

FaceStation

User Manual

Version V1.0

www.supremainc.com

Safety Information

Please ensure that the warnings and cautions below are followed in order to prevent risk and damage to property by correctly using the product.

/ Warning

Violation of the instructions may lead to serious injury or death.

Installation

Avoid places with direct sunlight, high humidity, dust or soot.

• This may cause fire or electric shock.

Install in a dry place.

• Moisture may cause damage to the product or electric shock.

Install in a place with no heat such as a heater.

• Overheating may cause fire or electric shock.

Install in a place without electromagnetic interference.

• This may cause damage to the product or electric shock.

Usage

Do not disassemble, repair or remodel this product.

• This may cause fire, electric shock or injury.

Do not place a wet object or any object on the vent.

• There is a risk of electric shock or fire; the product may malfunction if the vent is covered.

Avoid liquids such as water, beverages and drugs from leaking into the product.

• There is a risk of electric shock or fire; the product may be damaged.

Caution

Violation of the instructions may lead to minor injury or damage to the product.

nstallation

Do not leave a power cable or other cables in the passage way.

• This may damage the product or cause injury.

Usage

Do not press the touchscreen hard.

• This may cause malfunction.

Do not place the product near objects with a strong magnetic field such as a magnet, CRT, TV, monitor, or speaker.

• This may cause malfunction.

Clean the product with a dry cloth; avoid benzene or alcohol.

• Using chemicals or cleaning agents may deform the product.

Do not drop or apply physical shock.

• This may cause malfunction.

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Features

Components

Name of Parts

Features

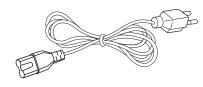
4.3" Touchscreen LCD	R	The 4.3" WVGA touchscreen LCD is mounted on the front of the product and provides an intuitive GUI. It makes the user management easy while displaying various information including the time and attendance as well as notifications.
Next Generation Face Recognition Technology	O.	The state-of-the-art technology with Suprema's proprietary algorithms stores both facial stamps using the visual camera and facial templates using the IR camera. The seamless combination of the information gathered makes Suprema's FaceStation the ultimate in facial recognition technology with query speeds of up to 1:1000 matches per second.
Various Interface Supported		You can connect with a PC and configure the network through various interfaces such as PoE, WiFi, TCP/IP, and RS485/232. Also, you can configure various access control systems through Wiegand and input/output ports.
Video Phone	i,	FaceStation's built-in camera, microphone, and speaker provides the device the ability to be integrated with conventional analogue based videophones or IP based videophones to create a simple interphone system.
Various RF Cards Supported	Card	Mifare Classic, Mifare Plus, and Mifare DesFire (CSN) cards are supported.
Powerful Dual-CPU Architecture	GPU	A powerful 1.1GHz DSP is dedicated to handling facial template operations and a 667MHz RISC processor ensures uninterrupted device operations.

Components

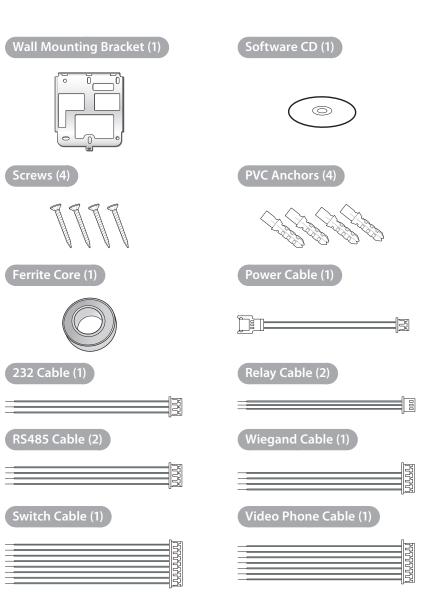
Device



AC Power Cable (1)

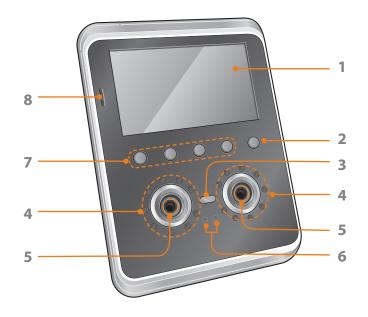






Name of Parts

Front

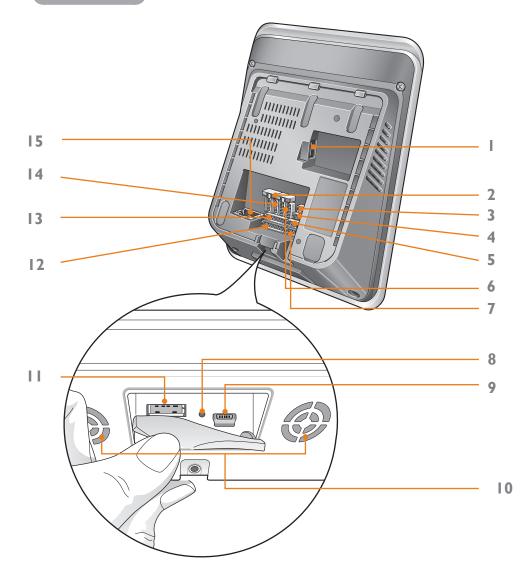


I	LCD Touchscreen	Used to display the device operating status and device operation.	
2	Call Button	Used to place a call on the interphone.	
3	Light LED	Used as a general lighting.	
4	Infrared (IR) LED	Used as an IR light.	
5	Camera	Detects and captures a face image.	
6	Proximity Sensor	Determines the user's proximity.	
7	Basic T&A Button (F1 - F4)	Selects Time and Attendance events.	
8	Microphone	Used for speaking while connected via the interphone.	

🗧 Note

The RF cameras built in around the IR LED are used to detect an RF card.

Rear and Bottom



I	USB Wireless LAN Terminal	Connects the USB wireless LAN.	
2	Termination Resistor Switch	Activates the RS485 terminal resistance.	
3	PWR IN Terminal	Connects the power cable.	
4	RS232 Terminal	Connects the RS232 3-pin connector.	
5	Debug Terminal		
6	RS485 Terminal	Connects the RS485 4-pin connector.	
7	Wiegand Terminal	Connects the Wiegand 5-pin connector.	
8	Reset Button	Resets the device.	
9	Mini USB Connect Terminal	Connects with a PC.	
10	Speaker	Outputs a voice on the device.	
П	USB Connect Terminal	Connects a USB memory device.	
12	Switch Input Terminal	Connects an input switch cable.	
13	Phone Terminal	Connects a video phone cable.	
14	Output Relay 1/2 Terminal	Connects Door Lock and output devices.	
15	Ethernet Terminal	Connects an Ethernet cable.	

2 Installation

Installation Precautions for Installation

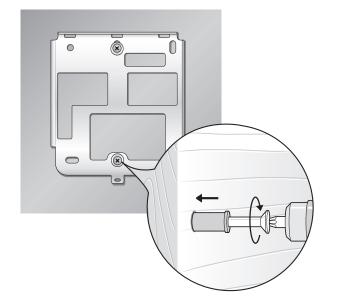
Installation

Installation

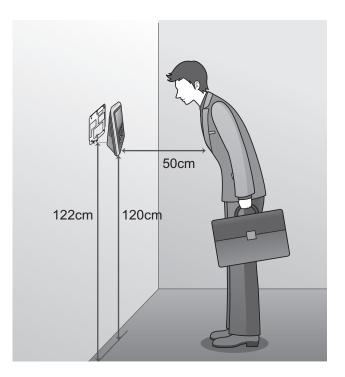
Since FaceStation has a built-in camera for face recognition and video interphone, the installation height needs to be considered. Select a location to install the device by considering the face capturing.

Installation

- Fix the bracket at the desired location.
- 2 Drill a hole by using a drill and tools, insert anchors, and tightly fasten screws.



- Mount the device on the fixed bracket.
- Fix the fixing screws on the bottom of the device.



Note

3

4

• When installing the device for the first time, make sure to remove the transparent film from it. Otherwise, it may affect adversely on the face recognition.

Installation

Precautions for Installation

Recommended Installation Height

- The optimal installation height is 120cm. (Based on the user's height between 155cm - 205cm)
- It is recommended that you adjust the installation height based on the shortest person of all the users.
- If you install devices for a same user group in many places, it is recommended that you make all of them all the same height.
- It is recommended that you install the device by considering the recommended installation height based on the bottom heights of device and bracket.

Recommended Installation Height		Range of User's Height	
Bottom of the device	Bottom of the bracket	Minimum	Maximum
90cm	92cm	125cm	175cm
100cm	102cm	135cm	185cm
115cm	117cm	145cm	195cm
120cm	122cm	155cm	205cm

Installation Location

- The device must be installed indoors.
- When installing the device near a window, install the device at least 3 meters away from the window.
- Avoid a place where there is direct sunlight on the face or from behind.
- Make sure not to install the device under incandescent light bulbs.

Connecting Power Connecting with Wireless LAN Connecting with Ethernet Connecting RS485 Connecting RS232 Connecting Switch Connecting Wiegand Connecting Mini USB Connecting USB Connecting Video Phone

Connecting Power



Connecting with Wireless LAN

A model supporting the wireless LAN (WLAN) is equipped with a USB WLAN module upon shipment.



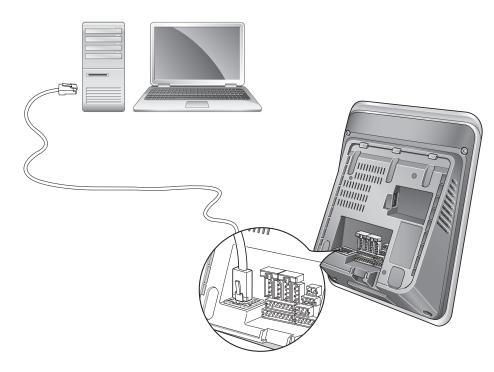
Note

- The performance of WLAN is greatly affected by the surroundings and the type of the access point (AP) in use.
- Some wireless AP may cause a problem when connecting with WLAN due to a hardware compatibility issue.

Connecting with Ethernet

Connecting with a PC

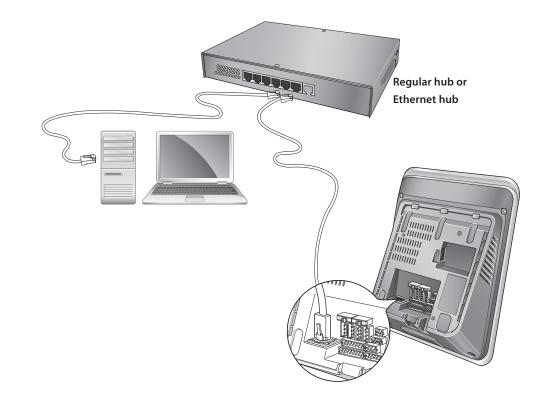
The device can communicate with a PC by directly connecting with the Ethernet cable.



Connecting with Hub

The device can be connected with a regular hub or PoE hub by connecting the Ethernet cable to the Ethernet terminal.

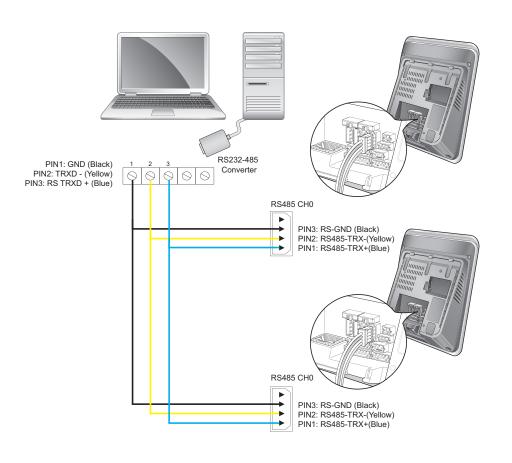
PoE (Power over Ethernet) is an Ethernet connection of which the power is supplied from PSE (Power Sourcing Equipment) satisfying the IEEE802.3af standard.



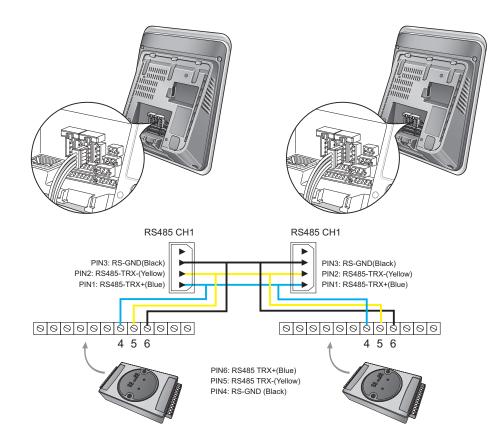
Connecting RS485

By using the RS485 wiring, several devices can be connected with a PC or a device can be connected with a secure I/O or another device.

Connecting with a PC

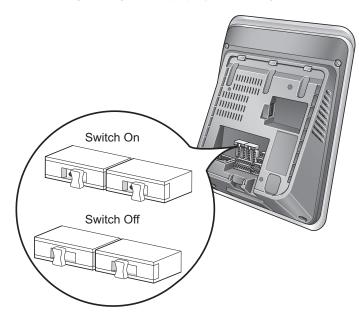


Connecting with Secure I/O and Other Devices



Note

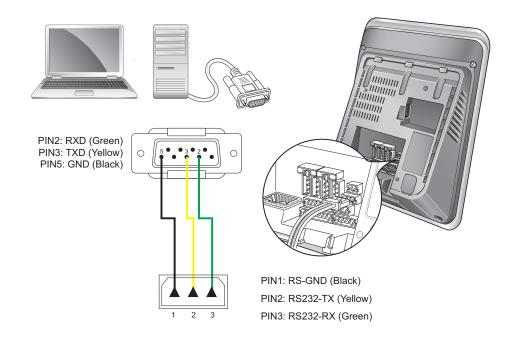
• When the RS485 wiring is long, turn on the dip switch to add terminating resistance in order to prevent weakening of the signal and to properly deliver the signal.



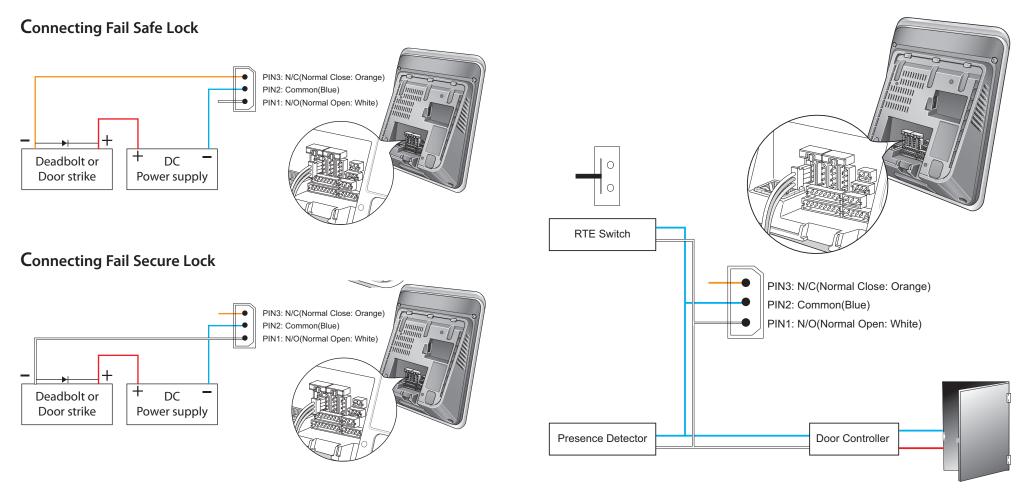
- When the wiring is too short, adding resistance affects the signal. By considering the length of the cable and signal status, turn on/off the termination resistor switch.
- If GND is not connected, either the RS485 chip may be damaged or it may not properly communicate.
- The RS485 communication between devices can be configured with 1 host device and up to 7 slave devices. When configuring such communication, up to 4 Secure I/O can be connected.

Connecting RS232

The device can be connected with a PC through RS232 wiring.



Connecting with Automatic Doors

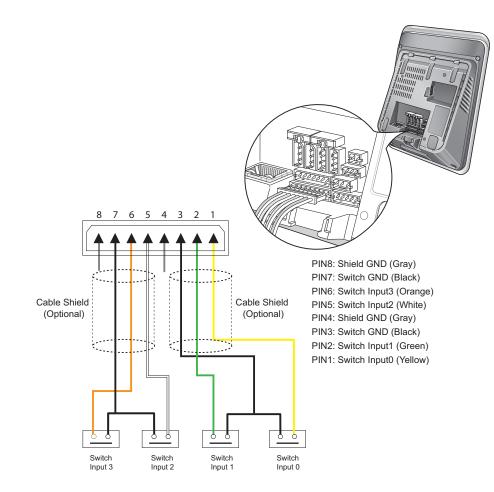


Note

Connecting Relays

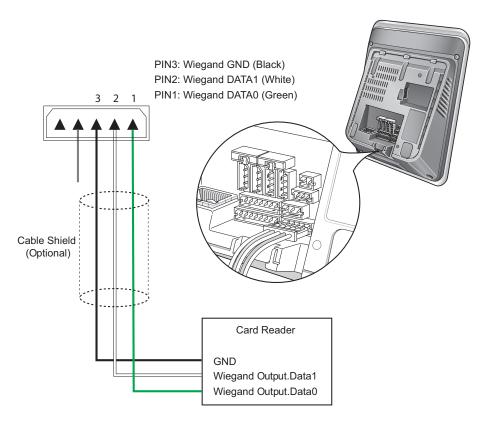
- Normally Open/N.O: The electricity does not flow when there is no control signal but flows when there is a control signal.
- Normally Close/N.C: The electricity flows when there is no control signal but does not flow when there is a control signal.

Connecting Inputs



Connecting Wiegand

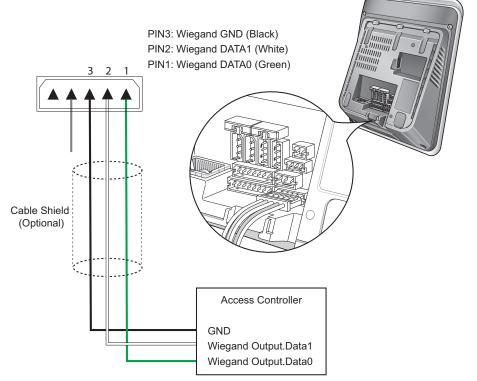
Connecting Wiegand Input



Note

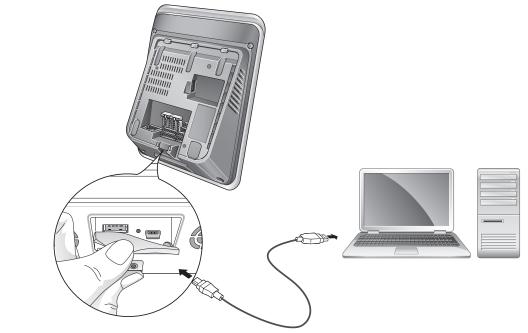
• Since there is a single Wiegand port, set to either input mode or output mode on the BioStar software.

Connecting Wiegand Output



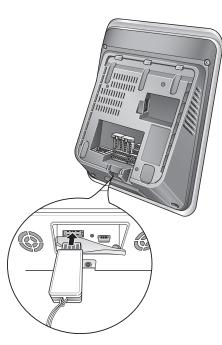
Connecting Mini USB

The device can be directly connected with a PC through the mini USB port.



Connecting USB

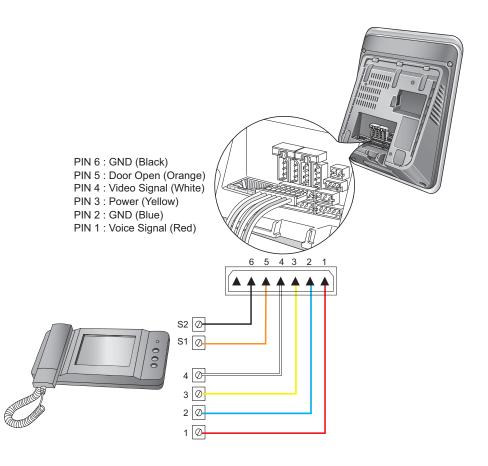
You can upload or download data from a USB memory device.



Note

• Some USB memory devices may not be recognized due to a hardware compatibility issue.

Connecting Video Phone



Note

 The videophones compatible with FaceStaion are as below; COMMAX/ CAV-35N, COMMAX/ CAV-50H, COMMAX/ CAV-50P

4 Easy Use

Registering Face Authenticating Face

Easy Use

Registering Face

Go to Menu > User > Enroll User and press Face in order to register a face for authentication.

Registration Method

Т

Stare at the screen.



Note

- When a face is detected on the sensor of the device, the orange guide line turns to blue.
- Follow the face recognition instructions until the dotted circle on the left of the screen is completed.

Move your face up and down.

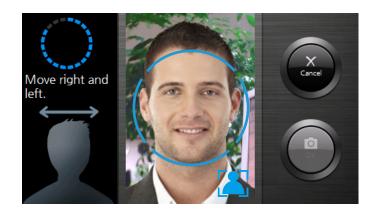
2



3 Move your face back and forth.



4 Move your face right and left.



Press OK to complete the registration.

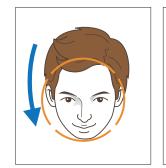
Press Cancel to cancel the face registration.

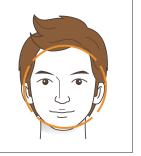
Precautions for Registration

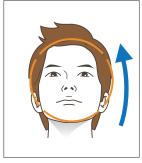
5

- It is recommended that you register your face at the installation site.
- Register an expressionless face.
- It is recommended that you keep the distance of about 40 to 80 cm from the device screen when registering your face.
- · When initially registering the front of the face, the authentication performance may be deteriorated if you face up. Make sure to stare at the screen.
- When initially registering the front of the face, the registration may take longer if no movement is detected. When registering the front of the face, slightly move the face.
- When moving the face back and forth, step back and forth in order to improve the authentication performance.
- Make sure to take off a hat and to make the face with the eyebrows exposed in order not to cover the lower part of the face with hairs.
- If a user frequently switches between wearing glasses and no glasses, change the look of wearing glasses when registering left and right images.
- Make sure that more than two people's faces should not be registered on the screen at the same time.
- If the face moves up, down, left, or right or if the instructions for moving the face forward or backward are not followed while registering, the registration may take longer. Please follow the registration instructions.

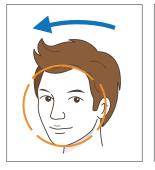
• When moving your face up and down

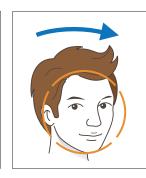




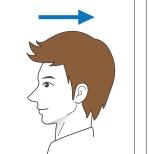


• When moving your face left and right

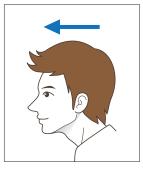




When moving your face back and forth







Easy Use

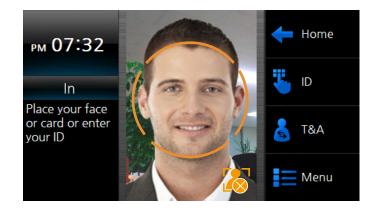
Authenticating Face

When Menu > Mode > Face Auth Mode > Face is set as Always, the authentication screen is activated when the user is in close proximity to the device.

Authentication Method

Align your face with the orange guide line turns to blue, circular line on the authentication screen.

When the orange guide line turns to blue, keep your face still while aligned with the blue line and wait until the authentication is complete.



Note

- When a face is detected on the sensor of the device, the orange guide line turns to blue on the authentication screen. Do not move your face while the authentication is in progress.
- Make sure to keep the distance of 50cm from the device when authenticating the face.

The authentication completion screen is displayed if the user authentication is completed.



Note

2

• When authentication is completed on the face authentication screen after you press Menu, you can enter the Administrator's menu.

Precautions for Authentication

- Position the face within the orange circle on the screen.
- If the authentication takes too long, either move the chin up and down or step back and forth.
- If hairs on the side covers a part of the face including the eyebrows, the authentication may not perform well. It is recommended that you authenticate the face with the eyebrows exposed.
- If the user changes glasses, the authentication may fail. It is recommended to re-enroll the user's face with new glasses.
- When wearing sunglasses, the authentication is not possible. It is recommended you take it off before authentication.

Precautions for Usage

- It is recommended you set the Authentication mode to 'Card+Face' or 'ID+Face' in order to strengthen the authentication security.
- It is recommended you set the Authentication mode to 'Card+Face' since the authentication for twin users may not be correct.
- If the user's facial facial appearance has changed dramatically (such as plastic surgery or shaving bushy beard), it is recommended to re-enroll the user.

Setting Menu Overview Setting Users Setting Network Using WLAN Setting Operation Mode Setting Device Setting Display and Sound Viewing Logs

Easy Use

Setting Menu Overview

	Enroll User			
User	Edit User			
	Search	Search		
	User Capacity Info	User Capacity Info		
	Delete All Users	Delete All Users		
		LAN Type		
		Port		
		Max Conn		
	TCP/IP	DHCP		
		IP Address		
		Gateway		
		Subnet		
		Use Server		
	Server	Server IP		
Network		Port		
		RS485-PC		
	Serial	RS485-NET		
		RS232		
	USB	USB		
	USB	USB Memory		
		Import		
	USB Memory	Export		
		Firmware Upgrade		
	WLAN			

Face Auth Mode	Face	
	Face+Pin	
	T&A Key > Face	
	T&A Key > Face+PIN	
	Face > T&A Key	
	Face+Pin > T&A Key	
	Card Only	
	Card+PIN	
Card Auth Mode	Card+Face	
	Card+Face/PIN	
	Card+Face+PIN	
ID Auth Mode	ID+PIN	
	ID+Face	
	ID+Face/PIN	
	ID+Face+PIN	
	Face Detection	
	Dual Authentication	
Operation	Card Mode	
	Individual Auth	
	Match Timeout(sec)	
T&A		
Camera Event		
	Card Auth Mode ID Auth Mode Operation T&A	

	Face	Security Level		Theme	
		Enrollment Sensitivity		Background	
		Relay		Voice Instruction	
		Driven By		Menu Timeout	
		Duration		Pop-Up Time	
		RTE(Exit SW)	-	Display	Backlight Timeout
		RTE Type		Volume	
	Door	Door Sensor			
		Door Sensor Type	-		Language
		Held Open Period(sec)		Central Time Display	
		Unlock Time			Date Display
		Lock Time	Log	Log	Log List
Device		Exit Relay Device ID			Log Search
	Interphone	Interphone			Delete All Log
		VoIP Setting			Log Info
		BS VideoPhone Setting			
	Date & Time	Date	_		
		Time			
		Time Sync	-		
	Device Info		-		
	Memory Info		-		
	Touchscreen Calibration		-		
	Reset		-		
	Factory Default		-		

User Management

After the device installation, register the administrator before use. The administrator can register and delete users and set preferences.



Registering Administrator



Go to Menu > User > Enroll User.

Register the administrator's picture.

- 1) Press the Face image window for registering the administrator's face picture.
- 2) Align your face in the screen and press Capture. The captured face image will be registered.

Press Cancel to cancel the registration.



3 • User ID Enter the user ID.

2

- Name Enter your name and press OK.
- Faces Register your face. For details regarding face registration, please refer to 'Registering Face(page 24)'.
- Card Enter the ID and press OK.
- PIN Enter the pin number and press OK.
- Administrator Select the administrator level.
- 4 Press 🔥. The administrator will be registered.

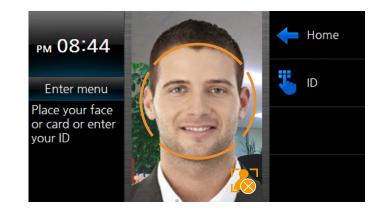
Entering Administrator's Menu

Setup

2

Press Menu on the Home screen. The administrator's menu is displayed.

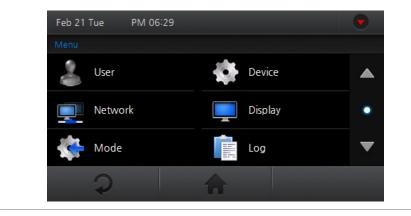
1) Scan the face or enter the card.



2) Enter the ID. And enter the pin number or face.

Feb 21 Tue	PM 10:27		
	Enter	your ID	
	ОК	Cance	ł
1	2	3	-
4	5	6	C
7	8	9	0

Go to the administrator's menu and set each item.



Note

3

- If you press Menu while no user is registered, the administrator's menu is displayed without any authentication process.
- When a general user follows the process to enter the administrator's menu, the user can view the event log for the time and attendance.
- Regardless of a previously set authentication mode, you can move to the administrator's menu by Face authentication, Card authentication, and ID + Face/Pin authentication.

Registering New User

You can register a new user on the device.



Go to Menu > User > Enroll User.

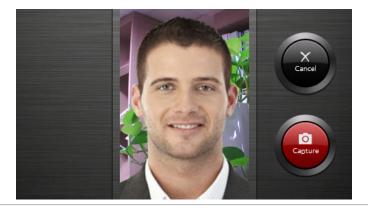
Register the user's picture.

1) Press Face Image window for registering the user's picture.

- 2) Align your face in the screen and press **Capture**. The captured facial image will be registered.
 - Press Cancel to cancel the registration.



I



3	• User ID	Enter the user ID.
	• Name	Enter your name and press OK.
	• Faces	Register your face. For details regarding face registration, please refer to ' Registering Face(page 24) '.
	• Card	Enter the card ID by placing the card on the device.
	• PIN	Enter the pin number and press OK.
	Administrator	Check on the administrator level to register as the administrator. Uncheck if registering as a general user.
	Bypass Card	If Bypass Card is checked when registering a user, the user is always authenticated regardless of the authentication mode on the device.
	• Individual Auth	A user registered with this mode is authenticated with the individually selected authentication mode instead of the device authentication mode. The set individual authentication mode works only for

the relevant authentication method. For higher security, it is recommended to set either 'Card+Face' or 'ID+Face'. For twins, it is recommended to set either 'Card+Face' or 'ID+Face'. After setting the mode, press OK.

The access of group users can be set. A group can be selected from Access groups transferred from the BioStar software to the relevant device. After setting, press **OK**.

Press A. You can register a new user.

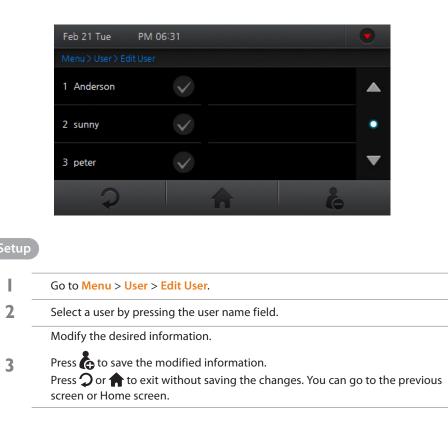
• Group

4

Press \mathfrak{P} or \clubsuit to exit without saving the changes. You can go to the previous screen or Home screen.

Modifying User Information

You can modify the registered user information.



Note

• The user ID cannot be modified.

Deleting User

You can delete the desired user.

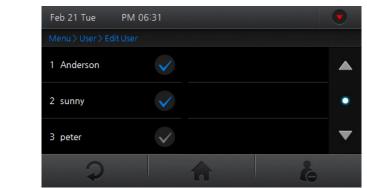
Setup

3

4

- Go to Menu > User > Edit User.
- 2 Check a user to delete.

Press 🍖 .



Press Yes to delete the selected user.

Press No to cancel the deletion.



Deleting All Users

You can delete all registered users.



Setup

L	Press Menu > User > Delete All Users.
2	Press Yes to delete all registered users.
	Press No to cancel the deletion.

Note

• When a user is deleted while not saved on the BioStar software database, the user cannot be restored.

Searching Users

You can search the registered users.



Setup

1	Go to Menu > User > Search.			
2	Search by ID Enter an ID and press OK.			
	• Search by Name Enter a name and press OK.			
	• Search by CSN Enter the card.			
3	Press OK to display the search results.			
	Press Cancel to cancel the search.			

Checking User Capacity Information

You can view the registration information (total number of registered users, total number of registered user's images, and number of templates).

User Capa	city Info	
User	10000	
User Image	10000	ОК
Template	250000	

Setup

Go to Menu > User > User Capacity	Info.
-----------------------------------	-------

2 Press OK to return to the previous screen.

Note

• Up to 10,000 users along with their images can be stored.

Setting Network

You can set the communication method of the device.

Mar 09 Fri AM 11:22		
Menu > Network		
TCP/IP	USB	
Server	USB Memory	•
Serial	WLAN	•
2	A	

Setup

I	Go to Menu > Network.
2	Set the options.
3	Press $\mathcal O$ or $igcap$ to go to the previous screen or Home screen.

Setting TCP/IP

When the device and BioStar software is connected via TCP/IP method, you can set the relevant settings.



Go to Menu > Network > TCP/IP.

2 Set the options.

- LAN Type Set the connection method and press OK.
- Port Enter the port and press OK.
- Max Conn Set the maximum number of clients to be concurrently connected with the device and press OK.
- DHCP Check to enable DHCP.
- IP Address Enter an IP address if a static IP address is used and press OK. If DHCP is checked, this item is not activated.
- Gateway Enter a gateway address if a static IP address is used and press OK. If DHCP is checked, this item is not activated.
- Subnet Enter the subnet mask if a static IP address is used and press OK. If DHCP is checked, this item is not activated.
- 3 Press \mathcal{O} or $\mathbf{\uparrow}$ to go to the previous screen or Home screen.

Setting Server

You should set the IP address and port of the server to connect in order to communicate with it.



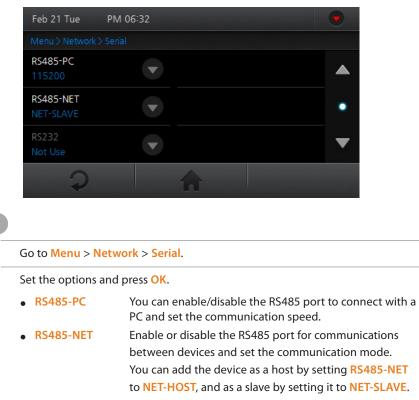
- Go to Menu > Network > Server.
- 2 Set the options.

3

- User Server Check to use the server.
- Server IP Enter the server's IP address and press OK. It can be set if User Server is checked.
- Port Enter the server's port and press OK. It can be set if User Server is checked.
- Press ${oldsymbol Q}$ or igoplus to go to the previous screen or Home screen.

Setting Serial Communication

When the device is connected by RS485 or RS232, you can set the connection-related options.



• RS232 It can be set if RS485 is disabled. You can enable/disable the RS232 port to connect with a PC and set the communication speed.

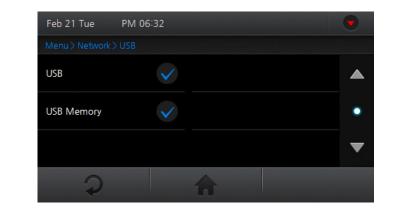
3 Press \mathfrak{P} or \bigstar to go to the previous screen or Home screen.

Note

2

• The RS485 communication between devices can be configured with 1 host device and up to 7 slave devices including up to 4 Secure I/O.

Setting USB



Setup

- Go to Menu > Network > USB.
- 2 Set the options.
 - USB Set to allow the connection with a PC via USB.
 - USB Memory Set to allow the connection with a USB memory device.
- 3 Press **2** or **†** to go to the previous screen or Home screen.

Using USB Memory Device

When setting to make USB available, you can select options to conduct the desired operations with the USB memory device.

Feb 21 Tue PM 06:32		
Menu > Network > USB Memory		
Import		
Export		•
Firmware Upgrade		▼
2	A	

Setup

I	Go to Menu > Network	> USB Memory.
2	Select an option.	
	• Import	Select a device ID to import data and press OK.
	• Export	Press Export and wait until the job is completed.
	• Firmware Upgrade	Select firmware to upgrade and press OK.
3	Press 📿 or 🛖 to go to t	he previous screen or Home screen.

Note

 The USB Memory needs to be checked from Menu > Network > USB in order to activate the USB Memory menu.

Using WLAN (Only for Wireless models)

You can select one of 4 WLAN preset options previously saved from BioStar. On BioStar, you can set the preset options including SSID, encryption method, encryption key, etc.

Mar 09 Fri AM	11:22			•
biostar_wpa TKIP/AES	\checkmark			
biostar_wep WEP64/128/256	~			•
				▼
2		1		

Setup

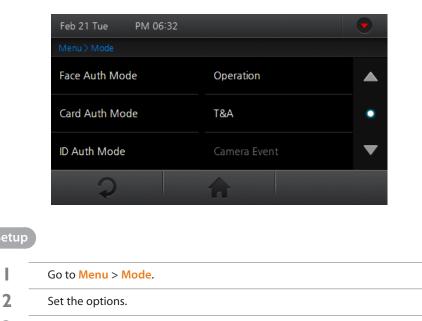
 Go to Menu > Network > WLAN.

 Check the preset option to use for WLAN connection.

 Press ♀ or ♠ to go to the previous screen or Home screen.

Setting Operation Mode

You can set operations related to each authentication or view the Time and Attendance events. The authentication mode operates according to the set timezone. Up to 128 timezones for setting authentication mode can be set on BioStar.



3 Press \mathcal{D} or $\mathbf{\uparrow}$ to go to the previous screen or Home screen.

Setting Face Authentication



Setup

3

4

- Go to Menu > Mode > Face Auth Mode.
- 2 Select a desired option.
 - Face Authenticates with a face only.
 - Face + Pin Authenticates with both face and pin number.
 - T&A Key > Face Authenticates with both the T&A key and the face.
 - T&A Key > Face + Pin Authenticates with the T&A key, face, and pin number.
 - Face > T&A Key Authenticates with both the face and the T&A key.
 - Face + Pin > T&A Key Authenticates with face, pin number, and the T&A key.
 - Check Never or Always to set the apply time.
 - Press ${oldsymbol Q}$ or igoplus to go to the previous screen or Home screen.

Setting Card Authentication



Setup

I 2

3 4

nenticates with a card only. nenticates with both card and pin numberd
penticates with both card and nin numberd
ienticates with both card and pin numberd
nenticates with both card and face.
nenticates with both card and either face or number.
nenticates with card, face, and pin number.
pply time.

Setting ID Authentication

Feb 21 Tue PM 06:33		
Menu > Mode > ID Auth Mode		
ID+Pin Never	ID+Face+Pin Never	
ID+Face Never		•
ID+Face/Pin Never		▼
2	^	

Setup

	Go to Menu > Mode > ID Auth Mode.	
	Select a desired option.	
	• ID + Pin	Authenticates with both ID and pin number.
	• ID + Face	Authenticates with both ID and face.
	• ID + Face/Pin	Authenticates with both ID and either face or pin number.
	• ID + Face + Pin	Authenticates with ID, face, and pin number.
_	Check Never or Always to set the apply time.	

4 Press **Q** or **†** to go to the previous screen or Home screen.

Setting Operations

3

Feb 21 Tue PM 06:33 Face Detection Individual Auth **Dual Authentication** Match Timeout(sec) Card Mode Go to Menu > Mode > Operation. 2 Check, or set the options and press OK. Face Detection On face authentication, stores the detected face image as an image log. On ID or card authentication, additionally authenticates and stores the detected face image as an image log. If no face is detected, the authentication will end up in failure. Authenticates with faces, cards, and IDs of two people. Dual Authentication The entry relay operates only when two different users are authenticated, and the second user should be authenticated within 15 seconds after the first user is authenticated. If 15 seconds has passed after the first authentication, the authentication is invalidated and the status is initialized. Card Mode Sets whether to use the CSN card for authentication. Individual Auth Authenticates by customized methods for each individual. When registering a new user from Menu > User > Enroll User, the private authentication can be set. Please refer to 'Registering New User(page 32)' for details. • Match Timeout(sec) Sets the authentication time-out period. If a user is not authenticated within the set period, the authentication fails.

Setting Time and Attendance



Setup

- Go to Menu > Mode > T&A > T&A.
- 2 Set the T&A options.
 - Disabled

Select to use the access authentication without using Time and Attendance. The the T&A button disappears on the Home menu and the CALL button is activated.

Manual(by key input)

For every authentication, press either the T&A buttons (F1 - F4) or the T&A event button (T&A) to select an event. The selected Time and Attendance event is deselected after the authentication.

3

- Auto(by time schedule) The Time and Attendance event of the corresponding timezone is automatically applied when authenticating. When changing to a different event instead of the event of the corresponding timezone, press the T&A button (F1 F4) to select a particular event.
- Manual Fix(by key input) Select a Time and Attendance event by pressing either one of F1 F4 buttons or an additional T&A event button (T&A) when authenticating. The selected event is maintained until another event is selected, while the event is deselected after the authentication when manually changing.
 Fixed(by device) A user can be authenticated with a fixed Time
- Fixed(by device)
- manually changing. A user can be authenticated with a fixed Time and Attendance event but cannot select other events.

Press OK to save the changes.

Press Cancel to cancel any changes.

Setting Device

You can set options for the device authentication and operations.

Feb 21 Tue PM 06:3	33	
Menu > Device		
Face	Date & Time	
Door	Device Info	•
Interphone	Memory Info	•
2	A	

Setup

Go to Menu > Device.
Set the options.
Press ♀ or ♠ to go to the previous screen or Home screen.

Setting Face

Mar 26 Mon AM 11:13 Security Level **Enrollment Sensitivity** • Go to Menu > Device > Face. 2 Set the options. Security Level Increasing the security level will indirectly increase the FRR(False Reject Rate, probability that the system will incorrectly reject an access attempt by an authorized user) because the stricter authentication protocols will reject more inconsistencies. Select the desired security level and press OK. • Enrollment Sensitivity Select the desired enrollment speed and press OK. 3 Press \mathcal{O} or $\mathbf{\uparrow}$ to go to the previous screen or Home screen.

Setting Door



Setup

- Go to Menu > Device > Door.
- 2 Set the options and press OK.
 - Relay Sets a relay to use for the door when authenticating a user.
 - Driven by Sets an event to open the door.
 - All Events: Opens the door for all authentication modes.
 - Authentication: Opens the door only for regular authentication but not for the Time and Attendance authentication.
 - T&A Event: Opens the door for an event with a relay enabled during the Time and Attendance authentication.

3

·	Authentication + : Opens the door for an event T&A Event with a relay enabled during both general authentication and Time and Attendance authentication.
•	Disabled : Sets to disable opening the door for all Time and Attendance events.
• Duration(sec)	Sets the opening time of the door relay when an event occurs. The door relay closes after the set time.
• RTE(Exit SW)	Select the input to be used for the door opening switch.
• RTE Type	Select the operation method for the door opening switch. (N/C: Normally Closed; N/O: Normally Open)
Door Sensor	Select the input to be used for detecting the door opening.
Door Sensor Type	Select the operation method for the door opening switch. (N/C: Normally Closed; N/O: Normally Open)
 Held Open Period(sec) 	Sets a period of time from opening the door to displaying the opening warning event.
Unlock Time	Sets a period of time to leave the door open. During this period, the door does not close. The period can be set on BioStar software.
Lock Time	Sets a period of time to lock the door. The period can be set on BioStar software.
Press 🗘 or 🏫 to go to	the previous screen or Home screen.

Setting Interphone

When the interphone is set, you can make a video call by pressing the CALL button.

Feb 21 Tue PM 06:33		
Menu > Device > Interphone		
Interphone Not use		
VoIP Setting		•
BS VideoPhone Setting		•
2	A	

Setup

2

- Go to Menu > Device > Interphone.
 Set the options.
- 3 Press \mathcal{D} or $\mathbf{\uparrow}$ to go to the previous screen or Home screen.

Interphone

Select an interphone to use and press OK.



VoIP Setting When the IP interphone is set, the relevant options can be set.



- VoIP Server IP: Enter the VoIP IP address and press OK.
- VoIP Phone Number: Enter the VoIP phone number and press OK.
- VoIP Server ID: Enter a VoIP server ID and press OK.. Korean, English, number, and special characters can be used for an ID.
- VoIP Server Password: Enter a VoIP server password and press OK.
- VoIP Mic Gain: Adjusts the VoIP microphone volume. (0 10)
- VoIP Speaker Gain: Adjusts the VoIP speaker volume. (0 10)
- VoIP Display Name: Enter the VoIP name to be displayed on the screen and press OK.

BS VideoPhone Se

When the BioStar Video Phone is set, the relevant options can be set.



- Mode: Select either single or extension mode and press OK.
- PIN: Enter a pin number for the BioStar video phone and press OK.
- **Door Control**: Enables or disables the door control on the BioStar video phone.

Press \mathcal{O} or $\mathbf{\uparrow}$ to go to the previous screen or Home screen.

3

S

Setting Time

Menu > Device > Da	ate & Time		
Date	2		
Time	2		•
Time Sync	\checkmark		•
0			
•			
Go to <mark>Menu</mark> > De	vice > Date & Time.		
	vice > Date & Time.		
Set the options.			
	vice > Date & Time. Set the year, month, and	day, and press	ок.
Set the options.			
Set the options. Date Time	Set the year, month, and Set AM/PM, hour, minut	e, and second, a	nd press <mark>OK</mark> .
Set the options. • Date	Set the year, month, and Set AM/PM, hour, minut Can be set only if the de	e, and second, a vice is connecte	and press <mark>OK</mark> . ad with a serve
Set the options. Date Time	Set the year, month, and Set AM/PM, hour, minut Can be set only if the de You can synchronize the	e, and second, a vice is connecte time on the de	nd press <mark>OK</mark> . ed with a serve vice with the
Set the options. Date Time	Set the year, month, and Set AM/PM, hour, minut Can be set only if the de You can synchronize the server. The time is synch	e, and second, a vice is connecte time on the de ronized every h	and press <mark>OK</mark> . ed with a serve vice with the rour when the
Set the options. Date Time	Set the year, month, and Set AM/PM, hour, minut Can be set only if the de You can synchronize the	e, and second, a vice is connecte time on the de ronized every h	and press <mark>OK</mark> . ed with a serve vice with the rour when the

Checking Device Information

You can view the device information such as the model name, device ID, hardware version, firmware version, kernel version, MAC, face module version, face module (FD) version, and face module (LDA) version.

Feb 21 Tue PM 06:34		
Menu > Device > Device Info		
Model	FW Version V1.0_120209	
Device ID 0	Kernel Ver 120109	•
HW Version	MAC 00:17:fc:71:00:00	•
2	A	

Setup

- Go to Menu > Device > Device Info.
- 2 View the option.
- 3 Press \mathfrak{P} or \Uparrow to go to the previous screen or Home screen.

Checking Memory Status

You can check the memory status of DRAM, FLASH, and FLASH2.

	Memor	y Info	
68620	DRAM	157660	
7182	FLASH	460346	ОК
65600	FLASH 2	3863552	

Setup

I.	Go to Menu > Device > Memory Info.
2	View the option.
3	Press OK to return to the previous screen.

TouchScreen Calibration

If the screen does not function when touched or a touch point does not correctly correspond, you can calibrate the screen.

Setup

2

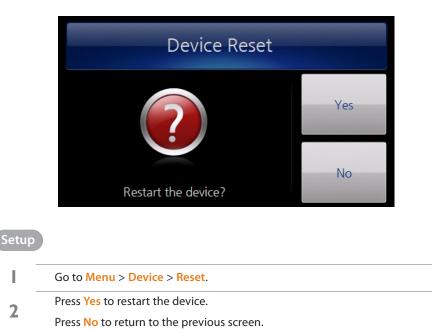
- Go to Menu > Device > Touch Calibration.
- Press and hold the center of the touch point on the screen until the completion message appears.

Carefully press and briefly hold stylus on the center of the target. Repeat as the target moves around the screen. Press the Esc key to cancel.
+

2 Press OK. The screen calibration is complete.



Device Reset



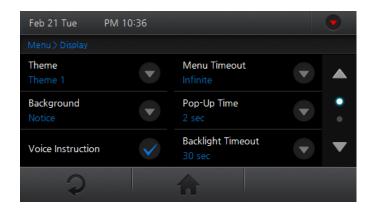
Reset to Default



Note

• Please note that initializing the device will delete all information such as downloaded backgrounds and sounds through BioStar software as well as announcements. The initialization does not delete the registered user information and log data.

Setting Display and Sound



Setup

L	Go to <mark>Menu</mark> > <mark>Display</mark> .
2	Set or check by pressing the relevant option.
3	Press 🗘 or 🏫 to go to the previous screen or Home screen.

Theme

You can set the background theme of the device.

Select among Red, Blue, Black, Rainbow, and Custom, and press OK.

Background

You can set the device background to be displayed.

Select among Logo, Notice, Slide Show, and PDF, and press OK.

Note

• When the background is set for Logo, Slide, or PDF, the logo screen is displayed during the authentication and other operations while the announcement, slide show or PDF screen appears after the menu time-out period (30 seconds if set to Always On). When touching the screen while an announcement or slide show is on, the LCD backlight turns on if it was off or a logo screen is displayed if the LCD backlight was on.

Voice Instruction

You can enable the voice guide on the device.

Menu Timeout

You can set the amount of idle time (sec) before the menu disappears.

Select among Infinite, 10 sec, 20 sec, and 30 sec, and press OK.

Pop-Up Time

You can set the duration (sec) before the popup window disappears.

Select among 0.5 sec, 1 sec, 2 sec, 3 sec, 4 sec, and 5 sec, and press OK.

Backlight Timeout

You can set the amount of idle time before the backlight turns off.

Select among Infinite, 10 sec, 20 sec, 30 sec, 40 sec, 50 sec, and 60 sec, and press OK.

Volume

You can set the volume output of the device.

Select among 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, and 100, and press OK.

Language

You can set the display language.

Select among Korean, English, and Custom, and press OK.

Central Time Display

You can set to enable or disable the time on the screen.

Date Display

You can set the date format.

Select MM/DD or DD/MM, and press OK.

Viewing Logs

You can view, search or delete the event log.

Feb 21 Tue PM 0)6:34	
Menu > Log		
Log List	Log Info	
Log Search		•
Delete All Log		▼
\$	A	

		18	
-	-		 124

1	Go to Menu > Log.
2	Press and view the option.
3	Press ${oldsymbol Q}$ or ${igoplus}$ to go to the previous screen or Home screen.

Log List

You can select and view the desired event log.



Setup

1	Go to Menu > Log > Log List.
2	View a desired log.
3	Press \mathfrak{O} or \bigstar to go to the previous screen or Home screen.

Log Search

You can search and view logs by starting date, starting time, ending date, ending time, event, Time and Attendance event, or user ID.

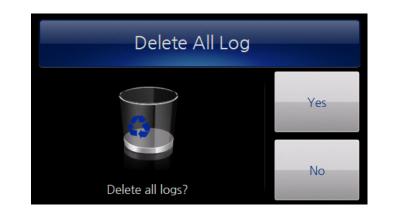


Setup

L	Go to Menu > Log > Log Search.
2	Set the search items and press OK.
3	Press ${f Q}$ to display the searched log.
4	Press 🗘 or 🏫 to go to the previous screen or Home screen.

Delete All Log

You can delete the entire log at once.



Setup

Ι.	Go to Menu > Log > Delete All Log.
2	Press Yes to delete all logs.
4	

Press No to cancel the log deletion.

Log Info

You can view the log and face image log currently stored on the device.

Log Info			
	Log	1000000	
55	lmage Log	5000	ОК

- Go to Menu > Log > Log Info.
- Press OK to return to the previous screen.

Note

2

• Up to 1,000,000 regular logs and up to 5,000 face image logs can be stored.

6 How to Use

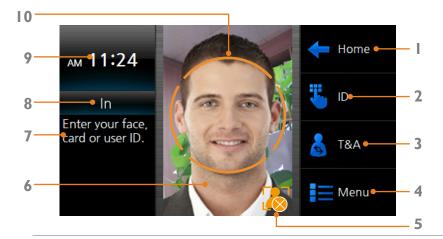
Basic Screen View Authenticating Time and Attendance Checking Time and Attendance

How to Use

Basic Screen View

Face Authentication Screen

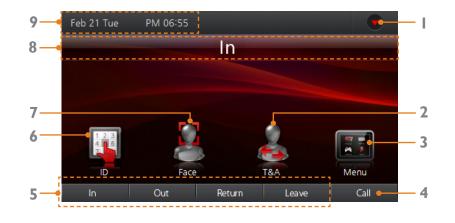
If face authentication is set, the screen as shown below appears.



I.	Home	Goes to the Home screen.
2	ID	Goes to the ID authentication screen.
3	T&A	Selects Time and Attendance options.
4	Menu	Goes to the Administrator's menu.
5	Face Detection Icon	Displays the face detection availability.
6	Image Display Screen	Displays an image from the camera as well as the face.
7	Authentication Guide	Displays available authentication methods.
8	T&A Event	Displays the set Time and Attendance event. When entering the administrator's menu, a message 'Enter the administrator's menu' appears.
9	Current Time	Displays the current time on the device.
10	Face Detection Guide Line	Displays the guide line for face detection.

Home Screen

If face authentication is not set from the operation mode or the camera does not detect any motion, the Home screen is displayed.



I	Status Button	Checks for the connection status of the device and whether or not the face recognition is enabled.
2	Additional T&A Button	Selects 12 Time and Attendance buttons in addition to 4 basic Time and Attendance.
3	Menu Button	Enter the Administrator's Menu.
4	Call Button	Used for a video phone call.
5	Basic T&A Button	Displays basic Time and Attendance events.
6	ID Authentication Button	Enter the ID input window for ID authentication.
7	Face Authentication Button	Goes to the face authentication screen.
8	T&A Event	Displays the Time and Attendance event.
9	Status Bar	Displays the current date and time on the device.

Device Status Screen



I	Serial	Displays the connection status with a host when in RS485 slave mode.
2	PC Connection	Displays the connection status with a PC through Ethernet or WLAN.
3	Network Connection	Displays the connection status of the Ethernet or WLAN.
4	Face Detection	Displays whether or not the face recognition is enabled.

Note

When the face recognition and all connection status are successfully set, a screen as shown below is displayed.



How to Use

Access Authentication

FaceStation supports the face, card (RFID), and ID (PIN) authentication. The authentication mode operates according to the set timezone, and each authentication timezone does not overlap. Up to 128 timezones for setting authentication mode can be set on BioStar PC software.

When Face Authentication is Set

When the face is set as the authentication option from Menu > Mode > Face Auth Mode, the face authentication is operated during the corresponding timezone.

For details regarding the face authentication, please refer to 'Authenticating Face(page 26)'.

When Card Authentication is Set

When the card is set as the authentication option from Menu > Mode > Card Auth Mod, the card authentication is operated during the corresponding timezone.

For details regarding the card authentication settings, please refer to 'Setting Card Authentication(page 40)'.



When ID Authentication is Set

When the ID is set as the authentication option from Menu > Mode > ID Auth Mod, the ID authentication is operated during the corresponding timezone.

Please refer to 'Setting ID Authentication(page 40)'for details regarding ID authentication settings.

Face Authentication Types

Face	
Ι	Scan the face.
Face +	Pin
I	Scan the face.
2	Enter the pin number and press OK.
T&A K	ey > Face
I	Press the T&A button.
2	Scan the face.
T&A K	ey > Face + Pin
I	Press the T&A button.
2	Scan the face.
3	Enter the pin number and press OK.
Face >	T&A Key
I	Scan the face.
2	Press the T&A button.
Face +	Pin > T&A Key
Т	Scan the face.
2	Enter the pin number and press OK.
3	Press the T&A button.

Card Authentication Types

Card C	Dnly
I	Enter the card ID by placing the card on the device.
Card +	Pin
I	Enter the card ID by placing the card on the device.
2	Enter the pin number and press OK.
Card +	Face
I	Enter the card ID by placing the card on the device.
2	Scan the face.
Card+	Face/Pin
I	Enter the card ID by placing the card on the device.
2	Scan the face. Or, enter the pin number and press <mark>OK</mark> .
Card +	- Face + Pin
I.	Enter the card ID by placing the card on the device.

2 Scan the face.

57

3 Enter the pin number and press OK.

How to Use

ID Authentication Types

ID + P	in
1	Enter the ID and press <mark>OK</mark> .
2	Enter the pin number and press OK.
ID + F	ace
1	Enter the ID and press <mark>OK.</mark>
2	Scan the face.
ID + F	ace/Pin
1	Enter the ID and press <mark>OK</mark> .
2	Scan the face.
_	Or enter the pin number and press OK.
ID + F	ace + Pin
1	Enter the ID and press OK.
2	Scan the face.
3	Enter the pin number and press OK.

Authenticating Time and Attendance



Either press the T&A key(F1 - F4) or select an event on the screen.



Perform the authentication process.

2 Please refer to 'Access Authentication(page 56)' for details regarding the face, card and ID authentication processes.

Note

• If the Time and Attendance is set as fixed or manual, the Time and Attendance event does not need to be separately selected. Please refer to 'Setting Time and Attendance(page 41)' for details regarding Time and Attendance.

How to Use

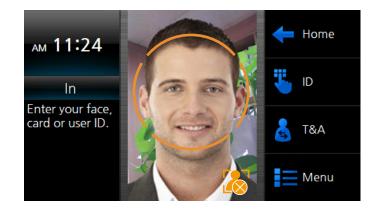
Checking Time and Attendance

The user can view the access and attendance records.

Setup

L

Press Menu.



2

Enter the registered face, card and/or ID. The Time and Attendance log list is displayed.

Feb 21 Tue PM 06:34		•
Menu > Log > Log List		
02/21 18:32:26 ID 16885952, IP Configura	02/21 18:29:26 ID 0, Menu	
02/21 18:31:26 ID 3, Enroll OK	02/21 18:28:04 ID 0, Tamper On	•
02/21 18:30:43 ID 1, Enroll OK	02/21 18:27:35 ID 0, System Started	▼
\$	^	

Note

• The general user can view the Time and Attendance log through the said method, while the administrator can go to the administrator's menu through the said method.

Specifications Cable Specifications Troubleshooting FCC Rules Device Font License Quality Assurance Index

Specifications

Product Specifications

Max Users		Users	10,000	
	Log Capacity		1,000,000	
	Image Log Capacity		10,000	
	CPU		1.1GHz DSP, 667MHz RISC	
System	LCD		4.3" WVGA Touchscreen	
	Memory		4GB Flash + 512MB RAM	
	RF Options		13.56MHz Mifare	
	Interfaces		TCP/IP, RS485(2ch), RS232, USB, Wiegand, WiFi	
	Power		12VDC, PoE (Power over Ethernet)	
General	Dimensions	FaceStation (W x H x D)	132 x 165 x 60 mm	
General	Dimensions	Wall Bracket (W x H)	97 x 107.8 mm (screw joint included)	

Electric Specifications

		Min.	Avr.	Max.	Description
Power	Voltage(V)	10.8	12	13.2	Make sure to use only the supplied power supply.
Fower	Current(mA)	-		1500	
	VIH(V)	-	TBD	-	
Switch Input	VIL(V)	-	TBD		
	Pullup Resistor	-	4.7K	-	The input ports are pulled up with 4.7K resistors.
	Switching Capacity(A)	-	-	2 0.3	30V DC 125 AC
Relay	Switching Power (resistive)	-	-	30W 37.5VA	DC AC
	Switching Voltage(V)	-	-	110 125	DC AC

Optional Accessories



Mifare reader/writer





Video phone











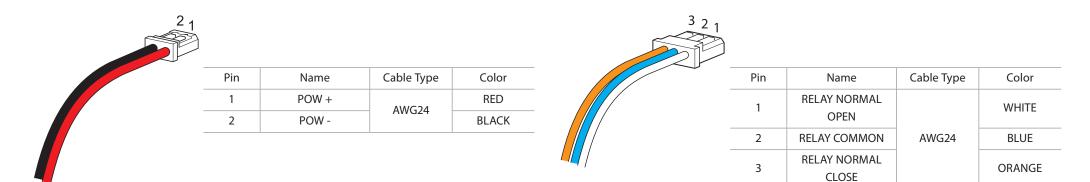




Cable Specifications

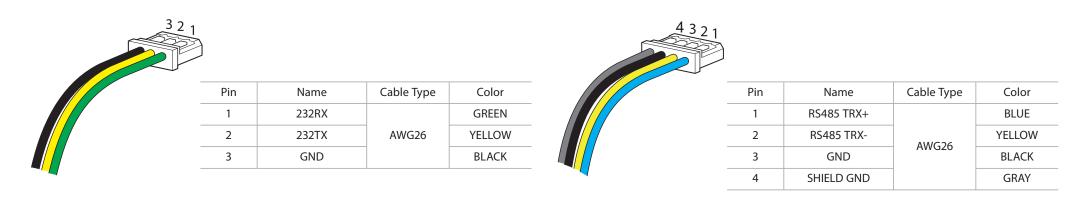
Power Cable





232 Cable

RS485 Cable



32 Cable Type Pin Name Color GREEN 1 DATA0 2 DATA1 WHITE AWG26 3 GND BLACK 4 SHIELD GND GRAY

Switch Cable

Pin Name Cable Type Color 1 SWITCH INPUT0 YELLOW 2 SWITCH INPUT1 GREEN 3 SWITCH GND BLACK 4 SHIELD GND GRAY
2 SWITCH INPUT1 GREEN 3 SWITCH GND BLACK
3 SWITCH GND
AWG26
5 SWITCH INPUT2 WHITE
6 SWITCH INPUT3 ORANGE
7 SWITCH GND BLACK
8 SHIELD GND GRAY

Video Phone Cable

Wiegand Cable



Pin	Name	Cable Type	Color
1	VOICE SIGNAL		RED
2	GND		BLUE
3	POWER		YELLOW
4	VIDEO SIGNAL	AWG26	WHITE
5	DOOR OPEN SIGNAL	,	ORANGE
6	GND		BLACK
7	SHIELD GND		GRAY

Troubleshooting

When any issues arise while using the device, you can request technical support from the local distributor or dealer you purchased the product from or Suprema via email (support@supremainc.com). When you send an email to Suprema, please include the following information:

- The F/W version of FaceStation that you are using
- The Model no. that you are using
- A detailed error message if an error message appears
- A brief description regarding the issue
- Your company name, contact information and the purchase information

FCC Rules

Caution

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

Warning

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 interface, and (2) this device must accept any interface received, including interference that may cause undesired operation.

Information to User

This equipment has been tested and found to comply with the limit of 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, user 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 the following measures:

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

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