FaceStation F2
USER GUIDE

Version 1.02
English

EN 102.00.FSF2-DB, FSF2-AB V1.02A

Contents

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
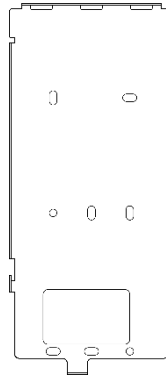
Wall Bracket
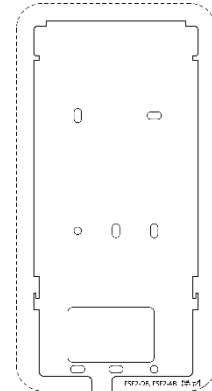
Drilling Template
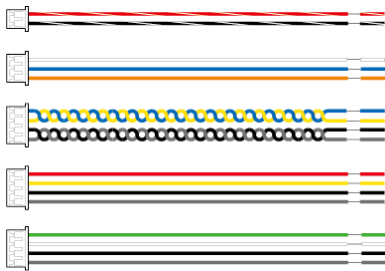
Connection Cable
(1x2-pin, 1x3-pin, 3x4-pin)
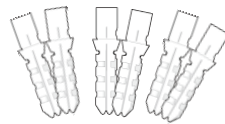
PVC Anchor x6

Fixing Screw x6

120Ω resistor

Diode
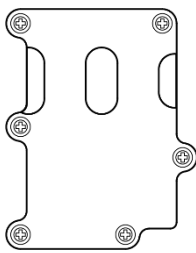
Cable Cover

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

LED lamp

Infrared camera

LCD screen

RF card and mobile access card authentication unit

Visual Camera

Ethernet

TTL Input (4 pins)

Wiegand Input/Output (4 pins)

RS-485 (4 pins)

Speaker

Relay (3 pins)

Power Supply (2 pins)

SAM card slot

USB (Type-C) cable slot
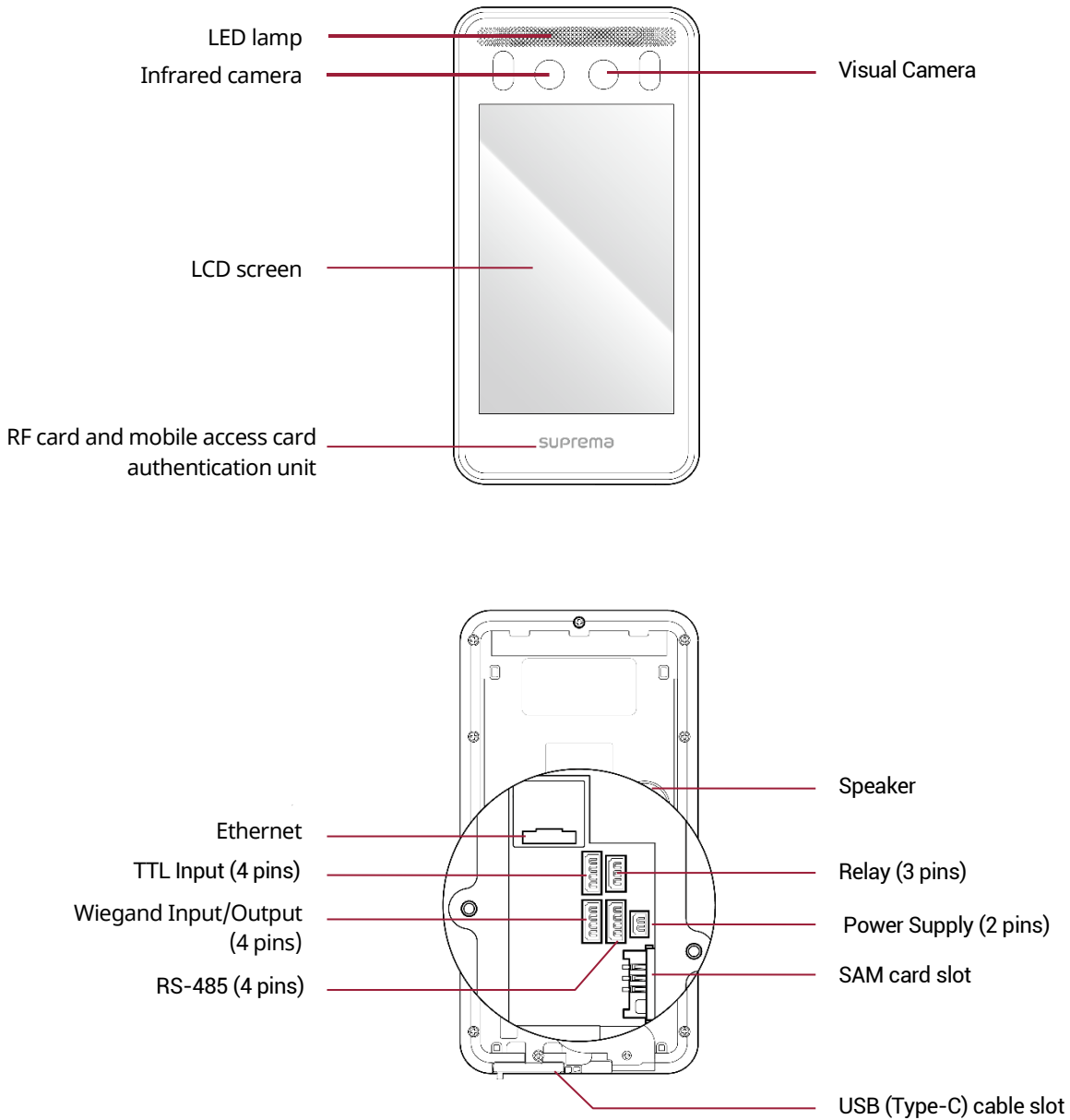
Name	Description
LED lamp	Turned on when the user is detected in the dark.
Infrared camera	Capture the infrared face image.
Visual camera	Capture an actual face image.
LCD screen	Provides UI for operation.
RF card and mobile access card authentication unit	Part to scan the card for entrance.
Speaker	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.
- Do not change your face expression.
- Do not wear masks, hats, or eye patches.
- Do not raise head up or lower head.
- Do not close your eyes.
- Do not wear thick makeup.
- 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.

Admin Menu

All Menus

1   Press ⠿ and authenticate with the Admin level credential.

2   Select the desired menu.
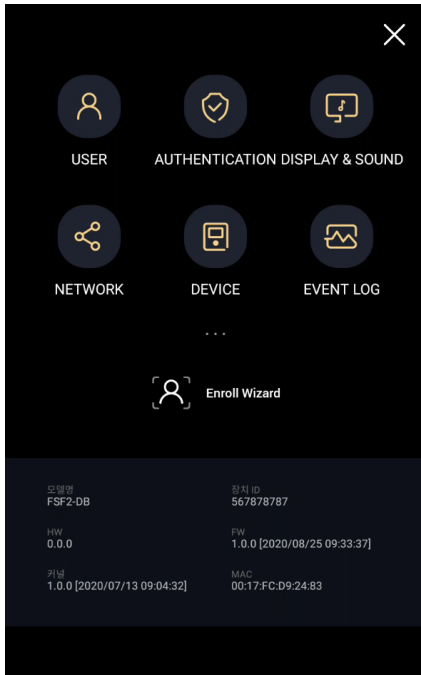
NOTE
- If the administrator has not been designated, the menu screen will be displayed when you press ⠿

User

Registering User Information

The user information, including the face, 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.
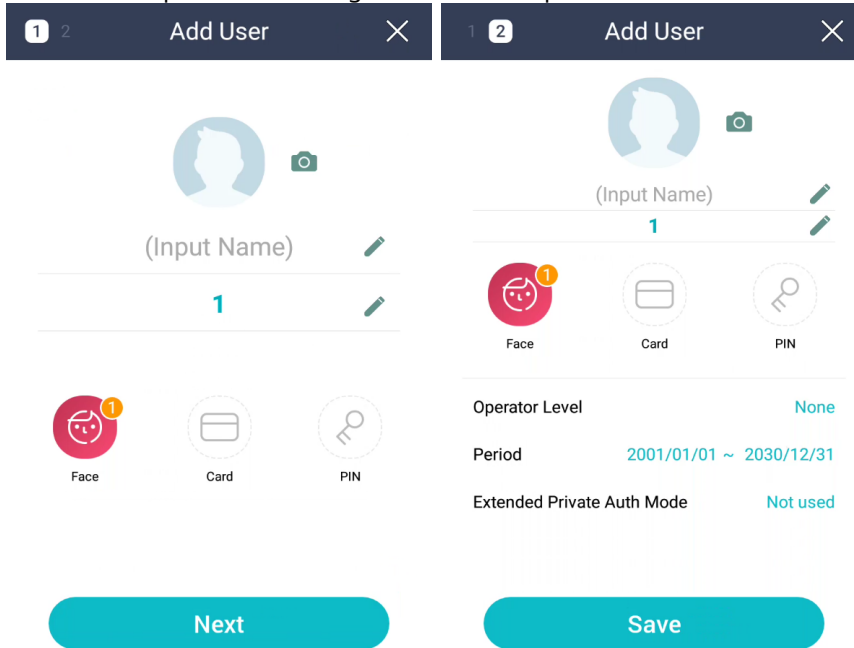

- 📷 : Register a user photo.
- **Name**: Enter the user name.
- **ID**: Enter a number between 1 and 429467295 to register as the user ID. If **User ID Type** set to **Alphanumeric**, a combination of alphanumeric characters and symbols (_, -) can be used for the ID. Up to 32 characters can be input.
- **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.
- **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.

- **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 faces. 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
- The visual face data of FaceStation F2 are not compatible with face templates of FaceStation 2 or FaceLite.
- You can register Visual Face not only directly from FaceStation F2 but from the BioStar 2 by uploading photos or importing CSV files. You can also register Visual Face with your smartphone via a link sent from BioStar 2. To learn more about how to register Visual Face for each method, please refer to the BioStar 2 help manual.
- To use a Visual Face feature correctly, take a picture by following instructions below.
  - When registering a face, maintain a distance of 60 cm to 100 cm between the device and the face.
  - Do not change your face expression.
  - Do not wear masks, hats, or eye patches.
  - Do not raise head up or lower head.
  - Do not close your eyes.
  - Do not wear thick makeup.
  - 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.

Modifying User Information

User Management or Administrator can modify the registered user information. A user's face 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**, 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, and cards at a glance.

1 Press ⠿ and authenticate with the Admin level credential.

2 Select **USER** > ⓘ. User usage information appears.
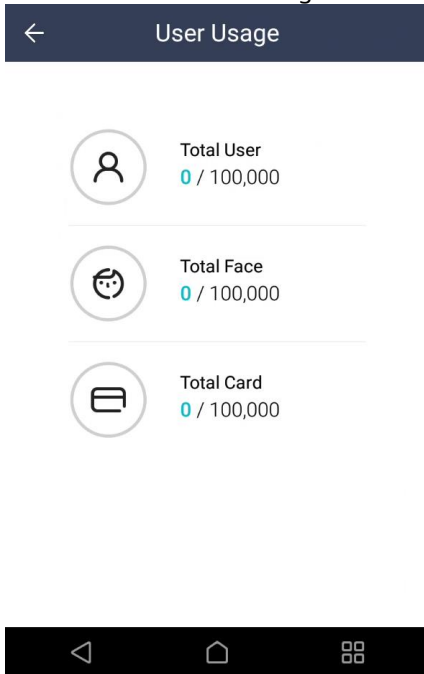
Authentication

Auth Mode

Set the authentication mode. You can make a combination of face, 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 card, face, and PIN, and if you combine the authentication mode with ▭ + ◉ / ⚷ , a user authenticates a card first and face 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 (Card, ID).**

> **NOTE**
> - It is only available for card and ID 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.
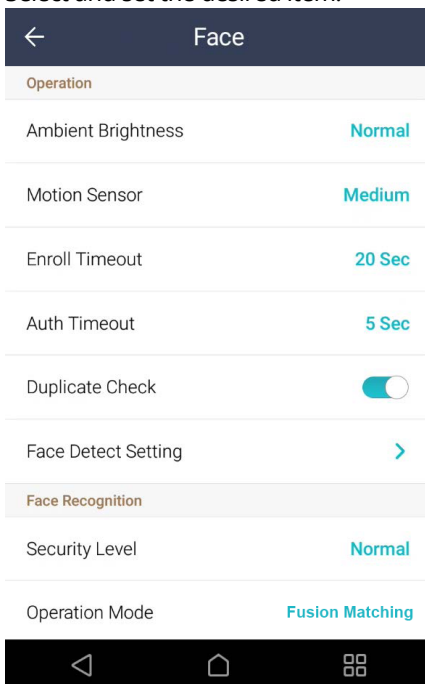
- **Ambient Brightness**: Detect the ambient brightness and adjust the intensity of IR LED. Change settings according to the installation environment.
- **Motion Sensor**: Set the sensitivity for detecting motion near the device. If **Motion Sensor** is set to **OFF**, Tap the screen to authenticate 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.
    - **Fast Matching**: The device authenticates users who pass an access point without a pause within the authentication distance.
- **Face Detection**: The device prevents user authentication using fake faces, such as photos. It is available when **Operation Mode** is set to **Fusion Matching**.
- **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 the 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 a higher temperature than the preset threshold and saves event logs. If you select **Enabled (Soft)**, users with a higher 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.
    - **Low Threshold Temperature**: Set the minimum threshold temperature to limit the access. Users with detected temperature below the threshold will be denied access. It can be set between 1°C to 45°C and cannot be higher than the value of the maximum threshold temperature.
    - **High Threshold Temperature**: Set the maximum threshold temperature to limit the access. Users with detected temperature over the threshold will be denied access. It can be set between 1°C to 45°C and cannot be higher than the value of the minimum threshold temperature.
    - **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.
    - **Dynamic ROI**: If there are ambient light sources near the device, the thermal camera may incorrectly measure the subject's temperature. You can set the thermal camera to automatically measure the skin temperature by detecting the ROI (Region of Interest) and to avoid detecting the temperature of ambient light 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.
    - **Emissivity**: 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).
    - **Skin Temperature Compensation**: You can set the thermal camera to adjust its temperature value automatically measuring the ambient conditions.
    - **Skin Temperature Correction**: You can set the thermal camera to compensate for variations in caused by the ambient environment that consistently affect temperature measurement. For example, if the environment is causing temperature to be measured at 0.1°C higher, set the temperature correction to -0.1.
    - **FW**: It shows the current firmware version of the thermal camera when it is connected properly.

- 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)**: 100
  - **Emissivity**: 0.98
  - **ROI X(%)**: 30
  - **ROI Y(%)**: 25
  - **ROI Width(%)**: 50
  - **ROI Height(%)**: 55
- The supported thermal camera is TCM10-FSF2.
- For details on installing and connecting the thermal camera, visit the Suprema website (https://www.supremainc.com) and view the TCM10-FSF2 setup guide.

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
T&A Mode	By User
T&A Code	1
T&A Required	⬤
Job Code	◯

◁　　△　　⊞
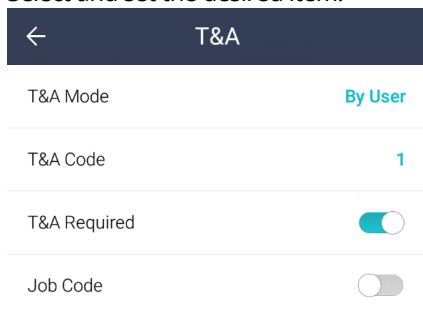
- **T&A Mode**: Set the method to use T&A mode.
- **T&A Code**: You can register T&A events. Select **T&A Code** > ⊕ to register a T&A event and set an icon, name of T&A event, and schedule.
- **T&A Required**: Set to require a user to select a T&A event when authenticating.
- **Fixed T&A Key**: Set 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.
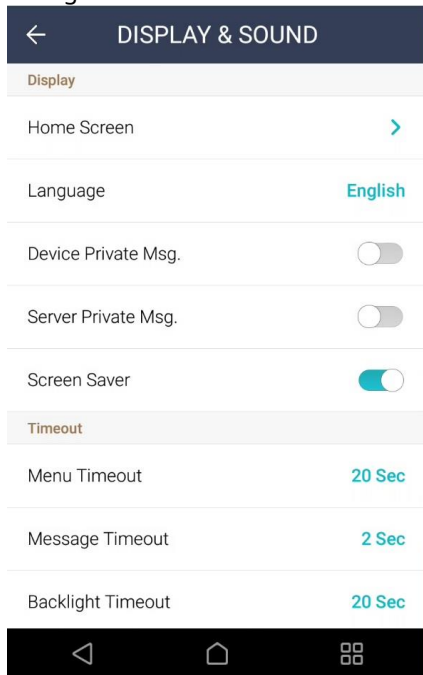
- **Home Screen**: Select items to be displayed in the background of the home screen.
- **Language**: Set the language you wish to use.
- **Device Private Msg.**: Set whether or not to use a Private Message, which will be displayed on the screen when the user authenticates. You can set **Device Private Msg.** by using the BioStar 2 Device SDK.
- **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.** by using the BioStar 2 API. 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.
- **Screen Saver**: Set this option to use the screen saver feature. It reduces unnecessary energy consumption by lowering the brightness of the LCD screen when the device is not in use.
- **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.

NOTE
- Refer to the BioStar 2 Device SDK webpage on the Suprema Knowledge Base website (kb.supremainc.com/bs2sdk/) for more information on the BioStar 2 Device SDK.

Network

Network Settings

You can change the network settings of the device.

Ethernet

1   Press [icon] and authenticate with the Admin level credential.

2   Select **NETWORK** > **Ethernet**.

3   Change the desired item.
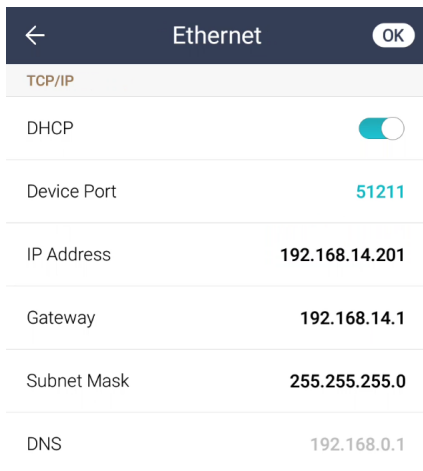
- **DHCP**: Set whether or not to use DHCP. If DHCP setting is disabled, the user can modify **Port**, **IP Address**, **Gateway**, **Subnet Mask**, and **DNS**.
- **Device Port**: Set the device port.
- **IP Address**: View the IP address of the device. To modify, disable DHCP setting.
- **Gateway**: 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.
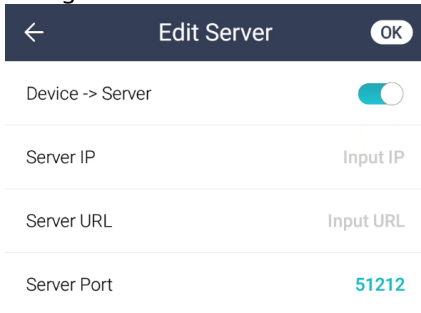
4   To save settings, press **OK**.

Server

1 Press ⊞ and authenticate with the Admin level credential.

2 Select **NETWORK** > **Server**.

3 Change the desired item.

←	Edit Server	OK
Device -> Server		⬤
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**.
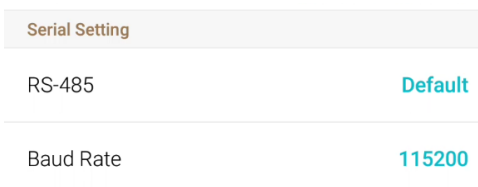
4 To save settings, press **OK**.

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**.
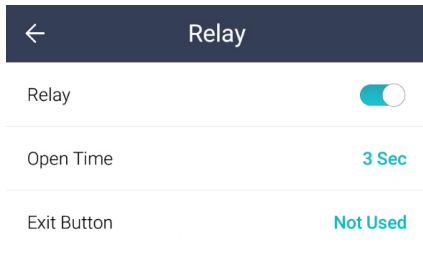
- **Relay**: You can set whether relay is enabled or not. To set the open time and the input port of the exit button, activate this option.
- **Open Time**: Set the duration for the door to remain open when standard user authentication has been carried out.
- **Exit Button**: Select the input port where 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.
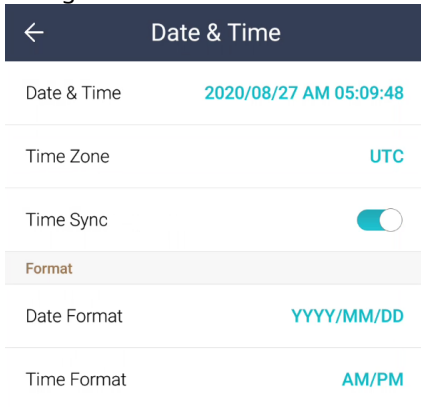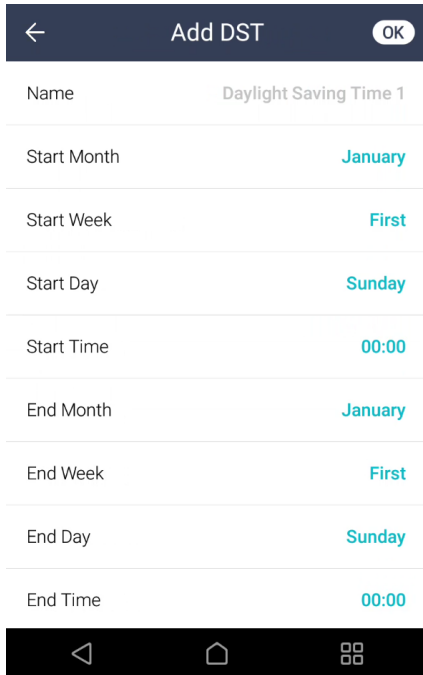
- **Date & Time**: Check the current date and time. To modify it manually, disable **Time Sync**.
- **Time Zone:** Set the time reference of the current location.
- **Time Sync**: Synchronize the server and the time. If you wish to synchronize the server and the time, enable Time Sync.
- **Date Format**: 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	OK
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.
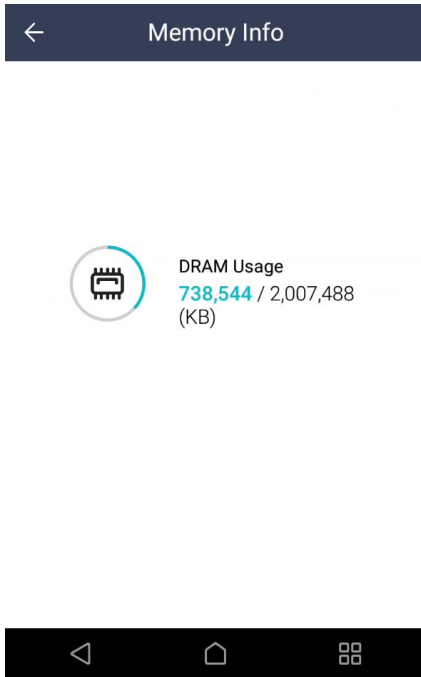
USB Memory

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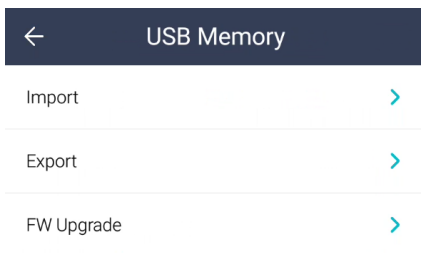
- **Import**: Import user information from the connected USB memory.
- **Export**: Select information you wish to export to the connected USB memory.

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

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.

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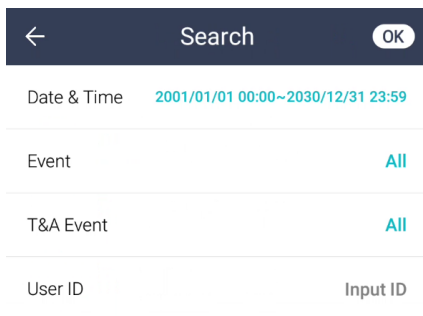
4 Press **OK**. A log that matches the condition will be displayed on the screen.

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.

Troubleshooting

Checklist before reporting a failure

Classification	Problem	Solution
Power	The power is being supplied but the device does not operate.	• 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.
	The terminal reboots abnormally.	• Upgrade the terminal's firmware to the latest version.
PIN	I forgot my PIN.	• 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.	• 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.	• 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.	• Check 'Cautions for authenticating a face' and try again.
	Mask Detection is enabled, but face authentication cannot be done smoothly when wearing a mask.	• Authenticate your face twice with the mask pull down on the tip of your nose. Then, authenticate your face again wearing a mask that covers your nose completely. If the problem persists, contact the installation company.
	The thermal camera fails to measure temperature.	• Check if the thermal camera is properly connected to the terminal. • Measure the temperature again without covering your forehead. If the problem persists, contact the installation company.
	The thermal camera measures lower temperature than actual temperature.	• If a user measures the temperature after being exposed to cold temperatures for a long time, the temperature may be measured lower than actual temperature. Wait for 1 to 2 minutes indoors and try again. If the problem persists, contact the installation company.
Door Lock	The door does not lock when I close the door.	• The electric lock may be malfunctioning. Have an inspection performed by the installation company.
Time	The time has suddenly become incorrect.	• 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.	• 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
	RF Option	• **FSF2-DB**: 125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire EV1/EV2*, FeliCa • **FSF2-AB**: 125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire EV1/EV2, FeliCa, iCLASS SE/SR/Seos
	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 223 x 23.5 (mm)
	Weight	Device: 585g Bracket (Including washer and bolt): 181 g
	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 (Deep learning-based)
Capacity	Max. User (1:1) * Based on one face enrollment per user	100,000
	Max. User (1:N) * Based on one face enrollment per user	Face: 50,000 Card: 100,000
	Max. Text Log	5,000,000
	Max. Image Log	50,000
Interface	Ethernet	10/100 Mbps, auto MDI/MDIX
	RS-485	1ch Host or Slave (Selectable)
	Wiegand	1ch Input, 1ch Output
	TTL input	2ch Inputs
	Relay	1 Relay
	USB	USB 2.0 (Host)
	Tamper	Supported
Electrical	Power	Voltage: DC 12V ~ DC 24V Current: Max. 2.5 A * Use a 24V/2.5A adapter. Must follow the product manual when using a 12V adapter.
	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

* DESFire EV2 cards are supported by having backward compatibility of DESFire EV1 cards. CSN and smart card functions are compatible with Suprema devices.
* RF read range will vary depending on installation environment.

Dimensions

119.8

233

23.5

98.4

233
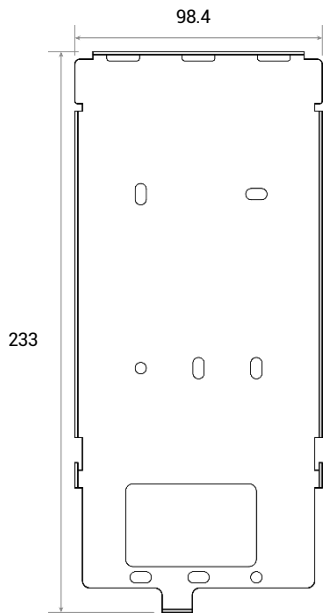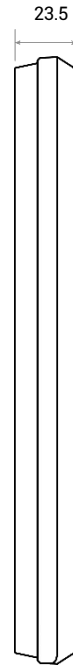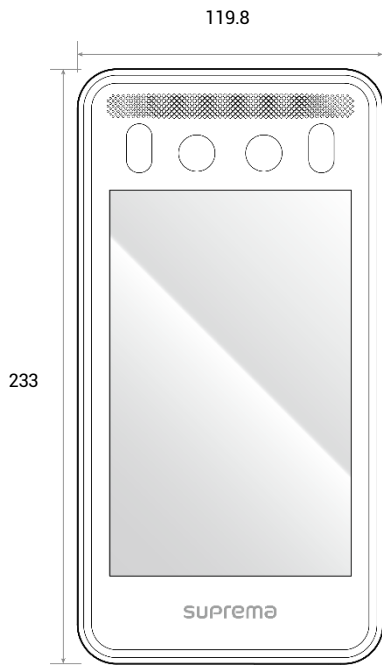
FCC compliance information

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:

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

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

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.
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Website: https://www.supremainc.com
Address: 17F Parkview Tower, 248, Jeongjail-ro, Bundang- gu, Seongnam-si, Gyeonggi-do, 13554, Rep. of KOREA
Tel: +82-31-783-4502 / Fax: +82-31-783-4503

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