

FaceStation 2 USER GUIDE

Version 1.20 English

EN 102.00.FS2 V1.20A

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Safety Instructions

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



Noncompliance with instructions can lead to serious injury or death.

Installation

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.



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 2, 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 affect 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 2 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.

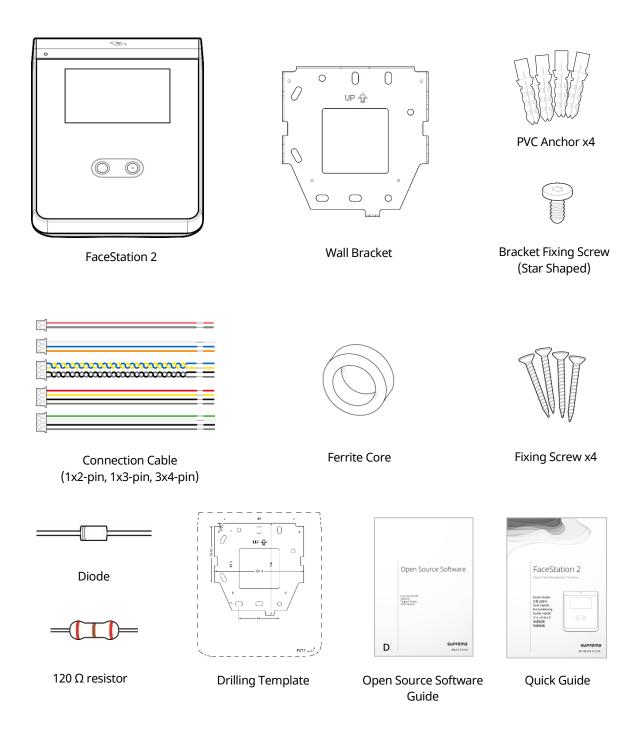
RTC battery

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

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

Introduction

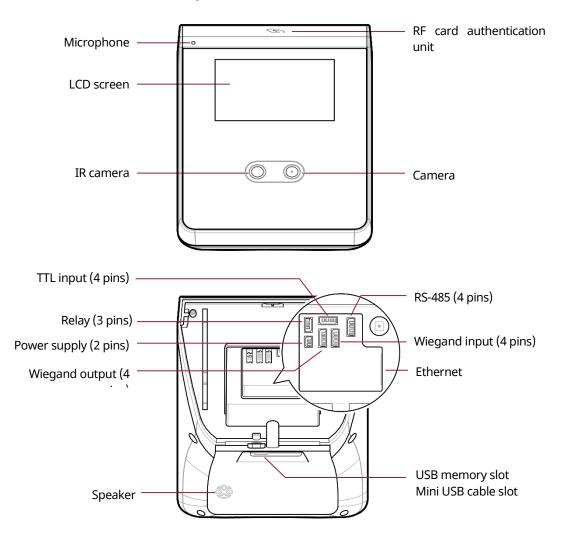
Components



NOTE

- Components may vary according to the installation environment.
- The tilting bracket and thermal camera for FaceStation 2 is sold separately.
- 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 (www.supremainc.com) and view the installation guide.

Name and function of each part



| Name | Description | |
|-----------------------------|--|--|
| Microphone | Delivers the voice of the user when the interphone is connected. | |
| LCD screen | Provides UI for operation. | |
| IR camera | Captures IR images. | |
| Camera | Captures actual images. | |
| RF card authentication unit | Scans the card for entrance. | |
| Speaker | Delivers sound. | |
| USB memory slot | Connects USB memory. Suprema Thermal Camera (TCM10-FS2) and USB memory cannot be used at the same time. | |
| Mini USB cable slot | Will be supported in the future. | |
| TTL input (4 pins) | Connects the TTL input cable. | |
| RS-485 (4 pins) | Connects the RS-485 cable. | |

| Relay (3 pins) | Connects the relay cable. | |
|-------------------------|------------------------------------|--|
| Power supply (2 pins) | onnects the power supply cable. | |
| Ethernet | Connects the Ethernet cable. | |
| Wiegand input (4 pins) | Connects the Wiegand input cable. | |
| Wiegand output (4 pins) | Connects the Wiegand output cable. | |

Cables and connectors

Power



| 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 40cm to 80cm between the device and the face.
- Be careful not to change the facial expression. (smiling face, drawn face, wink, etc.)
- If you do not follow the instructions on the screen, the face registration may take longer or may fail.
- Be careful not to cover the eyes or eyebrows.
- Do not wear hats, masks, sunglasses or eyeglasses.
- Be careful not to display two faces on the screen. Register one person at a time.
- It is recommended for a user wearing glasses to register both faces with and without glasses.

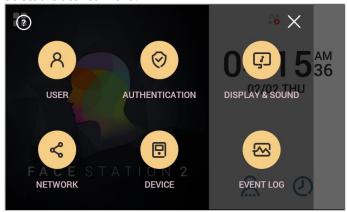
Cautions for authenticating a face

- Ensure that the face appears inside the guideline displayed on the screen of the device.
- If glasses have been changed, authentication may fail. If the face without glasses has been registered, authenticate the face without glasses. If only the face with glasses has been registered, authenticate the face with the previously worn glasses again.
- 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

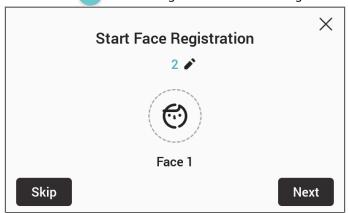
If the administrator has not been designated, the menu screen will be displayed when you press

User

Registering user information

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

- 1 Press and authenticate with the Admin level credential.
- **2** Press **User** > . The face registration wizard will begin.



- **3** To proceed with the face registration wizard, press **Next**. To skip, press **Skip** and go to step 5.
- **4** If you have pressed **Next**, register the face according to the instructions on the screen. Face registration is carried out in 3 steps.
 - (1) Registering the front face



(2) Moving the face up and down



(3) Moving the face to the left and right

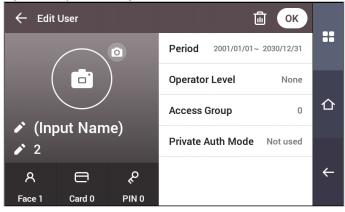


When the face registration wizard is used, only the user's face is registered. Modify other information by pressing **Edit** after registering the face.

NOTE

- When registering a face, maintain a distance of 40cm to 80cm between the device and the face.
- Be careful not to change the facial expression. (smiling face, drawn face, wink, etc.)
- If you do not follow the instructions on the screen, the face registration may take longer or may fail.
- Be careful not to cover the eyes or eyebrows.
- Do not wear hats, masks, sunglasses or eyeglasses.
- Be careful not to display two faces on the screen. Register one person at a time.
- It is recommended for a user wearing glasses to register both faces with and without glasses.

5 If you have pressed **Skip**, select and set the desired item.



- Take a picture of a user with the built-in camera.
- 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 \bigcirc and register a face according to the instructions on the screen. To register another face, press \bigcirc again.
- **Card**: Register a card for user authentication. Press + and scan the card that will be assigned to the user. To register an additional card, press + again.
- **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.
- **Validity period**: Set a Start Date and End Date to use the user account. When you press the first date, you can set **Start Date**, and when you press the second date, you can set **End Date**.
- **Operator Level**: Select the level you wish to assign to a user.
- **Face Group**: Select a face group for the user. Face groups can be used only when **Group Matching** is enabled, and these groups can be registered only in BioStar 2.
- Access Group: Check an access group for the user. Access groups can only be registered in BioStar 2.
- **Private Auth Mode**: Change the authentication method according to the user.

NOTE

Available menus vary according to the set operator level.

- **None**: This is the general user level; menus cannot be accessed.
- Full 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.
- **6** When you press **OK**, settings will be saved.

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 Press User > Q.
- 3 Select your search terms. You can search for a user by **User ID**, **Name**, **Face** and **Card**.
- 4 Select a user you wish to modify and modify the information by referring to **Registering user information**.
 - To select a user, press iii 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

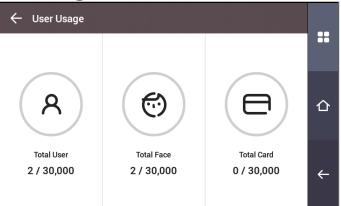
You can delete all registered users at once.

- 1 Press 📲 and authenticate with the Admin level credential.
- 2 Press User > iii and select Delete All or select a user you wish to delete.
- **3** 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.
- Press User > 1.



Authentication

Auth Mode

Modifying Auth Mode

You can set the authentication method and schedule according to each credential.

- 1 Press 📰 and authenticate with the Admin level credential.
- 2 Press AUTHENTICATION > Auth Mode.
- **3** Press to add an auth mode or press an auth mode you wish to modify.
- **4** Pressing the **⊗** icon will delete the selected credential, and pressing → will display an addable credential on the screen.



5 Set the desired auth mode and select a schedule.

| Classification | Description | |
|----------------|---|--|
| Face | : Mode allowing authentication with a face only. • • • • • • • • • • • • • • • • • • • | |
| | + W: Mode to authenticate with a face and PIN. | |
| | Mode allowing authentication with a card only | |
| | • 🛑 + 🚳: Mode allowing authentication with a card and then with a face. | |
| | • 📵 + 🙆: Mode allowing authentication with a card and PIN. | |
| Card | • | |
| | PIN. | |
| | • 📵 + 🚳 + 🕗: Mode allowing authentication with a card and then with both a face | |
| | and PIN input. | |
| | • 🏀 + 🎯: Mode allowing authentication by entering ID and then authenticating the | |
| | face. | |
| | • 🏀 + 🕗: Mode allowing authentication by entering ID and then a PIN. | |
| ID | • 🏀 + 🌀 / 🚱: Mode allowing authentication by entering ID and then | |
| | authenticating the face or entering a PIN. | |
| | • 🏀 + 🎯 + 🚱: Mode allowing authentication by entering ID and then using both | |
| | face authentication and PIN input. | |

6 When you press **OK**, settings will be saved.

NOTE

- A schedule can be set in BioStar 2. If there is no set schedule, only **Always** can be selected.
- For detailed contents regarding setting a schedule, refer to BioStar 2 Administrator's manual.

Delete Auth Mode

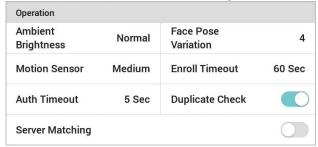
- 1 Press and authenticate with the Admin level credential.
- 2 Press AUTHENTICATION > Auth Mode.
- **3** Press and select an item to delete.
- 4 When you press **OK**, the selected item will be deleted.

Add Auth Mode

- **1** Press and authenticate with the Admin level credential.
- 2 Press AUTHENTICATION > Auth Mode.
- **3** Press .
- **4** Set the desired auth mode by pressing (+), then select a schedule.
- **5** When you press **OK**, the auth mode will be added.

Operation

- **1** Press and authenticate with the Admin level credential.
- 2 Press AUTHENTICATION and then modify the items below Operation.



- 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.
- Auth Timeout: If the authentication is not completed during the set time, the authentication will fail.
- **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.
- **Face Pose Variation**: Set the sensitivity for the position, angle, and distance of a face when registering the face. Set high if you wish to obtain a detailed face template
- Enroll Timeout: If a face is not registered during the set time, the face registration will be canceled.
- Duplicate Check: When registering a face, you can check duplicates.

Face Recognition

Change settings regarding face authentication.

- 1 Press == and authenticate with the Admin level credential.
- **2** Press **AUTHENTICATION** and then modify the items below **Face Recognition**.



- Security Level: Set the security level for 1:N authentication.
- **Group Matching**: Check whether or not to use Group Matching. If Group Matching is used, you can increase the authentication speed by designing various user's faces in a group.
- **Backward Compatibility (Enrollment in v1.0.1)**: Turn on this option if the firmware of the device that enrolled the face template is v1.0.1 or older.
- Enhanced fake face enrollment block: You can detect user enrollment using fake faces such as photos. The strength can be set from Level 1 to Level 3. The higher the level, the stronger the level of detection.
- **Quick Enroll**: Set whether or not to use a Quick Enroll. When you set this option to Enabled, the face registration procedure is set to 1 step. If you set the option to Disabled, it is set to 3 steps.

NOTE

- Group Matching can be set in BioStar 2. For detailed contents, refer to the BioStar 2 Administrator Manual.
- If you set **Enhanced fake face enrollment block** to high level, the enrollment of real face may be rejected. If you fail to enroll, try again or lower your detection strength.
- To register high-quality face templates, disable Quick Enroll.

T&A Mode

You can set how to register T&A Mode.

- 1 Press and authenticate with the Admin level credential.
- **2** Press **AUTHENTICATION** then modify the items below **T&A Mode**.



- **3** Select and set the desired item.
 - **T&A Mode**: Set the method to use T&A mode.
 - **T&A Code**: Register a new T&A code.
 - **T&A Required**: Set to require a user to select a T&A event when authenticating.
 - Job Code: Select whether or not to use Job Code.

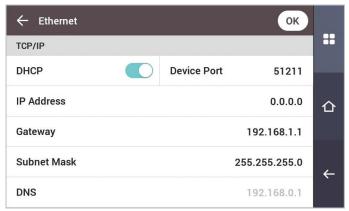
Network

Network Settings

You can change the network settings of the device.

Ethernet

- 1 Press and authenticate with the Admin level credential.
- 2 Press **NETWORK** > **Ethernet**.



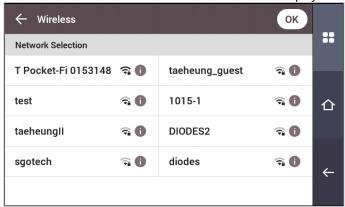
- **DHCP**: Set whether or not to use DHCP. If DHCP setting is disabled, the user can modify **Device Port**, **IP Address**, **Gateway**, **Subnet Mask**, and **DNS**.
- **Device Port**: Set the device port.
- IP Address: View the IP address of the device. To modify, disable DHCP setting.
- Gateway: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

NOTE

• Ethernet cannot be used at the same time as Wireless.

Wireless

- 1 Press and authenticate with the Admin level credential.
- 2 Press NETWORK > Wireless.
- **3** The list of available networks for connection will be displayed.



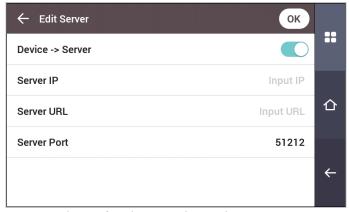
- 4 Select the network to which you wish to connect and enter the password. When you press **OK**, the connection to the wireless network will be made.
- To set the network information of the wireless LAN manually, press (i) of the network name you wish to use and disable DHCP setting. You can modify **IP Address**, **Gateway**, **Subnet Mask** and **DNS**.

NOTE

- Wireless cannot be used at the same time as Ethernet.
- To connect to **Wireless**, a wireless router is required. For content regarding the installation and configuration of a wireless router, refer to the user manual of the wireless router.

Server

- 1 Press and authenticate with the Admin level credential.
- 2 Press NETWORK > Server.



- **Connection Mode**: When you select **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.

Serial Settings

RS-485

- 1 Press and authenticate with the Admin level credential.
- 2 Press **NETWORK** and then modify the items below **Serial Setting**.

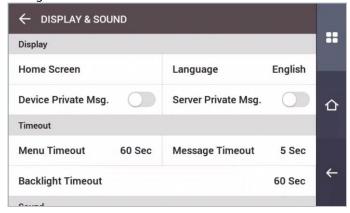


- **RS-485**: Select the RS-485 mode.
- **Baud Rate**: Select the desired baud rate.

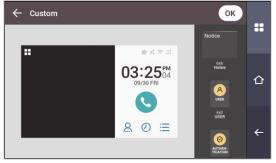
Display & Sound

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

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



• **Home Screen**: Select items to be displayed in the background of the home screen. When **Custom** is selected for **Style**, the user can modify the Home Screen directly. Edit the Home Screen by pressing and holding the desired object, then dragging and dropping it to a desired location.





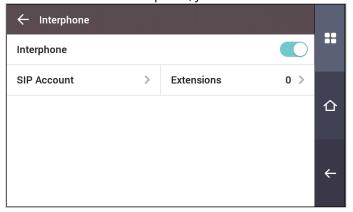
- Language: Set the language you wish to use.
- **Device Private Msg.**: Set whether or not to use a Private Message, which will be displayed on the screen when the user authenticates. You can set the **Device Private Msg.** on the device.
- **Server Private Msg.**: Set whether or not to use a Private Message, which will be displayed on the screen when the user authenticates. You can set the **Server Private Msg.** on the server. 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.

Device

Interphone

Set the account and extensions of SIP interphone.

- 1 Press and authenticate with the Admin level credential.
- 2 Press **DEVICE** > **Interphone**.
- **3** When Enable is set for Interphone, you can set the SIP account and the extensions. Ensure to set each item correctly.



Relay

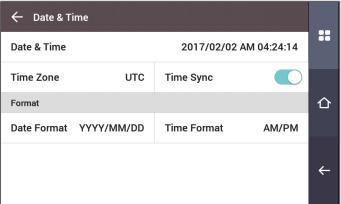
You can set the open time and the input port of the exit button in the device.

- 1 Press and authenticate with the Admin level credential.
- 2 Press **DEVICE** > **Relay**.
 - 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.
 - **Switch**: Select the relay type (N/O or N/C).

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 Press **DEVICE** > **Date & Time**.
- **3** Change the desired item.



- Date & Time: Check the current date and time. To modify it directly, disable Time Sync.
- Standard 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 Press **DEVICE** > **Daylight Saving Time**.
- **3** Select the desired item and change the setting.

Device Info

You can view the model name, firmware version of Device ID, and MAC address.

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

Memory Info

View the status of memory usage.

- 1 Press and authenticate with the Admin level credential.
- 2 Press **DEVICE** > **Memory Info**.

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 Press **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** > **Secure Tamper**, then change the settings.

Restart Device

The user can restart the device.

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

Restore Default

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

- 1 Press **!!** and authenticate with the Admin level credential.
- 2 Press **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.

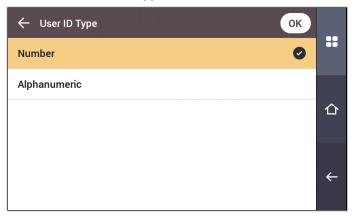
NOTE

- 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 Press **DEVICE** > **User ID Type**.

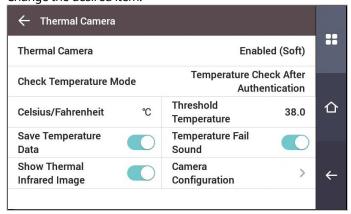


3 Change to the desired item and press **OK**.

Thermal Camera

Thermal camera with FaceStation 2 measures temperature of users passing the access point and limit the access of users with higher temperature than preset threshold.

- 1 Press == and authenticate with the Admin level credential.
- 2 Press **DEVICE** > **Thermal Camera**.
- **3** Change the desired item.



- **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.
- Check Temperature Mode: Set the Check Temperature Mode depending on the usage when Mask Detection or Thermal Camera is activated.
 - Temperature Check After Authentication: Measure the temperature after a successful authentication.
 - **Temperature Check Before Authentication**: uthenticate 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 Temperature 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.
- 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.
- Temperature Fail Sound: Set the alerts to trigger when the temperature is higher than the preset threshold.
- Show Thermal Infrared Image: Display infrared imaging on the screen of the devices.
- Camera Configuration: Configure the thermal camera settings for accurate measurement.
 - **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).
 - **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.

NOTE

- 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
 - Emission Rate: 0.98
 - ROI X(%): 47
 - **ROI Y(%)**: 45
 - ROI Width(%): 15
 - **ROI Height(%)**:10
- The supported thermal camera is TCM10-FS2.

Event Log

Search Log

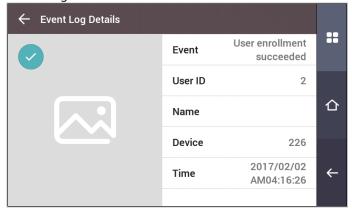
You can set a condition and search a log.

- 1 Press 📲 and authenticate with the Admin level credential.
- 2 Press EVENT LOG.
- **3** Press and change the condition. When you press **OK**, a log that matches the condition will be displayed on the screen.



Detail View Log

- 1 Press and authenticate with the Admin level credential.
- 2 Press EVENT LOG.
- **3** Select a log to view detailed contents.



Delete All Logs

You can delete all saved logs.

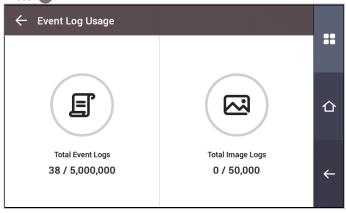
- 1 Press and authenticate with the Admin level credential.
- 2 Press EVENT LOG.

3 To delete all logs, press and then press **OK**. To cancel, press **Cancel**.

View Log Usage

You can check the status of log usage.

- **1** Press **3** and authenticate with the Admin level credential.
- 2 Press EVENT LOG.
- **3** Press **1**.



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. |
| | 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. |
| PIN | 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. |
| 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 2 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 2, 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

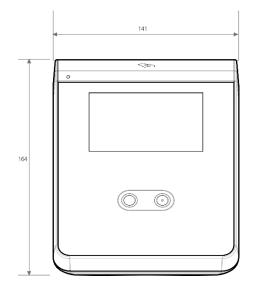
| Category | Feature | Specification |
|------------|-----------------------------------|---|
| | Biometric | Face |
| Credential | RF Option | FS2-D: 125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire EV1/EV2*, FeliCa, NFC FS2-DS: 125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire EV1/EV2*, FeliCa, NFC FS2-AWB: 125kHz EM, HID Prox & 13.56MHz MIFARE, MIFARE Plus, DESFire EV1/EV2*, FeliCa, iCLASS SE/SR/Seos, NFC, BLE |
| | RF read range* | MIFARE/DESFire/iCLASS: 50 mm / EM/HID Prox/Felica: 30 mm, BLE: 50 mm |
| | LFD | Supported |
| | CPU | 1.4 GHz Quad Core |
| | Memory | 8GB Flash + 1GB RAM |
| | LCD type | 4" color TFT touch |
| | LCD resolution | 800 x 480 |
| | Sound | 24 bit/Voice DSP (echo cancel) |
| | | -20 °C ~ 50 °C |
| | Operating temperature | -20 C~ 50 C -40 °C ~ 70 °C |
| | Storage temperature | |
| Camanal | Operating humidity | 0% - 80%, non-condensing |
| General | Storage humidity | 0% - 90%, non-condensing |
| | Camera type | CMOS |
| | Camera resolution | 720 x 480 |
| | Camera angle | Visual Lens: Diagonal 92.7° |
| | | IR Lens: Diagonal 58° |
| | Dimension (W x H x D) | 141 mm x 164 mm x 125 mm |
| | Weight | Device: 628 g |
| | | Bracket: 74 g (Including washer and bolt) |
| | Certificates | CE, FCC, KC, RoHS, REACH, WEEE |
| | Max. User (1:1) | 30,000 |
| | Max. User (1:N) | 4,000 |
| Capacity | Max. Template (1:1) | 900,000 |
| Capacity | Max. Template (1:N) | 120,000 |
| | Max. Text Log | 5,000,000 |
| | Max. Image Log | 50,000 |
| | Wi-Fi | Supported (Built-in, IEEE802.11 b/g) |
| | Ethernet | Supported (10/100/1000 Mbps, auto MDI/MDI-X) |
| | RS-485 | 1ch Host or Slave (Selectable) |
| T | Wiegand | 1ch Input, 1ch Output |
| Interface | TTL input | 2ch Inputs |
| | Relay | 1 Relay |
| | USB | USB 2.0 (Host) |
| | Tamper | Supported |
| | Power | Voltage: 24 VDC 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.) |
| Electrical | 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 |

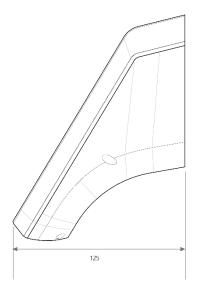
^{*} RF read range will vary depending on installation environment.

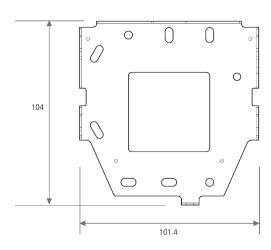
^{*} DESFire EV2 cards are supported by having backward compatibility of DESFire EV1 cards. CSN and smart card functions are compatible with FaceStation 2.

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 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 receiver.
- Connect the equipment to 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 may void the user's authority to operate the equipment under FCC rules.

This appliance and its antenna must not be located or operated in conjunction with any other antenna or transmitter. A minimum separation distance of 20cm must be maintained between the antenna and individuals 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: 0.049 mW (FS2-AWB Only)
- Bluetooth Frequency: 2402~2480 MHz (FS2-AWB Only)
- 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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Version 3, 29 June 2007

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