

FaceStation F2

USER GUIDE

Version 1.00
English

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Safety Instructions

Observe the following instructions to use the product safely and prevent any risk of injury or property damage.

Warning

Noncompliance with instructions can lead to serious injury or death.

Installation

Do not install the device under direct sunlight or UV light.

- Product damage, malfunction, discoloration, or deformation may occur.

Do not install the product in a location with direct sunlight, moisture, dust, or soot.

- Fire or electric shock may occur.

Do not install the product in a location with heat from an electric heater.

- Fire or electric shock may occur due to overheating.

Install the product in a dry location.

- Otherwise, product damage or electric shock may occur due to moisture.

Install the product in a location with no electromagnetic interference.

- Otherwise, product damage or electric shock may occur.

The user should not install or repair the product independently.

- Fire, electric shock, or personal injury may occur.
- If the product has been damaged due to independent installation or repair of the product by the user, free A/S service will not be provided.

Operation

Do not allow liquids such as water, beverages, or chemicals get into the product.

- Fire, electric shock, or product damage may occur.

Caution

Noncompliance of instructions could lead to minor injury or product damage.

Installation

Do not install the power supply cable in a location where people pass by.

- Product damage or physical injury may occur.

Do not install the product near a highly magnetic object such as a magnet, TV, monitor (especially CRT), or speaker.

- Product failure may occur.

Use only a D.C 24 V and 2.5 A or higher power supply adaptor.

- If the proper power supply is not used, the product may not operate properly.

Use a separate power supply for the Secure I/O 2, electric lock, and FaceStation F2, respectively.

- If connecting and using the power supply to these devices together, the devices may malfunction.

Keep the minimum separation distances between the devices when install multiple devices.

- Otherwise, RF performance is affected to the other device, the devices may not operate normally.

Operation

Do not drop the product or apply an impact to the product.

- Product failure may occur.

Manage the password with care; do not to disclose it to others and change it periodically.

- Otherwise, illegal intrusion may occur.

Do not press the buttons on the product forcibly or using a sharp tool.

- Product failure may occur.

When cleaning the product, wipe the product with a soft and dry cloth. Do not apply water, benzene, or alcohol.

- These may cause product failure.

FaceStation F2 uses a capacitive screen and buttons. If the environment is moist from wet weather, or the product surface is smeared with a large amount of water, wipe the product off with a dry towel before using it.

RTC battery

Replacing the battery with an incorrect type of battery may cause explosion.

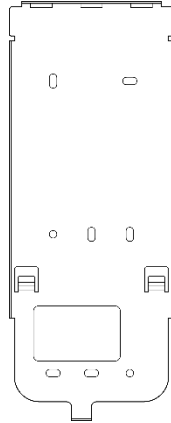
Discard the battery according to appropriate regional or international waste regulations.

Introduction

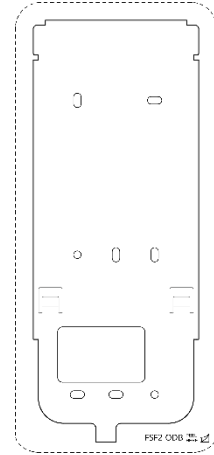
Components



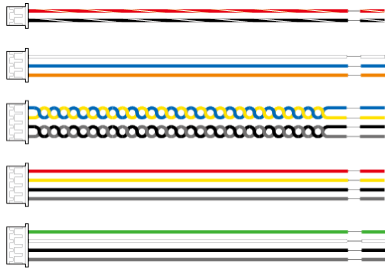
FaceStation F2



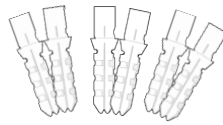
Wall Bracket



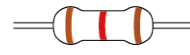
Drilling Template



Connection Cable
(1x2-pin, 1x3-pin, 3x4-pin)



PVC Anchor x6



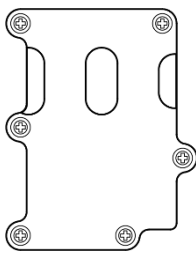
120Ω resistor



Fixing Screw x6



Diode



Cable Cover



Bracket Fixing Screw
(Star Shaped)



Quick Guide

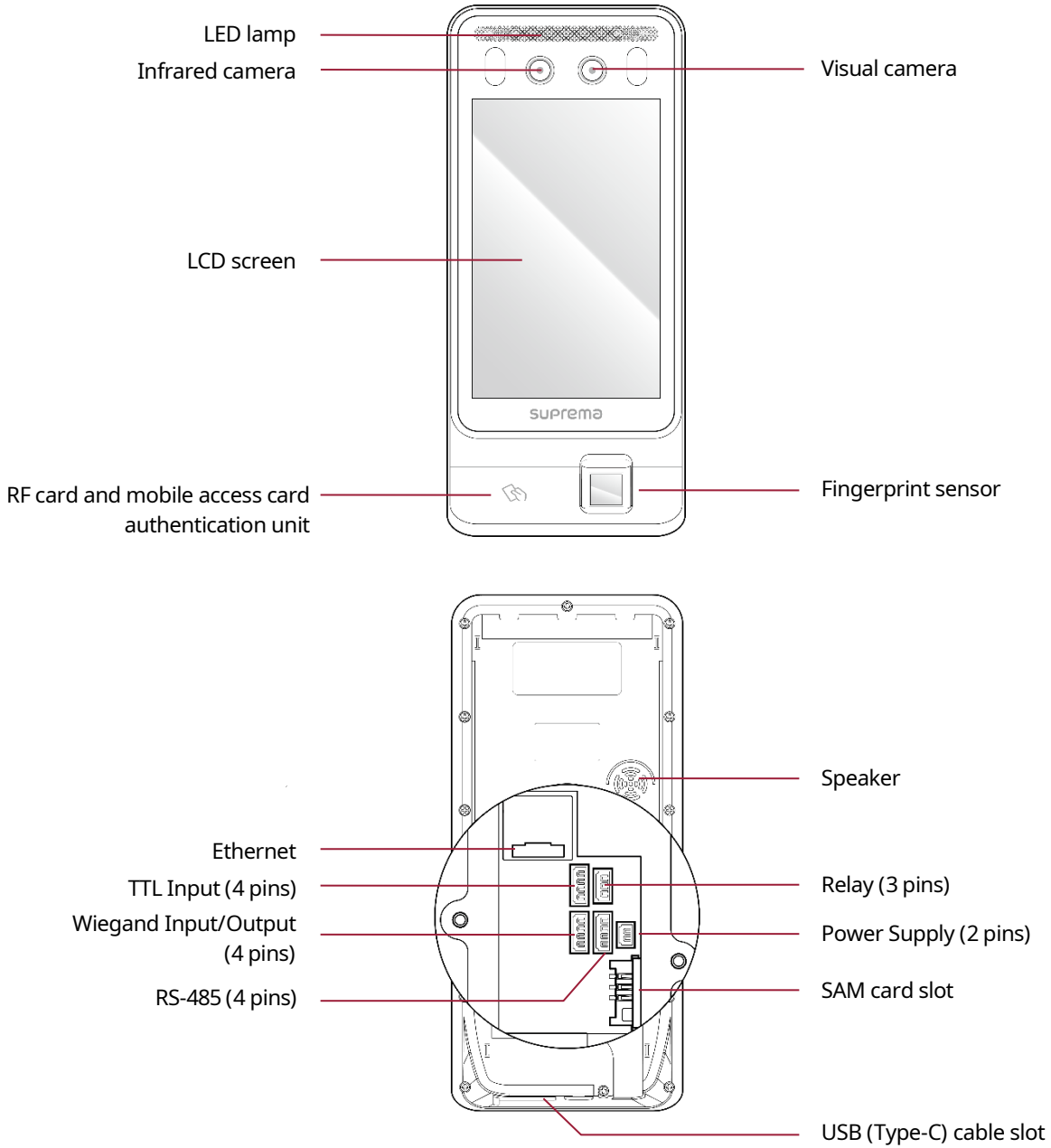


Open Source Software
Guide

NOTE

- Components may vary according to the installation environment.
- When assembling the product with the bracket, you can use the included bracket fixing screw (Star Shaped) instead of the product fixing screw for enhanced security.
- For additional content regarding product installation, visit the Suprema website (<https://www.supremainc.com>) and view the installation guide.

Name and function of each part



Name	Description
LED lamp	Turned on when the user is detected in the dark.
Infrared camera	Capture the infrared face image.
Visual camera	Capture an actual face image.
LCD screen	Provides UI for operation.
RF card and mobile access card authentication unit	Part to scan the card for entrance.

Fingerprint sensor	Reads fingerprints.
Speaker	Delivers sound.
Ethernet	Connect the Ethernet cable.
TTL input (4 pins)	Connect the TTL input cable.
Relay (3 pins)	Connect the relay cable.
Wiegand input/output (4 pins)	Connect the Wiegand input/output cable.
Power supply (2 pins)	Connect the power supply cable.
RS-485 (4 pins)	Connect the RS-485 cable.
SAM card slot	Insert the SAM card.
USB (Type-C) cable slot	Connect the USB cable.

Cables and connectors

Power supply



Pin	Name	Color
1	PWR +VDC	Red (white stripe)
2	PWR GND	Black (white stripe)

Relay



Pin	Name	Color
1	RLY NO	White
2	RLY COM	Blue
3	RLY NC	Orange

RS-485



Pin	Name	Color
1	485 TRXP	Blue
2	485 TRXN	Yellow
3	485 GND	Black
4	SH GND	Gray

TTL input



Pin	Name	Color
1	TTL IN0	Red
2	TTL IN1	Yellow
3	TTL GND	Black
4	SH GND	Gray

Wiegand input and output



Pin	Name	Color
1	WG D0	Green
2	WG D1	White
3	WG GND	Black
4	SH GND	Gray

Correct face registration and authentication method

Cautions for registering a face

- When registering a face, maintain a distance of 60 cm to 100 cm between the device and the face.
- Be careful not to change the facial expression.
- Be careful not to cover the eyes or eyebrows.
- Do not wear masks or sunglasses.
- Be careful not to display two faces on the screen. Register one person at a time.
- If you do not follow the instructions on the screen, the face registration may take longer or may fail.

Cautions for authenticating a face

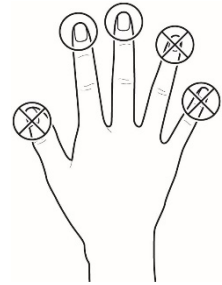
- Ensure that the face appears in the center of the device's screen. When the guideline is displayed, follow the instructions shown on the screen to authenticate the face.
- If a part of the face is covered with a hat, a mask, an eye patch, or sunglasses authentication may fail. Do not cover the face; allow the device to recognize both the eyebrows and the face.

How to enroll a fingerprint

In order to improve the fingerprint authentication rate, register the fingerprint correctly. FaceStation F2 can recognize a fingerprint even if the angle and position of a user's fingerprint input change. If you register the fingerprint with attention to the following matters, the authentication rate can be improved.

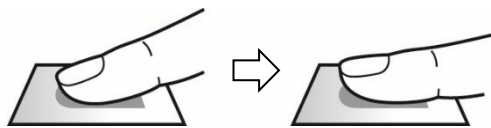
Selecting a finger for fingerprint input

- In preparation for the case that the fingerprint of a specific finger cannot be used, for example if the user is lifting a load with one hand or a finger gets hurt, up to 10 fingerprints for each user can be registered.
- In the case of a user whose fingerprint cannot be recognized well, the authentication rate can be improved by enrolling the same finger twice repeatedly.
- If a finger has a cut or the fingerprint is blurry, select another finger for the fingerprint.
- It is recommended to use the index finger or the middle finger when scanning the fingerprint. The authentication rate can be reduced if it is difficult to place another finger at the center of fingerprint sensor accurately.



Fingerprint enroll method

- 1 When a message saying "Place your finger on the sensor." is displayed on the LCD screen for enrolling the fingerprint, place the finger with the fingerprint you wish to enroll on the fingerprint authentication unit and press the finger gently for better authentication.



- 2 When the re-input screen is displayed after a beep sound, scan the fingerprint of the enrolled finger again (scan the fingerprint of a finger to be enrolled twice).

NOTE

Cautions for enrolling a fingerprint

When a fingerprint is recognized, it is compared with the initially registered fingerprint, so the initial fingerprint enroll is the most important. Pay attention to the following matters when enrolling the fingerprint.

- Place the finger deep enough to contact with the sensor completely.
- Place the center of the fingerprint in the center of the sensor.
- If a finger has a cut or the fingerprint is blurry, select another finger for the fingerprint.
- Scan the fingerprint correctly without moving according to the instruction on the screen.
- If you make the finger upright so that the contact area with the sensor is decreased or the angle of finger is warped, fingerprint authentication may not be performed.



When the fingerprint recognition fails

FaceStation F2 can recognize a fingerprint regardless of a change in season or finger condition. However, the authentication rate may vary according to the external environment or fingerprint input method.


If the fingerprint authentication cannot be done smoothly, it is recommended to take the following measures.

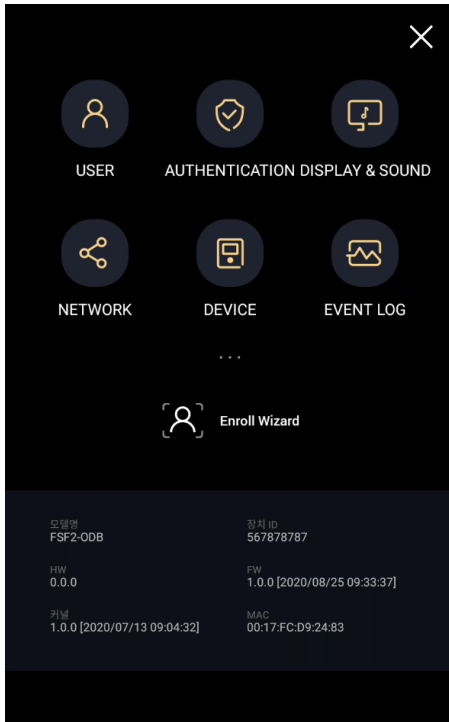
- If the finger is smeared with water or sweat, dry off the finger and then scan the finger.

- If the finger is too dry, blow your breath on the fingertips and then scan the finger.
- If the finger has a cut, register the fingerprint of another finger.
- The initially enrolled fingerprint often may have not been scanned correctly, so enroll the fingerprint again according to '**Cautions for enrolling a fingerprint**'.


Admin Menu

All Menus

- 1 Press  and authenticate with the Admin level credential.
- 2 Select the desired menu.





NOTE

- If the administrator has not been designated, the menu screen will be displayed when you press .

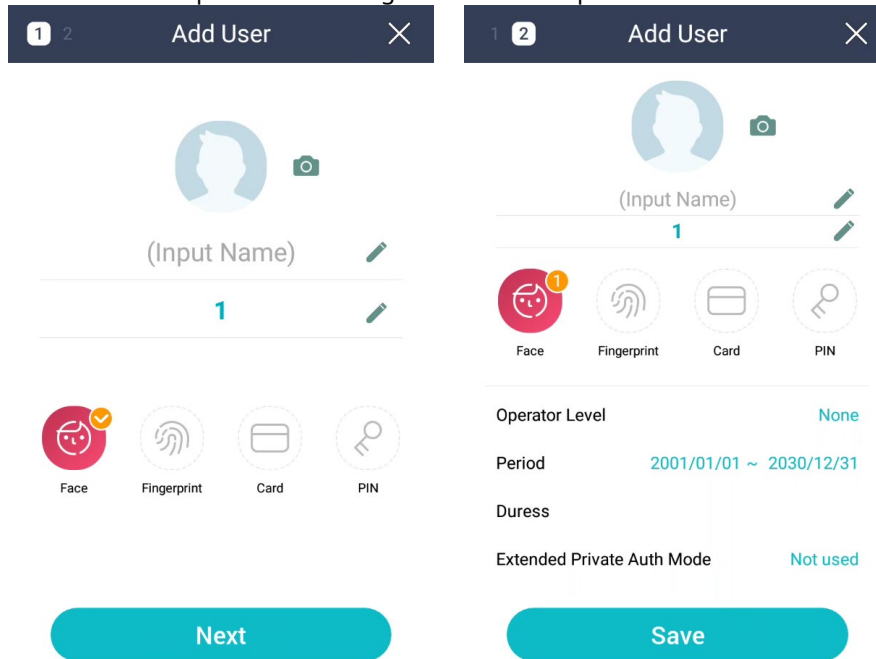
User





Registering User Information

The user information, including the face and fingerprint, can be registered.

- 1 Press  and authenticate with the Admin level credential.
- 2 Select **USER** > , and choose a credential you want to register.

There are two steps for the user registration. Some options are available after the credential has been registered.



- : Register a user photo.
- **Name:** Enter the user name.
- **ID:** Enter a number between 1 and 429467295 to register as the user ID. If **User ID Type** set to **Alphanumeric**, a combination of alphanumeric characters and symbols (_ -) can be used for the ID. Up to 32 characters can be input.
- **Face:** Register a face for user authentication. Press **Face** > **Next** and register a face according to the instructions on the screen. To add more faces, press . Refer to [Registering a face](#) to learn more about the face registration.
- **Fingerprint:** Register a fingerprint for user authentication. Press **Fingerprint** > **Next** and register a fingerprint according to the instructions on the screen. To add more fingerprint, press . Refer to [Registering a fingerprint](#) to learn more about the fingerprint registration.
- **Card:** Register a card for user authentication. Press **Card** > **Next** and scan the card that will be assigned to the user. To register an additional card, press .
- **PIN:** Enter the PIN you wish to use. Enter the PIN you wish to use, and then reenter the same PIN for confirmation. Enter a number between 4 and 16 digits to prevent leaking.
- **Operator Level:** Select the level you wish to assign to a user.

NOTE

Available menus vary according to the set operator level.




- **None:** This is the general user level; menus cannot be accessed.
- **Administrator:** All menus can be accessed.
- **Configuration:** **AUTHENTICATION, DISPLAY & SOUND, DEVICE, NETWORK** and **EVENT LOG** menus can be accessed.
- **User Management:** **USER** and **EVENT LOG** menu can be accessed.

- **Duress:** Select this option to add the fingerprint as a duress fingerprint. When threatened by someone to open the door, the user can authenticate using this fingerprint to send an alarm signal to BioStar 2.
- **Period:** Set an expiry date to use the user account.

- **Extended Private Auth Mode:** Change the authentication method according to the user. You can set whether to use the extended private auth mode. this mode allows you to combine user authentication methods, including both faces and fingerprints. Otherwise, you can use the device's basic authentication mode. You can modify it in BioStar 2.

3 To save settings, press **OK**.




Registering a face

- 1** Press  and authenticate with the Admin level credential.
- 2** Select **USER** > .
- 3** Select  **Face** > **Next**.
- 4** Adjust a distance between the face and screen and look straight at the camera of the device.
- 5** Once your face is captured successfully, press **OK** > **Save**. To retake a photo, press **Re-Shot**.

NOTE

- When registering a face, maintain a distance of 60 cm to 100 cm between the device and the face.
- Be careful not to change the facial expression.
- Be careful not to cover the eyes or eyebrows.
- Do not wear masks or sunglasses.
- Be careful not to display two faces on the screen. Register one person at a time.
- If you do not follow the instructions on the screen, the face registration may take longer or may fail.

Registering a fingerprint



- 1** Press  and authenticate with the Admin level credential.
- 2** Select **USER** > .
- 3** Select  **Fingerprint** > **Next**.
- 4** Scan your fingerprint and verify the same fingerprint again.


NOTE

- Place the finger deep enough to contact with the sensor completely.
- Place the center of the fingerprint in the center of the sensor.
- If a finger has a cut or the fingerprint is blurry, select another finger for the fingerprint.
- Scan the fingerprint correctly without moving according to the instruction on the screen.
- If you make the finger upright so that the contact area with the sensor is decreased or the angle of finger is warped, fingerprint authentication may not be performed.

Modifying User Information

User Management or Administrator can modify the registered user information. A user's face, fingerprint, or card can be added, and the PIN and level can be modified.

- 1** Press  and authenticate with the Admin level credential.
- 2** Select **USER** > .
- 3** Select your search terms. You can search for a user by **All**, **User ID**, **Name**, **Face**, **Fingerprint**, and **Card**.
- 4** Select a user you wish to modify.



- 5** Modify the information by referring to [Registering User Information](#) and press **OK**.
- To delete a user, select  and then press **OK**.

NOTE

- Access Group** can be registered in BioStar 2. For detailed contents regarding registering an access group, refer to the BioStar 2 Administrator Manual.



Delete All Users

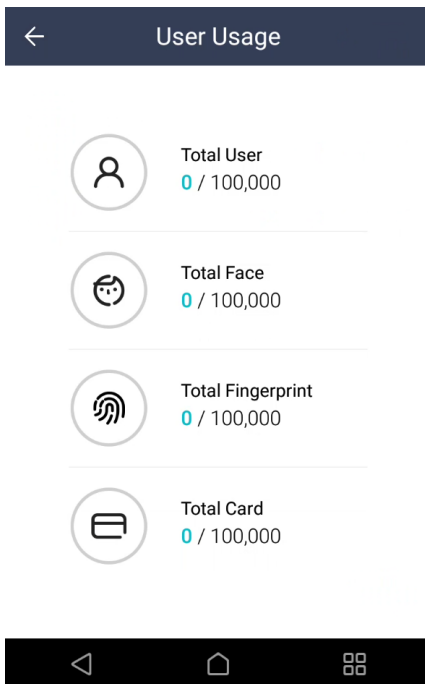
You can delete all registered users at once.

- 1 Press  and authenticate with the Admin level credential.
- 2 Select **USER** > .
- 3 Check **Delete All** to delete all registered users and press **OK**.
- 4 When you press **OK**, all registered users will be deleted.

View User Usage

You can see the number of registered users, faces, fingerprints, and cards at a glance.

- 1 Press  and authenticate with the Admin level credential.
- 2 Select **USER** > . User usage information appears.





Authentication







Auth Mode

Set the authentication mode. You can make a combination of face, fingerprint, PIN, card, or ID and you can also set a schedule for each authentication mode.

Registering auth mode

- 1 Press  and authenticate with the Admin level credential.
- 2 Select **AUTHENTICATION > Auth Mode**, and press .
- 3 Press + and select one of options you want to use. To add additional options, repeat this step.
- 4 Press **Schedule** and set a schedule.


NOTE

- You can combine selected authentication mode to authenticate all in order or only some of the selected authentication mode to authenticate. For example, if you combines the authentication mode with  +  +  , a user should authenticate a face, fingerprint, and PIN, and if you combine the authentication mode with  +  /  , a user authenticates a face first and fingerprint or PIN.
- A schedule can be set in BioStar 2. If there is a no preset schedule, only **Always** can be selected.
- For detailed content regarding setting a schedule, refer to BioStar 2 Administrator's manual.

- 5 Press **OK** to save the settings.



Modifying auth mode

You can set the schedule to be used for each authentication method using a card.

- 1 Press  and authenticate with the Admin level credential.
- 2 Select **AUTHENTICATION > Auth Mode**.
- 3 Select the authentication mode to modify.
- 4 Modify the authentication mode by referring to [Registering auth mode](#) and press **OK**.


Deleting auth mode

You can set the schedule to be used for each authentication method using a card.

- 1 Press  and authenticate with the Admin level credential.
- 2 Select **AUTHENTICATION > Auth Mode**.
- 3 Press  and select the authentication mode to delete. You can select multiple options.
- 4 Press **OK**. To delete the selected option, press **OK**. Or, press **Cancel** to cancel the deletion.

Server Matching

You can set the server matching. When this option is activated, it performs user authentication matching in BioStar 2, not in the device. It can be used when the device has too much user information or when the device is installed outside.


- 1 Press  and authenticate with the Admin level credential.
- 2 Select **AUTHENTICATION** and activate **Server Matching**.

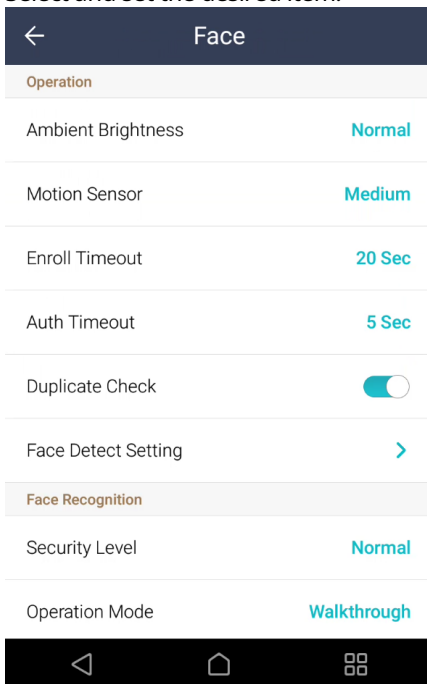
NOTE

- It is only available for fingerprint and card options.
- When you use the server matching option, you need to activate the option in both Biostar 2 and the device. Refer to the administrator manual of BioStar 2 to learn how to set the server matching settings in BioStar 2.

Face

You can change settings regarding the face authentication.

- 3 Press  and authenticate with the Admin level credential.
- 4 Select **AUTHENTICATION > Face**.
- 5 Select and set the desired item.



- **Ambient Brightness:** Detect the ambient brightness and adjust the intensity of IR LED. Change settings according to the installation environment.
- **Motion Sensor:** Set the sensitivity for detecting motion near the device. If **Motion Sensor** is set to **OFF**, press and hold the **ESC** button to authenticate the face.
- **Enroll Timeout:** If a face is not registered during the set time, the face registration will be canceled.
- **Auth Timeout:** If the authentication is not completed during the set time, the authentication will fail.
- **Duplicate Check:** When registering a face, you can check duplicates.
- **Face Detect Setting:** set the face recognition area by adjusting the size and position of the detected area.

NOTE

- It is recommended to maintain the default values of options under Face Detect Setting. The default values of each option are as follows:
 - **Maximum Head Rotation Angle:** 15
 - **Minimum Face Width:** 66

- **Maximum Face Width:** 250
- **Search Range X coordinate:** 144
- **Search Range Width:** 432


- **Security Level:** Set the security level for 1:N authentication.
- **Operation Mode:** Set the operation mode of the device when the face is authenticated.
 - **Fusion Matching:** Use both visual and infrared cameras to increase the face authentication accuracy.
 - **Walkthrough:** The device authenticates users who pass an access point without a pause within the authentication distance.
- **Face Detection:**
 - **Fusion Matching:** Use both visual and infrared cameras are activated, and you can set the strength of matching.
 - **Walkthrough:** You can select whether to use the fake face detection feature. When enabled, you can detect whether the authentication target is a person or a fake face, such as a photo.
- **Advanced Settings:** Set the settings of the face recognition, such as mask detection, thermal camera.
 - **Check Mode:** Set the check mode depending on the usage.
 - **Authentication Fail Sound:** Set the alarm to trigger when a user is not wearing a mask, or the measured temperature is higher than preset threshold.
 - **Mask Detection:** Set the mask detection mode to detect whether a user is wearing a mask or not. If you select **Enabled (Hard)**, it refuses authentication of users who are not wearing a mask and saves event logs. If you select **Enabled (Soft)**, users who are not wearing a mask can authenticate but event logs still be saved.
 - **Thermal Camera:** Set the thermal camera options. If you select **Enabled (Hard)**, it refuses authentication of users with elevated temperature than the preset threshold and saves event logs. If you select **Enabled (Soft)**, users with elevated temperature than the preset threshold can authenticate but event logs still be saved.

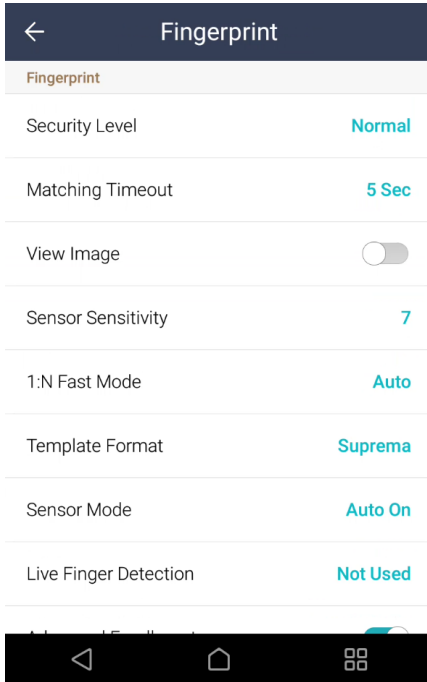
NOTE

- Set the **Check Mode** depending on the usage when **Mask Detection** or **Thermal Camera** is activated.
 - **Check After Authentication:** Measure the temperature after a successful authentication.
 - **Check Before Authentication:** Authenticate only when the user is within the range of the preset temperature threshold. When this mode is activated, it does not attempt to authenticate user's identity if their temperature has been detected to be above the threshold.
 - **Check Only:** Detect temperature without authentication. This mode allows users within the range of the preset threshold to access without checking their identity or access rights.
- When **Thermal Camera** is enabled, you can set advanced settings.
 - **Celsius/Fahrenheit:** Change the unit of temperature.
 - **Threshold Temperature:** Set the threshold temperature to limit the access. Users with detected temperature over the threshold will be denied access.
 - **Save Temperature Data:** Save temperature data. When this mode is activated, it saves both authentication and temperature logs. When this mode is deactivated, it only saves authentication logs.
 - **Show Thermal Infrared Image:** Display infrared imaging on the screen of the devices.
 - **Camera Configuration:** Configure the thermal camera settings for accurate measurement.
- When **Thermal Camera** is enabled, you can configure the thermal camera settings for accurate measurement depending on environment.
 - **Distance(cm):** Set up the distance between the user and device.
 - **Emission Rate:** Set up the emissivity to precisely measure the temperature of the user.
 - **ROI X(%), ROI Y(%), ROI Width(%), ROI Height(%):** If there are lights in the device field of view they may be detected instead of the desired subject. Set the temperature measurement area by adjusting the size and position of ROI (Region of Interest).
 - **Body Temperature Compensation:** You can set the thermal camera to adjust its temperature value automatically measuring the ambient conditions.
- It is recommended to maintain the default values of the camera configuration settings for the best performance. The default values of each option are as follows:
 - **Distance(cm):** 50
 - **Emission Rate:** 0.98
 - **ROI X(%):** 30
 - **ROI Y(%):** 40
 - **ROI Width(%):** 40
 - **ROI Height(%):** 20

Fingerprint

You can change settings regarding the fingerprint authentication.


- 1 Press  and authenticate with the Admin level credential.
- 2 Select **AUTHENTICATION > Fingerprint**.
- 3 Select and set the desired item.

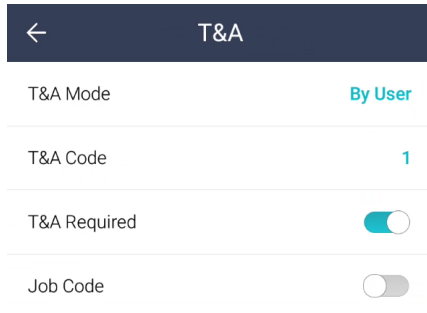



- **Security Level:** Set the security level for 1:N authentication.
- **Matching Timeout:** Set the fingerprint matching timeout. If the authentication is not completed during a set time, the authentication will fail.
- **View Image:** Set to view the original image when scanning the fingerprint.
- **Sensor Sensitivity:** Set the sensitivity of the fingerprint authentication sensor. To obtain more precise fingerprint information by increasing the sensor sensitivity, set the sensor sensitivity higher.
- **1:N Fast Mode:** Set the fingerprint authentication speed. If you select **Auto**, the authentication speed will be set according to all fingerprint templates enrolled on the device.
- **Template Format:** Set the fingerprint template format. SUPREMA is set as the default, and if you change the template format, all fingerprints saved previously cannot be used. Use caution when changing the Template Format.
- **Sensor Mode:** When **Auto On** is set, the fingerprint sensor recognizes a user's fingerprint and turns on. When **Always On** is set, the sensor is always on.
- **Live Finger Detection:** Set the level of the fake fingerprint detection. The higher the fake fingerprint detection level, the higher the rejection rate of fingerprint.
- **Advanced Enrollment:** Inspect the quality of a scanned fingerprint in order to save high quality fingerprint information. When Use is set and the quality of the fingerprint is low, it notifies such information to the user and helps the user scan the fingerprint correctly.
- **Duplicate Check:** When registering fingerprints, you can check duplicates.

T&A Mode

You can set how to register T&A Mode.


- 1 Press  and authenticate with the Admin level credential.
- 2 Select **AUTHENTICATION > T&A**.
- 3 Select and set the desired item.

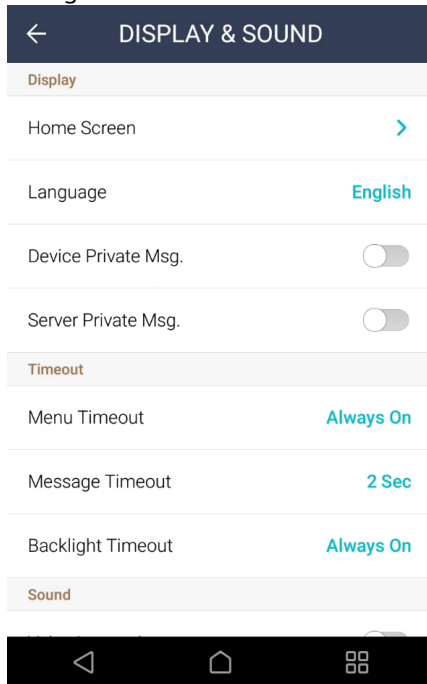


- **T&A Mode:** Set the method to use T&A mode.
- **T&A Code:** You can register T&A events. Select **T&A Code** >  to register a T&A event and set an icon, name of T&A event, and schedule.
- **T&A Required:** Set to require a user to select a T&A event when authenticating.
- **T&A Fixed:** Set to use only a T&A event selected by the administrator. This option can be used when **Fixed** is set for **T&A Mode**.
- **Job Code:** Select whether or not to use Job Code.

Display & Sound

You can change the display and sound settings of the device.

- 1 Press  and authenticate with the Admin level credential.
- 2 Select **DISPLAY & SOUND**.
- 3 Change the desired item.




- **Home Screen:** Select items to be displayed in the background of the home screen.
- **Language:** Set the language you wish to use.
- **Device Private Msg.:** Set whether or not to use a Private Message, which will be displayed on the screen when the user authenticates. You can set **Device Private Msg.** on the device.
- **Server Private Msg.:** Set whether or not to use a Private Message, which will be displayed on the screen when the user authenticates. You can set the **Server Private Msg.** on the device. If you have not set it on the server, the device does not display a message when authentication is successful even if **Server Private Msg.** is enabled on the device.
- **Menu Timeout:** Set the time (in seconds) for the menu screen to disappear automatically. If there is no button input during a set time, the screen will return to the home screen.
- **Message Timeout:** Set the time (in seconds) for a setting complete message or information message to disappear automatically.
- **Backlight Timeout:** Set the time (in seconds) to automatically turn off the lighting of the LCD screen.
- **Voice Instruction:** Set to use the voice instruction instead of alarm sounds.
- **Volume:** Set the volume.

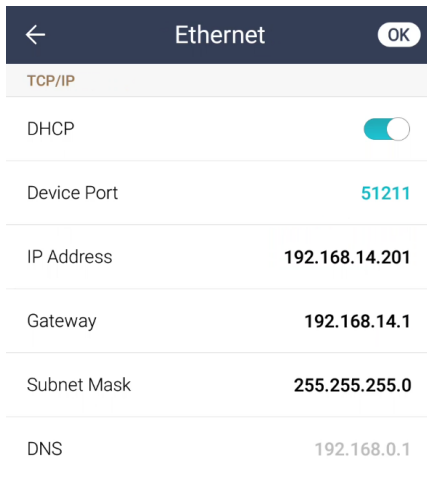
Network

Network Settings

You can change the network settings of the device.

Ethernet


- 1 Press  and authenticate with the Admin level credential.
- 2 Select **NETWORK > Ethernet**.
- 3 Change the desired item.



- **DHCP:** Set whether or not to use DHCP. If DHCP setting is disabled, the user can modify **Port, IP Address, Gateway, Subnet Mask,** and **DNS**.
- **Device Port:** Set the device port.
- **IP Address:** View the IP address of the device. To modify, disable DHCP setting.
- **Gateway:** View the gateway of the device. To modify, disable DHCP setting.
- **Subnet Mask:** View the subnet mask of the device. To modify, disable DHCP setting.
- **DNS:** Set the DNS server address.

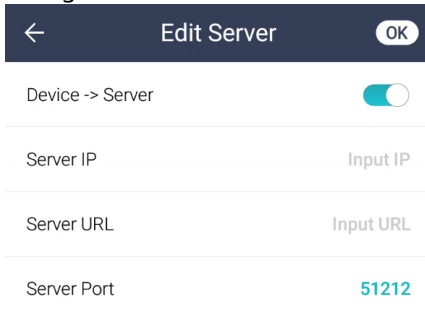
- 4 To save settings, press **OK**.

Server

1 Press  and authenticate with the Admin level credential.

2 Select **NETWORK > Server**.

3 Change the desired item.




←	Edit Server	OK
Device -> Server		<input checked="" type="checkbox"/>
Server IP		Input IP
Server URL		Input URL
Server Port		51212



- **Device -> Server:** You can send a connection signal from the device to a server with the input information directly. When you select **Server -> Device**, **Server IP**, **Server URL** and **Server Port** cannot be entered.
- **Server IP:** Enter the IP address of the PC on which BioStar 2 is installed. Input is accepted only when **Device -> Server** is set for **Connection Mode**.
- **Server URL:** Enter server URL instead of **Server IP**. Input is accepted only when **Device -> Server** is set for **Connection Mode**.
- **Server Port:** Enter the port of the PC on which BioStar 2 is installed. Input is accepted only when **Device -> Server** is set for **Connection Mode**.

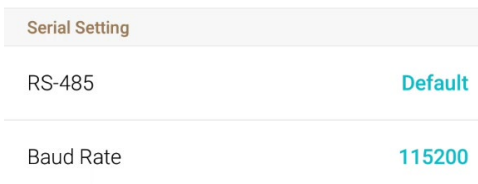
4 To save settings, press **OK**.

Serial Setting

1 Press  and authenticate with the Admin level credential.

2 Select **NETWORK**.

3 Change the desired item.



Serial Setting	
RS-485	Default
Baud Rate	115200


- **RS-485:** Select the RS-485 mode.
- **Baud Rate:** Select the desired baud rate.

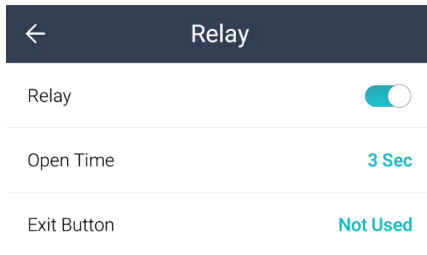
4 To save settings, press **OK**.

Device

Relay

You can set the open time and the input port of the exit button in the device.


- 1 Press  and authenticate with the Admin level credential.
- 2 Select **DEVICE > Relay**.

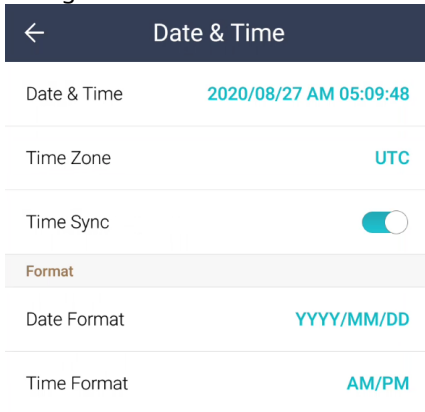


- **Relay:** You can set whether relay is enabled or not. To set the open time and the input port of the exit button, activate this option.
- **Open Time:** Set the duration for the door to remain open when standard user authentication has been carried out.
- **Exit Button:** Select the input port where the exit button is connected.

Date & Time

You can set date and time. Set the date and time accurately in order to collect accurate log data.



- 1 Press  and authenticate with the Admin level credential.
- 2 Select **DEVICE** > **Date & Time**.
- 3 Change the desired item.

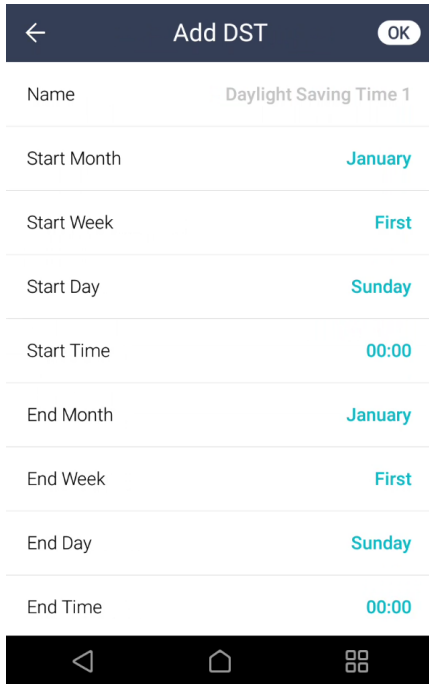


- **Date & Time:** Check the current date and time. To modify it manually, disable **Time Sync**.
- **Time Zone:** Set the time reference of the current location.
- **Time Sync:** Synchronize the server and the time. If you wish to synchronize the server and the time, enable Time Sync.
- **Date Format:** Set the date format. You can select among **YYYY/MM/DD**, **MM/DD/YYYY** and **DD/MM/YYYY**.
- **Time Format:** Set the time format. You can select either **24-Hour** or **AM/PM**.

Daylight Saving Time

You can use the device by applying daylight saving time. Set the start and end time correctly.

- 1 Press  and authenticate with the Admin level credential.
- 2 Select **DEVICE** > **Daylight Saving Time** and press  to add additional daylight saving time.
- 3 Select the desired item and change the setting.




Add DST	
Name	Daylight Saving Time 1
Start Month	January
Start Week	First
Start Day	Sunday
Start Time	00:00
End Month	January
End Week	First
End Day	Sunday
End Time	00:00

- **Name:** Set the name of daylight saving time.
- **Start Month / Start Week / Start Day / Start Time:** Set details of when the daylight saving time option begins.
- **End Month / End Week / End Day / End Time:** Set details of when the daylight saving time ends.

- 4 To save settings, press **OK**.


Device Info

You can view the model name, device ID, serial number, firmware version of device ID, and MAC address.

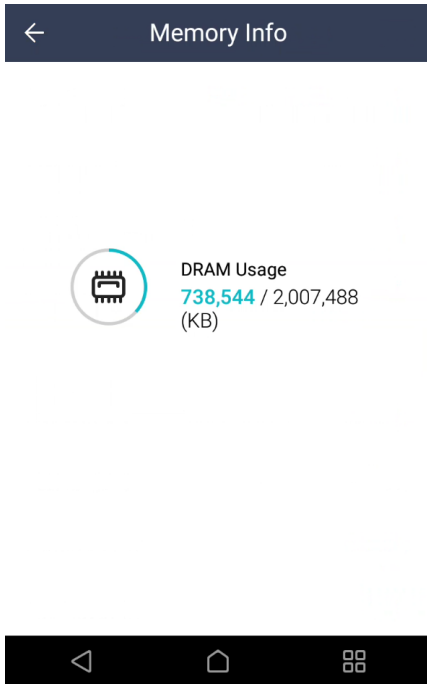
- 1 Press  and authenticate with the Admin level credential.
- 2 Select **DEVICE** > **Device Info**. You can view the information including **Model Name**, **Device ID**, **Serial No.**, **HW**, **FW**, **Kernel**, and **MAC**.

Memory Info

View the status of memory usage.


- 1 Press  and authenticate with the Admin level credential.

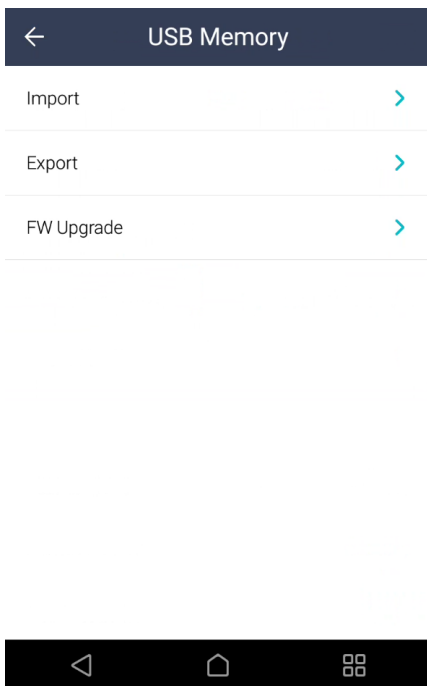
2 Select **DEVICE > Memory Info**. You can view the memory usage status of the device.



USB Memory

Connect USB Memory and import user information to the device or export log and user information from the device. Upgrade the firmware.

- 1** Press  and authenticate with the Admin level credential.
- 2** Select **DEVICE > USB Memory**.
- 3** Select the desired item and change the setting.



- **Import:** Import user information from the connected USB memory.
- **Export:** Select information you wish to export to the connected USB memory.

- **FW Upgrade:** Upgrade the firmware if the firmware files are saved in the connected USB memory.


NOTE

The type of supported USB memory is as follows. If you use a different type of USB memory, the function may not operate normally.

- Samsung Electronics: SUM-LSB 8GB, SUM-PSB 8GB, SUM-PSB 16GB, SUM-BSG 32GB
- LG Electronics: XTICK J3 WINDY 8GB, SMART USB MU1 White 8GB, MU 1 USB 32GB, MU28GBC 32GB, XTICK MOBY J1 16GB
- SanDisk: Cruzer 16GB, Cruzer Blade CZ50 4GB, Cruzer Blade CZ50 32GB, CZ48 Ultra USB 3.0 64GB, CZ80 USB3.0 64GB, CZ52 64GB, Cruzer Glide Z60 128GB, Cruzer Force CZ71 32GB
- Sony: Micro Vault Click 8GB, MicroVault CLICK 16GB, USM-SA1 32GB
- Transcend: JetFlash 760 8GB, JetFlash 760 32GB, JetFlash 500 8GB
- Memorette: MINI500 8GB
- A-DATA: S102 PRO 8GB
- Trigem Pastel 8GB


Secure Tamper

When the tamper is turned on, you can set to delete the entire user, the entire log, and the security key.

- 1 Press  and authenticate with the Admin level credential.
- 2 Select **DEVICE**.
- 3 Activate **Secure Tamper** to delete data of all registered users, all logs, and secure keys when a temper event occurs.


Restart Device

The user can restart the device.

- 1 Press  and authenticate with the Admin level credential.
- 2 Select **DEVICE > Restart Device**.
- 3 To restart the device, press **OK**. To return to the previous screen, press **Cancel**.

Restore Default

Device settings, network settings, and operator levels will be reset.


- 1 Press  and authenticate with the Admin level credential.
- 2 Select **DEVICE > Restore Default**.
 - **All settings:** You can reset all settings stored on the device. Press **OK** to reset all device settings.
 - **Keep Network Settings:** You can reset all settings except network settings. Press **OK** to reset all settings except network settings.
 - **Factory Default:** You can delete all the information saved in the device and the root certificate and restore default settings.
 - **Delete the Root Certificate:** You can delete the root certificate saved in the device.
- 3 If you proceed to restore the defaults, the device will restart.

NOTE

- When you reset, the operator level will be reset as well. After resetting, make sure to set the operator level again.
- Language setting will not change after resetting.
- **Factory Default** menu can be used when the root certificate is saved in the device.
- **Delete the Root Certificate** menu can be used only when the root certificate is saved in the device and Administrator has been designated.

User ID Type



You can set the type of user ID to be registered on the device to a combination of alphabetic characters, numbers, and symbols (_ -).

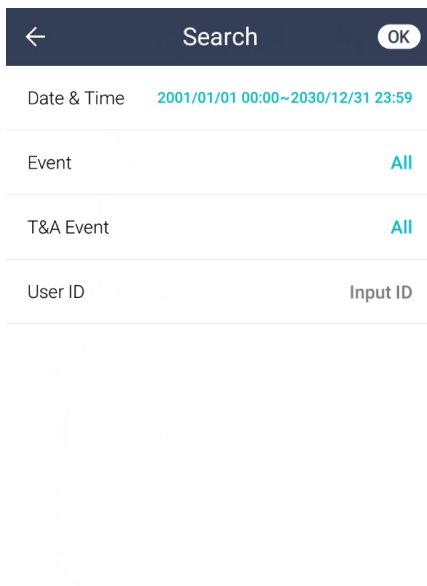
- 1** Press  and authenticate with the Admin level credential.
- 2** Select **DEVICE > User ID Type**.
- 3** Change to the desired item and press **OK**.

Event Log

Search Log

You can set a condition and search a log.



- 1 Press  and authenticate with the Admin level credential.
- 2 Select **EVENT LOG**. All event logs appear.
- 3 Press  to search a specific log and change the condition.



- 4 Press **OK**. A log that matches the condition will be displayed on the screen.



Delete All Logs

You can delete all saved logs.

- 1 Press  and authenticate with the Admin level credential.
- 2 Select **EVENT LOG**.
- 3 To delete all logs, select  and then press **OK**. To return to the previous screen, press **Cancel**.

View Log Usage

You can check the status of log usage.

- 1 Press  and authenticate with the Admin level credential.
- 2 Select **EVENT LOG** > . You can check the capacity of event and image logs on the device.



Total Event Logs
250 / 5,000,000



Total Image Logs
0 / 50,000



Troubleshooting

Checklist before reporting a failure

Classification	Problem	Solution
Power	The power is being supplied but the device does not operate.	<ul style="list-style-type: none"> • If the distance between the terminal and the bracket is too great, the device may not operate due to the temper switch. • Check the adaptor or the power cable.
PIN	I forgot my PIN.	<ul style="list-style-type: none"> • For a normal user PIN, request it from the administrator and reenter the PIN. • If you have lost the Admin PIN, contact the installation company.
	I entered my PIN and pressed the OK button, but I still cannot open the door.	<ul style="list-style-type: none"> • Check if you entered the registered PIN correctly. • Check if you have changed your PIN recently. • If you cannot remember the PIN, request it from the administrator and reenter the PIN.
Face	The face has been registered but face authentication cannot be done smoothly, and errors occur frequently.	<ul style="list-style-type: none"> • Check 'Cautions for registering a face' and register the face again. • If there are a large number of registered faces, change Matching Timeout and try again.
	Face authentication has suddenly stopped working.	<ul style="list-style-type: none"> • Check 'Cautions for authenticating a face' and try again.
Door Lock	The door does not lock when I close the door.	<ul style="list-style-type: none"> • The electric lock may be malfunctioning. Have an inspection performed by the installation company.
Time	The time has suddenly become incorrect.	<ul style="list-style-type: none"> • FaceStation F2 is equipped with a built-in battery; however, if power is not supplied for a long period of time, the built-in battery may die, causing the time to become incorrect. For information on correcting the time, referring to Date & Time.
Admin Access	I lost my Admin PIN, so I cannot access the Admin mode.	<ul style="list-style-type: none"> • The administrator grants access permission in FaceStation F2, so only the administrator can access the Admin menu. • If you need to access the Admin menu, you can have a PIN issued through a special procedure. Ask the installation company for the procedure to issue the password.

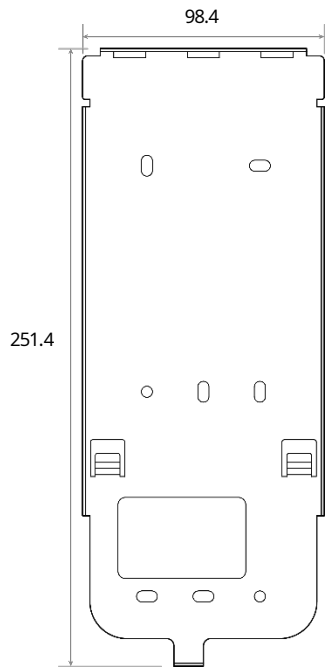
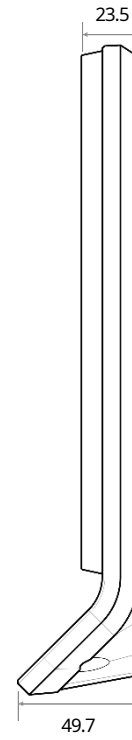
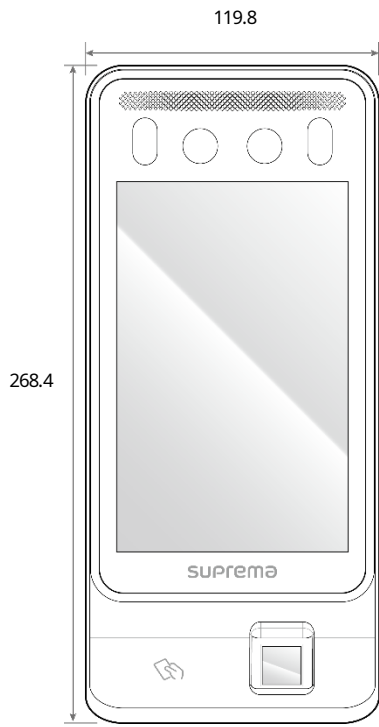
Product specifications

Category	Feature	Specification
Credential	Biometric	Face, Fingerprint
	RF Option	125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire EV1/EV2, FeliCa
	RF read range*	EM/MIFARE/DESFire : 50 mm, FeliCa: 30 mm
	Mobile	NFC, BLE
General	CPU	1.8 GHz Dual Core + 1.4 GHz Quad Core
	Memory	16GB Flash + 2GB RAM
	LCD type	7" IPS color LCD
	LCD resolution	800 x 1280 pixels
	Sound	16bit
	Operating temperature	-20°C ~ 50°C
	Storage temperature	-40°C ~ 70°C
	Operating humidity	0% ~ 80%, non-condensing
	Storage humidity	0% ~ 90%, non-condensing
	Camera	2MP 2EA
	Dimension (W x H x D)	119.8 x 268.4 x 49.7 (mm)
	Weight	Device: 670g Bracket (Including washer and bolt): 205g
	IP rating	IP65
	Certificates	CE, FCC, KC, RoHS, REACH, WEEE
Face	Recognition Distance	0.5 ~ 1.3m
	Recognition Height	1.4 ~ 1.9m
	Matching speed	Less than 0.5 sec
	Live Face Detection	Supported
Fingerprint	Image dimension	300 x 400 pixels
	Resolution	500 dpi
	Template	SUPREMA / ISO19794-2, ANSI-378
	Extractor / Matcher	MINEX certified and compliant
	Sensor Certificates	FBI PIV and FBI Mobile ID FAP20
Capacity	Live Face Detection	Supported (SW-based)
	Max. User (1:1) * Based on one face enrollment per user	100,000
	Max. User (1:N) * Based on one face enrollment per user	<ul style="list-style-type: none"> Face: 50,000 Fingerprint: 100,000
	Max. Text Log	5,000,000
Interface	Max. Image Log	50,000
	Ethernet	10/100 Mbps, auto MDI/MDI-X
	RS-485	1ch Host or Slave (Selectable)
	Wiegand	1ch Input, 1ch Output
	TTL input	2ch Inputs
	Relay	1 Relay
	USB	USB 2.0 (Host)
Electrical	Tamper	Supported
	Power	Voltage: DC 12V ~ DC 24V Current: Max. 2.5 A
	Switch input VIH	Min.: 3 V Max.: 5 V
	Switch input VIL	Max.: 1 V
	Switch Pull-up resistance	4.7 kΩ (The input pots are pulled up with 4.7 kΩ.)
	Wiegand output VOH	More than 4.8 V
	Wiegand output VOL	Less than 0.2 V
	Wiegand output Pull-up resistance	Internally pulled up with 1 kΩ
Relay	Voltage: Max. 30 VDC Current: 1 A, Max. 2 A	

* RF read range will vary depending on installation environment.

Dimensions

(Unit: mm)



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 A 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:

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

This equipment complies with RF exposure requirements set forth for an uncontrolled environment..

EU Declaration of Conformity (CE)

This product is CE marked according to the provisions of the Radio Equipment Directive (RED) 2014/53/EU. Hereby, Suprema Inc. declares that this product is in compliance with the essential requirements and other relevant provisions of Radio Equipment Directive (RED) 2014/53/EU.

- Bluetooth Transmit Power: -0.1 dBm
- Bluetooth Frequency: 2402~2480 MHz
- NFC Frequency: 13.56 MHz
- RFID Frequency: 13.56 MHz + 125 kHz

For more information, contact us at the following contact information.

Suprema Inc.

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Appendices

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Version 3, 29 June 2007

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compliance information

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Warning & Safety Information

Safety Symbols



Warning

- When encountering this symbol in the manual, you must follow these recommendations to avoid irreparable damage to your car, system or connected devices or to avoid accidents with injuries or death.

IC Information

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
 (1) this device may not cause interference, and
 (2) this device must accept any interference, including interference

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
 (1) l'appareil ne doit pas produire de brouillage, et
 (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC 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.

FCC notification to users

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void user's authority to operate the equipment.

Appendix

Escape clause

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