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X-Station
Smart IP
Access Terminal

User Guide
Ver 1.0



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Product Features



The X-Station adopts the RF card reader function to enable T&A mode and access control.



The X-Station is smart IP-base device with a 3.5 inch color touchscreen LCD and provides a more intuitive User Interface.



The built-in camera enables the user to store video logs and face detection technology.



The X-Station can be directly connected to a PC or a server and supports Ethernet and RS485 as real-time interface.



The X-Station supports a total of 16 T&A events and provides 'ID/Card+Password' identification mode.



The X-Station is capable of storing up to 200,000 logs and 5,000 user's pictures on the device. Furthermore, 1,000,000 normal logs, as well as 5,000 video logs can be stored.

→ Safety Instructions

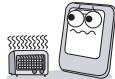
The following instructions ensure your safety and prevent any property damage. Be sure to read the following instructions and use the product correctly.



Do not install the terminal in a place affected by direct sunlight, humidity, dust or soot.



Keep the terminal away from magnets or anything containing magnetic material such as CRT, TV sets, computer monitors and speaker.



Keep the terminal away from heating products.



Do not spill any liquids (water, soda or solution) into the terminal.



Clean the terminal regularly to prevent dust setting on it.



Use a soft cloth or towel when cleaning the terminal. Do not use spray water on the terminal.



Do not drop the terminal or subject it to heavy impact.



Do not apply heavy pressure to the touch screen.



Do not disassemble, repair or reconstruct the terminal.



Keep the product out of reach from children.



Do not use the terminal for any other purpose than original use.



In cases of product malfunction or problems, please contact a service center.

→ Chapter 1. Before use

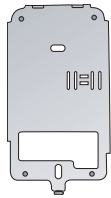
Package Contents

Please check the product package contains the following items. If any of the following items is damaged or missing, please contact your retailer immediately.

Basic Items



X-Station Terminal



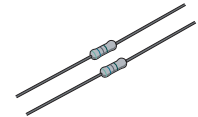
Bracket



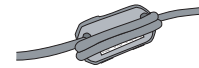
Cable(5)



Screws and holders
(2 each)



Termination resistor
(2 pcs)



Ferrite Core

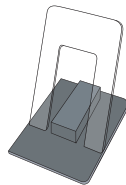


Software CD

Optional Accessories



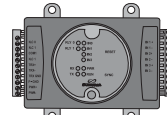
12V Power Adapter



Plastic Stand



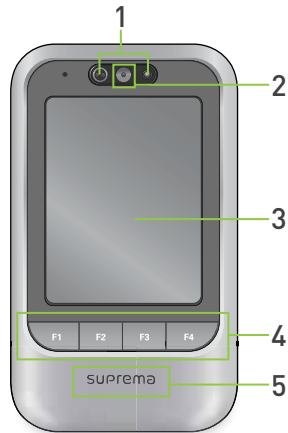
Card Reader



Secure I/O

Product Part Description

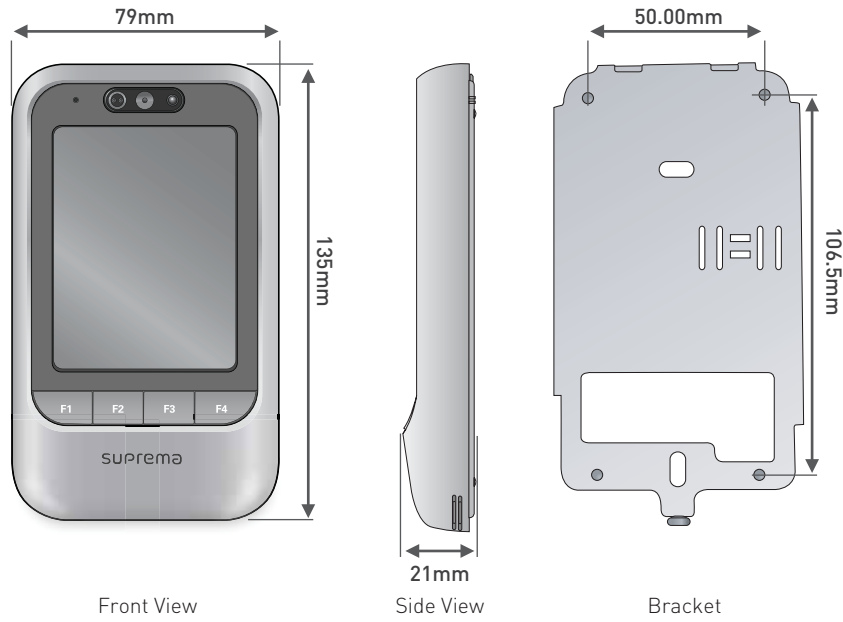
Name and Function



No	Name	Function
1	Proximity Sensor	Turns on LCD backlight when user gets close to sensor.
2	Camera	Allows to record videos or face detection feature.
3	LCD screen	Displays current status (T&A mode, notice etc.) and the time.
4	Function Keys	Uses function keys for the T&A events.
5	FR Card sensor	Reads FR card.

Product Size

Product size: 79mm (W) x 135mm (H) x 21mm (D)



Display



	Displays face detection mode on		Displays door status
	Displays Ethernet Connection status		Indicates connection to PC via Ethernet
	Indicates slave device connection status via RS485		Displays current time

Display current time and date

	Inputs ID for authentication
	Enters additional T&A events
	Enters the admin menu

Describes F1 to F4 key
When users touch the button, it operates same function as F1 to F4 key.

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Chapter 1.
Before Use

Standby Screen



Logo Screen



Announcement Screen



Fix T&A mode Screen



Auto T&A mode Screen



Terminal Locked



Security mode On



Data Transfer mode

Authorization methods

Card Only



Authorize with a registered card.

Card+Password



Place a registered card, and then enter a password.

ID+Password



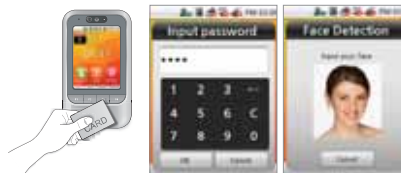
Enter a registered ID, and then enter a password.

Card+Face Detection



Place a registered card and then, face detection authorization.

Card+Password+Face Detection



Authorize with Card and password, and then face detection authorization.

ID+Password+Face Detection



Authorize with ID and password, and then Face detection authorization.



Note

- Refer to [Chapter 3. User Functions > 1. Entrance Authorization] on page 28 for further explanations.



CSN/Data Card



CSN Card

Device reads the CSN (Card Serial Number) card which is the own ID of a card. Card authentication will be allowed when the new input CSN card is matched with the registered CSN card.



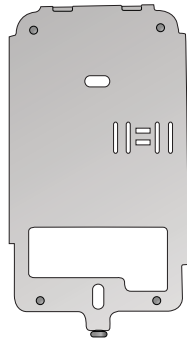
Data Card

User information including user ID and password is saved into the card if device is set to data mode. Device reads the user information from a card when the new card is input.

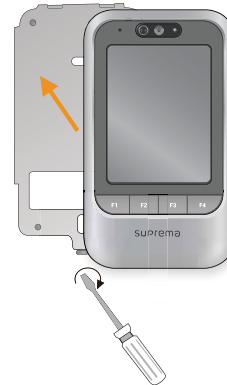
Chapter 2. Product Installation

Installation

Adjusts the wall mount bracket and attach it firmly to the wall.



Attaches the product on the wall mount bracket, adjust the product using the screw at the bottom of wall mount bracket.

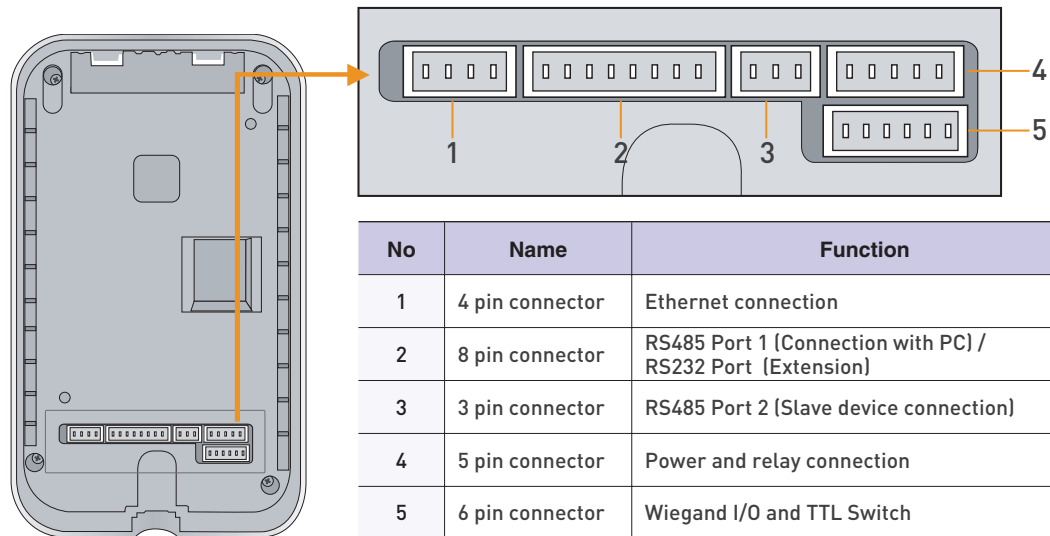


2

Chapter 2
Product Installation

Connector/Cable Specifications and Connection

Connector Specifications



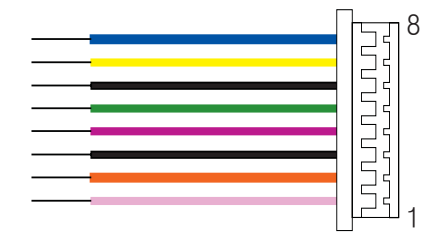


4 pin connector (Ethernet Connection)



Pin	Pin Description	Wire Color	RJ45 Pin
1	TX +	YELLOW	6
2	TX -	GREEN	3
3	RX +	RED	2
4	RX -	BLACK	1

8 pin connector - RS485 port 1 (Connection with PC) / RS232 port (for extension)



Pin	Pin Description	Length	Cable Type	Wire Color
1	RS232 CTS	30cm	AWG26	PINK
2	RS232 RTS			ORANGE
3	GND			BLACK
4	RS232 TX			PURPLE
5	RS232 RX			GREEN
6	GND			BLACK
7	RS485 TRX-			YELLOW
8	RS485 TRX+			BLUE

3 pin connector - RS485 port 2 (Slave device connection)



Pin	Pin Description	Length	Cable Type	Wire Color
1	GND	30cm	AWG26	BLACK
2	RS485 TRX-			YELLOW
3	RS485 TRX+			BLUE

5 pin connector – Power and relay



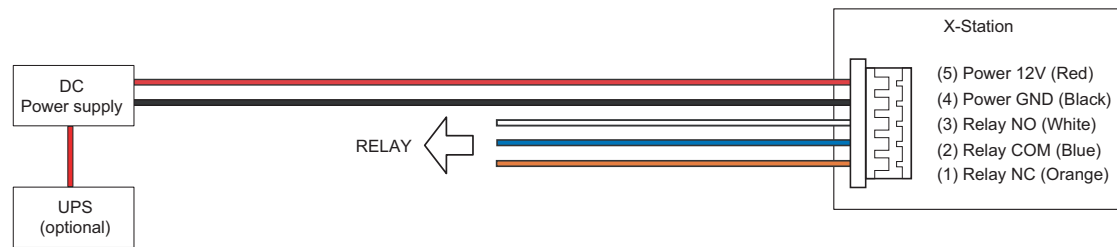
Pin	Pin Description	Length	Cable Type	Wire Color
1	Relay NC	30cm	AWG24	ORANGE
2	Relay COM			BLUE
3	Relay NO			WHITE
4	GND			BLACK
5	12VDC			RED

6 pin connector - Wiegand I/O and TTL Switch



Pin	Pin Description	Length	Cable Type	Wire Color
1	SW IN1	30cm	AWG26	ORANGE
2	SW IN0			YELLOW
3	GND			BLACK
4	Wiegand GND			BLACK
5	Wiegand D1			WHITE
6	Wiegand D0			GREEN

Power Connection (5 pin connector)

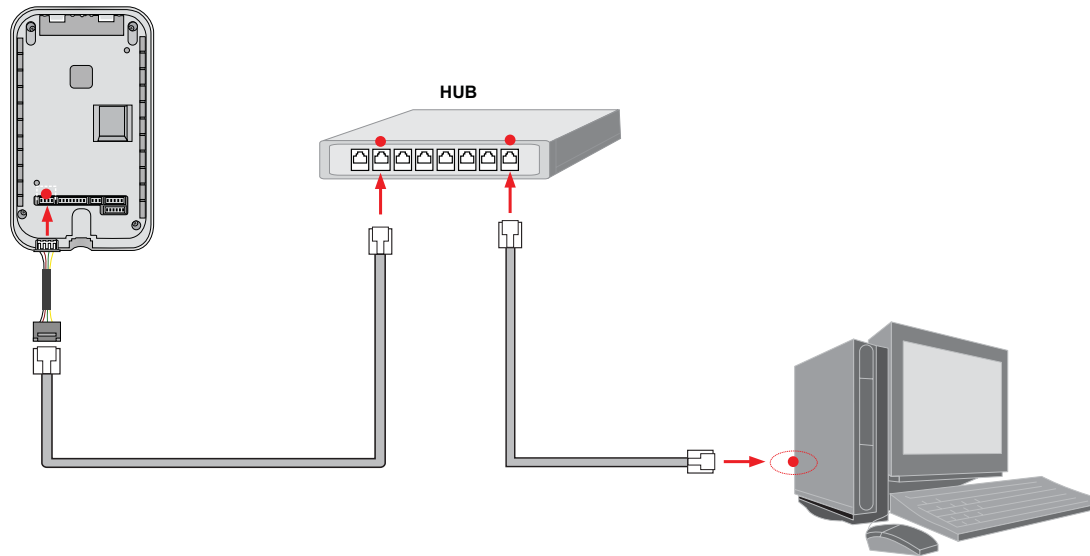


Note

Recommended Power Specification

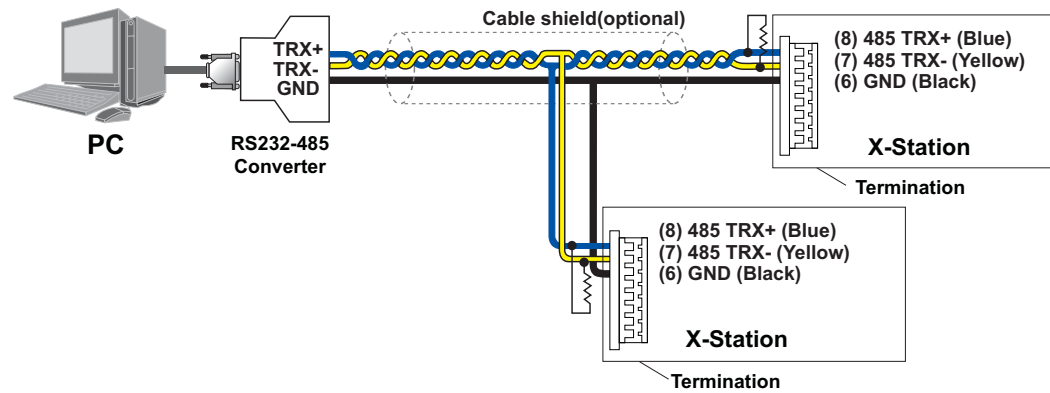
- Voltage 12V \pm 10%, current 1500mA or above. You should use an authorized IEC/EN 60950-1 12V adapter.
- In case of another unit providing power for X-Station, it is recommended you use an adapter for more than 1500mA.

Ethernet Connection (4 pin connector)



- After plug the 4 pin cable to the back of the terminal, connect the RJ45 socket of the 4 pin cable with a LAN cable to the hub.

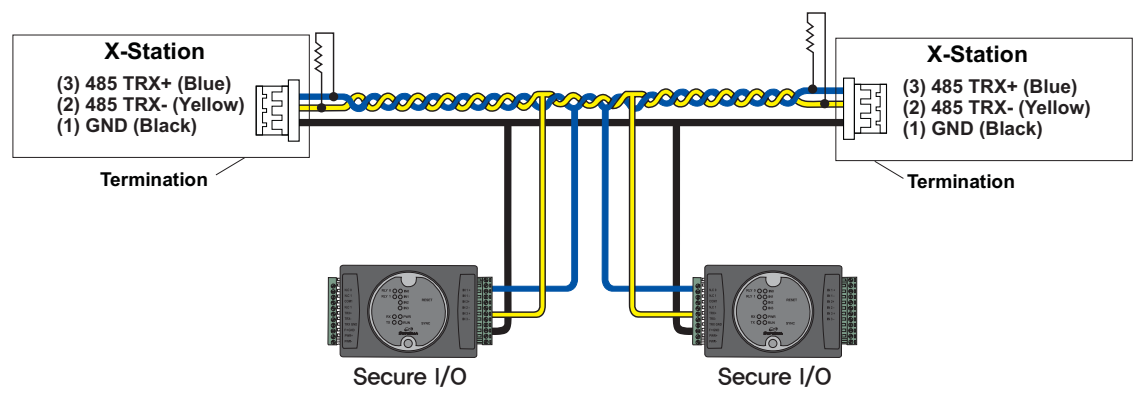
RS485 Connection with the PC (8 pin connector)



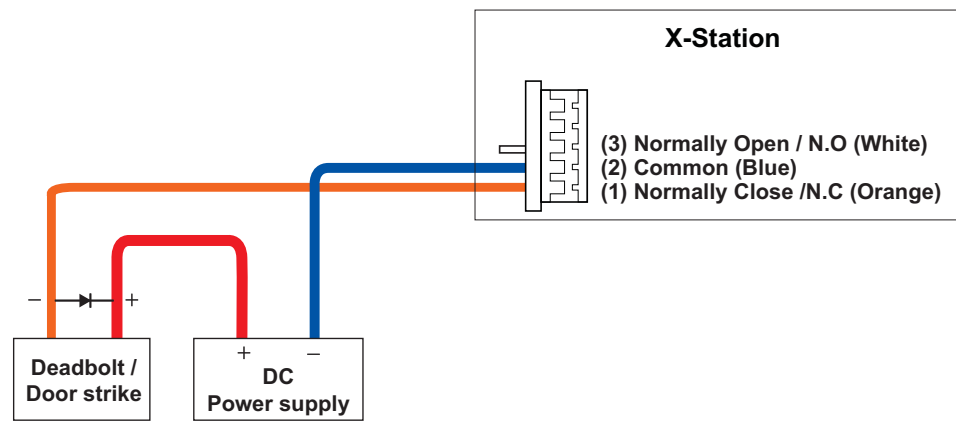
Note

- In case the signal is not sent correctly, you should install a terminal resistance at both ends of the bus. (120 Ω resistance)
- The signal quality can vary depending on the route, so you need to adjust the transmission speed or lower the transfer rate.

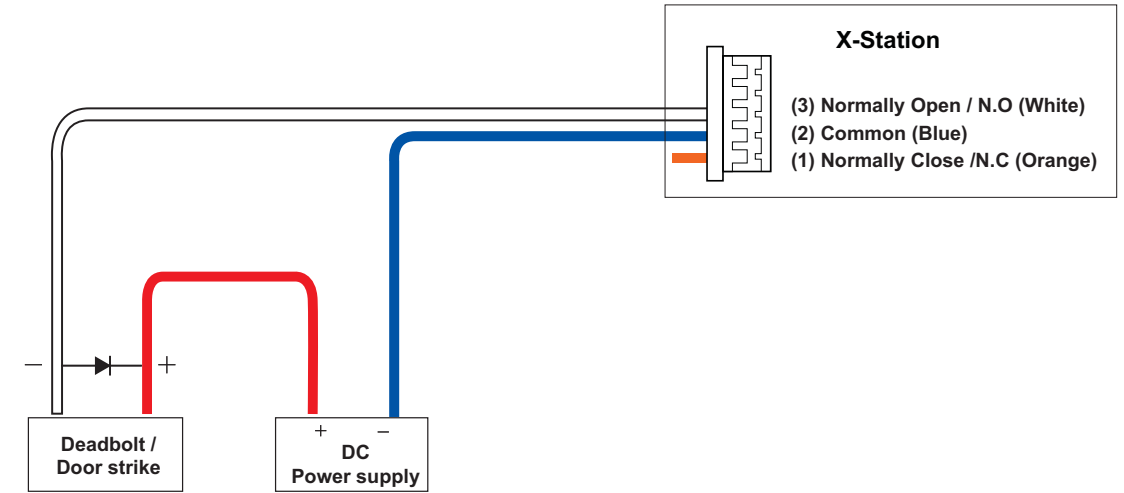
RS485 Connection to Secure I/O or Other Terminals (3 pin connector)



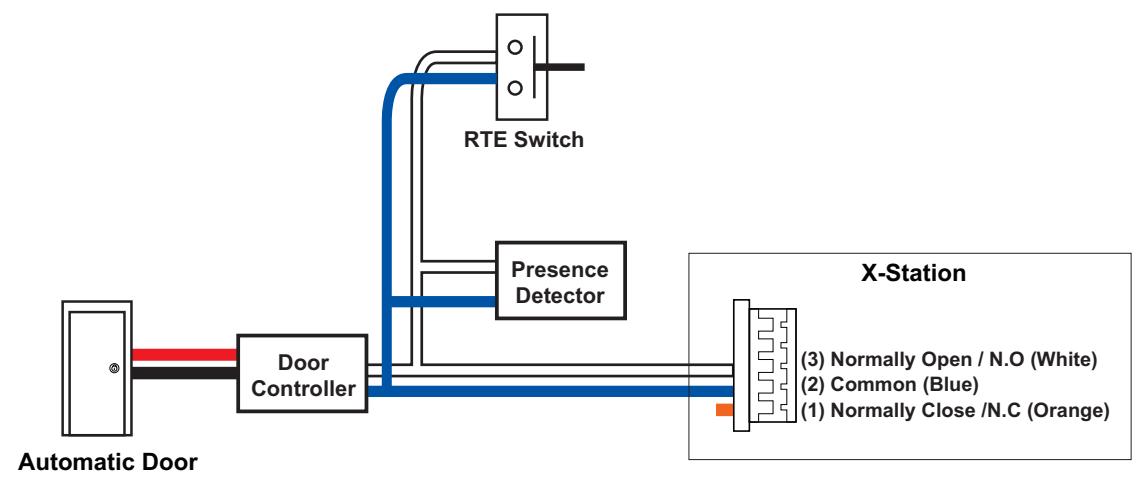
Relay Connection - Fail Safe Lock (5 pin connector)



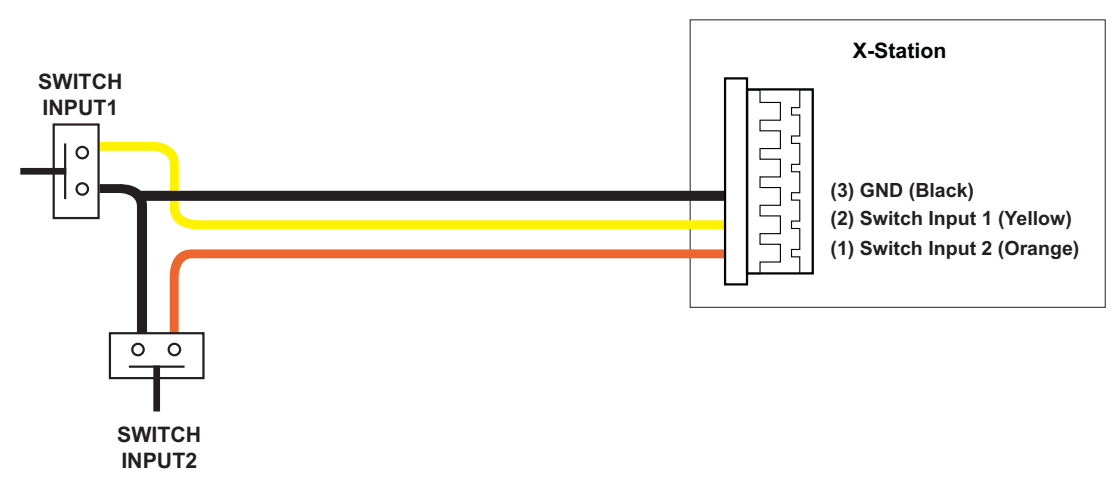
Relay Connection - Fail Secure Lock (5 pin connector)



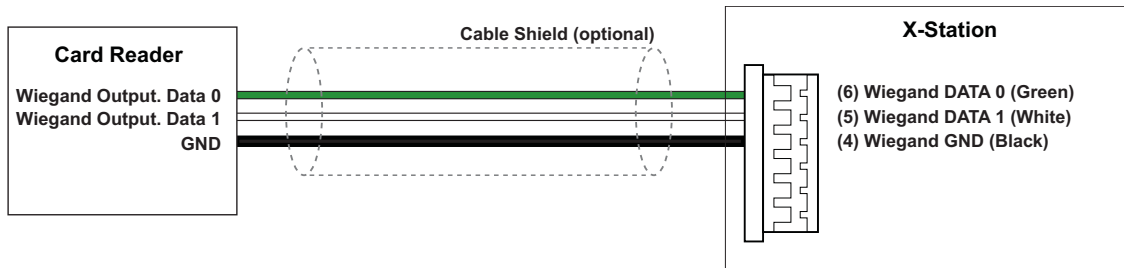
Relay Connection – Automatic Door (5 pin connector)



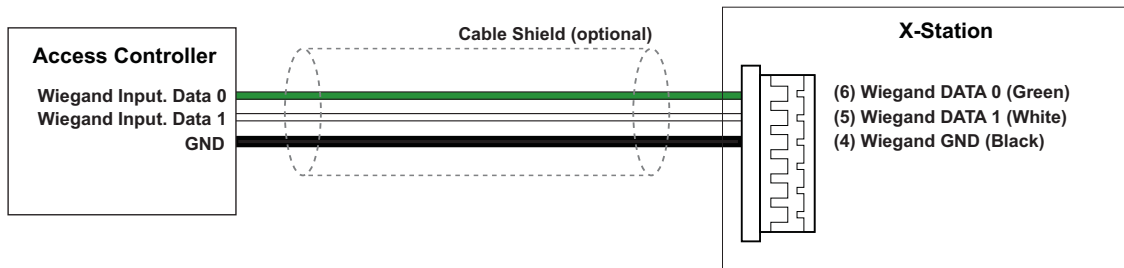
TTL Switch Connection(6 pin connector)



Wiegand Input (6 pin connector)



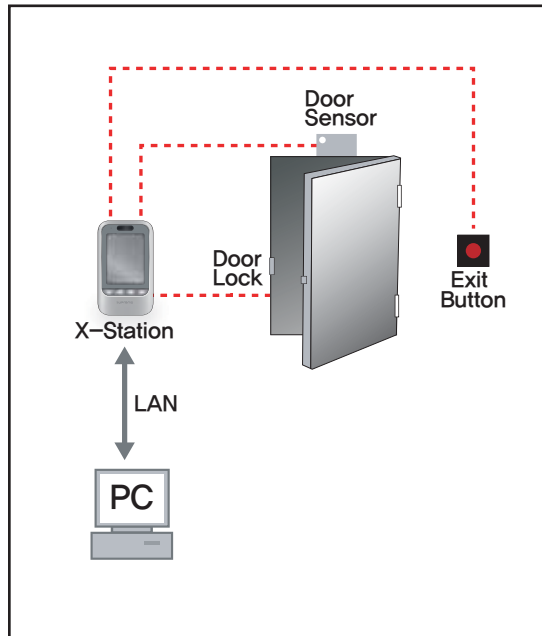
Wiegand Output (6 pin connector)



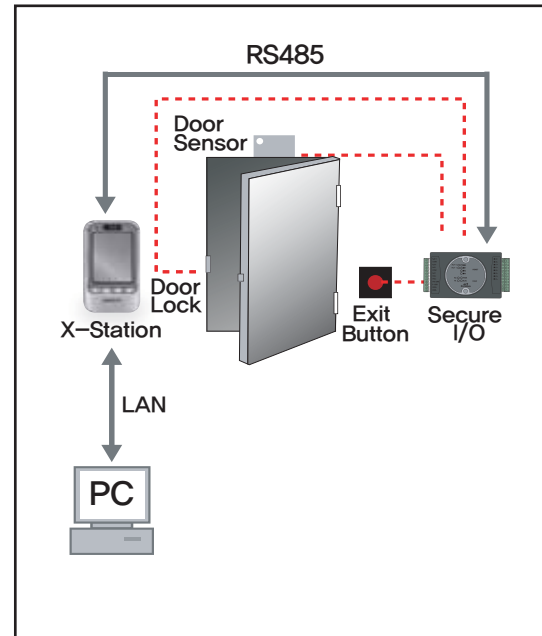
Note ■ You can configure the Wiegand Input and Output settings in the BioStar.

System Setup

Independent Version



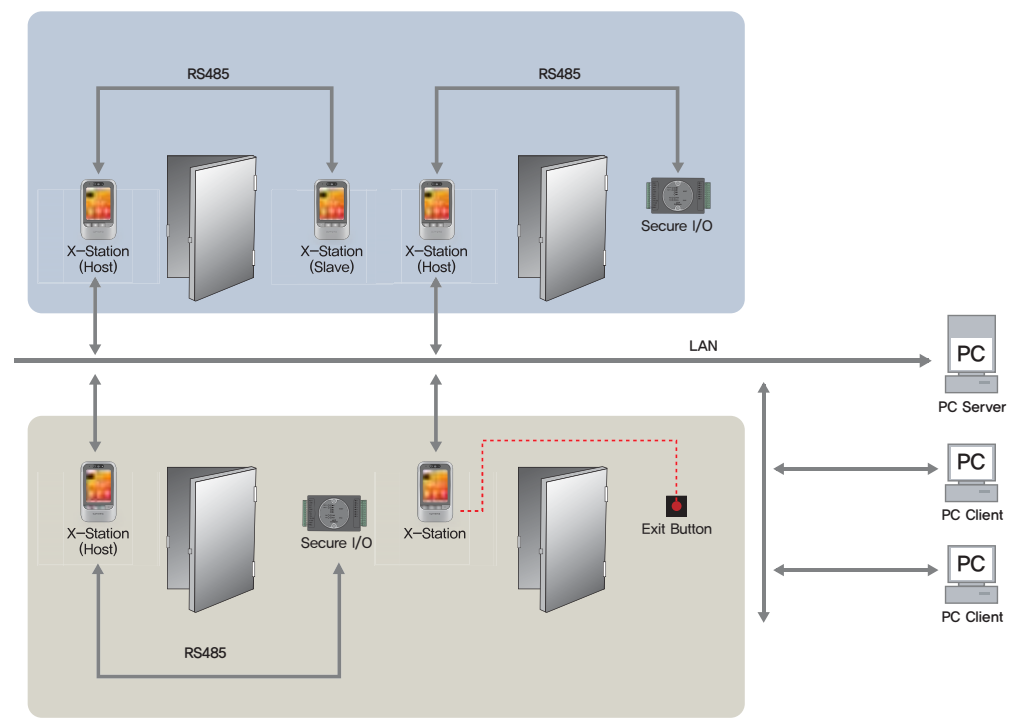
Secure Version (Secure I/O)



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Chapter 2
Product Installation

Network Setup



Chapter 3. User Functions

Access Authorization

Card Authorization

Card authorization is only operated in 'Card Only' authentication mode or registered 'Bypass' card.



Place the card to the terminal.



Authorization success screen will pop up on the screen.

Note

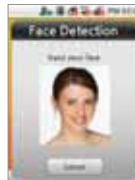
- The default screen will appear when authorization success.
 - If a user image is registered: The registered user image will be shown on screen.
 - If no user image is registered: The recorded image will be shown. Should the video log not be recording, the default image will be displayed on the authorization screen.

Use of Card+Face Detection

Face Detection is only operated when Face Detection mode is in 'Use'.



Place the card to the terminal.



Keep your face in front of device when the Face Detection mode is on.



Authorization success screen will pop up on the screen.

Note

- Face Detection Method
When the face detection mode is on, please fit your face in the frame.

Use of Card+Password Authorization

To use password authorization, use Auth Mode with the 'ID/Card+Password' setup.



Place the card to the terminal.



Enter the password and press [OK].



Authorization success screen will pop up on the screen.

Use of Card+Password+Face Detection Authorization



Place the card to the terminal.



Enter the password and press [OK].



Capture your face image when the Face Detection screen appears.



Authorization success screen will pop up on the screen.

Use of ID+Password Authorization

To use password authorization, use Auth Mode with the 'ID/Card+Password' setup.



Press [Input ID] on the main screen.



Enter your ID on the ID screen and then press [OK].



Enter your password and then press [OK].



Authorization success screen will pop up on the screen.

Use of ID+Password+Face Detection Authorization



Press [Input ID] on the main screen.



Enter your ID on the ID screen and then press [OK].



Enter your password and then press [OK].



Capture your face image when the Face Detection screen appears.



Authorization success screen will pop up on the screen.

Use of T&A Authorization

T&A Authorization in Auth Mode

Authorization only by card



Press F1 to F4 for T&A events.



Place the card to the terminal when the Card/ID input screen appears.



Authorization success screen will pop up on the screen. At the same time the T&A event is applied.

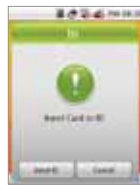
Note

- You can use Face Detection mode with T&A mode. When the Face Detection mode is activated, you have to successfully authorize card and face to enter.

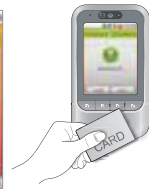
ID/Card+Password Authorization



Press F1 to F4 for each of the T&A events.



Place the card to the terminal.



Enter your password and then press [OK].

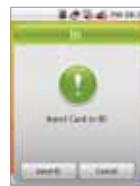


Authorization success screen will pop up on the screen. At the same time the T&A event is applied.

ID+Password Authorization



Press F1 to F4 for each of the T&A events.



Press [Input ID].



Enter your ID on the ID screen and then press [OK].



Enter your password and then press [OK].



Authorization success screen will pop up on the screen. At the same time the T&A event is applied.

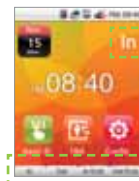
T&A Mode



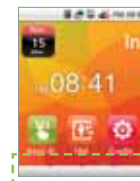
If you set up the T&A mode to [Manual], users must press the F1 to F4 key every time you enter or leave to record T&A events.



If you set up the T&A mode to [Auto], users do not have to select a T&A event. The device will automatically change T&A events to correspond with the functions specified for a time period. Users can select different T&A events by pressing the function key.



If you set up the T&A mode to [Manual Fix], the device will remain in the previous T&A events until a different T&A key is pressed.



If you set up the T&A mode to [Fixed], the device will perform only the specified T&A events. User is not able to select a different T&A key.
*User can change automatic time period and T&A event in the BioStar.



If you set the T&A mode to [Disabled], device is disable the T&A function and only operate access control function.

Extra T&A Events



Press [T&A] on the main screen to select extra T&A events.



Extra T&A events screen.

■ Basic T&A events (F1 ~ F4)

- In: Arrive at work,
- Out: Leave after work,
- In Duty: Return during work,
- Out Duty: Leave temporarily during work,
- * You can change the basic T&A events,

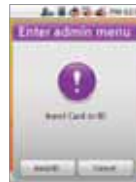
■ Extra T&A events

You can set the extra T&A events besides of basic T&A events, You can create up to 12 T&A events in the BioStar, Example) Arriving at work after offsite work /leaving work after offsite work /returning after offsite work/morning break/afternoon break,

Singular Entrance /T&A Records Check



Select [Config] on the main screen.



Place your card to the terminal and press [Input ID].



If the authorization was successful, you can check your access/T&A records.

Authorization Failure



Auth Mode setting does not match.



Authorization interval was invalid.



The number of authorizations was exceeded.



User is not in the authorization group.



The anti-passback is limited.



Unregistered user or the card data is not store on the card.



Input wrong password.

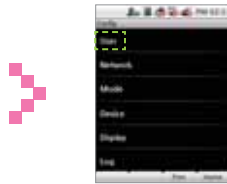
Chapter 4. Admin Menu

Registering an Admin

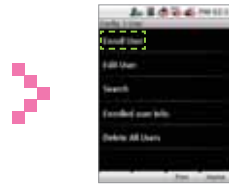
There is no registered user data in the new product. Please register the administrator immediately after the first installation. The Admin enables to add/delete user, and configure device setting.



Press [Config] on the main screen.



Select [User].



Select [Enroll User].



Check the [Admin] box if you want to enter an Admin.

Input Data

User ID



Enter the user ID. The user ID can be created numbers 1 to 4294967295.

Card ID



Place the card to the reader. The card ID will read and register the card data.

Name



Enter the name. (You can only use English characters)

Password



Enter a password.

Face



Touch the picture to enter personal data. The data will be used when authorization is successful. The picture can be saved with BioStar.

Registering an Admin (continued)



Note

- You have to enter either card or password to make a registration. The T&A button on the lower part of the screen has the same function as the F1~F4 keys. Instead of pressing [Prev]/[Home], you can also use F3/F4.

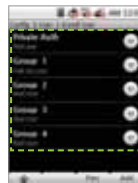


Warning

- Since anyone can use the Admin Menu if no Admin is registered, you must register an Admin first.



Set up a [Bypass Card] if you need one.



Set up a Private Auth and Access Group if you need them.



Press [Add] to finish the Admin registration.



Enroll success screen will pop up on the screen.



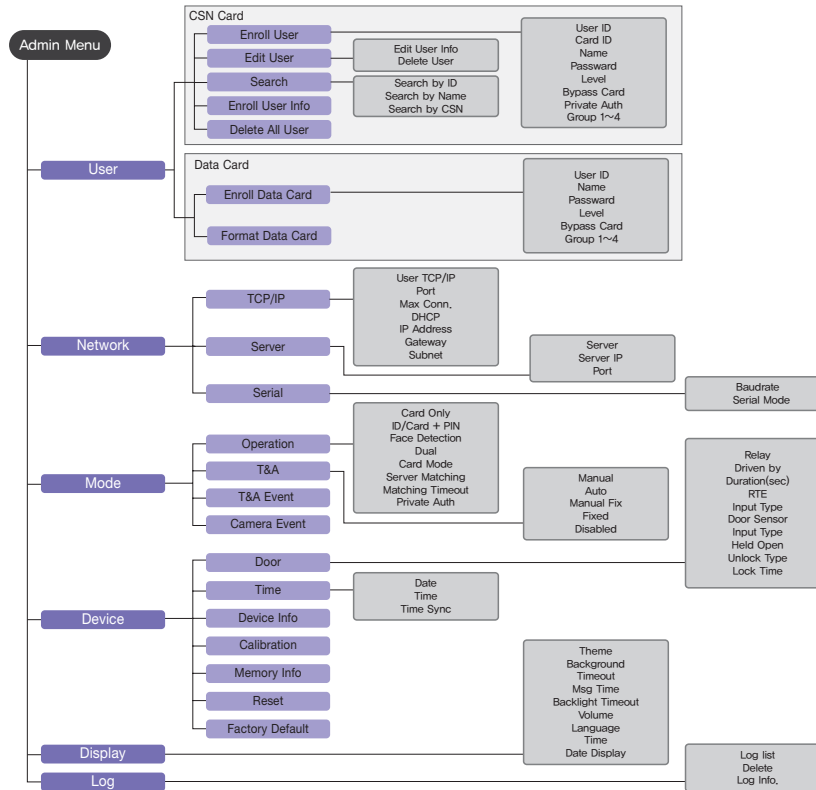
Note

- Users who are registered with a 'Bypass Card' will be authorized by bypass regardless of the Auth Mode. Users who are registered with the 'Private Auth mode' will have priority in the terminal's Auth mode and be authorized in Private Auth. The 'Access Group' determines whether a user can enter or not. You can select an Access Group within the BioStar software for the relevant terminal.

Entering the Admin Menu



Admin Menu Structure



User

Registering an User

Registration at the Terminal (when using a CSN Card)
If you use a CSN Card, select CSN Card under [Mode→Task→Card mode].



Press [Config] on the main screen.



Select [User].



Select [Enroll User].



Do not check the box [Admin] when registering a user.



Enter the user ID. The user ID can be created numbers 1 to 4294967295.



Place the card to the reader. The card ID will read and register the card data.



Enter the name. (You can only use English characters)



Record a face and press [OK]. The face will appear each time authorization was successful.

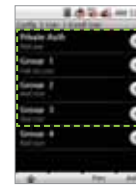
Registering an User (continued)



Enter the password.



Setup [Bypass Card] option, press [↓] in the bottom of the screen.



Setup [Private Auth] mode and [Access Group] ,press [Add] or F4.



Enroll success screen will pop up on the screen.

Note

- Users who are registered with a 'Bypass Card' will be authorized by bypass regardless of the Auth Mode. Users who are registered with the 'Private Auth mode' will have priority in the terminal's Auth mode and be authorized in Private Auth. The 'Access Group' determines whether a user can enter or not. You can select an Access Group within the BioStar software for the relevant terminal.

Edit User



Select [User].



Select [Edit User].



Select the user from the user list.



Press [Add] or F4 after changing the user data.



Enroll success screen will pop up on the screen.



Note

- If you check the right hand box in the user list and press [Delete], you can delete the selected user.

4

Chapter 4
Admin Menu

User Search

Search by User ID



Select [User].



Select [Search].



Select [Search by ID] and press [OK].



Enter the ID number and press [OK].



The corresponding ID search results will appear.

Search by Name



Select [User].



Select [Search].



Select [Search by Name] and press [OK].



Enter the name and press [OK].



The corresponding usernames starting with those letters will appear.

Searching by CSN Card



Select [User].



Select [Search].



Select [Search by CNS] and press [OK].



Place the CSN Card to the card reader.



The search results will be shown in the window.

Checking the Registered User Info



Select [User].



Select [Enrolled user Info].



Press [OK] to return to the previous screen.

Note You can register a maximum of 200,000 users. You can save up to 5,000 user images.

Deleting one user



Select [User].



Select [Search].



Enter the user ID to be deleted and press [OK].



Check the box next to the user to be deleted. Press [Delete] in the lower corner, or F4.



By pressing [OK] the selected user will be deleted.

Deleting several users



Select [User].



Select [Edit User].



Check the box next to the users to be deleted. Press [Delete] in the lower corner, or F4.

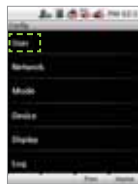


By pressing [OK] the selected users will be deleted.

Attention

- You cannot restore user data that is not stored in the BioStar database.

Delete All Users



Select [User].



Click [Delete All Users].



Press [OK] in the Delete window to erase all user data from the terminal.



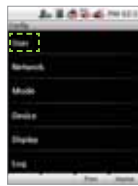
▪ You cannot restore user data that is not stored in the BioStar database.

Registering Data Card (When Using a Data Card)

If you use a Data Card, go to [Mode→Operation→Card Mode] and select Data Card.
If a Data Card is used, the user data will not be saved on the terminal and you need to manage the user data separately.



Press [Config] on the main screen.



Select [User].



Select [Enroll Data Card].



Enter the user data when the input screen appears.



Enter user ID.



Enter the name.
(You can only enter Latin letters.)



Enter the password.



Select [Admin] if necessary.

User Registration (continued)



Set up a [Bypass Card] and an Access Group if needed.



After entering all user data, press [Add].



Place the card to the reader.



Data card enroll success screen will pop up on the screen.



Note

- Users who are registered with a 'Bypass Card' will be authorized by bypass regardless of the Auth Mode.
The 'Access Group' determines whether a user can enter or not.
You can select an Access Group within the BioStar software for the relevant terminal.



Attention

- You cannot use CSN Card and Data Card at the same time.

Formatting Data Cards

All saved data on Data Cards will be deleted.



Select [User].



Select [Format Data Card].



Place the Data Card to the reader.



Format success screen will pop up on the screen.

Network Setup

TCP/IP Setup

Enable to setup TCP/IP for connecting the terminal and BioStar.



Select [TCP/IP].



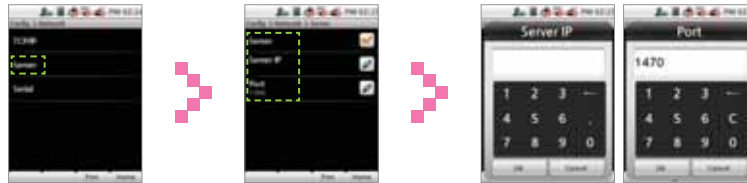
Enter port and IP Address, etc., press [↓] to move to the next screen. Press [Prev] or [Home] after finishing the setup and the changes will be activated.



- Use TCP/IP: Sets up the use of TCP/IP. If you use Ethernet with Zone, TCP/IP has to always have the setting 'USE'.
- Port: Assigns the terminal TCP/IP port. The default value is '1470'.
- Max Conn.: Sets the number of BioStar that can be connected to the terminal. (Set value: 1,4,6,8 and 16)
- DHCP: Sets whether or not to use DHCP protocol (Set values; Enabled / Disabled).
- IP Address: Enter the IP address when adopting a fixed IP instead of DHCP protocol. Ask your network administrator for the IP address. The default value is 127.0.0.1.
- Gateway: Enter the gateway address when adopting a fixed IP instead of DHCP protocol. Ask your network administrator for the address.
- Subnet: Enter the Subnet Mask address when adopting a fixed IP instead of DHCP protocol, Ask your network administrator for the address.

Server Setup

The terminal enables to communicate with BioStar server or SDK application server. Configure the IP address and ports of the server to connect to the terminal.



Select [Server].

Setup the use of server, IP, and port press [Prev] or [Home] to activate the settings.

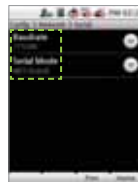
- Server: Set up the use of the server.
- Server IP: Enter the server IP.
- Port: Enter the server port.

Serial Communication Setup

Set the serial communication. The serial communication uses RS485 and can be connected with the PC or SIO.



Select [Serial].



Set up RS485-PC, and RS485-NET.



- RS485-PC: Set the network speed between the terminal and a PC in RS485 communication.
[Set values: 9600/19200/57600/115200]
- RS485-NET: Set the communication with Secure I/O and other terminals.
[Set value: Disabled, Net-Slave, Net-Host]
RS485 mode enables to communicate between a server terminal and up to 7 slave terminals.
 - Net-Host: Sets the terminal as host.
 - Net-Slave: Sets the terminal as slave.

Task Management

Mode



Select [Mode].



Press [Operation].



Set up Auth Mode, Face Detection, Card Mode, etc.



Attention



- If device setting is [Card Only] - [No Time] and [ID/Card+ password] - [No Time] at the same time, users can only authorize by Bypass Card.
(You cannot enter the Admin Menu with authorization with ID/Card.
→ You have to register a Bypass Card when registering user.

- Card Only: Users input only cards for authentication. In this mode, the card type must be select on the [Card Mode].
(Set values: Always/No Time)
- ID/Card+Password: Users input ID/Card and Password consecutively for authentication.
- Face Detection: Set the Face Detection mode. If it is activated, you have to successfully pass Face Detection after you enter your card or password to gain authorization. (Settings: Always/ No Time)
- Dual: Dual Authentication needs consecutive authentications from two different users within 15 seconds for high security. After 15 seconds, the first authorization will become invalid and you have to do both authorizations over again. (Settings: Always/ Never)

Mode (Continue)

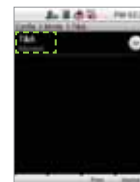
- Card Mode: Set the card type used on the terminal. (Settings: Use CSN/Use Data Card/Not Use)
- CSN Card: After the terminal reads the card's id number and saves it, every time the terminal compares the card id number successfully with the saved number, authorization will be granted.
 - Data Card: The user ID and other data will be saved on the card, and if the card is touched to the terminal, it will read the card's data.
- Server Matching: enable this setting to perform card ID matching at the BioStar server, instead of the device. When this mode is enabled, the devices will send the card ID to the server to verify a match. This mode is useful when you have more users than can be downloaded to a device or user's information cannot be distributed due to security concerns.
 - Matching timeout: Sets up the waiting time for Server Matching and Face Detection. (Settings: 5sec/10sec/15sec/20sec/30sec)In case there is no answer from the server during Matching Time or the face cannot be detected, the authorization will fail.
 - Individual Auth Mode: Sets up individual Auth Modes.

T&A Management

You can set up a T&A for the terminal.



Select [T&A].



Select [T&A].



Press [OK] after selecting a T&A mode.

Note ■ Refer to the detail T&A mode [Chapter 3.User Functions >2.T&A Authorization>T&A mode] for details. (page 33)

T&A event

You can check automatic time and activation for T&A events with F1~F4 or the T&A event button (EXT 01~12) through BioStar. T&A events can only be set up through BioStar. On the terminal, the events can only be checked.

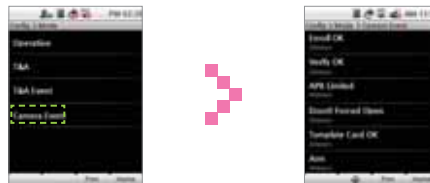


Select [T&A event].

Use [▼]/[▲] to check the settings on BioStar.

Camera Event

In case of a Camera Event, the camera will start recording when the event begins and then save the video log. You can only set up Camera Events through BioStar. On the terminal, the events can only be checked.



Select [Camera Event].

Here you can check the camera event.

Device

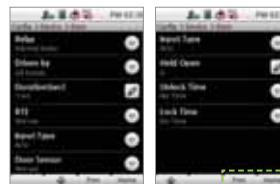
Door



Press [Device].



Press [Door].



Enter the settings.



- Relay: Select replay to open the door on authentication. (Settings: Not Use/Internal Relay/External Relay 0/External Relay 1/SI00 Relay0/SI00 Relay1/SI01 Relay0/SI01 Relay1/SI02 Relay0/SI02 Relay1/SI03 Relay0/SI03 Relay1)
- Driven by: select type of event that associated devices will activate the trigger to open the door (Settings: All events/Auth/T&A/Auth+T&A/T&A event/Disabled)
 - All events: associated devices will open the door on any successful authorization events.
 - Auth: associated devices will open the door only on successful credential authorization events.
 - T&A: associated devices will open the door only on successful T&A authorization events.



Door (Continue)

- Auth+T&A: associated devices will open the door on successful T&A or credential authorization events or T&A authorization event.
- Disabled: associated devices will not open the door, regardless of the attempted authorization events.
- Duration(sec): Sets up the time for which the relay keeps the door open after an event. The relay will close the door again after the time has elapsed.
- RTE: Sets up the input time for the door switch.
(Set values: Not Use/Input0/Input1/SIO0 Input0/ SIO0 Input1/ SIO0 Input2/ SIO0 Input3/ SIO1 Input0/ SIO1 Input1/ SIO1 Input2/ SIO1 Input3/ SIO2 Input0/ SIO2 Input1/ SIO2 Input2/ SIO2 Input3/ SIO3 Input0/ SIO3 Input1/ SIO3 Input2/ SIO3 Input3)
- Door Sensor: set the detection mechanism for door opening.
(Settings: Not Use/Input0/Input1/SIO0 Input0~3/ SIO1 Input0~3/ SIO2 Input0~3/ SIO3 Input0~3)
- Input Type: select the door open switch's operation mode. (Set values: N/O, N/C)
- Held Open: set the duration of time for the alarm to go off after the door opens.
- Unlock Time: set the time to keep the door forcibly locked. (Set values: Always/No time)
 - The unlock time can only be set up in BioStar. The unlock time for the terminal can be selected from the time frame set up by BioStar on the terminal.
- Lock Time: set the time to keep the door forcibly open. (Settings: Always/No time)
 - During lock time, only the Admin and no normal users can enter. The lock Time can only be set up in BioStar. The lock time for the terminal can be selected from a time frame set up by BioStar on the terminal.

Time Setup

You can set up the time that appears on the terminal. You have to set up the time to receive accurate log data.



Press [Device].



Press [Time].



Set up data, time, and time sync.



- Date: Enter the current date. Use { YYYYMMDD } (+)/(-) to enter the date.
- Time: Enter the current time. Use { hh:mm:ss } (+)/(-) to enter the time.
- Time Sync: You can use Time Sync in the server mode. The terminal's time will be synchronized with the server time. The time will be adjusted once every hour and only if the time difference between terminal and server more than 5 seconds.

Device Info



Press [Device].



Select [Device Info].



Check device ID, FW version, etc.

Memory Info



Press [Device].



Select [Memory Info].



Check the present status of the terminal's memory.

Calibration



Press [Device].



Select [Calibration].



Press the cross that appears on the screen. If the cross moves, follow it on the screen.



As soon as calibration is finished, the cross will disappear.



Calibration success screen will pop up on the screen.

Device Reset



Press [Device].



Select [Reset].



Press [OK] to restart the terminal.

Factory Default



Press [Device].



Press [↓] in the lower part of the display to move to the next screen.



Select [Factory Default].



Press [OK] to reset all settings to factory default value.



Warning

■ Please be aware that the factory default setting means that all wallpapers, sound effects, notices, etc. you have downloaded from BioStar will be deleted. However, even if you execute factory default the registered user data and log data will not be deleted.

Display & Sound



Click [Display].



Enter theme, volume, etc.



- Theme: Select a theme for the screen background.
(Selection: Theme 1/Theme 2/Theme 3)



Display (Continue)

- Background: Select a background for the standby screen.
(Selection: Logo/Notice/Slide Show)
- Timeout: If no key is pressed during the allotted timeframe, the display returns to main screen.
(Selection: 10sec/20sec/30sec/Infinite)
- Msg Time: Select how long the message will be displayed on the screen during authorization.
(Selection: 0.5 sec/1 sec/2sec/3sec/4sec/5sec)
- Backlight Timeout: If no key is pressed during the allotted timeframe, the LCD backlight will turn off.
(Selection: 10sec/20sec/30sec /40sec/50sec/60sec/Infinite)
- Volume: Select volume of the sound effects. 0% means that no sound will be emitted. (Selection: 0~100%)
- Language: Select the language displayed on the terminal. (Selection: Korean/English/Custom)
-You have to reboot the terminal to activate language changes.
- Time: Select whether the time and date will be displayed on the standby screen.
- Date Display: Select the date format.



Note

- If 'Notice' and 'Slide Show' are selected, either of these two will appear after authorizations are completed and the menu timeout time has passed. In the 'Notice' or 'Slide Show' status, the LCD backlight comes back on (should it be turned off) as soon as the screen is touched. If the LCD backlight is already on, the screen will change back to the logo screen.

Log Management

Checking the Log List

You can check the terminal's normal log and the video log records.

Checking the Normal Log



Click [Log].



Select [Log List].



Click on a saved log record. You can check a normal log by clicking on the log item.



Checking the Video Log




Click [Log].



Select [Log List].



Here you can see the saved log records. If you click on log items with , you can see the video log.



Delete All Logs



Click [Log].



Select [Delete].



If you click [OK], all saved logs will be deleted.



Delete success screen will pop up on the screen.

Check Log Info



Click [Log].



Select [Log Info].



Here you can check the logs that are presently saved on the terminal. Click [OK] to return to the previous screen.



Note

- Device enables to store up to maximum of 1,000,000 normal logs and 5,000 video logs.

Chapter 5. Appendix

Product Specifications

Item	Specifications	
Card Options	125Khz EM4100	
Capacity	Max. User	200,000
	Log Capacity	1,000,000
Interfaces	Communication Interfaces	TCP/IP RS485 x 2ch
	Wiegand	IN & OUT
	TTL I/O	2 inputs
	Built-in Relay	1
Hardware	CPU	667MHz RISC x 1
	Memory	1GB flash + 256MB RAM
	LCD Display	3.5" color touch screen
	Sound Indication	16-bit Hi-Fi sound
	Operating Temperature	-10°C ~ 50°C
	Humidity	90%
	Tamper	Switch
	Operating Voltage	12V DC
	Dimensions	79mm(W) x 135mm(H) x 21mm(D)

Electrical Specification

	Min. Value	Mean Value	Max. Value	Note
Power				
Voltage (V)	10.8	12	13.2	Use regulated DC power adaptor only.
Current (mA)	-		1500	
Switch Input				
VIH (V)	-	TBD	-	
VIL (V)	-	TBD		
Pull-up resistance [Ω]	-	4.7K	-	The input ports are pulled up with 4.7 K Ω resistors
Wiegand Output				
VOH (V)	-	5	-	
VOL (V)	-	0.8	-	
Pull-up resistance [Ω]	-	4.7K	-	
Relay				
Switching capacity (A)	-	-	2 0.3	30V DC 125V AC
Switching power (resistive)	-	-	30W 37.5VA	DC AC
Switching voltage (V)	-	-	220 250	DC AC

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 interference, and (2) this device must accept any interference 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, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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 different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.



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