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BioStar | IP Access Control Management System

BioStar is a comprehensive access control management software featuring efficient TCP/IP based system architecture with intelligent IP readers. It supports wide choice of third-party devices and integration with other business systems which makes it the best solution in cost-reduction and flexibility in design.

**BioStar Standard** | Integrated IP access control management software
BioStar SE offers powerful and comprehensive access control functionalities for large-sized organizations. SE version controls up to 512 access control device with IP camera/NVR integration, anti-passback, muster zone, e-mail notification and visual map features.

**BioStar Basic** | Essential IP access control management software for SME
BioStar Basic is ideal for small to medium sized enterprises. The system covers up to 20 devices and supports integration with various database systems, event monitoring, T&A management and reporting features.

**BioStar Lite** | Embedded web server
BioStar Lite is an entry level, web-based access control management software supporting up to 10 devices with one door anti-pass back. Simple user interface and synchronization with sub-devices makes system operation easier than ever.

**BioStar Mobile** | Smart phone applications
BioStar Mobile brings office access control to your hands. With various applications available in smart phones, you can immediately login to your system to manage users and access control settings at any time and any place.

### Advantages of IP Access Control System

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<td>Extra efficiency in powering locks and minor devices.</td>
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### System Configuration

#### TCP/IP

- **IP Camera**
- **NVR Integration**
- **Visual Map**
- **Email Notification**
- **Shift Management**
- **Holiday/Leave Management**
- **In/Out board**

#### Specification

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IP based Distributed Access Control

The BioStar system goes a step beyond conventional access control systems, by combining unique biometric identification with configurable access card capabilities. With its intuitive easy-to-use GUI and wizard type settings, BioStar provides comprehensive access control security for enterprise-level systems to small-to-medium sized systems.

User Management
- Supports 4-level departments
- User search interface
- Multi-level administrator settings
- Customized authentication mode by user
- Records user card issuance log

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

Visual Map Interface
- Graphical presentation of system
- Change device/door settings from the map
- Event notifications in graphic icons
- Monitoring interface for doors and zones

Device Management
- Configure access control devices & Secure I/O
- RS485 supports up to 8 devices & 6 Secure I/O’s
- Server matching
- Real-time monitoring of device connection
- Wizard-type device search interface
- Easy firmware upgrade and reset

Zone Management
- Fire alarm, alarm, anti-passback, entrance (and access zone
- Controls up to 32-device zones
- Alarm setting for selected zones
- View event log for selected zones
- Interlock zone

Door Management
- 4-level door groups
- Controls up to 312 doors
- Set alarm feature by selected doors

IP Camera & NVR Integration
- Real-time video monitoring
- Still image capturing upon preset events
- Supports event configuration with nominated access terminals
- Control of PTZ cameras
- Video log searching through NVR

Enterprise-level Time Attendance

BioStar includes time and attendance (T&A) features to allow administrators to define time categories, shifts, daily schedules, and holiday settings. The T&A capabilities of BioStar can be used to enforce compliance with check-in and check-out procedures, restrict access to off-duty personnel, and report attendance data. BioStar allows administrators to customize T&A functions and generate various kinds of attendance reports.

User Management
- Holiday schedule configurable by group
- Leave schedule configurable by user

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

Visual Map Interface
- Graphical presentation of system
- Change device/door settings from the map
- Event notifications in graphic icons
- Monitoring interface for doors and zones

Device Management
- Configure access control devices & Secure I/O
- RS485 supports up to 8 devices & 6 Secure I/O’s
- Server matching
- Real-time monitoring of device connection
- Wizard-type device search interface
- Easy firmware upgrade and reset

Zone Management
- Fire alarm, alarm, anti-passback, entrance (and access zone
- Controls up to 32-device zones
- Alarm setting for selected zones
- View event log for selected zones
- Interlock zone

Door Management
- 4-level door groups
- Controls up to 312 doors
- Set alarm feature by selected doors

IP Camera & NVR Integration
- Real-time video monitoring
- Still image capturing upon preset events
- Supports event configuration with nominated access terminals
- Control of PTZ cameras
- Video log searching through NVR

Work Hour Calculation
- User-defined time category configuration
- Daily working schedule configuration
- Overtime calculation
- Rounding
- Grace

Shift Management
- Daily and Weekly cycle scheduling
- Multiple shift rules by a user

In/Out Board
- Real-time monitoring by T&A event

Reporting
- Daily / Individual summary and report
- Report by TA result (such as absence or late)
- Work hour displayed by time category
- Export in CSV and PDF

Holiday and leave Management
- Holiday schedule configurable by group
- Leave schedule configurable by user
BioStar Lite | Embedded Web Server

BioStar Lite is an embedded web software pre-loaded in Suprema IP access control devices. BioStar Lite allows administrators to manage users and devices with a web browser in any PC. BioStar Lite provides loads of convenient features including device configuration, user management, door/zone settings and monitoring. Unlike most of other embedded web server systems, BioStar Lite supports networked access control systems up to 10 devices.

Features
- Convenient management of system in web-based application
- Not requiring installation of software and database to PC
- Supports network access control systems up to 10 devices
- Remote door control and anti-pass back

User Interface

BioStar Mobile | Smart Phone Apps

BioStar Mobile is a set of mobile applications which allows administrators to manage various operations of BioStar software from smart phones. The software consists of separate mobile applications including device configuration, user management and door setting. It supports 'Direct Access' from a smart phone to access control devices with 3G/WiFi network as well as 'Public Gating Access' through BioStar Gate Server with public IP.

Features
- Convenient management of system with simple smart phone applications
- Mobile configuration and settings of devices without display and keypad
- Separate applications to support device configuration, user management and door setting
- Strong security with triple authentications (User ID-Gate password-BioStar admin password)

User Interface

BioStar Device App

BioStar User App

BioStar Door App

Configuration

LAN

TCP/IP or RS485

Web Server Device

Internet

Web Client

Configuration

Direct Access[2P2P] Configuration

Authentication Process
User ID → Gate Password → Activation Code

Public Gating Access Configuration

Authentication Process
User ID → Gate Password → BioStar Admin Password
BioStation T2 | High Performance Fingerprint IP Terminal

Smarter Technology, Ultra Performance

The new BioStation T2 blends loads of innovative features with Suprema’s sophisticated fingerprint recognition technology. Its powerful dual-CPU engine ensures seamless operation and internal camera captures face image logs (snaps shots) for extra level of security. Sealed in a flat-panel front glass and refined dimensions, it provides intuitive and aesthetic GUI on easy-to-use touchscreen LCD. In addition to its extensive communication interfaces, BioStation T2 also supports embedded web server which provides convenience system management over its IP-based access control system.

5-inch Touch Screen LCD with Intuitive GUI

Its ultra wide 5.0-inch WVGA LCD features heavy-duty resistive touch screen technology with wide viewing angle. The display panel has been designed to provide extreme usability and precision for secure biometric access control to high-traffic time attendance applications. Its intuitive GUI allows users to easily learn necessary controls and functions with minimal training and instruction. The GUI also supports customizable wallpaper and notice board.

Powerful Dual-CPU System

With its sophisticated dual-CPU architecture, BioStation T2 offers super fast matching performance, rapid response and exceptionally low error rate. A powerful 533MHz DSP is dedicated to fingerprint matching process for optimal performance, and a 667MHz RISC ensures uninterrupted device operation and instant face detection.

IP Access Control with PoE & WiFi

BioStation T2’s TCP/IP connectivity offers extra flexibility in designing your security system while reducing cost on installation and maintenance. Compare to conventional access control system, IP access control system provides lower cost per door with less wiring and utilization of existing network infrastructure. BioStation T2 also offers PoE (Power over Ethernet) and WiFi to further enhance its extensibility. The PoE feature enables simpler wiring and lower installation cost. On the other hand, users can also choose to connect BioStation T2 with WiFi interface to enjoy benefits of faster installation with significant cost reduction.

Face Detection Technology

BioStation T2 features Face Detection Technology by capturing face image logs on each entry. With its megapixel built-in camera, the device automatically captures face image from each user to prevent buddy punching and unauthorized entries.

Embedded Web Server

BioStation T2 is preloaded with BioStar Lite embedded web server software. The BioStar Lite allows administrators to control up to 10 Suprema IP access control devices with a web browser without installing any software on PC. The application provides comprehensive user/device controls, door configurations, access grouping, scheduling and real-time monitoring of whole system.

Suprema Algorithm

At the core of BioStation T2, the world’s most powerful fingerprint algorithm assures unrivalled speed and accuracy. Recognized by FVC and NIST MINEX Tests, Suprema Algorithm has been proven to be one of the most sophisticated and advanced technology in biometric industry.

Video Phone Interface

BioStation T2 supports videophone feature with its built-in camera, microphone and speaker. Videophone feature can be integrated with conventional analog based video phones as well as IP based video and audio interface.
The Suprema D-Station represents a great leap forward in biometric technology. The perfect blend of face recognition with Dual-finger Technology based on sophisticated ‘Fusion Biometrics’ algorithm provides incredible accuracy and speed that no other biometric devices have ever achieved. Its powerful Tri-CPU engine ensures seamless operation of loads innovative features, and the ultra-wide touch screen LCD with intuitive GUI makes it extremely easy-to-use for both system administrators and everyday users. D-Station is not just the best of the breed, it's a whole new generation of biometric security.

Multi-Biometric Fusion Technology
Multi-Biometric Fusion Technology is Suprema’s patented technology offering exceptional performance which far outperforms conventional fingerprint identification methods. The technology synthesizes and processes minutiae gathered from multiple biometrics sensors including its dual-fingerprint sensors and face image capturing camera. The optimized score-level fusion technology is based on joint distribution of matching scores to develop unique adaptive fusion mechanism that effectively reduces error rates.

Powerful Tri-CPU Parallel Processing System
All the sensational features of D-Station are powered by its unique Tri-CPU system. This Tri-CPU system features parallel processing which allows D-Station to boost the speed of matching large-scale biometric data. In parallel processing the powerful 667MHz and two 400MHz CPU’s make up massive 1.4GHz of computing power, which allows D-Station to deliver exceptional performance in biometric computation as well as seamless operation for its sophisticated functionalities.

Ultra-wide Touch Screen LCD with Intuitive GUI
The 5.0” WVGA touch screen LCD has 384,000 dots, a viewing angle of 140’ with resistive touch screen technology. The display panel has been designed to provide extreme usability and precision for secure biometric access control to high-traffic time attendance systems. With aesthetically designed graphic user interface, D-Station offers decent user experience unlike anything you've seen on a security device and makes it perfect solution for various environments. The GUI also features videophone interface, customizable wallpaper, video player, notice board and personalized messaging.

IP Access Control with PoE & WiFi
D-Station’s IP access control system offers extra flexibility in designing your security system while reducing cost on installation & maintenance. Compare to conventional access control system, IP access control provides lower cost per door with less wiring and utilization of existing network infrastructure. D-Station also offers PoE & WiFi to further enhance its extensibility. The PoE feature also ensures simpler wiring & lower installation cost. Otherwise, users can choose to hook up D-Station with WiFi interface to enjoy benefits of faster installation with significant labor reduction.

Embedded Web Server
D-Station is preloaded with BioStar Lite embedded web server software. The BioStar Lite allows administrators to control up to 10 Suprema IP access control devices with a web browser without installing any software on PC. The application provides comprehensive user/device controls, door configurations, access grouping, scheduling and real-time monitoring of whole system.

Unique Features and Extra Functions
D-Station provides loads of unique features and functions to enhance level of security and user convenience. Accelerometer (high precision motion detection sensor) is integrated to detect shock by tamper or vandalism. The internal RF card reader can read both ISO14443 Type A and Type B cards. In addition, D-Station supports SAM(SIM) card slot for enhanced security applications. This feature opens a way to the integration of access control using the same card used for national ID, transportations, etc. To extend its memory capacity, D-Station supports a SD memory card slot. It also provides RS232 interface for the support of GPRS/GSM based mobile connection and serial printers for printing of attendance records.
BioStation | Full-featured Fingerprint IP Terminal

The Best Just Got Better

BioStation is a full-spec, high-end fingerprint terminal offers the advantages of TCP/IP network and Supremas’s renowned biometric technology for access control and time attendance. The new BioStation V2 comes with massive 1GB memory which now stores 200,000 users and 1 million event logs. Loaded with the world’s best fingerprint algorithm and powerful processing engine, BioStation provides uncompromised high-level biometric security with flexibility in integration and ease of everyday use.

Dual CPU System—Fast, Accurate, Precise

Powered by sophisticated Dual CPU System, the BioStation delivers fast matching speed, rapid response and exceptionally low error ratio. The powerful 400MHz DSP is dedicated to fingerprint matching process for fast and accurate performance, and the 200MHz RISC processor ensures uninterrupted device operation.

TCP/IP Connectivity with WiFi

Featuring IP-based system topology and WiFi, BioStation’s IP access control system offers extra flexibility in designing your security system while reducing cost on installation & maintenance. Compare to conventional access control system, IP access control provides lower cost per door with less wiring and utilization of existing network infrastructure. The concept also simplifies installation of systems with multiple sites since it only requires basic internet link to remote locations.

Suprema Algorithm

At the core of every Suprema access control device, the world’s most powerful fingerprint algorithm assures unrivaled speed and accuracy. Recognized by FVC and NIST MINEX Test², Suprema Algorithm has been proven to be one of the most sophisticated technology in biometrics industry.

Intelligence at Doors

With powerful internal CPU and comprehensive communication interfaces, BioStation provides both reader and controller functionalities at the door. In addition, it can also control door locks with its built-in door relay or through external relay unit. This concept not only reduces your cost for the entire system by removing costly access control panels, but also improves system stability by eliminating single point of failure that affect whole system.

Versatile Interfaces—extra flexibility

BioStation allows flexible system design and cost advantage with extensive communication interfaces and relays such as TCP/IP, RS485 and Wiegand. In addition, it provides USB2.0 interfaces (device & host), and multiple in/out relays to offer extra flexibility. For further expansion, optional external relay unit is also available.

Dual CPU System—Fast, Accurate, Precise

TCP/IP Connectivity with WiFi

Suprema Algorithm

Intelligence at Doors

Versatile Interfaces—extra flexibility
BioLite Net/Solo | Outdoor Fingerprint IP Terminal

Durable Structure, All-round Excellence

Suprema BioLite series are the World’s smallest IP fingerprint terminal with access control & time attendance features. With its rugged IP65-rated waterproof structure, BioLite offers exceptional durability in extreme conditions and is ideal for both indoor and outdoor environment. BioLite also packs renowned Suprema’s biometric technology with simplicity and exceptional value for your budget. All the advanced features resides in a compact and slim design and its user-friendly interfaces allow ease of use and maintenance.

Powerful 400MHz DSP

Powered by 400MHz DSP, the BioLite delivers fast matching speed, rapid response and exceptionally low error rate. This powerful processor is capable of handling fast and accurate fingerprint matching process, and ensures uninterrupted device operation.

IP-to-the-door Concept – Flexible & Cost-saving Solution

Featuring IP-based system topology, BioLite Net’s IP access control system offers extra flexibility in designing your security system while reducing cost on installation & maintenance. Compare to conventional access control system, IP access control provides lower cost per door with less wiring and utilization of existing network infrastructure. For use in single and remote location without network, BioLite Solo offers excellent biometric security for your budget.

Intelligence at Doors

With powerful internal CPU and comprehensive communication interfaces, BioLite Net provides both reader and controller functionalities at the door. In addition, it can also control door locks with its built-in door relay or through external relay unit. This concept not only reduces your cost for the entire system by removing costly access control panels, but also improves system stability by eliminating single point of failure that affect whole system.

IP65-rated Waterproof Structure

BioLite’s body structure has been comprehensively sealed against invasive moisture, dust and liquid. Featuring superb IP65-rated protection, its meticulous sealing, combined with extra protective engineering, ensures faultless operation under outdoor installation. BioLite also features illuminated keypads, LCD back light and LED indicator for excellent visibility in harsh conditions.

Suprema Algorithm

At the core of every Suprema access control device, the world’s most powerful fingerprint algorithm assures unrivaled speed and accuracy. Recognized by FVC and NIST MINEX Test, Suprema Algorithm has been proven to be one of the most sophisticated technology in biometrics industry.

1 FVC : International competition focused on fingerprint verification software assessment.
2 MINEX Test : Minutiae Interoperability Exchange Test by US Government’s NIST.

Versatile Interfaces – extra flexibility

BioLite allows flexible system design and cost advantage with comprehensive communication interfaces and relays such as TCP/IP, RS485 and Wiegand. In addition, it provides multiple in/out relays to offer extra flexibility. For further expansion, optional external relay unit is also available.

- 2,000 matches in 1 second [1:N]
- User capacity: 5,000 (Net), 200 (Solo)
- Log capacity: 50,000 (Net), 5,000 (Solo)
- 400MHz DSP
- IP65 waterproof
- Graphic LCD with backlight
- Operating Temp.: -20°C ~ - 50°C
- TCP/IP, RS485, Wiegand
- EM, Mifare options
- CE, FCC certifications
BioEntry Plus | Fingerprint IP Reader/Controller

Designed for Simplicity, Superb Engineering

BioEntry Plus exquisitely blended pros of IP technology with biometrics. With its award-winning, sleek and slim design, it allows full benefits of next generation distributed IP system structure as well as high level security features of biometrics. Crafted and engineered by the World’s leading biometric experts, BioEntry Plus offers unrivaled quality with exceptional engineering.

Powerful 400MHz DSP

Powered by 400MHz DSP, the BioEntry Plus delivers fast matching speed, rapid response and exceptionally low error rate. This powerful processor is capable of handling fast and accurate fingerprint matching process, and ensures uninterrupted device operation.

IP-to-the-door Concept - Flexible & Cost-saving Solution

Featuring IP-based system topology, BioEntry Plus’s IP access control system offers extra flexibility in designing your security system while reducing cost on installation & maintenance. Compare to conventional access control system, IP access control provides lower cost per door with less wiring and utilization of existing network infrastructure. The concept also simplifies installation of systems with multiple sites since it only requires basic internet link to remote locations.

Intelligence at Doors

With powerful internal CPU and comprehensive communication interfaces, BioEntry Plus provides both reader and controller functionalities at the door. In addition, it can also control door locks with its built-in door relay or through external relay unit. This concept not only reduces your cost for the entire system by removing costly access control panels, but also improves system stability by eliminating single point of failure that affect whole system.

Suprema Algorithm

At the core of every Suprema access control device, the world’s most powerful fingerprint algorithm assures unrivaled speed and accuracy. Recognized by FVC and NIST MINEX Test, Suprema Algorithm has been proven to be one of the most sophisticated technology in biometrics industry.

Versatile Interfaces - extra flexibility

BioEntry Plus allows flexible system design and cost advantage with comprehensive communication interfaces and relays such as TCP/IP, RS485 and Wiegand. In addition, it provides multiple in/out relays to offer extra flexibility. For further expansion, optional external relay unit is also available.

- 2,000 matches in 1 second (1:N)
- User capacity: 5,000
- Log capacity: 50,000
- 400MHz DSP
- Multi-color LED & sound instruction
- TCP/IP, RS485, Wiegand
- EM, HID Prox., iClass & Mifare
- CE, FCC, UL294, certifications
- Good Design Mark

1 FVC: International competition focused on fingerprint verification software assessment.
2 MINEX Test: Minutiae Interoperability Exchange Test by US Government’s NIST.
A Card Reader to Change the Way

The new X-Station from Suprema is the world's first IP access control terminal with touchscreen LCD and face detection technology. Its 3.5 inch touchscreen LCD and intuitive GUI provide comprehensive access control and time attendance functions. Featuring face detection technology with a megapixel camera, X-Station can record up to 5,000 face image logs for extra level of security and attendance records. The built-in camera detects and captures face images of each entry to prevent unauthorized access and payroll fraud. Suprema X-Station is set to change the way we use access reader.

Face Detection Technology
X-Station features Face Detection Technology by capturing face image logs on each entry. With its megapixel built-in camera, the device automatically captures face image from each user to prevent buddy punching and unauthorized entries. The camera operation is supported by proximity sensor and IR flash lights to ensure image quality of captured face logs.

3.5-inch Touch Screen LCD with Intuitive GUI
Its ultra wide 3.5-inch QVGA LCD features heavy-duty resistive touch screen technology with wide viewing angle. The display panel has been designed to provide extreme usability and precision for secure access control to high-traffic time attendance applications. Its intuitive GUI allows users to easily learn necessary controls and functions with minimal training and instruction. The GUI also supports customizable wallpaper and notice board.

Powerful 667MHz Processor
X-Station is powered by 667 MHz RISC processor which allows seamless operation and uninterrupted sub-device control. The processor is more than capable of running X-Station’s own operations and is sufficient to support as a controller to locking devices and dummy readers.

IP Access Control with PoE & WiFi
X-Station’s TCP/IP connectivity offers extra flexibility in designing your security system while reducing cost on installation and maintenance. Compare to conventional access control system, IP access control system provides lower cost per door with less wiring and utilization of existing network infrastructure. This concept also improves system stability by eliminating single point of failure which affects the whole system.

Embedded Web Server
X-Station is preloaded with BioStar Lite embedded web server software. The BioStar Lite allows administrators to control up to 16 Suprema IP access control devices with a web browser without installing any software on PC. The application provides comprehensive user/device controls, door configurations, access grouping, scheduling and real-time monitoring of whole system.

Versatile Interfaces
X-Station allows flexible system design and cost advantage with various communication interfaces such dual channel RS485, Wiegand, TCP/IP, TTL inputs and a door relay. For further expansion, optional external relay unit is available.

Max user: 200,000
Log capacity: 1,000,000
Face log capacity: 5,000
CPU: 667 MHz RISC
LCD: 3.5" touchscreen
Memory: 1GB flash + 128MB
RF options: 13.56 MHz Mifare, 125KHz EM
Network: TCP/IP
Interfaces: 2CH RS485, Wiegand I/O
Certifications: CE, FCC
Xpass | Smart IP Reader/Controller

Progressive Technology, Exceptional Value

Xpass provides all the leading-edge features of top range IP access controller packed in a ultra compact device. Featuring next-generation IP access control system, it offers uncompromising quality with simplicity and exceptional value for your budget. Besides, Xpass offers Power over Ethernet (PoE) for further reduction of installation cost, and IP65-rated waterproof structure for extra durability. All the leading-edge technology packed with versatile interfaces that makes incredibly simple to adapt with minimum cost and labor.

Powerful 32-bit Microprocessor

Xpass is powered by 32-bit microprocessor which allows seamless operation and uninterrupted sub-device control. The processor is well capable of running Xpass’s own operations and is sufficient to support Xpass as a controller to dummy readers and locks.

IP Access Control with PoE

Featuring IP-based system topology and PoE, Xpass’s IP access control system offers extra flexibility in designing your security system while reducing cost on installation & maintenance. Compare to conventional access control system, IP access control provides lower cost per door with less wiring and utilization of existing network infrastructure. The concept also simplifies installation of systems with multiple sites since it only requires basic internet link to remote locations.

Intelligence at Doors

With powerful internal CPU and comprehensive communication interfaces, Xpass provides both reader and controller functionalities at the door. In addition, it can also control door locks with its built-in door relay or through external relay unit. This concept not only reduces your cost for the entire system by removing costly access control panels, but also improves system stability by eliminating single point of failure that affects whole system.

IP65-rated Waterproof Structure

Xpass’s body structure has been comprehensively sealed against invasive moisture, dust and liquid. Featuring superb IP65-rated protection, its meticulous sealing, combined with extra protective engineering, ensures faultless operation under outdoor installation.

Versatile Interfaces – extra flexibility

Xpass allows flexible system design and cost advantage with comprehensive communication interfaces and relays such as TCP/IP, RS485 and Wiegand. In addition, it provides multiple in/out relays to offer extra flexibility. For further expansion, optional external relay unit is also available.

Power over Ethernet (PoE)

PoE feature in Xpass allows simpler wiring & lower installation cost by leveraging existing IT infrastructure. It also supplies up to 700mA, 15VDC of electricity to its slave devices such as deadbolt, RFE and dummy readers.

Max. 40,000 users, 50,000 logs
32-bit microprocessor
8MB flash +16MB RAM
EM/HID Prox./Mifare options
IP65 waterproof
TCP/IP, RS485, Wiegand
Power over Ethernet
CE, FCC certifications
Secure I/O

Secure I/O is a separate controller for door control and I/O expansion. With encrypted communication, it provides secure and cost effective access control system.

- CPU: 16 MHz, 8bit Microprocessor
- Input: 4-Ch
- Output: Form C Relay 2-Ch
- Host Communication: RS-485
- Display: 10 Status LED
- Power: 12 Vdc @ 300mA

Demonstration Kits

Demonstration Kits are for use in showrooms, training and supporting field sales. The kit demonstrates simple secure connection of IP access control system and it consists of an IP reader/controller unit, an external relay unit (Secure I/O) a lock and an exit switch. It also provides TCP/IP port connecting to the host PC or network with other demo-kits. Demonstration Kits come with a solid aluminum carrying case.

- 12vdc power adapter
- RTE switch
- Aluminum carrying case
- Secure I/O (external relay unit)
- Deadbolt lock
- Power/network ports

* Demonstration Kits are available for all models of Suprema IP access control range.

Starter Kits

Starter Kits packs essential components for dealers/distributors to effectively demonstrate and evaluate Suprema IP access control system.

- IP access reader/controller unit
- Power adapter
- Technical Documents
- Secure I/O (selected models only)
- BioStar BE
- Command cards (selected models only)
- BioStar SDK
- Plastic Stand

* Starter Kits are available for all models of Suprema IP access control range.
## Hardware Specifications

### BioStation T2

**Application**
- Access Control
- Time Attendance

**Authentication Modes**
- Finger/Card/PIN

**Fingerprint Sensor**
- Optical

**Card Options**
- 125KHz EM

**Template Capacity**
- 50,000

**Dimensions**
- 130 x 45 x 27

**Operating Temperature**
- -20°C ~ 50°C

**Tamper**
- N/A

**Dimensions (W x H x D, mm)**
- 180 x 135 x 21

**Memory**
- 8MB flash + 16MB RAM

### BioStation D-Station

**Application**
- Access Control
- Time Attendance

**Authentication Modes**
- Finger/Card/PIN

**Fingerprint Sensor**
- Optical

**Card Options**
- 125KHz EM

**Template Capacity**
- 50,000

**Dimensions**
- 190 x 125 x 50

**Operating Temperature**
- -20°C ~ 50°C

**Tamper**
- N/A

**Dimensions (W x H x D, mm)**
- 120 x 128 x 50

**Memory**
- 128MB flash + 16MB RAM

### BioEntry Plus

**Application**
- Access Control
- Time Attendance

**Authentication Modes**
- Finger/Card/PIN

**Fingerprint Sensor**
- Optical

**Card Options**
- 125KHz EM

**Template Capacity**
- 50,000

**Dimensions**
- 105 x 155 x 40

**Operating Temperature**
- -20°C ~ 50°C

**Tamper**
- N/A

**Dimensions (W x H x D, mm)**
- 140 x 206 x 48

**Memory**
- 8MB flash + 16MB RAM

### BioLite Net

**Application**
- Access Control
- Time Attendance

**Authentication Modes**
- Finger/ID

**Fingerprint Sensor**
- Optical

**Card Options**
- 125KHz EM

**Template Capacity**
- 50,000

**Dimensions**
- 60 x 195 x 60

**Operating Temperature**
- -20°C ~ 50°C

**Tamper**
- N/A

**Dimensions (W x H x D, mm)**
- 140 x 206 x 48

**Memory**
- 8MB flash + 16MB RAM

### BioLite Solo

**Application**
- Access Control
- Time Attendance

**Authentication Modes**
- Finger/ID

**Fingerprint Sensor**
- Optical

**Card Options**
- 125KHz EM

**Template Capacity**
- 50,000

**Dimensions**
- 60 x 195 x 60

**Operating Temperature**
- -20°C ~ 50°C

**Tamper**
- N/A

**Dimensions (W x H x D, mm)**
- 140 x 206 x 48

**Memory**
- 8MB flash + 16MB RAM

### X-Station

**Application**
- Access Control
- Time Attendance

**Authentication Modes**
- Finger/ID

**Fingerprint Sensor**
- Optical

**Card Options**
- 125KHz EM

**Template Capacity**
- 50,000

**Dimensions**
- 60 x 195 x 60

**Operating Temperature**
- -20°C ~ 50°C

**Tamper**
- N/A

**Dimensions (W x H x D, mm)**
- 140 x 206 x 48

**Memory**
- 8MB flash + 16MB RAM

### Xpass

**Application**
- Access Control
- Time Attendance

**Authentication Modes**
- Finger/ID

**Fingerprint Sensor**
- Optical

**Card Options**
- 125KHz EM

**Template Capacity**
- 50,000

**Dimensions**
- 60 x 195 x 60

**Operating Temperature**
- -20°C ~ 50°C

**Tamper**
- N/A

**Dimensions (W x H x D, mm)**
- 140 x 206 x 48

**Memory**
- 8MB flash + 16MB RAM
Company at a Glance

Global Business
- Sales network in over 110 countries worldwide with 910 customers
  - May 2000
  - Average growth rate of 45% per year (CAGR, 2007 ~ 2010)
  - Biometric/RFID IP Access Control
  - Fingerprint Embedded Module
  - Biometric PC Security Solution
  - APIS and Live Scanning Solution
  - ePassport Reader & ID Solution

Headquarter
- South Korea

Growth
- Listed company on stock market in Korea (KOSDAQ 094840)
  - Launched Korea’s 1st biometric IPO
  - Ranked top in Fingerprint Verification Competition in 2004, 2006 and on Going (2010)
  - Best results at NIST MINEX tests for “extractor” and matcher category (2008)

Business Area
- Financial Status
  - Revenue growth rate (CAGR) of 45% during 2007 ~ 2010
  - Launch of the first biometric IPO in Korea (Jul 2008)
  - 57% market share in the domestic market
  - Named to Deloitte’s Technology Fast 500 Asia Pacific in 2008 & 2009
  - Shipped over 1,000,000 fingerprint products worldwide

- Technology
  - Frost & Sullivan’s Biometrics Company of the Year 2009
  - Top Prize at Detektor International Award 2009 and 2010
  - Top result in NIST MINEX tests (2008)
  - FBI certification for live scanners
  - UL294 certification for access control product
  - ISO 9001/14001 Qualification
  - Ranked top in Fingerprint Verification Competition in 2004, 2006 and on Going (2010)

- Awards & Certifications
  - Business HIGHLIGHTS
  - Government
    - Ministry of Justice, Kuwait
    - Ministry of Education, Mexico
    - Ministry of Finance, Georgia
    - Ministry of Education, Saudi Arabia
  - Police & Law Enforcement
    - Policía Nacional de Colombia, Colombia
    - National Police, Iran
    - Supreme Prosecutors’ Office, South Korea
    - The Juvenile Protection Education Institution, South Korea
  - Commercial
    - Caixa BI-Banco de Investimento, Portugal (Banking)
    - Grupo Kopalport, Poland (Media)
    - Toshiba Information Equipment, Philippines (IT)
    - British American Tobacco, Turkey (Manufacturing)
    - Cuatrecasas Gonzales Pereira, Spain (Law Firm)
  - Hospitality & Tourism
    - Burger King, Turkey
    - Pamplona Hotel, Spain
    - Kangwon Land Casino, South Korea
  - Others
    - UNICEF, Denmark (NGO)
    - Karachi International Airport, Pakistan (Transport)
    - De Hoop ggz, Netherlands (Healthcare)

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 best quality components and materials

- Partnership
  - Global partner programs for training, technical supports & upgrades
  - Clear offering through authorized distribution channel

Project References

Awards & Certifications
Global Sales
Suprema has over 910 respected customers from 110 countries around the world.

Market Penetration
(Number of Countries)
- 2010: 110
- 2009: 105
- 2008: 90
- 2007: 82
- 2006: 74

Number of Customers
- 2010: 910
- 2009: 850
- 2008: 620
- 2007: 543
- 2006: 456