

# FaceStation

**User Manual** 

Version v1.0

## **Important Safety Information**

Carefully review the information within the user manual before installing/operating the device.

Pay careful attention to the warning and cautions below as they are here to prevent any risk/damage to any person(s) or property associated with the device.

#### Warning

Failure to heed these warnings may lead to serious injury or even death!

#### Installation

- Do not install the device near areas with direct sunlight, high humidity, soot or dust.
- Do not install the device near heat sources such as radiators, heat registers, and stoves.
- Do not install the device near areas of large electromagnetic interference.

#### Usage

- Do not disassemble, repair or reconstruct the device.
   Contact your nearest Suprema dealer for technical support.
- Do not obstruct or place wet objects near/on the vent.
- Do not place liquids such as water, beverages and other solutions near/on the device.
- Only use the device its intended use.



#### Caution

Failure to heed these cautions may lead to minor injury or damage the device.

#### Installation

- Do not leave cables (especially power cables) exposed to the outer environment.
- Do not install the device near objects with a strong magnetic field such as magnets, computer monitors (especially CRT), TV screens and speakers.

#### Usage

- Do not apply heavy pressure to or use sharp objects with the touchscreen LCD.
- Do not drop or apply any physical shock/impact to the device.
- Regularly clean the product with a soft dry cloth; avoid benzene or alcohol.

## Contents

1 Getting Started	6
Features	7
Components	8
Optional Accessories	9
Product Description	10
Dimensions	12
2 Installation	13
Installation Precautions	14
Basic Installation	15
3 Connections	16
Cable Specifications	17
Power Cable	17
RS232 Cable	17
Relay Cable	17
RS485 Cable	17
Wiegand Cable	17
Analogue Video Phone Cable	17
Switch Cable	17

Power Connection	18
Wireless LAN Connection	18
Ethernet Connections	19
Connecting with a PC	19
Connecting with Hub	19
RS485 Connections	20
Connecting with a PC	20
Connecting with Secure I/O	20
Connecting with Other Devices	20
RS232 Connection	2
Relay Connections	22
Connecting with a Fail Safe Lock	22
Connecting with a Fail Secure Lock	22
Connecting with Automatic Doors	22
Input Connection	23
Wiegand Connections	23
Connecting a Wiegand Input	23
Connecting a Wiegand Output	24
Mini USB Connection	24
USB Connection	25
Analogue Video Phone Connection	25

## Contents

4 Devic	e Configuration	26
FaceSt	ation Menu Tree	27
Netwo	rk Settings	28
Sett	ing TCP/IP	28
Sett	ing Server	29
Sett	ing Serial Communication	29
Sett	ing USB	30
Usin	g USB Memory Device	30
Sett	ing WLAN (Only for wireless models)	31
Operat	tion Mode Settings	31
Face	Authentication Mode	32
Card	d Authentication Mode	32
ID A	uthentication Mode	33
Sett	ing General Operational Parameters	33
Time	e and Attendance Mode	34
Device	Settings	34
Sett	ing Face Authentication Settings	35
Sett	ing Door Control	35

	Setting Interphone	3
	Setting Time	3
	Checking Device Information	3
	Checking Memory Status	3
	TouchScreen Calibration	3
	Device Reset	3
	Factory Default	3
Di	splay and Sound Settings	4
	Theme	4
	Background	4
	Voice Instruction	4
	Menu Timeout	4
	Pop-Up Time	4
	Backlight Timeout	4
	Volume	4
	Language	4
	Central Time Display	4
	Date Display	4

# Contents

5 Device Operation	42
Basic Screen Views	43
Face Authentication Screen	4
Home Screen	4
Device Status Screen	44
User Management	45
User Registraion	4
Modifying User Information	4
Deleting a User	48
Deleting All Users	48
Searching for a User	49
Checking User Capacity	49
Authentication Modes	49
Face Authentication Procedure	4
Face Authentication Modes	50
Card Authentication Modes	5
ID Authentication Modes	5

Using Time and Attendance	52
Checking Time and Attendance	52
Viewing Logs	53
Log List	53
Log Search	54
Delete All Logs	54
Log Info	54
Appendix	55
Specifications	56
Product Specifications	56
Electric Specifications	56
Troubleshooting	57
FCC Rules	57
Device Font License	57
Quality Assurance	59
Index	60

Features

Components

**Product Description** 

**Dimensions** 

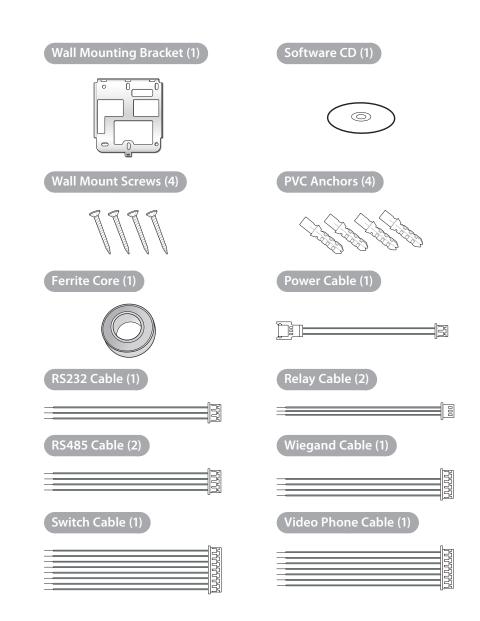
# **F**eatures

4.3" Touchscreen LCD		The 4.3" WVGA touchscreen LCD provides a robust and precise interface to an intuitive GUI allowing for easy operation and access to the device.
Next Generation Face Recognition Technology		By combining state-of-the-art technology with Suprema's proprietary algorithms, FaceStation provides querying speeds of up to 1:1000 matches per seccond. Using twin camera technology FaceStation is able to store both facial stamps using a visual camera as well as complex facial templates using the IR camera.
Various Interface Supported		FaceStation comes with a variety of network interfaces such as TCP/IP, WiFi, RS485, RS232, Wiegand, and USB.
Video Phone		FaceStation's built-in camera, microphone and speaker provides the device with the ability to be integrated with conventional analogue video phones, VoIP video phones or PC software to create.
RF Card Support	Card	Mifare Classic, Mifare Plus, and Mifare DesFire (CSN) cards are supported.
Powerful Dual-CPU Architecture	CPU	A powerful 1.1GHz DSP is dedicated to handling facial template operations and a 667MHz RISC processor ensures uninterrupted device operations.

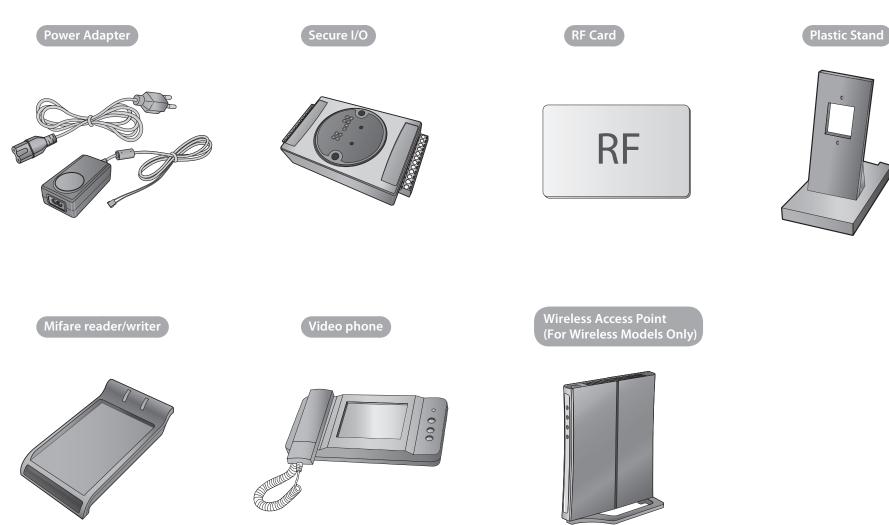
# Components

FaceStation



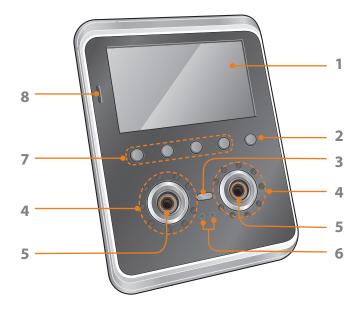


## **Optional Accessories**



# **Product Description**



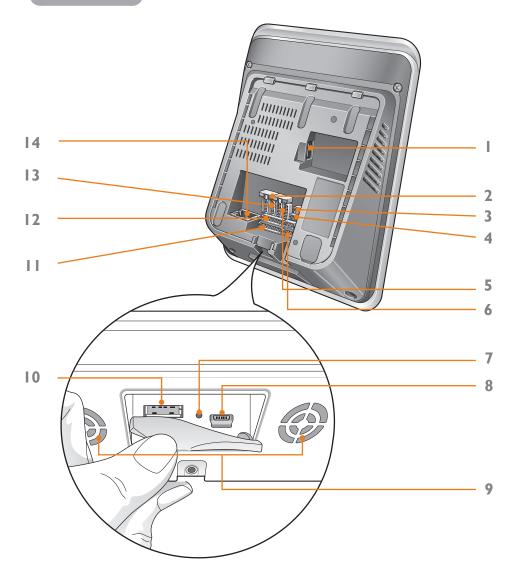


I	LCD Touchscreen	Used to display the device operating status and device operation.
2	Call Button	Used to place a call on the interphone.
3	Light LED	Used as a general lighting.
4	Infrared (IR) LED	Used as an IR light.
5	Camera	Detects and captures a face image.
6	Proximity Sensor	Determines the user's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

#### **■** Note

The RF antenna, used to scan RFID cards, is built around the IR LEDs.

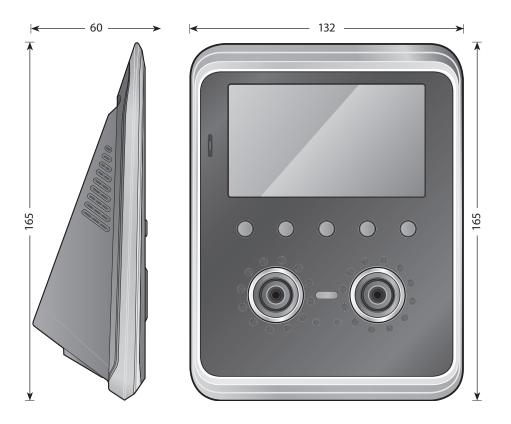
## Rear and Bottom



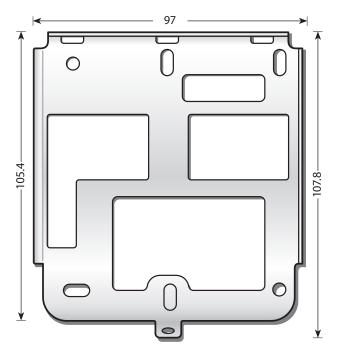
1	USB Wireless LAN Port	Used for the wireless LAN module.
2	Termination Switch	Enables RS485 termination.
3	PWR Connectors	Connects to the 2-pin power cable.
4	RS232 Connectors	Connects to the 3-pin RS232 cable.
5	RS485 Connectors	Connects to the 4-pin RS485 cable.
6	Wiegand Connectors	Connects to the 5-pin Wiegand cable.
7	Reset Button	Resets the device.
8	Mini USB Port	Connects with a PC.
9	Speaker	Audio output from the device.
10	USB type A Port	Connects to a USB memory device.
П	Input Terminal	Connects to the 8-pin input cable.
12	Analogue Video	Connects to the 7-pin analogue video phone cable.
13	Output Relay Terminal	Connects to two 3-pin relay cables.
14	Ethernet Port	Connects an Ethernet cable.

# **D**imensions

FaceStation



Wall Bracket



# 2 Installation

Installation Precautions

**Basic Installation** 

#### Installation

## **Installation Precautions**

FaceStation is a state-of-the-art face recognition terminal using Suprema's advanced adaptive IR illumination technology. Please pay care attention to the precautions and instructions to maximize its performance.

#### Installation Location

- Optimal Installation Height: 120cm (Ideal for user height's between 155cm 205cm)
- It is recommended to determine the installation height based on the shortest user.
- A uniform installation height must be maintained when installing multiple devices for the same user group.
- The device is designed for indoor use.
- When installing the device near a window, install the device at least 3 meters from the window.
- Avoid installation locations where there is direct sunlight on or behind the face.

#### Recommended Installation Height

Recommended Installation Height	User Height Range	
Bottom of the bracket	Minimum	Maximum
90cm	125cm	175cm
100cm	135cm	185cm
110cm	145cm	195cm
120cm	155cm	205cm

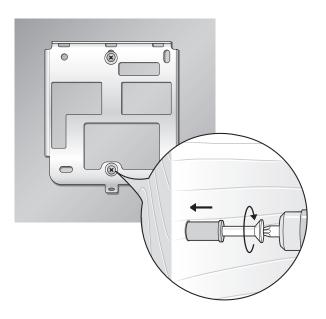
<sup>\*\*</sup> The recommended installation height refers to the distance from the ground to the bottom of the bracket.

# **B**asic Installation

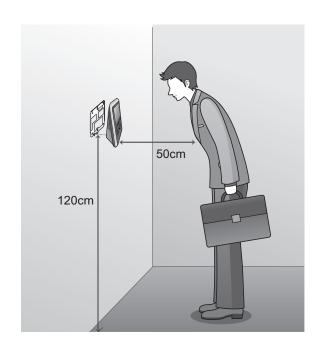
As FaceStation two built-in cameras for face recognition, the correct installation height is extremely important to maximize the performance of the device. Select the optimal installation height for all users.

### Installation

- Place the bracket on the desired location.
- 2 Fix the bracket to the location using the insert anchors and screws.



- 3 Mount the device onto the bracket.
- 4 Fix the device to the bracket using the device mount screw.
- 5 Remove the transparent protective film from the device.



**Cable Specifications** 

**Power Connection** 

Wireless LAN Connection

**Ethernet Connections** 

**RS485 Connections** 

**RS232 Connection** 

**Relay Connections** 

**Input Connection** 

**Wiegand Connections** 

Mini USB Connection

**USB** Connection

Analogue Video Phone Connection

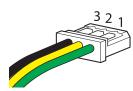
# **C**able Specifications

## Power Cable



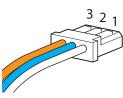
Pin	Name	Cable Type	Color
1	POW +	AWG24	RED
2	POW -	AWG24	BLACK

## RS232 Cable



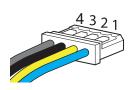
Pin	Name	Cable Type	Color
1	RS232 RX		GREEN
2	RS232 TX	AWG26	YELLOW
3	GND		BLACK

## Relay Cable



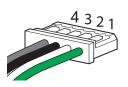
	Pin	Name	Cable Type	Color
	1	RELAY NORMAL OPEN		WHITE
2		RELAY COMMON	AWG24	BLUE
	3	RELAY NORMAL CLOSE		ORANGE

## RS485 Cable



Pin	Name	Cable Type	Color
1	RS485 TRX+		BLUE
2	RS485 TRX-	AWG26	YELLOW
3	GND	AVVG20	BLACK
4	SHIELD GND		GRAY

## **Wiegand Cable**



Pin	Name	Cable Type	Color
1	DATA0		GREEN
2	DATA1	AWG26	WHITE
3	GND	AVVG20	BLACK
4	SHIELD GND		GRAY

## **A**nalogue Video Phone Cable



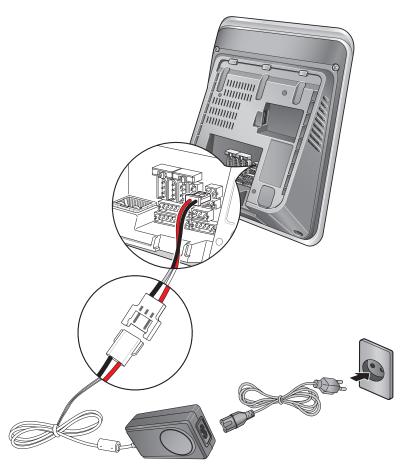
	Pin	Name	Cable Type	Color
	1	VOICE SIGNAL		RED
	2	GND		BLUE
)	3	POWER		YELLOW
	4	VIDEO SIGNAL	AWG26	WHITE
	5	DOOR OPEN SIGNAL		ORANGE
	6	GND		BLACK
	7	SHIELD GND		GRAY

## Switch Cable



Pin	Name	Cable Type	Color
1	SWITCH INPUTO		YELLOW
2	SWITCH INPUT1		GREEN
3	SWITCH GND		BLACK
4	SHIELD GND	AWG26	GRAY
5	SWITCH INPUT2	AWG20	WHITE
6	SWITCH INPUT3		ORANGE
7	SWITCH GND		BLACK
8	SHIELD GND		GRAY

## **Power Connection**

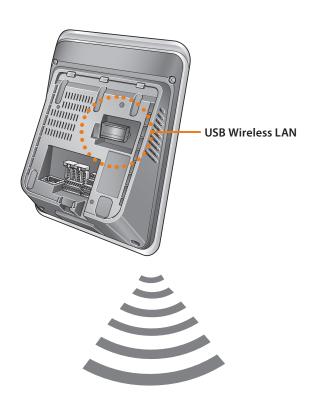


#### ■ Note

- Use a 12VDC IEC/EN 60950-1 certified power adapter.
- It is recommended not to share FaceStation's power with other devices such as Secure I/O and/or locks.

# Wireless LAN Connection

Wireless LAN FaceStation models come pre-installed with a USB WLAN module.



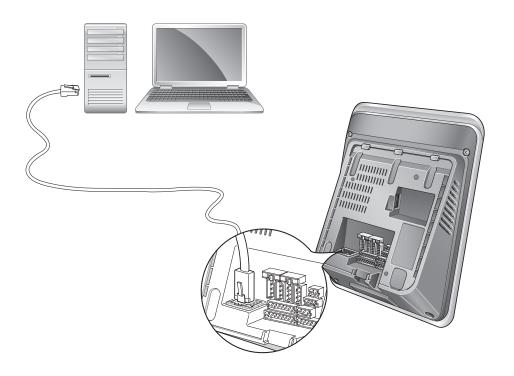
#### ■ Note

- The performance of WLAN is greatly affected by the surroundings and the type of the access point (AP) used.
- Compatibility issues may cause connection difficulties with some wireless access point brands.

# **E**thernet Connections

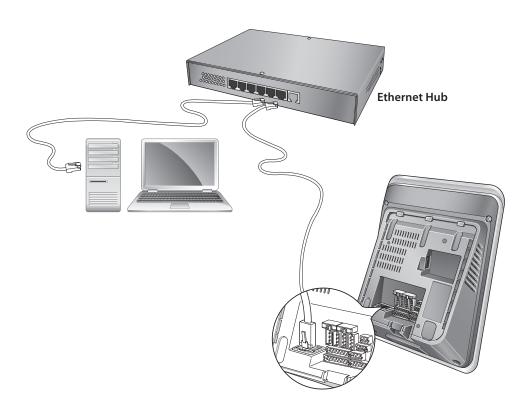
## Connecting with a PC

FaceStation can communicate with a PC through a direct connection using an Ethernet cable.



## **C**onnecting with Hub

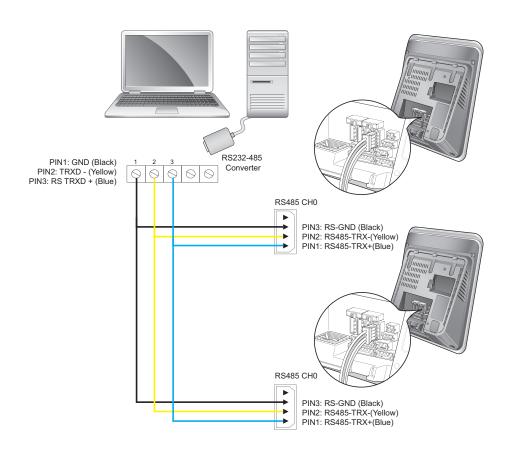
FaceStation can be connected to a network using a regular Ethernet hub or PoE hub. PoE (Power over Ethernet): Power is provided through the Ethernet connection by a IEEE802.3af compliant PSE (Power Sourcing Equipment).



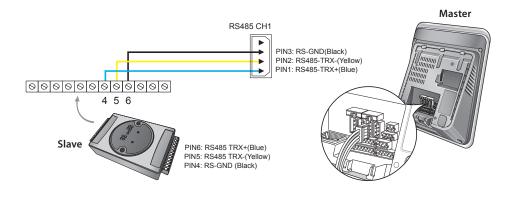
## **R**S485 Connections

FaceStation can communicate with a PC, Secure I/O, or other devices via an RS485 connection.

## Connecting with a PC



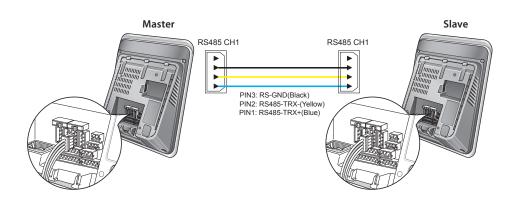
## Connecting with Secure I/O



#### ■ Note

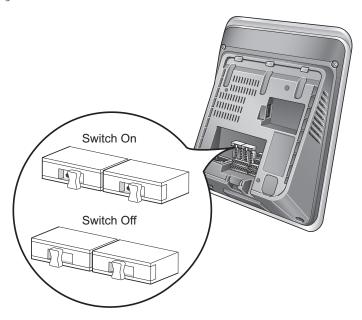
• For added security, a Secure I/O is recommended as the door relay interface.

## **C**onnecting with Other Devices



#### **■** Note

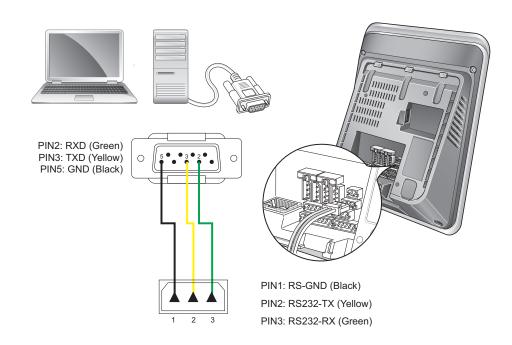
• For long RS485 connections, enable the dip switch to terminate the line and prevent signal degradation.



- Do not use the termination for short RS485 connections.
- If GND is not connected, the RS485 chip may malfunction.
- RS485 communication can support 2 host device and up to 7 slave devices.
- A maximum of 4 Secure I/O can be connected to one FaceStation.

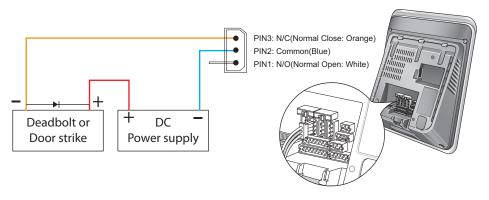
# **R**S232 Connection

FaceStation can communicate with a PC via an RS232 connection.

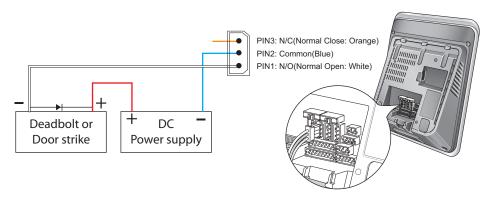


# **Relay Connections**

## Connecting with a Fail Safe Lock



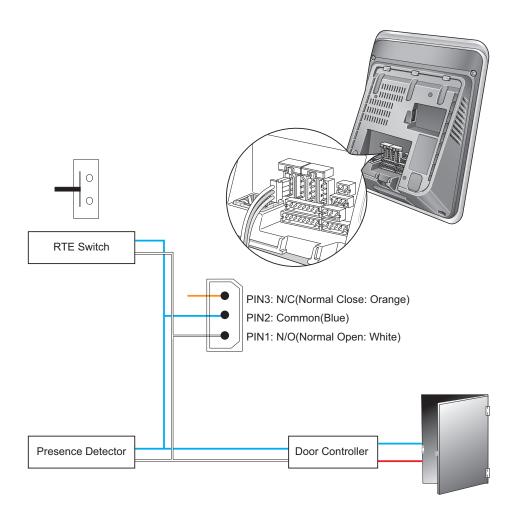
## Connecting with a Fail Secure Lock



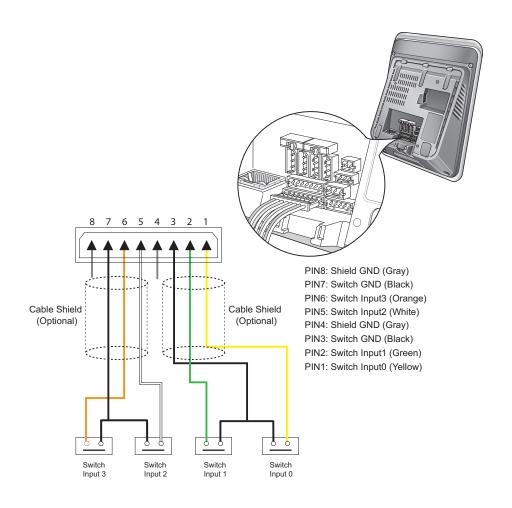
#### ■ Note

- N.O. (Normally Open): A control signal closes the circuit.
- N.C. (Normally Closed): A control signal opens the circuit.

## **C**onnecting with Automatic Doors

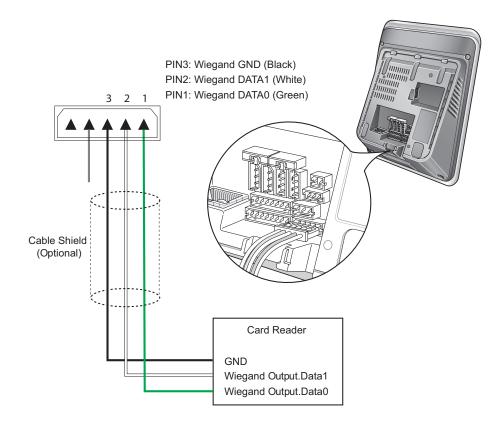


# **Input Connection**



# **Wiegand Connections**

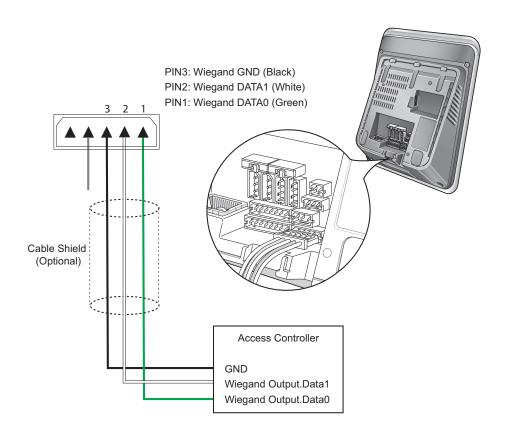
## **C**onnecting a Wiegand Input



■ Note

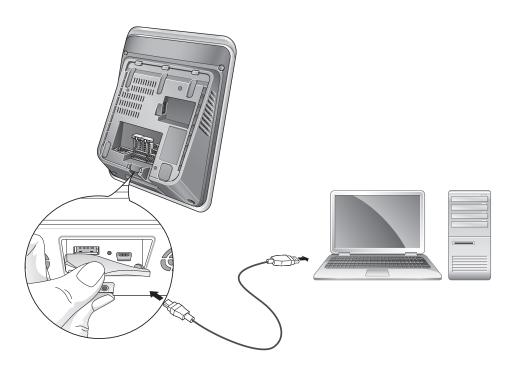
• The Wiegand port can be set as either input or output via the BioStar software.

## **C**onnecting a Wiegand Output



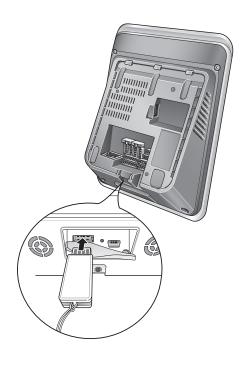
# Mini USB Connection

FaceStation can communicate with a PC via the mini USB port.



# **USB** Connection

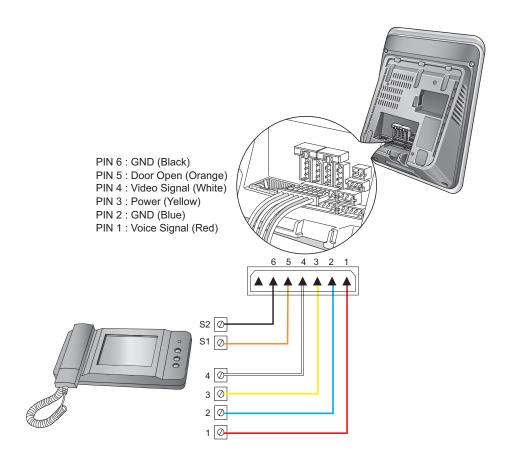
The USB port can be used to upload/download data to/from a USB memory device.



#### **■** Note

• Compatibility issues may cause recognition difficulties with some USB memory devices.

# **A**nalogue Video Phone Connection



#### Note

Compatible Analogue Video Phone Models:
 COMMAX/ CAV-35N, COMMAX/ CAV-50H, COMMAX/ CAV-50P

FaceStation Menu Tree

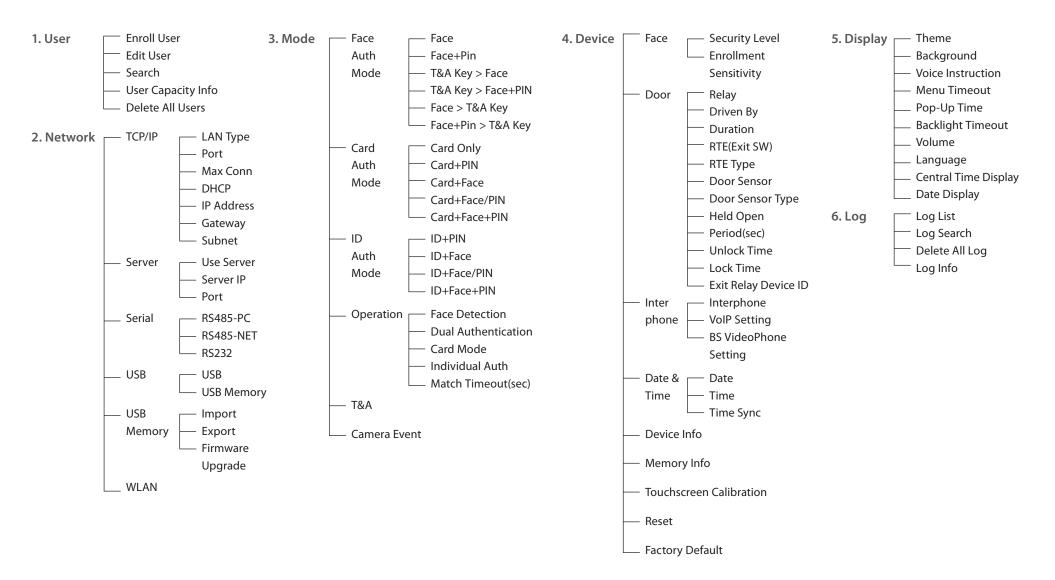
**Network Settings** 

**Operation Mode Settings** 

**Device Settings** 

Display and Sound Settings

## FaceStation Menu Tree



# **N**etwork Settings

Setup various communication interfaces with the device.



Go to Menu > Network.

Navigate to the desired interface.

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

## Setting TCP/IP

Setup the TCP/IP network settings of the device.

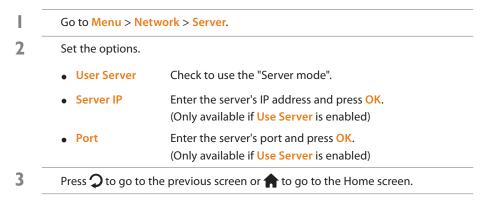


- Go to Menu > Network > TCP/IP. Set the options. • LAN Type Select the net type and press OK. Port Enter the port and press OK. Max Conn Set the maximum number of clients to be concurrently connected with the device and press OK. DHCP Check to enable DHCP. • IP Address Enter the desired IP address and press OK. (Only available with DHCP disabled) Enter the desired gateway address and press OK. Gateway (Only available with DHCP disabled) Subnet Enter the desired subnet address and press OK. (Only available with DCHP disabled)
- Press  $\mathfrak{D}$  to go to the previous screen or  $\mathfrak{h}$  to go to the Home screen.

## **S**etting Server

Setup the TCP/IP settings of the server to be connected with the device.





## **Setting Serial Communication**

Setup the serial network settings of the device.



2	Go to Menu > Network > Serial.	
	Set the options ar	nd press OK.
	• RS485-PC	You can enable/disable the RS485 port to connect with a PC and set the communication speed.
	• RS485-NET	Set the desired RS485 communication mode. (NET-HOST: allows slave devices to be connect to the device; NET-SLAVE: allows the device to connect to a host)
	• RS232	Set to communicate with a PC using RS232. (Only available if RS485 is disabled)
3	Press 🔾 to go to t	the previous screen or 🏫 to go to the Home screen.

#### Note

• The RS485 network supports up to 1 host devices and 7 slave devices (including up to 4 Secure I/O).

## **S**etting USB



- Go to Menu > Network > USB.
- 2 Set the options.
  - USB Setup the USB port to connect with a PC.
  - USB Memory Setup the USB port to connect with a USB memory device.
- Press 2 to go to the previous screen or  $\uparrow$  to go to the Home screen.

## **Using USB Memory Device**

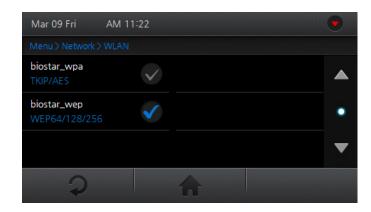
Contains various options associated with the USB memory device. (Only available if USB Memory is enabled)



- 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.
- Press to go to the previous screen or to go to the Home screen.
- Note
  - The USB Memory needs to be checked from Menu > Network > USB in order to activate the USB Memory menu.

## Setting WLAN (Only for wireless models)

Setup one of the four WLAN network presets to communicate with BioStar. The preset details can be configured via BioStar.



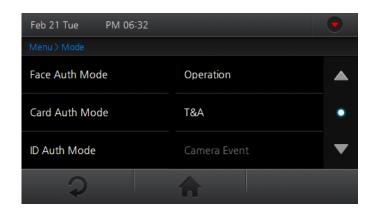
Go to Menu > Network > WLAN.

Check the preset option to use for WLAN connection.

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

# **Operation Mode Settings**

Setup the various authentication modes, operation modes, and/or time & attendance triggers for the device. The authentication modes will operate according to the schedule set via BioStar.



- Go to Menu > Mode.
- Set the options.
- Press  $\mathfrak{D}$  to go to the previous screen or  $\mathfrak{h}$  to go to the Home screen.

### **Face Authentication Mode**



#### Go to Menu > Mode > Face Auth Mode.

Check Never or Always to set the schedule.

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.

Press  $\mathfrak{D}$  to go to the previous screen or  $\mathfrak{m}$  to go to the Home screen.

#### **Card Authentication Mode**



Go to Menu	u > Mode > 0	Card Auth Mode.
------------	--------------	-----------------

2 Select a desired option.

• Card + Face + Pin	Authenticates with card, face, and pin number.
• Card+ Face/Pin	Authenticates with both card and either face or pin number.
• Card + Face	Authenticates with both card and face.
• Card + Pin	$\label{eq:Authenticates} \textbf{Authenticates with both card and pin numberd.}$
• Card Only	Authenticates with a card only.

Check Never or Always to set the schedule.

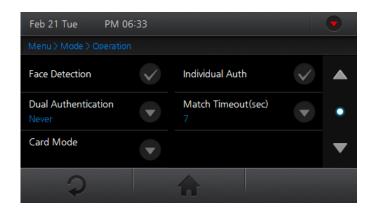
4 Press  $\mathfrak{D}$  to go to the previous screen or  $\mathfrak{h}$  to go to the Home screen.

#### **ID** Authentication Mode



- Go to Menu > Mode > ID Auth Mode.
- 2 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.
- 3 Check Never or Always to set the schedule.
- Press  $\mathbf{Q}$  to go to the previous screen or  $\mathbf{\hat{n}}$  to go to the Home screen.

### **Setting General Operational Parameters**



- Go to Menu > Mode > Operation.
- 2 Check, or set the options and press OK.
  - Face Detection Check to use 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.

• Dual Authentication Requires the authentication of two different users within

15 seconds and operates the associate relay.

• Card Mode Select whether or not to use the CSN card for

authentication.

Individual Auth Check to enable individual authentication within the device.

Seer 'User Registraion(page 45)' for more details.

- Match Timeout(sec) Sets the time-out period for an authentication attempt.
- Press  $\mathbf{O}$  to go to the previous screen or  $\mathbf{n}$  to go to the Home screen.

3

#### Time and Attendance Mode



#### Go to Menu > Mode > T&A > T&A.

2 Set the T&A options.

• Disabled Disables the T&A buttons. The Home menu and the CALL button remain active.

• Manual(by key input) T&A events must by manually selected using the T&A buttons before authentication.

 Auto(by time schedule) T&A events are automatically applied during authentication. The schedule can be created using BioStar.

• Manual Fix(by key input)

T&A events can be must be manually selected used the T&A buttons. The selected T&A event will remain until another event has been selected.

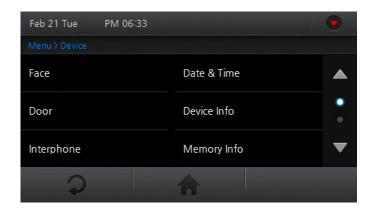
• Fixed(by device) A T&A event will be fixed by the device.

Press OK to save the changes.

Press Cancel to cancel any changes.

# **Device Settings**

Sets system related features of the device.



- Go to Menu > Device.
- Select the desired submenu and configure the corresponding settings.
- Press 2 to go to the previous screen or  $\uparrow$  to go to the Home screen.

### **S**etting Face Authentication Settings



- Go to Menu > Device > Face.
- 2 Set the options.
  - Security Level Select the desired security level and press OK.
  - Enrollment Sensitivity Select the desired enrollment speed and press OK.
- Press **2** to go to the previous screen or **1** to go to the Home screen.

#### ■ Note

- Increasing the security level will indirectly increase the FRR (False Rejection Rate), the probably that the system will reject access for an authorized user, because stricter authentication protocols will reject more inconsistencies.
- Decreasing the Enrollment Sensitivity will allow for easier enrollment.

## **Setting Door Control**



- Go to Menu > Device > Door.
- 2 Set the options and press OK.
  - Relay Sets a relay to be used with the door.
  - **Driven by** Sets a trigger to activate the relay.
    - All Events: Opens the door for all authentication modes.
    - Authentication: Triggers the relay when a general authentication occurs.
    - T&A Event: Triggers the relay when a time and attendance authentication occurs.
    - Authentication + : Triggers the relay only when

      T&A Event both general authentication

      and time & attendance

      authentication are set to trigger

      the relay.
    - Disabled: Disables all triggers for the relay.

Duration(sec)
 Sets the activation time of the relay.
 (Period in which the door will remain open)

• RTE (Request to Exit) Sets an input to be used as an exit switch.

RTE Type Set the default state of the switch.
 (N/O: Normal Open; N/C: Normal Closed)

• Door Sensor Sets an input to be used for detecting the door status.

• Door Sensor Type Set the default state of the switch.

(N/O: Normal Open; N/C: Normal Closed)

• Held Open Sets the duration that a door must be held open

**Period(sec)** before an alarm is triggered.

• Unlock Time Sets a schedule for which the door will remain open.

The schedule can be set using the BioStar software.

• Lock Time Sets a schedule for which the door will remain locked.

The schedule can be set using the BioStar software.

Press  $\mathfrak{D}$  to go to the previous screen or  $\mathfrak{m}$  to go to the Home screen.

## **Setting Interphone**

Enables the device to act as an interphone.



Go to Menu > Device > Interphone.

Select the desired interphone type and configure the corresponding settings.

Interphone

Select the desired interphone type and press OK.



## **Device Configuration**

#### **VoIP Setting**

Set the desired VoIP settings for the IP Interphone.



VoIP Enter the VoIP IP address and press OK.
 Server IP

VoIP Enter the VoIP phone number and press OK.
 Phone Number

VoIP Enter a VoIP server ID and press OK. Korean,
 Server ID English, number, and special characters can be used for an ID.

VoIP Enter the VoIP server password and press OK.
 Server Password

VoIP Adjusts the VoIP microphone volume. (0 - 10)
 Mic Gain

VoIP Adjusts the VoIP speaker volume. (0 - 10)
 Speaker Gain

VoIP Enter the VoIP name to be displayed on the
 Display Name screen and press OK.

BS VideoPhone Setting Set the desired BioStar VideoPhone settings.



• Mode Select either single or extension mode and press OK.

• PIN Enter a pin number for the BioStar VideoPhone and press OK.

Door Enables or disables the door control on the BioStar
 Control VideoPhone.

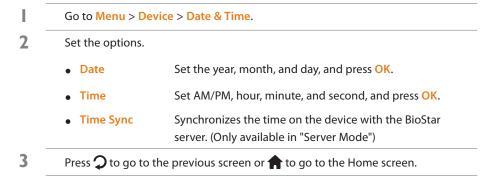
Press to go to the previous screen or to go to the Home screen.

# **Device Configuration**

## **Setting Time**

Sets the date/time options for the device.





#### **Checking Device Information**

Displays information such as the model name, device ID, hardware version, firmware version, kernel version, MAC address and more.

Go to Menu > Device > Device Info.

Press 2 to go to the previous screen or 1 to go to the Home screen.

#### **Checking Memory Status**

Display the status of the DRAM, FLASH and FLASH2 memory.

Go to Menu > Device > Memory Info.

Press OK to return to the previous screen.

#### **TouchScreen Calibration**

Recalibrates the touchscreen to coordinate the point of contact with the user interface.

Go to Menu > Device > Touch Calibration.

Press the center of each point 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.

3 Press OK to complete the touchscreen calibration.



• There is no "Esc" key so the process must be completed to exit the touchscreen calibration.

#### **Device Reset**

Go to Menu > Device > Reset.

Press Yes to restart the device.

Press No to return to the previous screen.

#### **Factory Default**

Go to Menu > Device > Factory Default.

Press Yes to initialize the device.

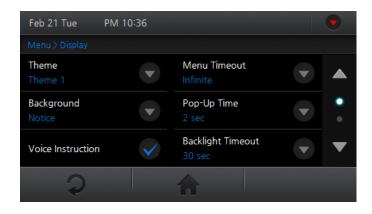
Press No to return to the previous screen.

■ Note

 A factory default will only affect the device configurations. The user information and log data will remain intact.

# **Device Configuration**

# **Display and Sound Settings**



- Go to Menu > Display.
- 2 Set or check by pressing the relevant option.
- Press  $\mathfrak{D}$  to go to the previous screen or  $\mathfrak{m}$  to go to the Home screen.

#### Theme

Sets the graphical theme of the device.

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

## **Background**

Sets the background of the device.

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



• The Logo screen is displayed during authentication.

#### Voice Instruction

Enables voice instructions from the device.

#### **Menu Timeout**

Sets the amount of idle time required before returning to the home menu.

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

## Pop-Up Time

Sets the duration before the pop-up window disappears.

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

# **Backlight Timeout**

Sets the amount of idle time required before turning off the LCD.

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

#### Volume

Sets the volume output of the device.

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

#### Language

Sets the displayed language on the device.

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

## **C**entral Time Display

Enable or disables the clock located in the center of the screen.

## **Date Display**

Sets the desired date format.

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

**Basic Screen Views** 

User Management

**Authentication Modes** 

Viewing Logs

# **B**asic Screen Views

#### **Face Authentication Screen**

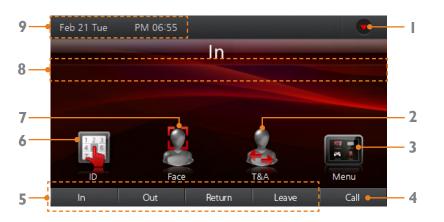
The following screen is displayed during face authentication.



1	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 status.
6	Image Display Screen	Displays an image from the camera.
7	Authentication Method	Displays the authentication method.
8	T&A Event	Displays the current T&A mode.
9	Current Time	Displays the current time on the device.
10	Face Detection	Displays the guide line for face detection.
10	Guide Line	(Blue circle: Face Detected/ Orange: Face Not Found)

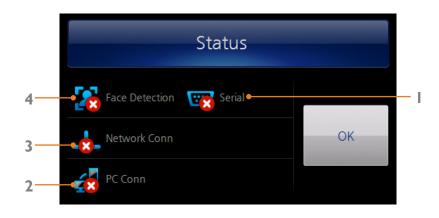
#### Home Screen

The following screen is the default home screen.



	Status Button	Click to display the status of the device.
2	Additional T&A Button	Click to select up to 12 time & attendance options in addition to the 4 basic time & attendance buttons.
3	Menu Button	Click to enter the administrator menu.
4	Call Button	Click to use the selected video phone.
5	Basic T&A Button	Displays 4 basic time & attendance events
6	ID Authentication Button	Click to initiate the ID authentication mode.
7	Face Authentication Button	Click to initiate the face authentication mode.
8	T&A Event	Displays the current T&A mode.
9	Status Bar	Displays the 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 above is displayed.

# **U**ser Management

# **User Registraion**

After the device installation, register the administrator before use.

Check the "Administrator" option within the enroll user window to create an administrator. The administrator can register and delete users and set preferences.

Go to Menu > User > Enroll User.

Register the user's picture.

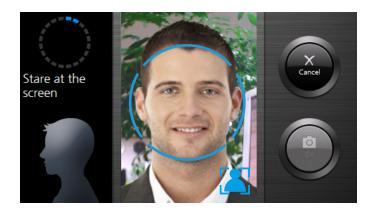
- 1) Press the Profile Image for registering the user's picture.
- 2) Align your face in the screen and press **Capture**. The captured facial image will be registered.

Press Cancel to cancel the registration.

Cancel

- Press User ID to enter the user ID and press OK.
- 4 Press Name, and enter a name press OK.
- Press Face to enroll a face.

1) Stare directly at the screen.

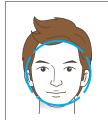


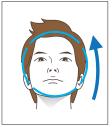
2

2) Move your head up and down.



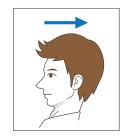




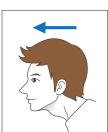


3) Move your face back and forth.

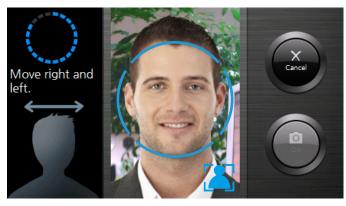








#### 4) Move your face right and left.









- 5) Press OK to complete the registration.

  Press Cancel to cancel the face registration.
- Press Card to enter the ID and press OK.
- Press PIN to enter the pin number and press OK.
- 8 Check Administrator to register as the administrator.
  Uncheck Administrator if registering as a general user.
- Check or uncheck Bypass Card. If Bypass Card is checked when registering a
   user, the user is always authenticated regardless of the authentication mode on the device.

Press Individual Auth and set the authentication mode.

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.
- Select **Group** and set he access of group users. A group can be selected from Access groups transferred from the BioStar software to the relevant device.

  After setting, press **OK**.
- Press O to go to the previous screen or to go to the Home screen without saving the changes.

#### Precautions for Registration

- If there is no progress in registration, slightly move your face.
- It is recommended to register your face at the installation site.
- Register an expressionless face.
- It is recommended to keep a distance of 40~80cm from the device when registering your face.
- If a user wears glasses, you may replace step 4 "Move your face left and right" with "take off your glasses and stare directly at the screen".
- Remove any obstacles obstructing your face. The eyes and eyebrows must be exposed.
- Only one person can use the device at a time.
- Do not wear sunglasses when using the device.
- Re-enroll users that have undergone major changes in facial appearance.

#### **■** Note

- 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.

#### **Modifying User Information**

Use the following steps to modify the information of a registered user.



- Go to Menu > User > Edit User.
- 2 Select a user by pressing the user name field.

Modify the desired information. For details regarding the information modification, please refer to 'User Registraion(page 45)'.

Press to save the modified information.

Press to go to the previous screen or to go to the Home screen without saving the changes.

#### **■** Note

• The user ID cannot be modified.

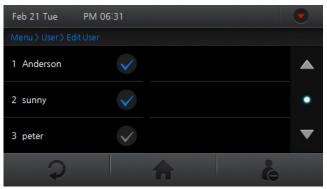
## **Deleting a User**

Use the following steps to remove user(s) from the FaceStation's database.



Select the user(s) to be deleted.





Press Yes to delete the selected user.

Press No to cancel the deletion.

## **Deleting All Users**

Use the following steps to delete all the users within the database.

Go to Menu > User > Delete All Users.

Press Yes to delete all registered users.

Press No to cancel the deletion.

#### Note

3

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

## Searching for a User

Use the following steps to search for a registered user.

Go to Menu > User > Search.

Search by ID Enter an ID and press OK.

• Search by Name Enter a name and press OK.

• Search by CSN Enter the card.

Press OK to display the search results.

Press Cancel to cancel the search.

#### **Checking User Capacity**

Use the following steps to view the memory status of the user DB.

Go to Menu > User > User Capacity Info.

Press OK to return to the previous screen.

#### **■** Note

• FaceStation can store up to 10,000 users (1:1).

# **Authentication Modes**

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.

#### **Face Authentication Procedure**

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

Align your face within the orange guideline until it turns blue. And keep your face still until the authentication is complete.



#### **■** Note

• Make sure to keep the distance of 50cm from the device when authenticating the face.

The follow screen will be displayed upon a successful authentication.



#### Precautions for Authentication

- If authentication takes too long, slightly move your face.
- Remove any obstacles obstructing your face. The eyes and eyebrows must be exposed.
- Only one person can use the device at a time.
- Do not wear sunglasses when using the device.
- Re-enroll users that have undergone major changes in facial appearance.

#### **Face Authentication Modes**

#### Face

Scan the face.

#### Face + Pin

- Scan the face.
- 2 Enter the pin number and press OK.

#### T&A Key > Face

- Press the T&A button.
- 2 Scan the face.

#### T&A Key > Face + Pin

- Press the T&A button.
- 2 Scan the face.
- 3 Enter the pin number and press OK.

## Face > T&A Key

- Scan the face.
- 2 Press the T&A button.

#### Face + Pin > T&A Key

- Scan the face.
- 2 Enter the pin number and press OK.
- 3 Press the T&A button.

#### **Card Authentication Modes**

#### Card Only

Enter the card ID by placing the card on the device.

#### Card + Pin

- Enter the card ID by placing the card on the device.
- 2 Enter the pin number and press OK.

#### Card + Face

- Enter the card ID by placing the card on the device.
- 2 Scan the face.

#### Card+ Face/Pin

- Enter the card ID by placing the card on the device.
- Scan the face.
  Or, enter the pin number and press OK.

#### Card + Face + Pin

- Enter the card ID by placing the card on the device.
- 2 Scan the face.
- 3 Enter the pin number and press OK.

#### **ID** Authentication Modes

#### ID + Pin

- Enter the ID and press OK.
- 2 Enter the pin number and press OK.

#### ID + Face

- Enter the ID and press OK.
- **2** Scan the face.

#### ID + Face/Pin

- Enter the ID and press OK.
- Scan the face.
  Or enter the pin number and press OK.

#### ID + Face + Pin

- Enter the ID and press OK.
- 2 Scan the face.
- 3 Enter the pin number and press OK.

## **Using Time and Attendance**

Press one of the T&A keys (F1  $\sim$  F4) or click the T&A button and select an event on screen.



Perform the authentication process.

Please refer to 'Authentication Modes(page 49)' for details regarding the face, card and ID authentication processes.

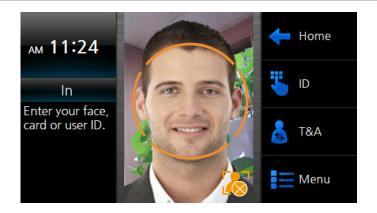
#### ■ Note

 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 'Time and Attendance Mode(page 34)' for details regarding Time and Attendance.

## **Checking Time and Attendance**

A general user can view their access and attendance records.

Press Menu.



Successfully authenticate a general user.



# Viewing Logs

View, search, or delete all logs.



Go to Menu > Log.

Select the desired option.

Press 2 to go to the previous screen or 1 to go to the Home screen.

## Log List

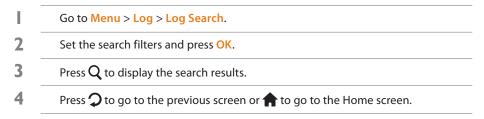
You can select and view the desired event log.

- Go to Menu > Log > Log List.
- View the logs within the device.
- Press to go to the previous screen or to go to the Home screen.

#### Log Search

Search logs by event, date, time and user ID.





## **Delete All Logs**

All logs will be deleted from the device's memory.

Go to Menu > Log > Delete All Log.

Press Yes to delete all logs.

Press No to cancel the log deletion.

## Log Info

View log events stored on the device.

Go to Menu > Log > Log Info.

2 Press OK to return to the previous screen.

#### ■ Note

• FaceStation can store up to 1,000,000 logs and 5000 image logs.

# **Appendix**

Specifications

Troubleshooting

FCC Rules

**Device Font License** 

**Quality Assurance** 

Index

# Appendix

# **S**pecifications

# **Product Specifications**

	Max Users		1000 (1:N), 10,000 (1:1)	
	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	
		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	Use certified power adapters that meet the specifications.
	Current(mA)	-		1500	
	VIH(V)	-	TBD	-	
Switch Input	VIL(V)	-	TBD		
	Pullup Resistor	-	4.7K	-	
	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

# **Troubleshooting**

Please contact your local dealer/distributor for support or contact Suprema at support@supremainc.com. Please submit the following information and we will coordinate support with your local dealer/distributor.

- Device model
- F/W version of the device
- H/W version of the device
- Detailed information regarding the issue
- Error messages / screenshots, if possible
- Contact information (Company, Name, Telephone, Email)

# **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.
- 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.

# **Device Font License**

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#### SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

## **Appendix**

#### **PREAMBLE**

The goals of the Open Font License (OFL) are to stimulate worldwide development of collaborative font projects, to support the font creation efforts of academic and linguistic communities, and to provide a free and open framework in which fonts may be shared and improved in partnership with others.

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# **Q**uality Assurance

#### Warranty

Suprema warrants the performance of the product specified in the specifications within the limitations set forth for a warranty period of one year from the date of delivery to the purchaser. If the purchaser claims any defects covered in this warranty in writing within the warranty period, then Suprema will repair or replace and deliver the defective product that is returned within the warranty period; provided that the purchaser shall be responsible for any transportation cost (including insurance for overseas shipping). This warranty does not apply to: (1) damage caused by strong external physical impact, overcurrent, misuse, abuse, or negligence; (2) damage to the product that has been improperly repaired, remodeled, or modified without the written permission of the provider; or (3) damage to the product that has been installed or used contrary to the manual provided by Suprema.

Claims for any defects must be submitted to Suprema in writing by using the Return Material Authorization Report provided by Suprema within 30 days of the finding of the defect or within 1 year from the date of delivery. The Return Material Authorization Report must include the detailed information, model number, invoice number, and serial number of the defective product. A product without the return authorization number issued by Suprema is not considered to be eligible for the warranty; all defects must be reproducible.

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# Appendix

# Index

Electric Specifications 56

Ethernet Connections 19

A	F	0	Setting TCP/IP 28
Analogue Video Phone Connection 25	Face Authentication Mode 32	Optional Accessories 9	Setting USB 30
Authentication Modes 49	Face Authentication Modes 50	P	Setting WLAN (Only for wireless models) 31
<b>B</b> BS VideoPhone Setting 37	Face Authentication Procedure 49 Face Authentication Screen 43	Power Connection 18 Product Description 10	<b>T</b> Time and Attendance Mode 34
C	FaceStation Menu Tree 27 Factory Default 39	Product Specifications 56	TouchScreen Calibration 39
Card Authentication Modes 51	н	Q	U
Checking Device Information 38	Home Screen 43	Quality Assurance 59	USB Connection 25
Checking Memory Status 38 Checking Time and Attendance 52	I	R	User Registraion 45 Using Time and Attendance 52
Checking User Capacity 49	ID Authentication Mode 33	Recommended Installation Height 14	Using USB Memory Device 30
D	ID Authentication Modes 51 Input Connection 23	Relay Connections 22 RS232 Connection 21	V
Delete All Logs 54	Installation Location 14	RS485 Connections 20	VoIP Setting 37
Deleting a User 48		S	W
Device Reset 39 Device Status Screen 44	Log Info 54	Searching for a User 49	Wiegand Connections 23 Wireless LAN Connection 18
Display and Sound Settings 40	Log List 53	Setting Door Control 35	Wireless LAN Connection To
E	Log Search 54	Setting Face Authentication Settings 35 Setting General Operational Parameters 33	

Setting Interphone 36

Setting Server 29

Setting Serial Communication 29

M

Mini USB Connection 24

Modifying User Information 48



Suprema Inc.

16F Parkview Tower, 6 Jeongja, Bundang, Seongnam, Gyeonggi, 463-863 Korea
Tel: +82-31-783-4502 | Fax: +82-31-783-4503

Email: sales@supremainc.com | Homepage: www.supremainc.com