xpass S2

Ultra Slim Smart IP RFID Device

Xpass S2 effortlessly combines key features of a traditional access control system in a ultra slim form factor and is a cornerstone in Suprema's distributed IP access control system. Xpass S2 is designed to withstand a wider temperature range and can read multiple smartcard technologies making it an ideal product for harsh weather environments.



Xpass

Smart IP RFID Device

Xpass effortlessly combines key features of a traditional access control system in a compact form factor and is a cornerstone in Suprema's distributed IP access control system. Xpass can be used in both indoor and outdoor environments and the Power-over-Ethernet connection allows for quick and easy installation.



Key Features

- IP Access Control
- Multi-Smartcard Reader
- Environment protection (IP65)
- Ultra Slim Design
- Adaptive Temperature Control
- Versatile Interface

Specifications

Capacity	Max User	50,000
	Max Template	1,000 (Supported in BioStar 2 Only)
	Max Log	100,000 (Text)
Interface	Comm.	TCP/IP, RS485
	Wiegand	1ch In or Out
	Input / Output	2 TTL Inputs 1 Relay
H/W	CPU	533MHz DSP
	Memory	16MB RAM + 16MB Flash
	LCD	-
	Operating Temp.	-35° to 65°C
	Power	12VDC
	Dimensions	80 x 120 x 11.4 mm (W x H x D)

※Compatible SW : BioStar 1, BioStar 2

Key Features

- IP Access Control
- Sleek Unobtrusive Design
- Environment protection (IP65)
- Versatile Interface
- Power-over-Ethernet Support

Specifications

Capacity	Max User	40,000
	Max Template	-
	Max Log	50,000 (Text)
Interface	Comm.	TCP/IP, RS485
	Wiegand	1ch In or Out
	Input / Output	2 TTL Inputs 1 Relay
H/W	CPU	533MHz DSP
	Memory	16MB RAM + 8MB Flash
	LCD	-
	Operating Temp.	-20° to 50°C
	Power	12VDC, PoE (Optional)
	Dimensions	45 x 130 x 27 mm (W x H x D)

※Compatible SW : BioStar 1, BioStar 2

Model Line up

Model No.	XPS2M	XPS2M-V2	XPS2M-WH	XPS2M-WH-V2
Compatible S/W	BioStar 1	BioStar 2	BioStar 1	BioStar 2
Card Type	13.56MHz Mifare/DesFire, Felica	13.56MHz Mifare/DesFire, Felica	13.56MHz Mifare/DesFire, Felica	13.56MHz Mifare/DesFire, Felica
IP65	Y	Y	Y	Y
Color	Black	Black	White	White

Model Line up

Model No.	XPE	XPE-V2	XPE-PoE	XPE-PoE-V2	XPM	XPM-V2	XPM-PoE	XPM-PoE-V2	XPH	XPH-V2	XPH-PoE	XPH-PoE-V2
Compatible S/W	BioStar 1	BioStar 2	BioStar 1	BioStar 2	BioStar 1	BioStar 2	BioStar 1	BioStar 2	BioStar 1	BioStar 2	BioStar 1	BioStar 2
Card Type	125KHz EM	125KHz EM	125KHz EM	125KHz EM	13.56MHz Mifare/DesFire	13.56MHz Mifare/DesFire	13.56MHz Mifare/DesFire	13.56MHz Mifare/DesFire	125KHz HID Prox	125KHz HID Prox	125KHz HID	125KHz HID
IP65	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PoE	-	-	Y	Y	-	-	Y	Y	-	-	Y	Y



Secure I/O 2

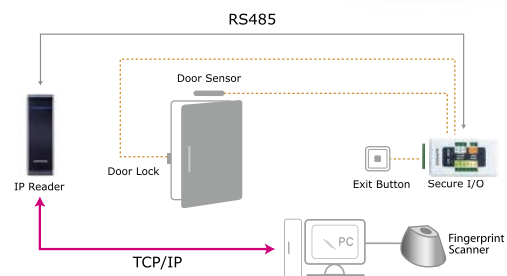


Compact Secure One Door I/O Module

Secure I/O 2 provides secure door control via encrypted communication when combined with other Suprema devices. Its ultra-compact form factor allows for use in a variety of installation environments.

Interface	Comm.	RS485
	Inputs	2x TTL
	Relay	1x Form C
H/W	Power	12 VDC(100 mA)
	Operating Temp.	-20° to 60°C
	Dimensions	36 x 65 x 18 mm (W x H x D)

※ Compatible S/W : BioStar 2 Only



Secure I/O

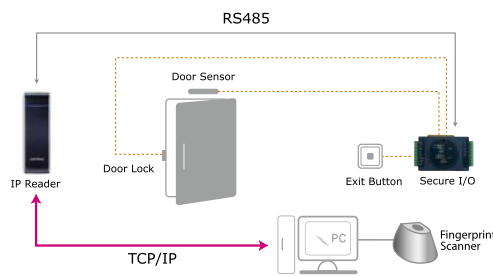


Secure I/O Expansion Module

Secure I/O provides secure door control as well as I/O expansion via encrypted communication when combined with other Suprema devices.

Interface	Comm.	RS485
	Inputs	4x TTL
	Relay	2x Form C
H/W	Power	12 VDC(500 mA)
	Operating Temp.	-20° to 50°C
	Dimensions	142.5 x 81.9 x 39 mm (W x H x D)

※ Compatible S/W : BioStar 1 Only



DM-20

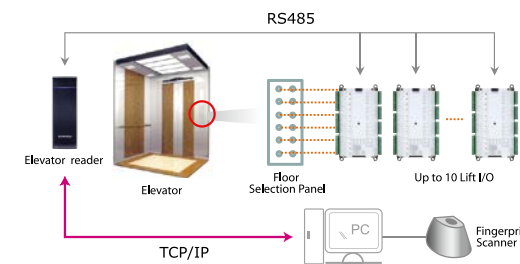
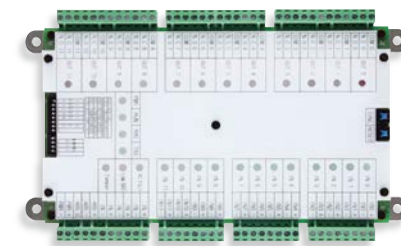


Secure Two Door I/O Module

DM-20 provides secure door control of up to two doors via encrypted communication and also contains two wiegand reader interfaces for use with 3rd party readers. A wide variety of I/O interfaces allows DM-20 to be a part of diverse system configurations.

Interface	Comm.	RS485
	Input	TTL Input X 6 Supervised Input X 2
	Output	TTL Output X 6
H/W	Relay	4x Form C
	Wiegand	In/Out X 2
	Reader Power output	750mA(12V) x2
	Power	12V
	Operating Temp.	-20°C to 60°C
	Dimensions	120 x 70 x 36 mm (W x H x D)

※ Compatible S/W : BioStar 2 Only



Lift I/O



Secure Floor Access Control I/O Module

Lift I/O is purpose built expansion module designed for elevator floor access control. Combined with a Suprema device and BioStar software, a single module can securely control up to 12 floors via encrypted connection. Lift I/O can be linked in daisy chain configuration up to 10 devices for control of 120 floors.

Interface	Comm.	RS485
	Inputs	12x TTL
	Relay	12x Form C
H/W	Power	12 VDC
	Operating Temp.	-20° to 50°C
	Dimensions	140 x 240 x 32 mm (W x H x D)

※ Compatible S/W : BioStar 1 Only

BioMini



USB Fingerprint Enrollment Device

BioMini provides system operators the ability to enroll fingerprints from any PC running a BioStar Client.

Sensor	Optical (IP65 sensor surface)
Resolution	500 DPI/ 256 grey
Sensing Area	16 x 18mm
Image Size	288 x 320 pixels
Interface	USB 2.0 High Speed
Operating Temp.	-10° to 50°C
Dimensions	66 x 90 x 58 mm (W x H x D)

※ Compatible S/W : BioStar 1, BioStar 2



USB Card Writer

USB MiFare reader / writer

USB Card Writer that can simplify Smartcard registration.

Main	RF Option	13.56 Mhz MiFare
Interface	Comm.	USB 2.0
	Power	5 VDC (200mA)
H/W	Operating Temp.	-20° to 60°C
	Dimensions	68 X 120 X 30 mm (W x H x D)

※ Compatible S/W : BioStar 1 Only

Hardware Specification

Category	Feature	FaceStation	BioStation A2	BioStation T2	BioStation 2	BioStation
Suprema Device Portfolio						
Main	Biometric	Face	Fingerprint	Fingerprint	Fingerprint	Fingerprint
	IP Rating	-	-	-	IP65	-
	RF Option	13.56MHz Mifare/DesFire	13.56MHz Mifare/DesFire /DesFire EV1/Felica/NFC 13.56MHz iClass SE	125KHz EM 13.56MHz Mifare/DesFire	125KHz EM 125KHz HID Prox 13.56MHz Mifare/DesFire /DesFire EV1/Felica/NFC 13.56MHz iClass SE	125KHz EM 125KHz HID Prox 13.56MHz Mifare/DesFire
Capacity	Max User (1:1)	10,000	500,000	200,000	500,000	200,000
	Max User (1:N)	1,000	100,000	10,000	20,000	10,000
	Max Template (1:1)	250,000	1,000,000	400,000	1,000,000	400,000
	Max Template (1:N)	25,000	200,000	20,000	40,000	20,000
	Max Text Log	1,000,000	5,000,000	1,000,000	3,000,000	1,000,000
	Max Image Log	5,000	50,000	5,000	-	-
Interface	WiFi	Optional	Yes(Built-in)	Optional	Yes(Built-in)	Optional
	TCP/IP	Yes	Yes	Yes	Yes	Yes
	RS-485	1ch Host and 1ch Slave	1ch Host and 1ch Slave	1ch Host and 1ch Slave	1ch Host or Slave	1ch Host or Slave
	RS-232	Yes	-	Yes	Yes	Yes
	Wiegand	1ch In or Out	1ch In and Out	1ch In or Out	1ch In and 1ch Out	1ch In and 1ch Out
	Input	4 Inputs	1 Inputs	4 Inputs	2 Inputs / 2 Outputs	2 Inputs
	Relay	2 Relays	2 Relays	2 Relays	1 Relays	1 Relays
	USB	Host and Slave	Host	Host and Slave	USB 2.0 (Host)	Host and Slave
Hardware	CPU	667MHz CPU + 1.1GHz DSP	1GHz Quad Core	667MHz CPU + 533MHz DSP	1.0GHz	200MHz CPU + 533MHz DSP
	Memory	512MBRAM + 4GB Flash	1GB RAM + 8GB Flash	256MB RAM + 1GB Flash	128MB RAM + 8GB Flash	34MB RAM + 1GB Flash
	LCD	4.3" Color Touch	5.0" Color Touch	5.0" Color Touch	2.8" Color LCD	2.5" Color
	LED Indicator	-	Multi-Color	Multi-Color	Multi-Color	Blue
	Sound	16-bit Hi-Fi	24-bit/Voice DSP	16-bit Hi-Fi	24-bit/Voice DSP	16-bit Hi-Fi
	Operating Temp.	-20° to 40°C	-20° to 50°C	-20° to 50°C	-20° to 50°C	-20° to 50°C
	Tamper	Yes	Yes	Yes	Yes	Yes
	Power	12VDC	12VDC	12VDC	12VDC	12VDC
	PoE	Optional	Yes	Yes	Yes	-
	Dimensions (W x H x D mm)	132 x 165 x 60	155 x 155 x 40	155 x 155 x 40	142 x 144 x 45	135 x 128 x 50
	Certificates	CE, FCC, KC, RoHS	CE, FCC, KC, RoHS	CE, FCC, KC, RoHS	CE, FCC, KC, RoHS	CE, FCC, KC, RoHS
Compatibility	BioStar 1	Yes	-	Yes	-	Yes
	BioStar 2	-	Yes	-	Yes	-

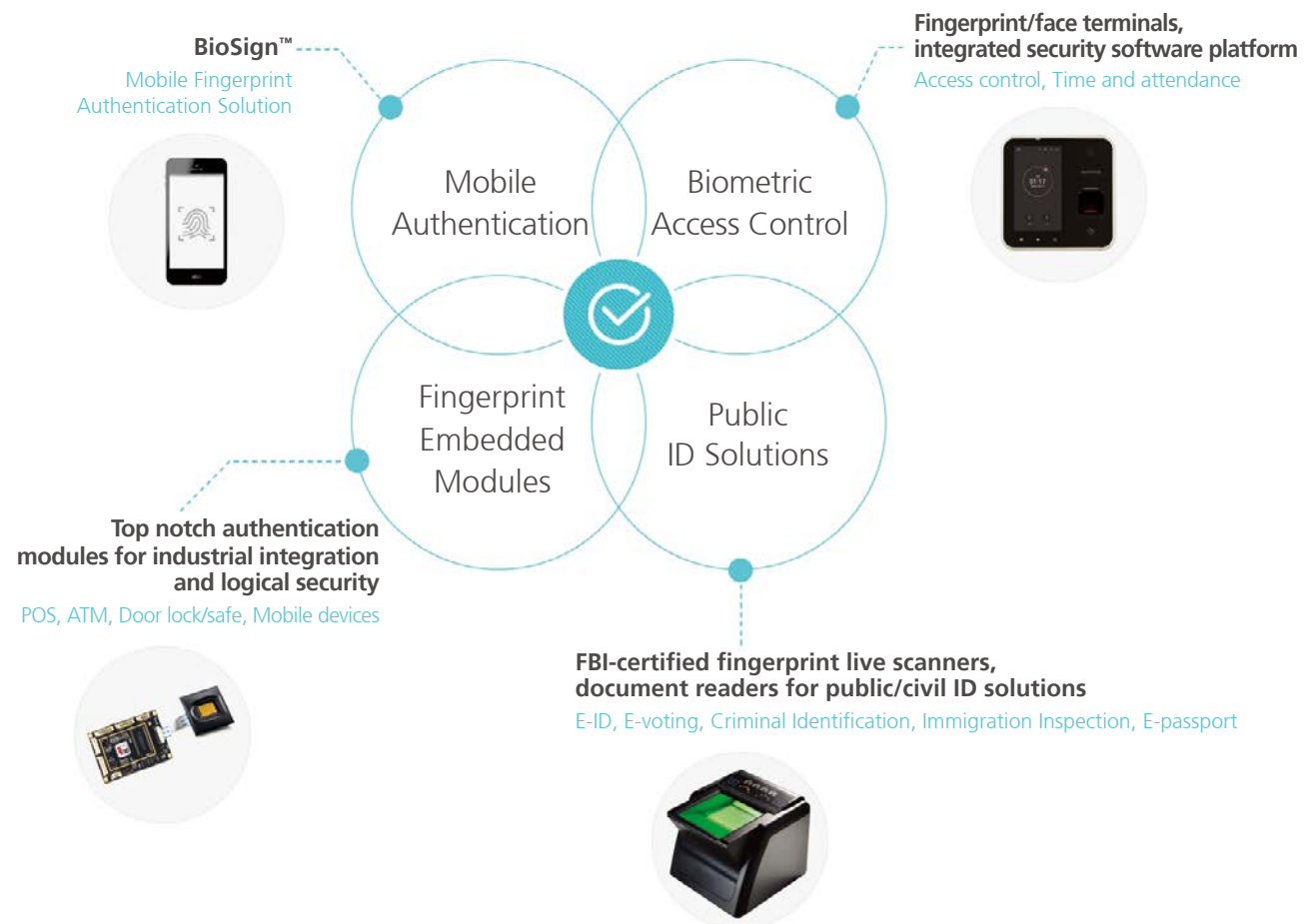
BioStation L2	BioLite Net	BioEntry W	BioEntry Plus	X-Station	Xpass	Xpass S2
						
Fingerprint	Fingerprint	Fingerprint	Fingerprint	-	-	-
-	IP65	IP65	-	-	IP65	IP65
125KHz EM 13.56MHz Mifare/DesFire/DesFire EV1/Felica/NFC	125KHz EM 13.56MHz Mifare/DesFire	125KHz HID Prox 13.56MHz Mifare/DesFire 13.56MHz iCLASS SE/Felica	125KHz EM 125KHz HID Prox 13.56MHz Mifare/DesFire 13.56MHz iCLASS	125KHz EM 13.56MHz Mifare/DesFire	125KHz EM 125KHz HID Prox 13.56MHz Mifare/DesFire	13.56MHz Mifare/DesFire/Felica
500,000	5,000	5,000	5,000	200,000	40,000	50,000
100,000	5,000	5,000	5,000	200,000	40,000	50,000
1,000,000	10,000	10,000	10,000	-	-	-
200,000	10,000	10,000	10,000	-	-	-
1,000,000	50,000	50,000	50,000	1,000,000	50,000	100,000
-	-	-	-	5,000	-	-
-	-	-	-	-	-	-
Yes	Yes	Yes	Yes	Yes	Yes	Yes
1ch Host or Slave	1ch Host or Slave	1ch Host or Slave	1ch Host or Slave	1ch Host and Slave	1ch Host or Slave	1ch Host or Slave
-	-	-	-	Yes	-	-
1ch In or Out	1ch In or Out	1ch In or Out	1ch In or Out	1ch In or Out	1ch In or Out	1ch In or Out
2 Inputs	2 Inputs	2 Inputs	2 Inputs	2 Inputs	2 Inputs	2 Inputs
1 Relay	1 Relay	1 Relay	1 Relay	1 Relay	1 Relay	1 Relay
-	-	-	-	-	-	-
1.2GHz Quad Core	533MHz DSP	533MHz DSP	533MHz DSP	667MHz RISC	533MHz DSP	533MHz DSP
256MB RAM + 2GB Flash	16MB RAM + 8MB Flash	8MB RAM + 8MB Flash	8MB RAM + 8MB Flash	128MB RAM + 1GB Flash	16MB RAM + 8MB Flash	16MB RAM + 16MB Flash
2" Color	128x64 Graphic LCD (Monochrome)	-	-	3.5" Color Touch	-	-
Multi-Color	Multi-Color	Multi-Color	Multi-Color	-	Multi-Color	Multi-Color
16-bit Hi-Fi	Multi-tone Buzzer	Multi-tone Buzzer	Multi-tone Buzzer	16-bit Hi-Fi	Multi-tone Buzzer	Multi-tone Buzzer
-20° to 50°C	-20° to 50°C	-20° to 50°C	-20° to 50°C	-20° to 50°C	-20° to 50°C	-35° to 65°C
Yes	Yes	Yes	Yes	Yes	Yes	Yes
12VDC	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC
-	-	Yes	-	-	Yes	-
71 x 201 x 44	60 x 185 x 40	50 x 172 x 42	50 x 160 x 37	79 x 135 x 21	45 x 130 x 27	80 x 120 x 11.4
CE, FCC, KC, RoHS	CE, FCC, KC, RoHS	CE, FCC, KC, RoHS	CE, FCC, KC, RoHS	CE, FCC, KC, RoHS	CE, FCC, KC, RoHS	CE, FCC, KC, RoHS
-	Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	-	Yes	Yes

Business Highlights

Company at a Glance

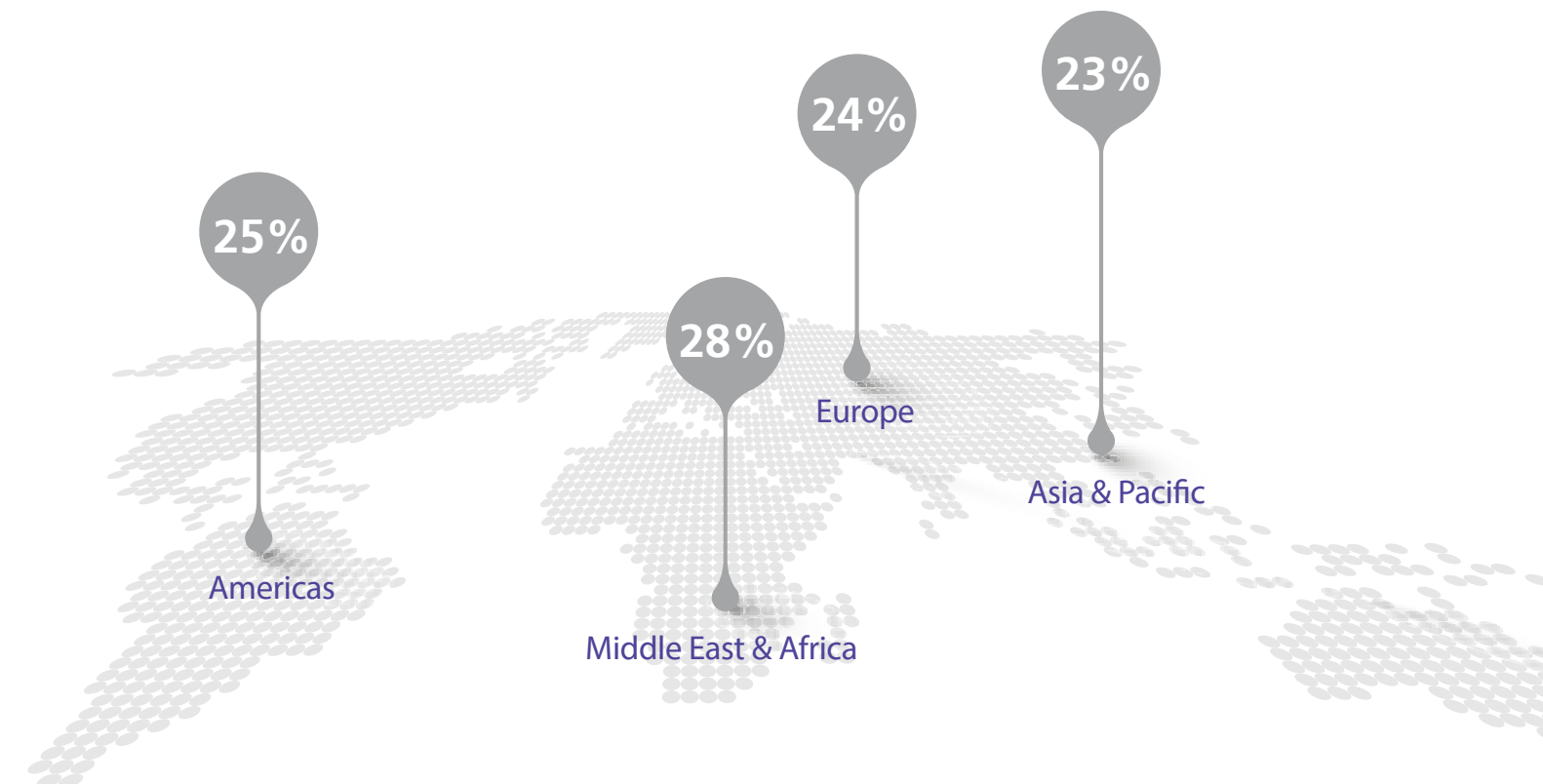
Headquarter	South Korea
Foundation	May 4, 2000
Business Area	Access Control and Time & Attendance Embedded Modules ID Scanners
Global Business	133 Countries worldwide over 1,000 customers (2014) Market Capital USD 436 Million (2014)
Growth	CAGR of 38% (2006-2014)
Financial Status	Listed company in South Korea's stock exchange (KOSDAQ)

Key Solutions & Technologies

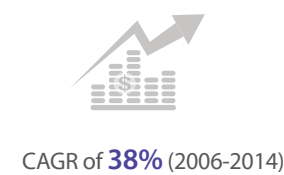


Global Sales

Stable revenue stream from over 950 Customers across 133 countries



Business Growth



Our Advantages

Technology

- World's best performing fingerprint algorithm
- Industry-leading international awards and certifications

Quality

- Manufactured by high quality IT production facilities in South Korea
- Made from top quality components and materials

Partnership

- Global partner program for training, technical support & upgrades
- Structured sales policy through authorized distribution channel

Vertical Market



- Kuwait National Petroleum Company, Kuwait
- Baltic Shipyard Factory, Estonia



- Karachi Airport, Pakistan
- Dubai Airport, UAE
- Teheran Metro, Iran



- Colombia National Police, Colombia
- Saudi Royal Council, Saudi Arabia



- Panorama Tower, USA
- Daiso Japan, Japan
- Hotel Alma Pamplona, Spain



- De Hoop ggz, Netherlands
- Argentina University Hospital, Argentina



- Carrefour, Turkey
- Tiffosi, Portugal
- ZARA, Venezuela



- Caixa Bank, Brazil
- Central Bank of the Philippines, Philippines



- King Saud University, Saudi Arabia
- Istanbul University of Turkey, Turkey

Awards



Company Related Awards

Host	Details
A&S international Magazine	World's Top 50 Security Company
Frost & Sullivan	Biometrics Company of the Year
Deloitte	Technology Fast 500
Forbes Asia	200 Best Under a Billion



Product Related Awards

Host	Awards
Detektor International	Innovative Achievement Award - FaceStation, BioStation Best Product Award - BioLite Net
Biometric System Laboratory	FVC, FVC Ongoing - Top Ranked
NIST	MINEX Test - Top Ranked
MIPS	Best Innovative Product Award - Access Control & Visitor Management
IFSEC International	AC Product of the Year Finalist - FaceStation, BioLite Net
ALL-OVER-IP	Best Product Award - BioEntry W



Company Related Certified

Certification	Type
ISO 14001 : 2004	Environmental Management
ISO 9001 : 2008	Quality Management

MEMO