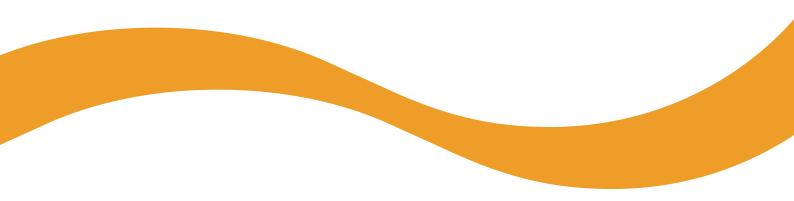


USER GUIDE BioStation 2

English Version 1.00



EN 102.00.BS2 V1.00

Contents

Safety Instructions	4
Getting Started	
Components	
Parts	
Cables and connectors	
How to Enroll a Fingerprint	
Choose Ideal Fingers to Enroll	
How to Enroll Fingerprints	
····· ·· -····· ······················	
Administrator Menus	. 12
Full Menu	
Quick Menu	
Quer menu	
User Management	. 13
Add User Information	
Edit User Information	
Delete All Users	
Check User Usage	
Authentication Configuration	. 15
Finger	
Card	
ID	
T&A Mode	
Fingerprint	
System Setup	10
	. 18
Display & Sound	
	18
Display & Sound	18 18
Display & Sound Device Date & Time Intercom	18 18 18 19
Display & Sound Device Date & Time Intercom Device Info	18 18 18 19 19
Display & Sound Device Date & Time Intercom Device Info Memory Info	18 18 19 19 19 20
Display & Sound Device Date & Time Intercom Device Info Memory Info USB Memory	18 18 19 19 20 20
Display & Sound Device Date & Time Intercom Device Info Memory Info USB Memory Restart Device	18 18 19 20 20 21
Display & Sound Device Date & Time Intercom Device Info Memory Info USB Memory Restart Device Restore Default	18 18 19 20 20 21 21
Display & Sound Device Date & Time Intercom Device Info Memory Info USB Memory Restart Device Restore Default Network	18 18 19 20 20 21 21 21
Display & Sound Device Date & Time Intercom Device Info Memory Info USB Memory Restart Device Restore Default Network TCP/IP Settings	18 18 19 20 20 21 21 21 22
Display & Sound Device Date & Time Intercom Device Info Memory Info USB Memory Restart Device Restore Default Network TCP/IP Settings Server Settings	18 18 19 20 20 21 21 22 22 22
Display & Sound Device Date & Time Intercom Device Info Memory Info USB Memory Restart Device Restore Default Network TCP/IP Settings	18 18 19 20 20 21 21 22 22 22
Display & Sound Device Date & Time Intercom Device Info Memory Info USB Memory Restart Device Restore Default Network TCP/IP Settings Server Settings RS-485 Settings	18 18 19 20 20 21 21 22 22 22 22
Display & Sound Device Date & Time Intercom Device Info Memory Info USB Memory Restart Device Restore Default Network TCP/IP Settings Server Settings RS-485 Settings RS-485 Settings	18 18 19 20 20 21 21 22 22 22 23 . 24
Display & Sound Device Date & Time Intercom Device Info Memory Info USB Memory Restart Device Restore Default Network TCP/IP Settings Server Settings RS-485 Settings RS-485 Settings Search Logs	18 18 19 20 20 21 21 22 22 22 23 . 24 24
Display & Sound Device Date & Time Intercom Device Info Memory Info USB Memory Restart Device. Restore Default Network TCP/IP Settings Server Settings RS-485 Settings Check Event Log	18 18 19 20 20 21 21 22 22 22 23 23 24 24
Display & Sound Device Date & Time Intercom Device Info Memory Info USB Memory Restart Device Restore Default Network TCP/IP Settings Server Settings RS-485 Settings RS-485 Settings Search Logs	18 18 19 20 20 21 21 22 22 22 23 23 24 24
Display & Sound Device Date & Time	18 18 19 20 21 21 22 22 22 22 23 24 24 24 24 24
Display & Sound Device Date & Time Intercom Device Info Memory Info USB Memory Restart Device. Restore Default. Network. TCP/IP Settings Server Settings RS-485 Settings Check Event Log. Search Logs. Delete All Logs Check Log Usage Troubleshooting	
Display & Sound Device Date & Time	
Display & Sound Device Date & Time Intercom Device Info Memory Info USB Memory. Restart Device Restore Default Network. TCP/IP Settings Server Settings RS-485 Settings RS-485 Settings Delete All Logs Check Log Usage Troubleshooting Checklist Before Requesting Service	
Display & Sound Device	
Display & Sound Device Date & Time Intercom Device Info Memory Info USB Memory. Restart Device Restore Default Network. TCP/IP Settings Server Settings RS-485 Settings RS-485 Settings Delete All Logs Check Log Usage Troubleshooting Checklist Before Requesting Service	

FCC Compliance Information	29
Appendix	30
Disclaimers	
Copyright Notice	30

Safety Instructions

Please read the following instructions carefully before using the product. This information is important for ensuring the safety of the user and for preventing damage to the user's property.

Failure to follow the instructions may cause serious injury or death.

Installation Instructions

Do not install the product in direct sunlight or in a location that is damp or dusty.

• This can cause a fire or electric shock.

Do not install the product near any heat source such as electric heaters.

• This can cause a fire from overheating or electric shock.

Install the product in a dry place.

- Moisture can cause product damage or electric shock.
- Install the product in a place where there is no electromagnetic interference.
- This can cause product damage or electric shock.

Have qualified service professionals install or repair the product.

- Otherwise, it can cause a fire, electric shock, or injury.
- If the product is damaged due to a user's unauthorized installation or dismantling of the product, a service fee will be charged for repair.

Operating Instructions

Be careful not to spill any liquid such as water, drinks, or chemicals inside the product.

• This can cause fire, electric shock, or product damage.



Ignoring these instructions may result in minor injuries or damage to the product.

Installation Instructions

Protect the power cord from being walked on or pinched.

• This can cause product damage or injury.

Keep the product away from strong magnetic objects such as magnets, TVs, monitors (especially CRT monitors), or speakers.

• This can cause a failure.

Only use a DC 12V power adapter that provides a current of at least 500mA.

• This device does not work if the proper power source is not used.

After all the cables are properly installed, apply the liquid silicone underneath and above the cables within the groove approximately 10mm wide. The cable cover must be installed to ensure the IP65 rating.

• Non-proper installation of the cable cover may cause device malfunction or damage from water and dust.

It is recommended to install the product inside an enclosure when installing it in a completely open place.

Be sure to use separate power source for Secure I/O 2, electrical lock, and BioStation 2.

Operating Instructions

Do not drop the product or subject it to shock or impact during use.

• This can cause a failure.

Keep the password secret from others and change it periodically.

• Failure to do so may lead to an illegal intrusion.

Do not press the buttons on the product with excessive force or with a sharp tool.

• This can cause a failure.

Be careful not to contaminate or damage the fingerprint reader with dirty hands or materials.

• This can decrease performance or cause failures to read fingerprints.

Clean the product with a soft, dry cloth. Do not use alcohol, benzene, or water.

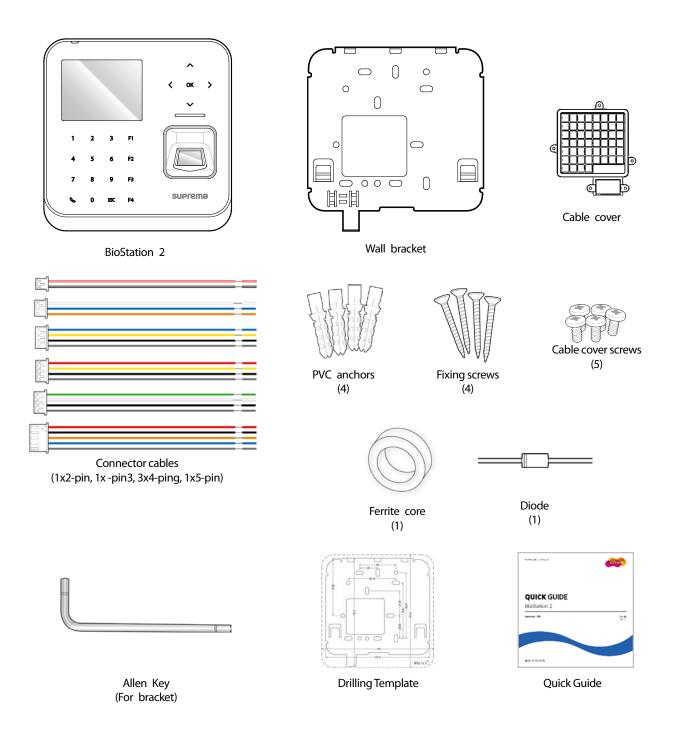
• This can cause a product failure.

BioStation 2 uses the capacitive button. If there is much moisture (humidity) like a rainy weather or on the product, wipe with a soft and dry cloth.

There is a risk of fire if batteries are replaced by an incorrect type. Dispose of batteries in accordance with local and national disposal regulations.

Getting Started

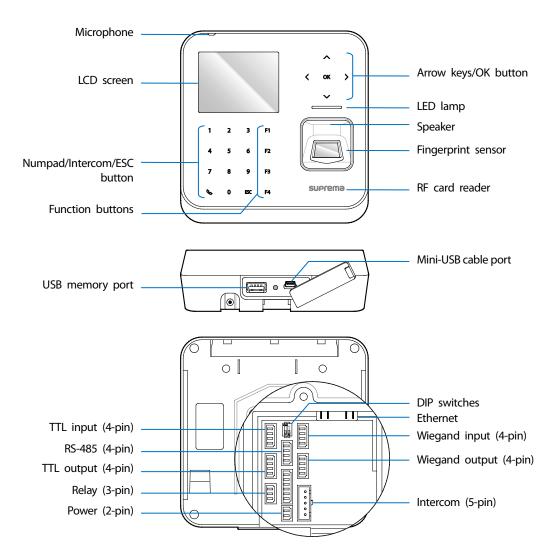
Components



Notes

- The components may differ depending on where the product is installed.
- For more information on installation, visit the Suprema website (www.supremainc.com) to see the installation guide.

Parts



Name	Description
Microphone	Transmits the user's voice to the intercom.
LCD screen	Displays various information or settings.
Numpad/Intercom/ESC button	 1 to 9: Enters numbers/characters or selects a menu item. Connects to the intercom. ESC: Opens the menu, moves back to the previous screen, or cancels input
Function buttons	Serves as T&A function key or selects a sub-menu item.
Arrow keys/OK button	 ^: Changes the character type. ': Changes the character type or selects a T&A event. < : Deletes numbers/characters. > : Inserts symbols or configures an item. OK: Selects an item or saves the settings.
Speaker	Makes a sound.
LED lamp	Shows the status of the product with different colors.
Fingerprint sensor	Reads fingerprints.

RF card reader	Reads RF cards.
USB memory port	Connects a USB memory stick.
Mini-USB cable port	To be supported later.
TTL input (4-pin)	Connects a TTL input/output cable.
RS-485 (4-pin)	Connects an RS-485 cable.
TTL output (4-pin)	Connects a TTL input/output cable.
Relay (3-pin)	Connects a relay cable.
Power (2-pin)	Connects the power cable.
DIP switch	Turns on the termination resistor for the RS-485 interfaceTo use the termination resistor, set DIP switch 1 to ON.
Ethernet	Connects an Ethernet cable.
Wiegand input (4-pin)	Connects a Wiegand input/output cable.
Wiegand output (4-pin)	Connects a Wiegand input/output cable.
Intercom (5-pin)	Connects the intercom cable.

Cables and connectors

Power

1	2 2 2	
Pin	Name	Color
1	Power +12 V	Red (White stripe)
2	Power GND	Black (White stripe)

Relay



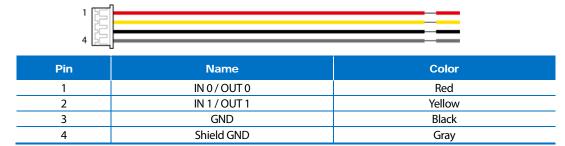
Pin	Name	Color
1	Normally Open	White
2	Common	Blue
3	Normally Closed	Orange

RS-485



Pin	Name	Color
1	TRX +	Blue
2	TRX -	Yellow
3	GND	Black
4	Shield GND	Gray

TTL input/output



Wiegand input/output

25		
ζþ	=	
4 52		

Pin	Name	Color
1	IN 0 / OUT 0	Green
2	IN 1 / OUT 1	White
3	GND	Black
4	Shield GND	Gray

Intercom



Pin	Name	Color
1	Power +	Red
2	Power GND	Black
3	Audio	Orange
4	Data	Blue
5	Shield GND	Gray

How to Enroll a Fingerprint

Correct fingerprint enrollment is critical in improving fingerprint recognition. BioStation 2 is loaded with powerful fingerprint algorithm which is capable of recognizing a fingerprint even when the angle or position of the finger on the reader is not optimal. Nevertheless, enrolling a fingerprint with the following instructions can improve the recognition performance.

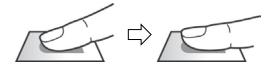
Choose Ideal Fingers to Enroll

- Each person can enroll up to ten fingerprints. If a finger is injured or scratched, it is recommended to use another finger.
- If the fingerprint recognition fails, you can enroll the same finger multiple times, which will improves the recognition performance.
- If a finger is injured or the fingerprint is not clear, please enroll a different finger.
- The index finger and middle finger are preferred for enrolling fingerprints. Other fingers may have
 a lower recognition rate because those fingers tend to have difficulty being placed at the center of
 the fingerprint sensor.



How to Enroll Fingerprints

When enrolling a fingerprint, the "Scan 1st finger" message will appear on the LCD screen. Place a finger on the fingerprint sensor, and then press softly in order to improve the recognition.



2 After a beep sounds, you will be notified to scan again then remove your finger and place it again to scan. (You are required to scan the same finger twice for enrollment.)

Notes

Precautions for enrolling fingerprints

Enrolling fingerprints is the most important procedure because this device uses enrolled fingerprints to compare them with a scanned fingerprint. Please ensure the following when enrolling fingerprints:

- Place the finger firmly on the fingerprint sensor for it to be read completely.
- The center of the fingerprint should be placed at the center of the fingerprint sensor.
- If a finger is injured or the fingerprint is not clear, please enroll another finger.
- Follow the instructions on the screen and place the finger correctly without movement when the finger is read.
- Place your finger to completely cover the sensor with maximum surface.



When the fingerprint recognition fails

BioStation 2 can read fingerprints regardless of the change in seasons or condition of the fingers. However, the external environment or the finger's position can affect the recognition performance.

If the fingerprint recognition fails, the following actions are recommended.

- If there is water or sweat on the finger, please wipe it off before scanning the finger.
- If the finger is too dry, please blow softly on the fingertip before scanning the finger.
- If the finger is injured, please enroll another finger.
- If the fingerprint recognition failure persists, please follow 'Precautions for enrolling fingerprints' to re-enroll the fingerprint.

Administrator Menus

Full Menu

- **1** Press the **ESC** button then authenticate as an administrator.
- 2 Select the desired menu item.

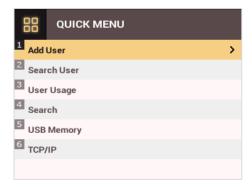


Notes

• If there is no administrator on the device, anyone can access the menu just by pressing the ESC button.

Quick Menu

- 1 Press and hold the **ESC** button for more than one second and then release the button. Next, authenticate yourself as an administrator.
- 2 Select the desired menu item.



Notes

• If there is no administrator on the device, anyone can access the quick menu just by pressing and holding the ESC button and then releasing the button.

User Management

Add User Information

You can register the user information and fingerprints.

- **1** Press the **ESC** button then authenticate as an administrator.
- 2 Go to USER > Add User and press OK.

Add User		
ID	2 🕨	
Name		
PIN		
Fingerprint	0	
Card	0	
User Level	None	
Start Date	2001.01.01	

- 3 Select an item then press the > button. Press **OK** after configuring the item to register the user information.
 - ID: Enters the User ID to be registered. Press OK after entering the ID with the number buttons. An ID must be a number in the range of 1 to 4294967295.
 - Name: Enters the user name with the number buttons. Press the model buttons to switch between letters and numbers. Press F1/F2 to show more letters.
 - PIN: Enters a PIN. Enter the PIN and press OK. Enter the PIN again to confirm it, then press the OK button. PIN numbers must be 4 to 16 digits to prevent leaking of the PIN.
 - Fingerprint: Enrolls fingerprints for user authentication. After scanning the fingerprint of the registered finger, the same finger should be scanned one more time. Press the ESC button if you do not want to enroll a fingerprint.
 - Card: Registers cards for user authentication. Scan the cards that you want to assign to users. Press the ESC button if you do not want to register another card.
 - User Level: Selects the privileges to assign to the user. Use the $\langle \rangle$ buttons to select the user level.
 - Start Date: Sets the start date for the user account. Press the number buttons to enter the date. Use the < button to delete the date. Use the > button to enter a separator.
 - Expiration Date: Sets the end date for the user account. Press the number buttons to enter the date. Use the < button to delete the date. Use the > button to enter a separator.
 - Security Level: Sets the security level for 1:1 Authentication.
 - **Duress**: Selects the index of the fingerprints to be used as duress fingerprints. This is available only when there are two or more registered fingerprints.
 - Private Auth Mode: Changes the authentication mode for each user. Select a desired item and press the <i>buttons to change the settings.

Notes

The available menus vary depending on the selected user level.

- None: Indicates the level for normal users who cannot use the menu.
- Administrator: The user can use all menus.
- Configuration: The user can use AUTHENTICATION, DISPLAY & SOUND, DEVICE, NETWORK, and EVENT LOG menus.
- User Mgmt: The user can use USER and EVENT LOG menus.

Edit User Information

Users with the user level of Administrator and User Mgmt can change user information. They can add fingerprints or a card for a user, and also change PIN numbers and access levels.

- Press the ESC button then authenticate as an administrator.
- 2 Go to USER > Search User and press OK.

8	Search User
ID	•
Name	
Fingerprin	đ.
Card	

- Select a search method and press the > button. You can search for users by ID, Name, Fingerprint, or Card.
 If you press OK without selecting a search method, a list of all users will be displayed.
- 4 Select the user you want to edit and press F2. Edit the information by referring to Adding User Information.
 Press F3 and then the OK button to delete a user.

Notes

• Access Group can be registered in BioStar 2. For more information on registering access groups, see the BioStar 2 Administrator Guide.

Delete All Users

You can delete all registered users.

- 1 Press the **ESC** button then authenticate as an administrator.
- 2 Go to USER > Delete User, then press OK.
- 3 If you press **OK**, all registered users will be deleted.

Check User Usage

Shows the numbers of registered users, fingerprints, and cards.

- **1** Press the **ESC** button then authenticate as an administrator.
- 2 Go to USER > User Usage, then press OK.

8	User Usage	
Use	r	1 500,000
Fing	er	4 500,000
Card	1	0 500,000

Authentication Configuration

Finger

A schedule can be configured for each authentication method using fingerprints.

Press the ESC button then authenticate as an administrator.

2 Go to AUTHENTICATION > Finger, then press OK.



- **3** Select an item and press the 🚸 buttons to set a schedule.
 - (): This mode only uses fingerprints.
 - 🔘 + 🕐: In this mode, a PIN must be entered after fingerprint authentication.

4 Press **OK** to save the settings.

Notes

- You can configure a schedule in BioStar 2. You can select Never or Always if there is no configured schedule.
- For more information on configuring schedules, see the BioStar 2 Administrator Guide.

Card

A schedule can be configured for each authentication method using cards.

- Press the ESC button then authenticate as an administrator.
- 2 Go to AUTHENTICATION > Card, then press OK.



- **3** Select an item and press the $\langle \rangle$ buttons to set a schedule.

 - 😑 + 🕘: In this mode, fingerprint authentication is required after card authentication.
 - 😑 + 🚱: In this mode, a PIN must be entered after card authentication.
 - 😑 + 🌑 / 🕐: In this mode, fingerprint authentication or entering a PIN is required after card authentication.
 - 😑 + 🛞 + 😢: In this mode, both fingerprint authentication and entering a PIN are required after card authentication.
- 4 Press OK to save the settings.

Notes

- You can configure a schedule with BioStar 2. You can select Never or Always if there is no configured schedule.
- For more information on configuring schedules, see the BioStar 2 Administrator Guide.

ID

A schedule can be configured for each authentication method using IDs.

- 1 Press the **ESC** button then authenticate as an administrator.
- 2 Go to AUTHENTICATION > ID, then press OK.



- **3** Select an item and press the $\langle \rangle$ buttons to set a schedule.
 - 🚷 + 🌑: In this mode, fingerprint authentication is required after entering an ID.
 - 🚷 + 🖉: In this mode, a PIN must be entered after entering an ID.
 - 🛛 🚷 + 🍥 / 🕘: In this mode, fingerprint authentication or entering a PIN is required after entering an ID.
 - 🔸 🚷 + 🛞 + 🚱: In this mode, both fingerprint authentication and entering a PIN are required after entering an ID.

4 Press **OK** to save the settings.

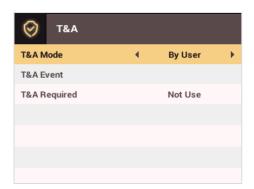
Notes

- You can configure a schedule with BioStar 2. You can select Never or Always if there is no configured schedule.
- For more information on configuring schedules, see the BioStar 2 Administrator Guide.

T&A Mode

You can select registration options for the T&A Mode.

- 1 Press the **ESC** button then authenticate as an administrator.
- 2 Go to AUTHENTICATION > T&A Mode, then press OK.



- **3** Select an item and configure the settings.
 - **T&A Mode**: Selects how to use the T&A Mode.
 - T&A Event: Checks T&A Events.
 - T&A Required: Selects the registration option for the T&A Mode. If Use is selected, you can set the T&A Event as a required option to select during authentication.

4 Press **OK** to save the settings.

Fingerprint

You can configure the fingerprint authentication settings.

- Press the ESC button then authenticate as an administrator.
- 2 Go to AUTHENTICATION > Fingerprint, then press OK.

Fingerprint				
Security Level	•	Normal	•	
Matching Timeout		3		
View Image	v Image Disabled			
Sensor Sensitivity	7			
1:N Fast Mode		Auto		
Template Format	SUPREMA			
Sensor Mode		Auto On		

- **3** Select an item and press the $\langle \rangle$ buttons to change the settings.
 - Security Level: Configures the security level for 1:N Authentication.
 - Timeout: Sets a timeout period. If the authentication is not completed within the set time, the authentication fails.
 - View Image: You can view the original image when a fingerprint is scanned.
 - Sensor Sensitivity: Sets the sensitivity level of the fingerprint reader sensor. Set the sensor sensitivity high if you wish to use a higher sensor sensitivity level and obtain more detailed fingerprint information.
 - 1:N Fast Mode: Sets the fingerprint authentication speed. Select Auto On to have the authentication speed configured according to the total fingerprint templates enrolled on the device.
 - Template Format: Sets the fingerprint template format. The default format is SUPREMA. Be careful when changing the template format as it can render all previously stored fingerprints unusable.
 - Sensor Mode: If Auto On is selected, the fingerprint sensor detects if a finger is present. And the sensor is on while the finger is present on the sensor. If Always On is selected, the fingerprint sensor is always on.
 - Advanced Enrollment: You can check the quality of a scanned fingerprint to save high quality fingerprint data. If Enabled is selected, the user will be notified when the fingerprint quality is low. This helps users to scan the fingerprints correctly.
- **4** Press **OK** to save the settings.

Notes

• Change the template type after deleting all user fingerprint information. If there is any user fingerprint information stored on the device, the template type cannot be changed.

System Setup

Display & Sound

You can configure the display and sound settings on the device.

- Press the **ESC** button then authenticate as an administrator.
- 2 Go to DISPLAY & SOUND, then press OK.

DISPLAY & SOUND						
Theme	•	Theme 1	►	1		
Background		Logo				
Backlight Timeout 20						
Menu Timeout 20						
Msg Timeout 2						
Language English						
Voice Instruction		Disabled				

- **3** Select an item and press the $\langle \rangle$ buttons to change the settings.
 - Theme: Changes the style of the home screen.
 - **Background**: Selects items to display on the home screen background.
 - Backlight Timeout: Configures how long (in seconds) the LCD screen light stays on.
 - Menu Timeout: Configures the time (in seconds) for the menu screen to automatically disappear. If there is no button input for the specified period, the display goes back to the home screen.
 - Msg Timeout: Configures the time (in seconds) for the configuration completion message or notification message to automatically disappear.
 - Language: Selects the language to use.
 - Voice Instruction: You can use voice instructions instead of beep.
 - Volume: Adjusts the volume.

4 Press OK to save the settings.

Device

Date & Time

You can configure the date and time settings. Be sure to correctly configure the settings to collect accurate log data.

Press the **ESC** button then authenticate as an administrator.

2 Go to DEVICE > Date & Time, then press OK.

Date & Time	
Date	2015/03/03
Time	15:29:59
Time Zone	UTC +9:00
Time Sync	Disabled
Date Format	YYYY/MM/DD
Time Format	24-Hour

- **3** Select an item and press the $\langle \rangle$ buttons to change the settings.
 - Date: Sets the current date. Press the number buttons to enter the date.
 - Time: Sets the current time. Press the number buttons to enter the time.
 - **Time Zone**: Sets the time zone for your area.

- Time Sync: Synchronizes the time with the server. To synchronize the time with the server, select Use.
- Date Format: Selects the date format. You can select from among the YYYY/MM/DD, MM/DD/YYYY, or DD/MM/YYYY formats.
- Time Format: Selects the time format. You can select from among the 24 hour or 12 hour (AM/PM) formats.

Notes

• Press the number buttons to enter the date and time. Use the \checkmark button to delete the values entered. Use the > button to enter a separator.

Intercom

You can select whether or not to use the intercom.

- 1 Press the **ESC** button then authenticate as an administrator.
- 2 Go to DEVICE > Interphone, then press OK.

₽	Interphone			
Interp	hone	•	Disabled	•

- **3** When the intercom is connected, press the $\langle \rangle$ buttons to select **Enabled**.
- 4 Press **OK** to save the settings.

Device Info

Shows the model name, device ID, FW version, and MAC address.

- 1 Press the **ESC** button then authenticate as an administrator.
- 2 Go to **DEVICE** > **Device Info**, then press **OK**.
 - Shows the model name, device ID, HW / FW / Kernel versions and Ethernet/WiFi MAC addresses.
- **3** Check the device information and press **OK**.

Memory Info

Shows the memory usage status.

- 1 Press the ESC button then authenticate as an administrator.
- 2 Go to **DEVICE** > **Memory Info,** then press **OK**.

📮 Memory Info	
Dram Memory(KB)	72,784 120,228
	120,220

3 Check the memory information and press OK.

USB Memory

By connecting a USB memory stick, you can import or export the log, data and configurations data to or from the USB memory stick and upgrade the firmware.

- **1** Press the **ESC** button then authenticate as an administrator.
- 2 Go to DEVICE > USB Memory, then press OK.

USB Memory			
Export	•	All	•
Import		All	
FW Upgrade			

3 Select an item and change the settings.

- Export: Selects data to export to the connected USB memory stick. Press the 🕢 buttons to select an item and press OK.
- Import: Selects data to import from the connected USB memory stick. Press the <∕ > buttons to select an item and press OK.
- FW Upgrade: If there are firmware files stored on the USB memory stick, select the firmware file to use and press OK to upgrade the firmware.

Notes

Supported USB memory sticks are as follows. If you use other memory sticks, they may not work properly.

- Samsung Electronics: SUM-LSB 8 GB, SUM-PSB 8 GB, SUM-PSB 16 GB, and SUM-BSG 32 GB
- LG Electronics: XTICK J3 WINDY 8 GB, SMART USB MU1 White 8 GB, MU1 USB 32 GB, MU28GBC 32 GB, XTICK MOBY J1 16 GB
- SanDisk: Cruzer 16 GB, Cruzer Blade CZ50 4 GB, Cruzer Blade CZ50 32 GB, CZ48 Ultra USB 3.0 64 GB, CZ80 USB3.0 64 GB, CZ52 64 GB, Cruzer Glide Z60 128 GB, Cruzer Force CZ71 32 GB
- Sony: Micro Vault Click 8 GB, Micro Vault CLICK 16 GB, USM-SA1 32 GB
- Transcend: JetFlash 760 8 GB, JetFlash 760 32 GB, JetFlash 500 8 GB
- Memorette: MINI500 8 GB
- A-DATA: S102 PRO 8 GB
- TriGem: Pastel 8 GB

Restart Device

The user can restart the device.

- **1** Press the **ESC** button then authenticate as an administrator.
- 2 Go to DEVICE > Restart Device, then press OK.

Restart Dev	ice
	!
Rest	art now?
ок	ESC

3 Press **OK** to restart the device. Press **ESC** to cancel.

Restore Default

You can reset all the device settings.

- **1** Press the **ESC** button then authenticate as an administrator.
- 2 Go to DEVICE > Restore Default, then press OK.

P	Restore Defau	lt
	Reset all	settings?
	ок	ESC

3 Press **OK** to reset all the device settings. Press **ESC** to cancel.

Notes

- If you reset the device, the user levels will be reset as well. Be sure to configure the user level settings after resetting the device.
- The language settings do not change even if you reset the device.

Network

TCP/IP Settings

You can configure the network settings for the device.

- Press the **ESC** button then authenticate as an administrator.
- 2 Go to NETWORK > TCP/IP then press OK.
- **3** Press the 🚸 buttons to select a **Type** then select an item. You can select **Ethernet** or **Wireless**.

< тср/ір	,			
Туре	•	Ethernet	•	
PORT		51211		
DHCP		Enabled		
IP Address		192.168.16.141		
Gateway		192.168.16.1		
Subnet Mask		255.255.255.0		

- **Port**: Enter the port number of the device.
- **DHCP**: Select whether or not to use DHCP. If **Disabled** is selected, the user can modify **IP Address**, **Gateway**, and **Subnet Mask**.
- IP Address: Enter the IP address of the device.
- **Gateway**: Enter the gateway address of the device.
- **Subnet Mask**: Enter the subnet mask address of the device.

< тср/ір				
Туре	•	Wireless	►	I
AP Search		MKNexus5		
Encryption		None		
Password				I
PORT		51211		
DHCP		Enabled		
IP Address		192.168.16.141		

- AP Search: Select the AP to connect to.
- Encryption: Shows the encryption method of the AP.
- Password: Enter the AP login password.
- **Port**: Enter the port number of the device.
- **DHCP**: Select whether or not to use DHCP. If **Disabled** is selected, the user can modify the **IP Address**.
- IP Address: Enter the IP address of the device.

Press **OK** to save the settings.

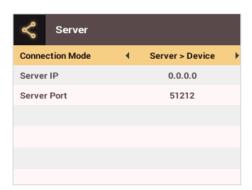
Notes

- Press the number buttons to enter the IP address, gateway address, and subnet mask address. Use the
 button to delete the values entered. Use the
 button to enter a separator.
- To use Wireless, you need a wireless router. For more information on installing and configuring the wireless router, see the manual of the wireless router.

Server Settings

Press the **ESC** button then authenticate as an administrator.

2 Go to NETWORK > Server then press OK.



- 3 Select an item and change the settings.
 - Connection Mode: Select Device > Server to send the connect signal from the device directly to the server. If Server > Device is selected, Server IP and Server Port address cannot be entered.
 - Server IP: Enter the IP address of the PC where BioStar 2 is installed. You can enter the values when Device > Server is selected for Connection Mode.

- Server Port: Enter the port address of the PC with BioStar 2 installed. You can enter the values when Device > Server is selected for Connection Mode.
- 4 Press **OK** to save the settings.

Notes

• Press the number buttons to enter the values for Server IP and Server Port. Use the \checkmark button to delete the values entered. Use the > button to enter a separator.

RS-485 Settings

- **1** Press the **ESC** button then authenticate as an administrator.
- 2 Go to NETWORK > RS-485 then press OK.

« RS-485			
Mode	•	Default	→
Baud Rate		115200	

- **3** Select an item and press the $\langle \rangle$ buttons to change the settings.
 - Mode: Select RS-485 mode.
 - Baud Rate: Select a baud rate.
- 4 Press **OK** to save the settings.

Check Event Log

Search Logs

You can search logs after setting the condition.

- **1** Press the **ESC** button then authenticate as an administrator.
- 2 Go to EVENT LOG > Search then press OK.

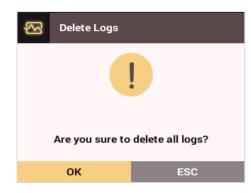
Search	
Start Date	2015.3.3
Start Time	00:00:00
End Date	2015.3.3
End Time	23:59:59
Event	All
T&A Event	All
User ID	

- 3 Select an item and press the 🛷 buttons to change the condition. If you press **OK**, matching logs will be displayed on the screen.
- 4 Press **ESC** to return to the previous screen.

Delete All Logs

You can delete all logs stored on the device.

- **1** Press the **ESC** button then authenticate as an administrator.
- 2 Go to EVENT LOG > Delete All then press OK.



3 Press **OK** to delete all logs. Press **ESC** to cancel.

Check Log Usage

Shows the status of the log usage.

1 Press the **ESC** button then authenticate as an administrator.

2 Go to EVENT LOG > Log Usage then press OK.

	Log Usage	
Total	Log	213
lotar	Log	3,000,000

3 Press **OK** after checking the log usage.

Troubleshooting

Checklist Before Requesting Service

Category	Problem	Possible Causes & Remedy	
Power	Power is supplied to the device, but the device does not work.	 If the terminal is apart from the bracket, it may not work due to the tamper switch. Check the adapter or power connection cable. 	
PIN	l've lost my PIN.	 For a normal user's PIN, contact your administrator and then enter the PIN again. If an administration's PIN is lost, contact your installer. 	
	I cannot open a locked door when I enter a PIN and then press the OK button.	 Check whether the registered PIN is entered correctly. Check whether the PIN has recently been changed. If you cannot find the PIN, contact your administrator to change the PIN. 	
Fingerprint	A fingerprint is enrolled successfully, but the fingerprint recognition fails too often.	 Refer to 'How to Register Fingerprints', and then enroll the fingerprint again. Since there are variations in recognition rates due to the different characteristics of each fingerprint, please try to enroll another fingerprint. If there are many number of enrolled fingerprints, change the Matching 	
		 If a finger is injured, the finger may be recognized as another person's finger. 	
	The fingerprint recognition does not work.	 Check whether the finger or the fingerprint sensor has sweat, water, or dust on it, and then wipe it clear. Try again after clearing the finger and the fingerprint sensor with a dry cloth. If the finger is too dry, try again after blowing gently on the finger. 	
	The fingerprint sensor does not turn on.	 When Sensor Mode set to Auto On, the fingerprint sensor detects if a finger is present. And the sensor is on while the finger is present on the sensor. If you want to keep the fingerprint sensor on, go to AUTHENTICATION > Fingerprint > Sensor Mode and then select Always On. 	
Door lock	The lock does not work when the door is closed.	• The electric lock may have a problem. Ask your installer to examine it.	
Time	The time displayed on the device is not correct.	 Even though BioStation 2 includes an internal battery, the time could become incorrect due to the discharge of the internal battery if power has not been applied to the system for a long time. Refer to Date & Time to adjust the time. 	
Administrator Connection	The administrator mode cannot be accessed due to losing the administrator PIN.	 Since BioStation 2 administrators are in charge of permitting the right of entrance, only the administrators can access the menu. If the administrator menu cannot be accessed, it is possible to get a PIN issued in accordance with a predefined procedure. Ask your installer about the procedure to issue a password. 	

Product Specifications

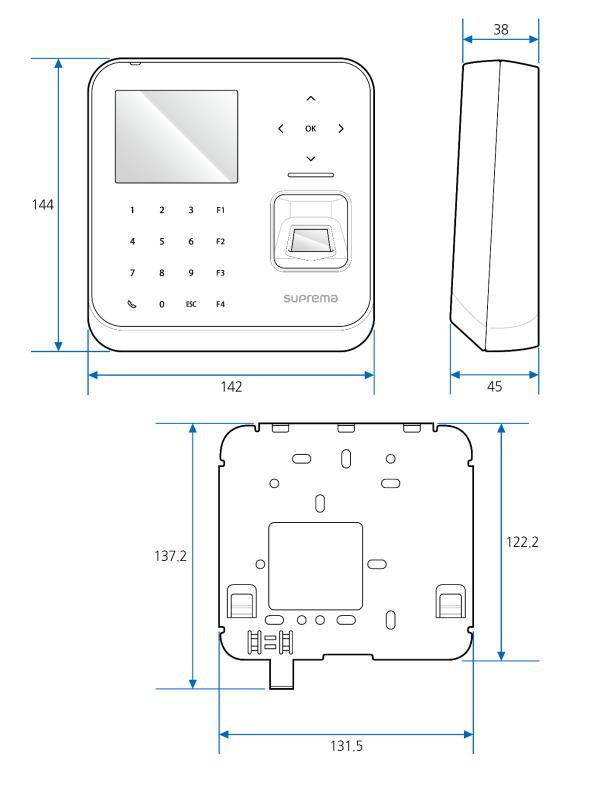
Product Specifications

Category	Feature	Specification
Main	Biometric	Fingerprint
	IP Rating	IP 65
	RF Option*	13.56MHz ISO14443A(MIFARE, DESFire, DESFire EV1), ISO15693, Felica
Capacity	Max. User (1:1)	500,000
	Max. User (1:N)	20,000
	Max. Template (1:1)	1,000,000
	Max. Template (1:N)	40,000
	Max. Text Log	3,000,000
	Wi-Fi	Yes
	TCP/IP	Yes
	RS-485	1ch Host or Slave (Selectable)
luto afo a o	RS-232	Yes
Interface	Wiegand	1ch Input, 1ch Output
	TTL Input	2ch Inputs, 2ch Outputs
	Relay	1 Relay
	USB	USB 2.0 (Host)
Delay	Voltage	Max. 24VDC
Relay	Current	0.5A, Max. 1.A
	CPU	1.0 GHz
	Memory	8GB Flash + 128 MB RAM
	LCD	2.8" QVGA Color LCD
	LED	Multi-Color
	Sound	16-bit Hi-Fi
Hardware	Operating Temp.	-20°C ~ 50°C
	Tamper	Yes
	Power	9V~18V
	PoE	Optional
	Dimensions (W x H x D mm)	142 x 144 x 45(38)
	Certificates	CE, FCC, KC, RoHS, REACH, WEEE

*For detailed information on our supported card list, contact Suprema technical support team at support@supremainc.com.

Dimensions





FCC Compliance Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications of the product not expressly approved by the manufacturer could void the user's authority to operate the equipment according to the FCC Rules.

This appliance and its antenna must not be co-located or operation in conjunction with any other antenna or transmitter. A minimum separation distance of 20 cm must be maintained between the antenna and the person for this appliance to satisfy the RF exposure requirements.

Appendix

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