AY-B9250BT Professional Fingerprint Reader

User Manual





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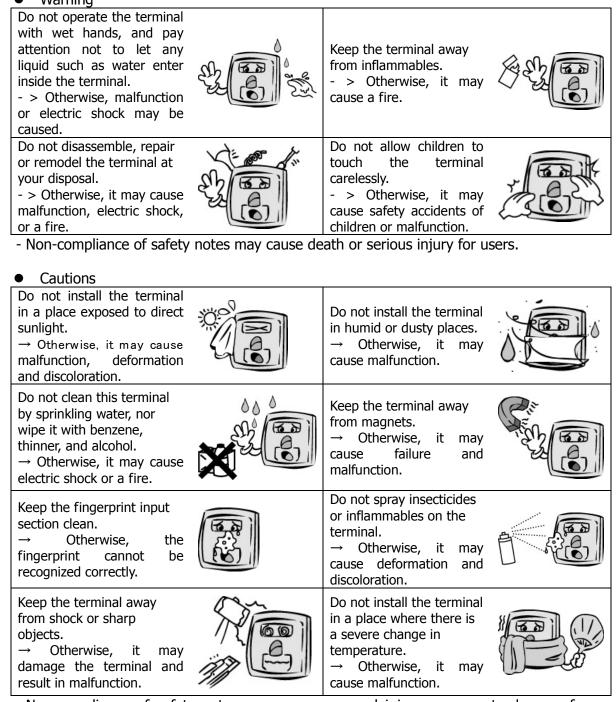




1. Before Getting Started

1.1. Safety Notes

Warning



- Non-compliance of safety notes may cause personal injury or property damage for users.

- * We are not responsible for any accidents and damage that may arise from noncompliance of the information in this manual.
- 1.2. Product Details



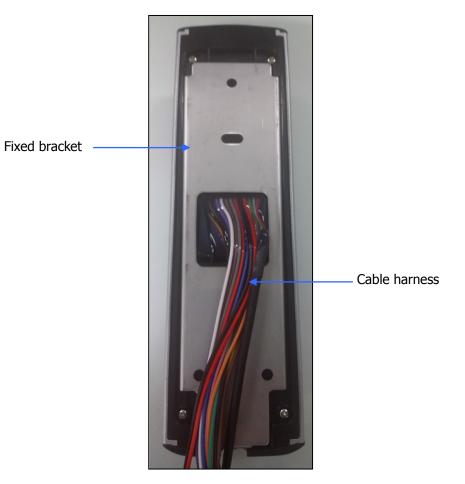


1.2.1. FRONT





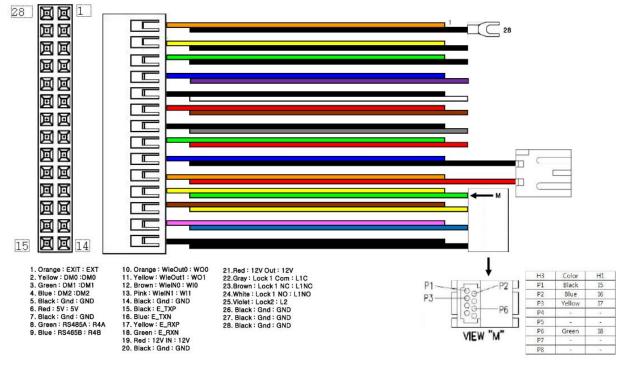
1.2.2. REAR





1.2.3. Input / Output

1.2.3.1. Cable & Connector



1.2.3.2. Pin Details

Pin number	Line color	Label	Explanation	IN/OUT	Note
1	ORANGE	(Line name) EXT	Incido onon	IN	Connect to Exit button
1	YELLOW		Inside open		
2	-	DM0	DoorMonitor0	IN	Sense door state(DM0)
3	GREEN	DM1	DoorMonitor1	IN	Sense door state(DM1)
4	BLUE	DM2	DoorMonitor2	IN	Sense door state(DM2)
5	BLACK	GND	GND	-	Ground connection(for
					door monitor)
6	RED	5V	DC5V	OUT	DC 5V output
7	BLACK	PGND	Power GND	-	Power supply ground
					connection
8	GREEN	R4A	RS485A	BI	RS-485 interface
9	BLUE	R4B	RS485B	BI	RS-485 interface
10	ORANGE	WO0	WIE_OUT0	OUT	Output WIGAND (WO0)
11	YELLOW	WO1	WIE_OUT1	OUT	Output WIGAND (WO1)
12	BROWN	WI0	WIE_IN0	IN	Input WIGAND (WI0)
13	PURPLE	WI1	WIE_IN1	IN	Input WIGAND (WI1)
14	BLACK	GND	GND	-	Ground connection
					(WIGAND signal)
15	RED	-	N_TXN	OUT	LAN I/F (LAN cable)
16	BLACK	-	N_TXP	OUT	LAN I/F (LAN cable)
17	GREEN	-	N_RXN	IN	LAN I/F (LAN cable)
18	WHITE	-	N_RXP	IN	LAN I/F (LAN cable)
19	RED	12V	DC12V	IN	DC 12V power supply
					input
20	BLACK	GND	Power GND	-	Power supply ground
					connection (Adapter)
21	RED	12V	DC12V	OUT	DC 12V put out power



22	GRAY	L1C	LOCK1_COM	OUT	Lock1 COM terminal
23	BROWN	L1NC	LOCK1_NC	OUT	Lock1 NC terminal
24	WHITE	L1NO	LOCK1_NO	OUT	Lock1 NO terminal
25	PURPLE	L2	LOCK2	OUT	Lock2 terminal
26	BLACK	GND	GND	-	Ground connection
					(Lock connecter)
27	BLACK	PGND	Power GND	-	Power supply ground
					connection (Lock
					power)
28	BLACK	PGND	Panel GND	-	Panel ground
					connection (Earth)

1.2.3.3. Terminal <- > MCP040 wiring

Category	T2 terminal (Line name)	MCP040
RS485A	R4A (green)	RDRA+
RS485B	R4B (blue)	RDRA-
ground connection	GND (black)	G

1.2.3.4. Terminal <- > LC015B wiring

Category	T2 terminal (Line name)	LC015B
RS485A	R4A (green)	485A
RS485B	R4B (blue)	485B
ground connection	GND (black)	GND
DOOR MONITOR		IN1 (If this pin is not used,
		connect to GND pin.)
INSIDE OPEN		INO
DC12V (LC015B separate power		DC12V IN
supply)		
ground connection (Power only		GND
for LC015B)		

But, door open time can be set with DIP SWITCH of LC015B (Maximum open time is 5 sec.)

1.2.3.5. Terminal <- > EM Type Door Lock wiring

Category	T2 terminal (Line name)	EM Door Lock
Lock	L1NC (Green)	+
GND	GND (Black)	-
Door Monitor	DM0 (Black)	NC(Normal Close)

1.2.3.6. Terminal <- > WIEGAND Device wiring

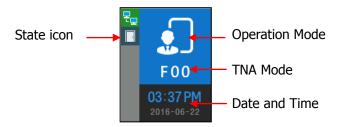
Category	T2 terminal (Line name)	WIEGAND Device
WIEGAND INPUT0	WIO	Wiegand output0
WIEGAND INPUT1	WI1	Wiegand output1
WIEGAND OUTPUT0	WO0	Wiegand input0
WIEGAND OUTPUT1	WO1	Wiegand input1
GND	GND	GND

1.3. Screen information during operation



1.3.1. Initial Screen

When powering on at first, the screen is displayed as follow.



1.3.2. Icons

	NONE	: No use network
Server connection	문끝	: LAN line is disconnected.
State	문	: LAN line is connected (only link is connected)
	₽ <mark>S</mark>	: Connected with server
		: Gate is closed.
Gate		: Gate is opened
State		: Gate is opened forcedly (unusual door open state)
	■ x	: Gate communication problem
Warning signal	NONE	: Normal
State	A	: Terminal Disassembly State
Fire detection	NONE	: Normal
State	8	: Sensed by fire detector (valid on DM2 fire set)
BLE connection	NONE	: Disconnected with Admin App
State	*	: Connected with Admin App
	NONE	: MCP040 is not used (Normal state)
MCP040 connection State	<u>∎≁</u> ₽	: MCP040 Mode and bad communication state
Sidle	┉╘	: MCP040 Mode and normal communication state
UDL connection	NONE	: UDL is not used (Normal state)
State	Ü	: UDL is connected

1.3.3. Function KEY

Icon	Meaning	Function Key	Explanation
\odot	UP	F1	Move cursor up
\odot	DOWN	F3	Move cursor down
\odot	LEFT	F2	Move cursor to left
	ESC	F2 long	Move to upper menu
(+)	RIGHT	F4	Move cursor to right
	ENTER	F4 long or	Move to submenu



		F4	
\odot	ENABLE DISABLE	F2	Category choice (ENABLE or DISABLE)

1.3.4. Main Screen

F 0 0 07:45 PM 2016-07-04	Operating in Exclusive mode Initial Screen
₽ ↓ ► ↓ ► 0 • 0	Operating in Network mode Initial Screen
 ₽ ₽	Operating in Dummy mode Initial Screen
€ ■ 04:22 PM 2016-06-09	Operating in lock mode (Reject all users authentication)
MENU 1.USER 2.NETWORK 3.OPTION 4.INT DEVICE 5.EXT DEVICE F1 ① ① F2 F3 ② ④ F4	Menu of Initial Screen
SUCCESS 0000	Authentication success
FAILURE MATCH ERR	Authentication failure

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CARD	Waiting for Card Input
FP INPUT FP	Waiting for Fingerprint Input
BLE BLE READY	Waiting for Admin App registration
FW UPDATE	Upgrading firmware

1.4. LED information during operation

LED	Operating state	Remark
RED	Normal	OFF
	Alarm	ON or Flash
	Authentication Failure	ON (Maintain during authentication time) \rightarrow OFF
GREEN	Normal	OFF
	LOCK OPEN	ON
	Authentication Success	ON (Maintain during authentication time) \rightarrow OFF
BLUE	Terminal Normal(alive)	Flash at intervals of 5 seconds
Function Key LED	Enter menu	Always ON
	Touch in initial screen.	ON(Maintain for 10 seconds) \rightarrow OFF

1.5. Voice information during operation

Category	Voice information
Fingerprint Input	Please enter your fingerprint.
Authentication success	You are authorized.
Authentication failure	Please try again.



Buzzer Sound	State	Explanation
Веер	Key touch Card tag Fingerprint touch	-Pressing key or reading card -When inputting fingerprint, input has been completed and hands can take off.
2 Beeps	Failure	If authentication fails or the user's input is wrong
Long Beep	Waiting for input	It shows the state for waiting user's input such as fingerprint or password.
Short Beeps	Success	Authentication success or setting completion

1.6. Buzzer guide announced during operation

- 1.7. How to register and enter the correct fingerprint
 - Correct fingerprint input method

Enter your fingerprint as if you take a thumbprint by using your forefinger if possible. The fingerprint cannot be correctly registered and entered only by your fingertips. The center of the fingerprint should be touched with the fingerprint input section.



- Enter the fingerprint of your forefinger if possible. When using your forefinger, you can enter your fingerprint correctly and safely.
- Make sure that the fingerprint is unclear or wounded. Too dry, wet, blurry or wounded fingerprints are difficult to recognize. In this case, the fingerprint of another finger should be registered.



- Precautions subject to your fingerprint state.
 The availability of the fingerprint may vary subject to your fingerprint state.
 - > This product consists of a fingerprint recognition system and cannot recognize the damaged or unclear fingerprints. The fingerprint should be registered using the RF card.





- If your hands are dry, you can blow your breath on the system to operate it more smoothly.
- For children, too small or unclear fingerprints may be difficult or impossible to use. They need to register a new fingerprint every six months.
- > For seniors, the fingerprint with too many lines may not be registered.
- > It is recommended that you register more than two fingerprints if possible.
- In order to increase the fingerprint authentication rate, it is recommended to use six of the ten fingers as illustrated below (both thumbs, forefingers, middle fingers).

2. Product Description

2.1. Product Features

- BLE is equipped. Door Control with smartphone is possible at close range.
- It is equipped with Color Camera, and it saves the visitor's video when authentication succeeds or fails.
- Optional, Available to use as RF(125kHz), Smart Card(13.56MHz), HID Reader
- Easy to verify your ID via fingerprint
 - The use of the fingerprint recognition technology (Biometrics) can prevent forgetting your password, losing your card or key, or avoid the risk of their theft. The use of personal fingerprints enhances the security of authentication.
- Access control system using the local area network (LAN)
 - The fingerprint reader communicates with the authentication server using a TCP/IP protocol. Therefore, this terminal can be applied to the existing LAN and has easy expandability. It ensures a fast speed by **10/100 Mbps Auto Detect** and facilitates management and monitoring via the network.

Fingerprint	Fingerprint registration Fingerprint authentication
Card	Card registration Card authentication
Card or Fingerprint	Card, Fingerprint registration Card or Fingerprint authentication
Card and Fingerprint	Card, Fingerprint registration Fingerprint authentication after Card authentication
Mobile card	Mobile Card registration (registration only via server and admin App) Mobile Card authentication

• Provide various registration and authentication method



2.2. Diagram

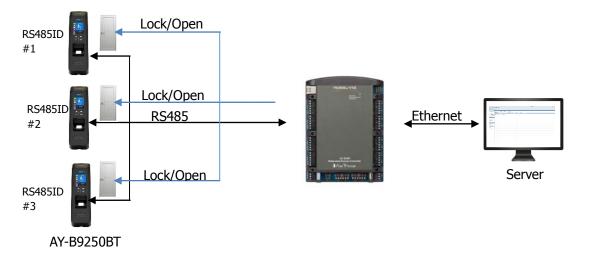
2.2.1. Single Type (Door Lock)



2.2.2. Single Type (Lock Controller)

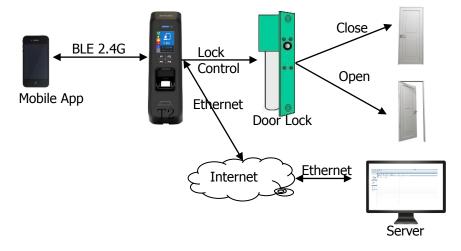


2.2.3. Dummy Type

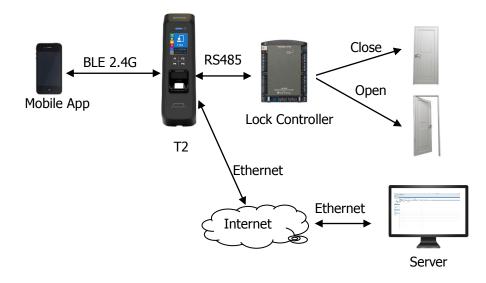




2.2.4. Network Type (Door Lock)



2.2.5. Network Type (Lock Controller)





2.3. Product Specification

Category	Spec
CPU	32Bit RISC CPU(400MHz)
MEMORY	64M DDR RAM, 32M NOR,128M NAND
Camera	VGA, F2.8, View angle 61 degree
LCD	1.77" Color LCD
Fingerprint Sensor	Optical / 500 DPI
Authentication Method	Fingerprint, RF Card, Mobile Card
Authentication Speed	1:N < within 1 sec. (based on 1,000 fingerprints)
Fingerprint capacity	20,000 Fingerprints, 10,000 users (Two identical fingerprints registration per user) Note) Similar fingerprint inspection is possible when the number of fingerprints is less than 200.
Log capacity	100,000 logs
Communication interface	TCP/IP, Wiegand In/Out (26/34bit),RS485
Lock	Deadbolt, EM Lock, Door Strike, Automatic Door
Temperature / Humidity -20~60 °C / < RH 90%	
Certification	KC, CE, FCC
Size	58mm(W) * 191mm(H) * 62mm(D)





3. Environment Setting

3.1. Checkpoints before Environment Setting

3.1.1. Menu

Press F4 long until the menu screen is displayed.



It is available to enter the menu without authentication because the manager doesn't register when shipping the product.

3.1.2. Administration authentication

When the administrator is registered, the admin authentication screen is displayed at first as follows.



Administrator authentication

Administrator authentication is progressed with fingerprint and card. You can access each menu if the authentication succeeds.

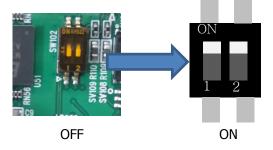
Admin authentication is displayed only if there is a registered user. Admin authentication displays only if admin is enrolled already. The admin authentication is needed only in accessing menu mode. It enables to access every menu until you completely escape from main menu.



3.1.3. How to access the menu without administrator authentication

This is the method to enter the Menu in exceptional cases such as losing your administrator card that is registered in the terminal or inability to make a fingerprint authentication because of absence of administrator.

- ① Power terminal OFF.
- ② Disassemble device and make case open state.
- ③ While case opens, make DIP of rear side switch ON state as follows.



- ④ Power terminal ON.
- (5) After the terminal completely booted, Press F1 longer to enter the menu with buzzer sound "Ppiririk".
- ★ Caution: You should return DIP SWITCH OFF after modification.
- 3.1.4. Save Settings
- ▶ If there are some changes, the following screen appears.



▶ If you select "YES", then save them with buzzer sound "Ppibibig" and reboot.

▶ If there are no changes, it returns to the previous menu screen.

▶ While changing the settings in the menu, if there is no input for 30 seconds, it returns to the previous menu.



3.1.5. Default Setting

Category	Default setting
MENU > NETWORK	USE
MENU > NETWORK > USE > AUTH MODE	TN
MENU > NETWORK > USE > TERMINAL ID	1
MENU > NETWORK > USE > TERMINAL >	STATIC
MENU > NETWORK > USE > TERMINAL > STATIC >	IP:192.168.0.3
	SN:255.255.255.0
	GW:192.168.0.1
MENU > NETWORK > USE > SERVER	IP:192.168.0.2
	PORT: 7332
MENU > OPTION > ATTEND > TYPE	F1~F4
MENU > OPTION > ATTEND > AUTO TNA	NO
MENU > OPTION > SCREEN > LANGUAGE	English
MENU > OPTION > SCREEN > SHOW ID	YES
MENU > OPTION > SCREEN > USER LOGO	NO
MENU > OPTION > SCREEN > USER ID LEN	4
MENU > OPTION > SCREEN > DATE > FORMAT	YYMMDD
MENU > OPTION > SAVE > LOG SAVE	Yes
MENU > OPTION > SAVE > IMAGE SAVE	No
MENU > OPTION > TIME OUT > RESULT	1sec
MENU > OPTION > TIME OUT > NET ERROR	30sec
MENU > OPTION > TIME OUT > PING	60sec
MENU > OPTION > LOCKING	NO USE
MENU > INT DEVICE > FP SENSOR > 1:1 LEVEL	5
MENU > INT DEVICE > FP SENSOR > 1:N LEVEL	8
MENU > INT DEVICE > FP SENSOR > LFD LEVEL	NONE
MENU > INT DEVICE > FP SENSOR > AUTH TIME	5sec
MENU > INT DEVICE > BEEP	3
MENU > INT DEVICE > VOICE	3
MENU > INT DEVICE > TAMPER	Alarm
MENU > EXT DEVICE > DOORLOCK > LOCK1 > TYPE	STRIKE/OK
MENU > EXT DEVICE > DOORLOCK > LOCK1 > OPEN	3sec
TIME	
MENU > EXT DEVICE > DOORLOCK > LOCK2 > TYPE	None
MENU > EXT DEVICE > DOORLOCK > LOCK2 > OPEN	3sec
TIME	
MENU > EXT DEVICE > DOORLOCK > OPEN ALARM	5sec
MENU > EXT DEVICE > DOORLOCK > DM0	NONE
MENU > EXT DEVICE > DOORLOCK > DM1	NONE
MENU > EXT DEVICE > DOORLOCK > DM2	NONE
MENU > EXT DEVICE > RS485 > TYPE	NONE
MENU > EXT DEVICE > RS485 > DEV ID	0
MENU > EXT DEVICE > WIEGAND > WIRE-INPUT	NONE
MENU > EXT DEVICE > WIEGAND > WIRE-OUTPUT	NONE
MENU > EXT DEVICE > WIEGAND > WIRE-OUTPUT>	0
26 BIT or 34 BIT > SITE CODE	
MENU > EXT DEVICE > WIEGAND > WIRE-OUTPUT>	UID
26 BIT or 34 BIT > SITE CODE > SEND INFO	
MENU > EXT DEVICE > DOORLOCK > OPEN ALARM MENU > EXT DEVICE > DOORLOCK > DM0 MENU > EXT DEVICE > DOORLOCK > DM1 MENU > EXT DEVICE > DOORLOCK > DM2 MENU > EXT DEVICE > RS485 > TYPE MENU > EXT DEVICE > RS485 > DEV ID MENU > EXT DEVICE > WIEGAND > WIRE-INPUT MENU > EXT DEVICE > WIEGAND > WIRE-OUTPUT MENU > EXT DEVICE > WIEGAND > WIRE-OUTPUT> 26 BIT or 34 BIT > SITE CODE MENU > EXT DEVICE > WIEGAND > WIRE-OUTPUT>	NONE NONE NONE 0 NONE NONE 0



3.1.6. Setting guide for Network Configuration

3.1.6.1. Single Type (Door Lock=STRIKE)

Menu position	Possible setting
MENU>NETWORK>	NO USE
MENU>EXT DEVICE>DOORLOCK>LOCK1>TYPE	STRIKE/OK
MENU>EXT DEVICE>DOORLOCK>DM0	N/O or N/C
MENU>EXT DEVICE>DOORLOCK>LOCK2>TYPE	NONE
MENU>EXT DEVICE>DOORLOCK>DM1	NONE
MENU>EXT DEVICE>DOORLOCK>DM2	NONE
MENU>EXT DEVICE>RS485>TYPE	NONE

3.1.6.2. Single Type (Door Lock=MOTOR)

Menu position	Possible setting
MENU>NETWORK>	NO USE
MENU>EXT DEVICE>DOORLOCK>LOCK1>TYPE	MOTOR1
MENU>EXT DEVICE>DOORLOCK>DM0	N/O or N/C
MENU>EXT DEVICE>DOORLOCK>LOCK2>TYPE	MOTOR2
MENU>EXT DEVICE>DOORLOCK>DM1	N/O or N/C
MENU>EXT DEVICE>DOORLOCK>DM2	NONE
MENU>EXT DEVICE>RS485>TYPE	NONE

3.1.6.3. Single Type (Lock Controller=LC010)

Menu position	Possible setting
MENU>NETWORK>	NO USE
MENU>EXT DEVICE>DOORLOCK>LOCK1>TYPE	NONE
MENU>EXT DEVICE>DOORLOCK>DM0	NONE
MENU>EXT DEVICE>DOORLOCK>LOCK2>TYPE	NONE
MENU>EXT DEVICE>DOORLOCK>DM1	NONE
MENU>EXT DEVICE>DOORLOCK>DM2	NONE
MENU>EXT DEVICE>RS485>TYPE	LC010
MENU>EXT DEVICE>RS485>DEV ID	0

3.1.6.4. Single Type (Lock Controller=LC015)

Menu Position	Possible setting
MENU>NETWORK>	NO USE
MENU>EXT DEVICE>DOORLOCK>LOCK1>TYPE	NONE
MENU>EXT DEVICE>DOORLOCK>DM0	NONE
MENU>EXT DEVICE>DOORLOCK>LOCK2>TYPE	NONE
MENU>EXT DEVICE>DOORLOCK>DM1	NONE
MENU>EXT DEVICE>DOORLOCK>DM2	NONE
MENU>EXT DEVICE>RS485>TYPE	LC015
MENU>EXT DEVICE>RS485>DEV ID	0

3.1.6.5. Dummy Type (RS485=MCP040)

Menu Position	Possible setting		
MENU>NETWORK>	N/A		
ROSSLARE			
SECL	JRITY PRODUCTS		

	(Use : When only downloading DB)
MENU>EXT DEVICE>DOORLOCK>LOCK1>TYPE	NONE
MENU>EXT DEVICE>DOORLOCK>DM0	NONE
MENU>EXT DEVICE>DOORLOCK>LOCK2>TYPE	NONE
MENU>EXT DEVICE>DOORLOCK>DM1	NONE
MENU>EXT DEVICE>DOORLOCK>DM2	NONE
MENU>EXT DEVICE>RS485>TYPE	MCP040
MENU>EXT DEVICE>RS485>DEV ID	Use in 1~7

3.1.6.6. Network Type (Door Lock=STRIKE)

Menu Position	Possible setting
MENU>NETWORK>	USE
MENU>NETWORK>USE>AUTH MODE	TN
MENU>NETWORK>USE>TERMINAL ID	0001
MENU>NETWORK>USE>TERMINAL>STATIC	IP:192.168.0.3
	SN:255.255.255.0
	GW:192.168.0.1
MENU>NETWORK>USE>SERVER	IP:192.168.0.2
	PORT:7332
MENU>EXT DEVICE>DOORLOCK>LOCK1>TYPE	STRIKE/OK
MENU>EXT DEVICE>DOORLOCK>DM0	N/O or N/C
MENU>EXT DEVICE>DOORLOCK>LOCK2>TYPE	NONE
MENU>EXT DEVICE>DOORLOCK>DM1	NONE
MENU>EXT DEVICE>DOORLOCK>DM2	NONE
MENU>EXT DEVICE>RS485>TYPE	NONE

3.1.6.7. Network Type (Door Lock=MOTOR)

Menu Position	Possible setting
MENU>NETWORK>	USE
MENU>NETWORK>USE>AUTH MODE	TN
MENU>NETWORK>USE>TERMINAL ID	0001
MENU>NETWORK>USE>TERMINAL>STATIC	IP:192.168.0.3
	SN:255.255.255.0
	GW:192.168.0.1
MENU>NETWORK>USE>SERVER	IP:192.168.0.2
	PORT:7332
MENU>EXT DEVICE>DOORLOCK>LOCK1>TYPE	MOTOR1
MENU>EXT DEVICE>DOORLOCK>DM0	N/O or N/C
MENU>EXT DEVICE>DOORLOCK>LOCK2>TYPE	MOTOR2
MENU>EXT DEVICE>DOORLOCK>DM1	N/O or N/C
MENU>EXT DEVICE>DOORLOCK>DM2	NONE
MENU>EXT DEVICE>RS485>TYPE	NONE
3.1.6.8. Network Type (Lock Controller=LC010)	

Menu Position	Possible setting
MENU>NETWORK>	Use
MENU>NETWORK>USE>AUTH MODE	TN
MENU>NETWORK>USE>TERMINAL ID	0001
MENU>NETWORK>USE>TERMINAL>STATIC	IP:192.168.0.3
	SN:255.255.255.0



	GW:192.168.0.1
MENU>NETWORK>USE>SERVER	IP:192.168.0.2
	PORT:7332
MENU>EXT DEVICE>DOORLOCK>LOCK1>TYPE	NONE
MENU>EXT DEVICE>DOORLOCK>DM0	NONE
MENU>EXT DEVICE>DOORLOCK>LOCK2>TYPE	NONE
MENU>EXT DEVICE>DOORLOCK>DM1	NONE
MENU>EXT DEVICE>DOORLOCK>DM2	NONE
MENU>EXT DEVICE>RS485>TYPE	LC010
MENU>EXT DEVICE>RS485>DEV ID	0

3.1.6.9. Network Type (Lock Controller=LC015)

Menu Position	Possible setting
MENU>NETWORK>	USE
MENU>NETWORK>USE>AUTH MODE	TN
MENU>NETWORK>USE>TERMINAL ID	0001
MENU>NETWORK>USE>TERMINAL>STATIC	IP:192.168.0.3
	SN:255.255.255.0
	GW:192.168.0.1
MENU>NETWORK>USE>SERVER	IP:192.168.0.2
	PORT:7332
MENU>EXT DEVICE>DOORLOCK>LOCK1>TYPE	NONE
MENU>EXT DEVICE>DOORLOCK>DM0	NONE
MENU>EXT DEVICE>DOORLOCK>LOCK2>TYPE	NONE
MENU>EXT DEVICE>DOORLOCK>DM1	NONE
MENU>EXT DEVICE>DOORLOCK>DM2	NONE
MENU>EXT DEVICE>RS485>TYPE	LC015
MENU>EXT DEVICE>RS485>DEV ID	0

3.2. Access and Registration between Rosslare Bio9000 and terminal

3.2.1. Install Rosslare Bio9000

When shipping the product, it comes with a CD to install Rosslare Bio9000 on your PC. For installation guide, please refer to the relevant document.

3.2.2. Execute Rosslare Bio9000

If executing the program, login screen is displayed. Enter User ID that is previously registered and password and then press **OK**.





If login is successful, the screen is displayed as follows.

RosslareBio9000 File View Window Terminal S	etting Tool Help						
ROSSLARE	carring root rep						
BI® 9000							
Information Management	뇌 Terminal						
 User Management Group Management 	👸 Enroll Terminal 🔝 Terminal	Information 📰 Authenticati	on List 🛛 Delete '	Ferminal 🔝 Termina	l Search	ea. : 0 Normal : 0	
Terminal Management	Terminal ID 🛆 Terminal Name	Status	IP Address	Description	Entry zone	Exit zone	
 Access Management Auth-Log Management 							
System-Log Management							
Privilege Management							
Setting							
Option Setting							
Timezone Setting							

3.2.3. Set in terminal

In order to connect the terminal to the server, set to the network mode and set the information.

Move to **MENU** > **NETWORK** > **USE** > **TERMINAL** and check whether lower information is correct or not. If you have not changed the device network information, it is displayed as follows.





In order to access the server

Move to **MENU** > **NETWORK** > **USE** > **SERVER** and check the lower information correctly sets or not. If you do not change the server network information, it is displayed as follows.



3.2.4. LAN connection in terminal

At first, you can see the unregistered state because the terminal is not registered.

AccessManager								_	>
ile View Window	Terminal Settin	ng Tool Help)						
AccessManager Pro	ofessional								
-									
Information Mana	Termir 🖌	nal							
User Management	🔁 Erroll Torr	ninal 💷 Termina	Unformation 💌 Auth	entication List 🛛 🖂 Dele	to Terminal 🕅 Ter	minal Caarob	ea. : 1		
Group Management	Chioirren					nina search	ea I		
Terminal Management		Terminal Name	Status	IP Address	Description	Entry zone	Exit zone		
Access Management	• <mark>@</mark> 1		Not Enrolled	192.168.0.3		Init value	Init value		
Auth-Log Management									
System-Log Management									
Privilege Management									
TNA Management									
Schedule Setup									
Schedule Management									
Schedule Search									
Result Search									
Result Process									
Meal-Service Ma									
Meal-Service Setting									
Meal-Service Inquiry									
Meal-Service Processing									
Setting									
Dption Setting									
Timezone Setting									

3.2.5. Register the terminal in Rosslare Bio9000

Select the unregistered terminal and press **Registration** button to activate the screen below. Enter device name and explanation to press OK.



Enroll Terminal	×
Please enroll ter	minal information
Basic Information -	a at
Terminal ID (1 ~ 2000)	1
Terminal Name	72
Description	
	OK <u>C</u> ancel

If the registration is successful, the screen is displayed as follow.

accessManager								-	×
File View Window	Terminal Sett	ting Tool He	p						
AccessManager Pr	ofessional								
Information Mana	∐ Term	inal							
User Management	_								
Group Management	👸 Enroll Te	erminal 🔝 Termin	al Information 🔝 Au	ithentication List 🛛 🔀 Dele	te Terminal 🔝 Ter	minal Search	ea. : 1		
Terminal Management	Terminal ID	△ Terminal Name	Status	IP Address	Description	Entry zone	Exit zone		
Access Management	1	T2	Normal	192.168.0.3		Init value	Init value		
Auth-Log Management									
System-Log Management									
Privilege Management									
TNA Management									
Schedule Setup									
Schedule Management									
Schedule Search									
Result Search									
Result Process									
Meal-Service Ma									
Meal-Service Setting	_								
Meal-Service Inquiry									
Meal-Service Processing									
Setting									
Option Setting									
Timezone Setting									

For more details about Rosslare Bio9000 operation, please refer to the guide document.



3.3. Menu Configuration

The whole menu is composed of seven, and main characteristics are as follows.

	ME	NU		MENU				
1.U	SER			6.S	ΤΑΤΙ	JS		
2.N	ETW	ORK		7. R	7.RECOVERY			
3.0	PTIC)N						
4.IN	JT D	EVIC	CE					
5.E)	KT D	EVI	CE					
F1	٢	٩	F2	F1	\odot	Ð	F2	
F3	\odot	Φ	F4	F3	\odot	9	F4	

Menu	Submenu1	Submenu2	Submenu3
USER	ADD	USER	USER
			ADMIN
		INPUT ID	
		*Authentication Type	
		Card	
		FP	
		MCARD	
		*Authentication Condition	
		OR	
		AND	
		× MCARD is OR condition only.	
		× MCARD is not admitted to set up,	
		state check only.	
		Password	
	AUTO ADD	FP	UID > FP1 > FP2 > OK
		Card	UID > Card > OK
	MODIFY	INPUT ID	
		*Authentication Type	
		Card	
		FP	
		MCARD *Authentication Condition	
		OR	
		AND	
		* MCARD is OR condition only.	
		× MCARD is not admitted to set up,	
		state check only.	
		FP registration	
		(When checking authentication mode)	
		Card registration	
		(When checking authentication mode)	
	DELETE	Delete ID	
	DELETE ALL		
NETWORK	NO USE	Operate in single mode	· · · ·
	USE	AUTH MODE	Server/Terminal
			Terminal/Server
			Server Terminal
L			i ci i i i i i ai

ROSSLARE SECURITY PRODUCTS

		TERMINAL ID	CTATIC	TERMINAL ID
		STATIC	STATIC	IP
		DHCP		Subnet mask
				Gateway
			DHCP	
		SERVER		SERVER
				Port No
OPTION	ATTEND	TYPE		NONE
				M1 F1~F2
				M2 F1~F4
				M3 F1~F49
		AUTO TNA		NO YES
	SCREEN	LANGUAGE		
		ENGLISH(0)		
		KOREAN(1)	2)	
		INDONESIAN(
		MULTILINGUA	L(3)	
		ARABIC(4)		
		SPANISH(5)		
		PORTUGUESE	(6)	
		FRENCH(7)		
		RUSSIAN(8)		
		FARSI(9)		
		JAPANESE(10)		
		CHINESE(11)		
		SHOW ID		NO
				YES
		USER LOGO		NO USE
				USE 416
		USER ID LEN		4~16
	SAVE	LOG SAVE		NO YES
		IMAGE SAVE		NO
				YES
	TIMEOUT	RESULT		
		NET ERROR		
		PING		
	Date	FORM		YYMMDD
				DDMMYY
				MMDDYY
		SETTING		YYYYMMDD-hhmmss
INT	FP SENSOR	1:1 LEVEL (1~	·9)	
DEVICE		1:N LEVEL (5^		
		LFD LEVEL	1	NONE
				LOW
				MIDDLE
				HIGH
L				

		AUTH TIME	
	BEEP	0~3	
	VOICE	0~5	
	BLE	BLE READY	
	TAMPER	NO ALARM	
		ALARM	
EXT DEVICE	DOOR LOCK	LOCK1	*TYPE Not Use Strike/OK Indication Motor1
		LOCK2	Schedule alarm *OPEN TIME 3[1~20sec] * TYPE
			NONE Fail Indication Motor2 Schedule alarm * OPEN TIME 3[1~20sec]
		OPEN ALARM TIME	5[0~20sec] 0: No Alarm 1~20: Alarm
		DM0	NONE Lock Normal Open Lock Normal Close
		DM1	NONE Lock Normal Open Lock Normal Close
		DM2	Not use Normal Open Normal Close Fire Normal Open Fire Normal Close Panic Normal Open Panic Normal Close Urgent Norm Open Urgent Normal Close
	RS485	TYPE DEV ID: 0~255	NONE LC010 LC015 SR100 MCP040
	WIEGAND	WIRE-INPUT	*TYPE NONE WIE26BIT WIE34BIT CUSTOM



STATE DB INFO USER CNT: USER MAX: ADMIN: FP CNT: FP MAX: CARD *SiteCode STATE DB INFO USER CNT: USER MAX: ADMIN: FP CNT: FP MAX: CARD CVT: CARD MAX: M.CD CVT: LOG MAX: NET VPE: STATIC ENCRYPT: DES CIP/SN/GW				1
VIE26BIT WIE34BIT CUSTOM *SiteCode *SiteCode *More Information UID CARD STATE DB INFO USER CNT: USER MAX: ADMIN: FP CNT: FP MAX: CARD CNT: LOG CNT: LOG CNT: LOG CNT: LOG CNT: LOG CNT: LOG MAX:			WIRE-OUTPUT	*TYPE
STATE DB INFO USER CNT: USER MAX: ADMIN: FP CNT: FP MAX: CARD CNT: CARD MAX: M.CD CNT: LOG MAX: USER MAX: ADMIN: FP CNT: FP MAX: CARD CNT: LOG CNT: LOG MAX: NET TYPE: STATIC ENCRYPT: DES CIP/SN/GW XOX.XXX.XXX XXXX Image: Comparison of the state of the st				NONE
STATE DB INFO USER CNT: USER MAX: ADMIN: FP CNT: FP MAX: CARD CNT: CARD MAX: M.CD CNT: LOG MAX: USER MAX: ADMIN: FP CNT: FP MAX: CARD CNT: LOG CNT: LOG MAX: NET TYPE: STATIC ENCRYPT: DES CIP/SN/GW XOX.XXX.XXX XXXX Image: Comparison of the state of the st				WIE26BIT
STATE DB INFO USER CNT: USER MAX: ADMIN: FP CNT: FP MAX: CARD CNT: CARD CNT: LOG CNT: LOG CNT: LOG MAX: Image: Comparison of the compari				
STATE DB INFO USER CNT: USER MAX: ADMIN: PF CNT: PF MAX: CARD CNT: LOG CNT: LOG CNT: LOG CNT: LOG CNT: LOG CNT: LOG CNT: LOG CNT: LOG CNT: LOG MAX: Image: Comparison of the				
STATE DB INFO USER CNT: USER MAX: AOMIN: FP CNT: FP MAX: CARD MAX: M.CD CNT: LOG CNT: LOG CNT: LOG CNT: LOG MAX: Image: Comparison of the comparison of th				031014
STATE DB INFO USER CNT: USER MAX: ADMINI: FP CNT: FP MAX: CARD CNT: CARD MAX: M.CD CNT: LOG CNT: LOG CNT: LOG CNT: LOG CNT: TD: xxxx Image: Comparison of the comparison of				*SiteCode
STATE DB INFO USER CNT: USER MAX: ADMINI: FP CNT: FP MAX: CARD CNT: CARD MAX: M.CD CNT: LOG CNT: LOG CNT: LOG CNT: LOG CNT: TD: xxxx Image: Comparison of the comparison of				*Mara Information
STATEDB INFOUSER CNT: USER MAX: ADMIN: FP CNT: CARD MAX: CARD CNT: CARD MAX: CARD CNT: LOG CNT: LOG CNT: LOG CNT: LOG CNT: LOG CNT: LOG CNT: CARD MAX: NET: YES, MODE:TN NET TYPE: STATIC ENCRYPT: DES CIP/SN/GW XXX.XXX.XXX XXX.XXX.XXX XXX.XXX.XXX XXX.XXX.XXX XXX.XXX.XXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXXX XXXXXXXXXXXXX XXXXXXXXXXXXX XXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				
STATE DB INFO USER CNT: USER MAX: ADMIN: FP CNT: FP MAX: CARD CNT: LOG CNT: LOG CNT: LOG CNT: LOG CNT: LOG MAX: NETWORK TID: xxxx NET YES, MODE:TN NET YPE: STATIC ENCRYPT: DES CIP/SN/GW XXX.XXX.XXX XXXXXXXXXX XXXXXXXX				
USER MAX: ADMIN: FP CNT: FP MAX: CARD CNT: CARD MAX: M.CD CNT: LOG CNT: LOG CNT: LOG MAX:NETWORKTID: xxxx NET: YES, MODE:TN NET TYPE: STATIC ENCRYPT: DES CIP/SN/GW XXX.XXX.XXX XXX.XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				CARD
ADMIN: FP CNT: FP MAX: CARD CNT: CARD MAX: M.CD CNT: LOG MAX:NETWORKNETWORKNETWORKNET YES, MODE:TN NET TYPE: STATIC ENCRYPT: DES CLP/SN/GW XXX.XXX.XXX XXX.XXX.XXX XXX.XXX.XXX XXX.XXX.XXX XXX.XXX.XXX XXX.XXX.XXX XXX.XXX.XXX XXX.XXX.XXX XXX.XXX.XXX XXX.XXX.XXX XXXXXXXXXX XXXXXXXXXXX XXXXXXXXXXX XXXXXXXXXX XXXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXXX XXXXXXXXXXX XXXXXXXXXXX XXXXXXXXXXX XXXXXXXXXXX XXXXXXXXXXX XXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXX XXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	STATE	DB INFO		
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CARD MAX: M.CD CNT: LOG CNT: LOG MAX: NETWORK TID: xxxx NET: YES, MODE:TN NET TYPE: STATIC ENCRYPT: DES CIP/SN/GW xxx.xxx.xxx xxx.xxx.xxx xxx.xxx.xxx XXX.XXX.XXX XXX.XXX.XXX MAC: xx: xx: xx: xx SIP/PORT xxx.XXX.XXX XXX XXXX XXX XXX XXX XXX XXX XXX XXX XXX XXX LANGUAGE: English SHOW ID: YES LOGO USE: NO UID LEN:4 DATE: YYMMDD LOG SAVE: YES </td <td></td> <td></td> <td>FP MAX:</td> <td></td>			FP MAX:	
CARD MAX: M.CD CNT: LOG CNT: LOG MAX: NETWORK TID: xxxx NET: YES, MODE:TN NET TYPE: STATIC ENCRYPT: DES CIP/SN/GW xxx.xxx.xxx xxx.xxx.xxx xxx.xxx.xxx XXX.XXX.XXX XXX.XXX.XXX MAC: xx: xx: xx: xx SIP/PORT xxx.XXX.XXX XXX XXXX XXX XXX XXX XXX XXX XXX XXX XXX XXX LANGUAGE: English SHOW ID: YES LOGO USE: NO UID LEN:4 DATE: YYMMDD LOG SAVE: YES </td <td></td> <td></td> <td>CARD CNT:</td> <td></td>			CARD CNT:	
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LOG CNT: LOG MAX: NETWORK TID: xxxx NET YES, MODE:TN NET TYPE: STATIC ENCRYPT: DES CIP/SN/GW xxx.xxx.xxx XXXX XXX XXX			-	
LOG MAX:NETWORKTID: xxxxNET: YES, MODE:TN NET TYPE: STATIC ENCRYPT: DES CIP/SN/GW XXX.XXX.XXXXXX.XXX.XXXXXX.XXX.XXXXXX.XXX.XXXXXX.XXX.XXXXXX.XXX.XXXXXX.XXX.XXXMAC: XX: XX: XX: XX: XX: XXSIP/PORT XXX.XXX.XXXXXX.XXX.XXXXXX.XXX.XXXMAC: XX: XX: XX: XX: XX: XXSIP/PORT XXX.XXX.XXXXXXXXXMAC: XX: XX: XX: XX: XXSIP/PORT XX: XXX.XXXXXXXXXMAC: XX: XX: XXXXXXMAC: XX: XX: XXXXXXMAC: XX: XX: XXXXXXXXXMAC: XX: XX: XX: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXMAC: XX: XX: XX: XXX<				
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NET TYPE: STATIC ENCRYPT: DES CIP/SN/GW		NETWORK		
ENCRYPT: DES CIP/SN/GW XXX.XXX.XXX				
CIP/SN/GW XXX.XXX.XXX XXX.XXX.XXX XXX.XXX.XXX MAC: XX: XXX:XXX XXX.XXX.XXX MAC: XX: XXX:XXX MAC: XX: XXX:XXX XXX.XXX.XXX XXXX OPTION ATTEND: M2(F1~F4) AUTO TNA: YES LANGUAGE: English SHOW ID: YES LOGO USE: NO UID LEN:4 DATE: YYMMDD LOG SAVE: YES IMG SAVE:NO SHOW TO: X PING TO: X NET TO: X: INT DEVICE CARD TYPE: RF/SC CARD FMT: STD FP1: N:X LFD: XX AUTH TIME: BEEP VOL: VOICE VOL:				
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XXX.XXX.XXXXXX.XXX.XXX.XXXMAC: XX: XX: XX: XX: XX: XXSIP/PORT XXX.XXX.XXXXXXXXXOPTIONATTEND: M2(F1~F4) AUTO TNA: YES LANGUAGE: English SHOW ID: YES LOGO USE: NO UID LEN:4 DATE: YYMMDD LOG SAVE: YES IMG SAVE:NO SHOW TO: x PING TO: x NET TO: x:INT DEVICECARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xX AUTH TIME: BEEP VOL: VOICE VOL:			CIP/SN/GW	
XXX.XXX.XXX MAC: XX: XX: XX: XX: XX: XX SIP/PORT XXX.XXX.XXX XXXOPTIONATTEND: M2(F1~F4) AUTO TNA: YES LANGUAGE: English SHOW ID: YES LOGO USE: NO UID LEN:4 DATE: YYMMDD LOG SAVE: YES IMG SAVE:NO SHOW TO: x PING TO: x NET TO: X:INT DEVICECARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:			XXX.XXX.XXX.XXX	
MAC: xx: xx: xx: xx: xx SIP/PORT xx.xxx.xxx.xxx xxx OPTION ATTEND: M2(F1~F4) AUTO TNA: YES LANGUAGE: English SHOW ID: YES LOGO USE: NO UID LEN:4 DATE: YYMMDD LOG SAVE: YES IMG SAVE:NO SHOW TO: x PING TO: x NET TO: x: INT DEVICE CARD TYPE: RF/SC CARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:			XXX.XXX.XXX.XXX	
SIP/PORT			XXX.XXX.XXX.XXX	
SIP/PORT			MAC: xx: xx: xx: xx: xx: xx	
XXX.XXX.XXX XXXOPTIONATTEND: M2(F1~F4) AUTO TNA: YES LANGUAGE: English SHOW ID: YES LOGO USE: NO UID LEN:4 DATE: YYMMDD LOG SAVE: YES IMG SAVE:NO SHOW TO: x PING TO: x NET TO: x:INT DEVICECARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:				
xxxxOPTIONATTEND: M2(F1~F4) AUTO TNA: YES LANGUAGE: English SHOW ID: YES LOGO USE: NO UID LEN:4 DATE: YYMMDD LOG SAVE: YES IMG SAVE:NO SHOW TO: x PING TO: x NET TO: x:INT DEVICECARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:				
OPTION ATTEND: M2(F1~F4) AUTO TNA: YES LANGUAGE: English SHOW ID: YES LOGO USE: NO UID LEN:4 DATE: YYMMDD LOG SAVE: YES IMG SAVE:NO SHOW TO: x PING TO: x NET TO: x: INT DEVICE CARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:				
AUTO TNA: YES LANGUAGE: English SHOW ID: YES LOGO USE: NO UID LEN:4 DATE: YYMMDD LOG SAVE: YES IMG SAVE:NO SHOW TO: x PING TO: x NET TO: x: INT DEVICE CARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:		ΟΡΤΙΟΝ		
LANGUAGE: English SHOW ID: YES LOGO USE: NO UID LEN:4 DATE: YYMMDD LOG SAVE: YES IMG SAVE:NO SHOW TO: x PING TO: x NET TO: x: INT DEVICE CARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:				
SHOW ID: YES LOGO USE: NO UID LEN:4 DATE: YYMMDD LOG SAVE: YES IMG SAVE:NO SHOW TO: x PING TO: x NET TO: x: INT DEVICE CARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:				
LOGO USE: NO UID LEN:4 DATE: YYMMDD LOG SAVE: YES IMG SAVE:NO SHOW TO: x PING TO: x NET TO: x: INT DEVICE CARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:				
UID LEN:4 DATE: YYMMDD LOG SAVE: YES IMG SAVE:NO SHOW TO: x PING TO: x NET TO: x: INT DEVICE CARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:				
DATE: YYMMDD LOG SAVE: YES IMG SAVE:NO SHOW TO: x PING TO: x NET TO: x: INT DEVICE CARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:				
LOG SAVE: YES IMG SAVE:NO SHOW TO: x PING TO: x NET TO: x: INT DEVICE CARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:				
IMG SAVE:NO SHOW TO: x PING TO: x NET TO: x: INT DEVICE CARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:				
SHOW TO: x PING TO: x NET TO: x: INT DEVICE CARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:				
PING TO: x NET TO: x: INT DEVICE CARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:				
NET TO: x:INT DEVICECARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:				
INT DEVICE CARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:			PING TO: x	
INT DEVICE CARD TYPE: RF/SC CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:			NET TO: x:	
CARD FMT: STD FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:		INT DEVICE		
FP1:1:x FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:				
FP1: N:x LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:				
LFD: xx AUTH TIME: BEEP VOL: VOICE VOL:				
AUTH TIME: BEEP VOL: VOICE VOL:				
BEEP VOL: VOICE VOL:				
VOICE VOL:				





			
		BLE Name/MAC	
		XXXXXXX (BLE Name)	
		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
		TAMPER:ALARM	
	EXT DEVICE	LOCK1	
		TYPE: STRIKE/OK	
		OUT: N/O	
		OPEN: 3000ms	
		LOCK2	
		TYPE: NONE	
		OUT: N/O	
		OPEN: 3000ms	
		DOOR WARN: 0sec	
		FORCE OPEN:NO	
		FURCE OPEN.INU	
		RS485: LC010	
		RS485 ID: xxx	
		WIEGAND	
		IN/OUT :34B/34B	
		SITECODE: xxx	
		SEND:USERID	
	I/O PORT	LOCK1: HIGH	
	I/U PURI		
		LOCK2: HIGH	
		DM0: HIGH	
		DM1: HIGH	
		DM2: HIGH	
		WOIN: HIGH	
		W1IN: HIGH	
		INSIDE: HIGH	
		TAMPER SW:HIGH	
	VERSION	HW	
		FW	
		Card	
		BLE	
		SN(Serial Number)	
RECOVERY	INITIALIZE	CONFIG	
		LOG DB	1
		FACTORY	
			VOICE
	SELF TEST	INT DEVICE	VOICE
			CARD
			FP SENSOR
			CAMERA
			LED
		EXT DEVICE	DOORLOCK
			SENSOR IN
	BACKUP		
	DACKUP	LOG EXPORT	
		USER EXPORT	
		USER IMPORT	
		FW UPDATE	
	REBOOT		
L		1	1



3.4. USER Menu

USER menu has the feature as follows.

MENU				ME	NU		
1.USER			6.S	ΤΑΤΙ	JS		
2.NETWORK			7.R	ECO	VER	Y	
3.0PTION							
4.INT DEVICE			CE				
5.EXT DEVICE							
F1	\odot	Ð	F2	F1	\odot	۲	F2
F3	\odot	Θ	F4	F3	\odot	Θ	F4

Category	Explanation	
ADD	Use to add user and admin with various certification conditions.	
AUTO ADD	Use to add Card or Fingerprint user automatically.	
MODIFY	Use to add certification conditions, card or fingerprint of registered	
	user.	
DELETE	Use to delete a registered particular user.	
DELETE ALL	Use to delete all registered users.	

3.4.1. ADD

3.4.1.1. USER TYPE

If you press **ADD** in the menu, the screen asking the user type is displayed as follow.



USER TYPE	Explanation	
USER	Only available for authentication	
	No Authorization to access menu	
	When selecting user, the screen is displayed as follow.	
	USER	
	INPUT ID	
	0000	
	F1 • • F2 F3 • • • •	



ADMIN	Available to add and delete user.
	Available to access menu and modify it.
	When selecting the administrator, the screen is displayed as follows.
	INPUT ID
	0000
	F1 💿 📀 F2
	F3 🕤 🚯 F4

3.4.1.2. AUTH TYPE

There are FP (Fingerprint), Card, and MCARD (Mobile card) in the menu.

But MCARD can only provide the check state, and do not provide checking or unchecking. For checking or unchecking with MCARD, it is only available via **Server** and **Admin App**. There are **AND** and **OR** in authentication conditions.

In **AND**, all authentication conditions should be satisfactory and then authentication succeeds.

In **OR**, one of authentication conditions should be satisfactory and authentication succeeds.

FP:0 \rightarrow FP is abbreviation of Finger Print.

0 means the registered FP number. (1FP means 2 fingerprints)

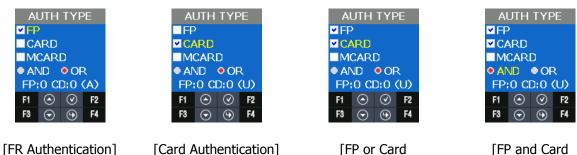
CD:0 \rightarrow CD is abbreviation of CARD.

0 means the registered CARD number.

Maximum card number is 1.

(U) \rightarrow Means your Registration Authority is general user (USER).

(A) \rightarrow Means your Registration Authority is administrator (ADMIN).



Authentication]

[FP and Card Authentication]

3.4.1.3. INPUT FP

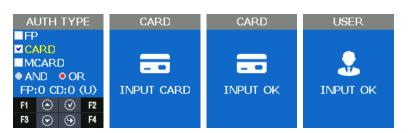
Input the same fingerprint twice when you check the Fingerprint as authentication type. If you want to add only one fingerprint, select **1. NO**. If you input the fingerprint second times and they are normal, **INPUT OK** is displayed. If you want to add more fingerprints, select **2. YES**. One user can register 20 people for maximum.





3.4.1.4. INPUT CARD

When you check **Card** as **AUTH TYPE**, you need to follow steps as below. If you input CARD on Waiting state, registration completes and **INPUT OK** screen is displayed.



EM CARD ex) Card No.(5byte): 08h 01h 16h 1Dh D6h

Card Format	Card No.	Display Method
Standard	02207638 (16001DD6)	(3+5)digits Decimal [022(16h)+07638(1DD6h)]

SC CARD ex) Card No.(4byte): 52h 9Dh 06h E3h

Card Format	Card No.	Display Method
Standard	529D06E3	8digits Hex

3.4.2. AUTO ADD

AUTO ADD is used when you want to register general users (not admin user) consecutively with card or fingerprint.

If you select **FP**, it adds users by increasing ID consecutively only with fingerprint. If you select **CARD**, it adds users by increasing ID consecutively only with card.



3.4.2.1. AUTO ADD - 1. FP

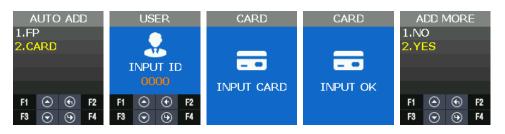
This is the menu when registering the users continuously only by fingerprint. Input fingerprint in twice and then the registration succeeded. If you want to add more users, select **2. YES**, and continue the registration. User ID increases automatically.





3.4.2.2. AUTO ADD

This is the menu when registering the users continuously only by card. After inputting the card, **INPUT OK** is displayed on the screen. If you want to add the other user, select **2. YES**, and register the user. User IDs increases automatically.

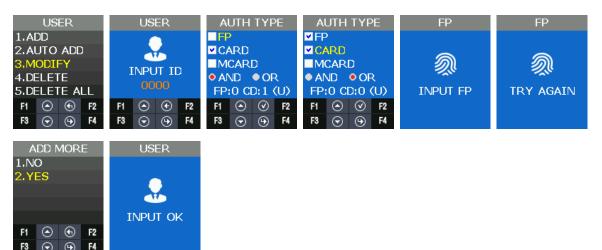


3.4.3. MODIFY

It is used when modifying the authentication type of the registered user.

In authentication type, authentication type (fingerprint, card) and authentication condition (AND, OR) can be changed.

If the modification type is modified, authentication information about the authentication type can be input.



3.4.4. DELETE

It is used when deleting the registered users.



3.4.5. DELETE ALL

It is used when deleting all the registered users. It should be careful when trying to delete, because all the users (general user, administrator) are deleted.





3.5. NETWORK Menu

Network menu has the following features.

MENU	NETWORK	NETWORK	
1.USER	1.NO USE	1.AUTH MODE	
2.NETWORK	2.USE	2.TERMINAL ID	
3.0PTION		3.TERMINAL	
4.INT DEVICE		4.SERVER	
5.EXT DEVICE			
F1 🔿 🕤 F2	F1 🔿 🕤 F2	F1 🔿 🕤 F2	
F3 🕤 🕒 F4	F3 🕤 🕒 F4	F3 🕤 🕒 F4	

Category	Explanation	Remarks
NO USE	Network not used	Standalone
USE	AUTH MODE TERMINAL ID TERMINAL SERVER	Network mode

Operation Mode	Explanation
Standalone	This is the operation mode independently without server and communication. The administrator can control all the functions of the terminal. Authentication log is saved in the terminal but is not sent to server. After converting Standalone mode into Network mode and accessing in server, the authentication log saved internally is sent to sever. If you want to see the authentication log data in Standalone mode, move RECOVERY > BACKUP > LOG EXPORT from main menu,
	download it in USB through UDL module and check it by Rosslare Bio9000 program.
Network Mode	This is the operation mode by communicating with the server and it can control the functions of the terminal by the remote-control. Depending on the authentication mode, the order of authentication can be different. (Authentication order about whether trying to authenticate in the terminal or the server first) Authentication log is sent to the server if the network is connected regardless of authentication mode.

3.5.1. AUTH Mode

Authentication mode means the authentication priority to determine whether authentication



processing is done in the terminal or the server when user-authentication.

It is a valid setting only when using the network. All authentication log is sent to server through the network.



AUTH MODE	Explanation	
Server/Terminal	Server → Terminal	
	After trying to do server authentication at first, terminal authentication is processed.	
Terminal/Server	Terminal → Server	
	After trying to do terminal authentication at first, server authentication	
	is processed.	
Server	Server only	
	Authentication is processed only in server.	
Terminal	Terminal only	
	Authentication is processed only in terminal.	
	Even if it is "Terminal Only", authentication log is sent to server.	

 \star In Server Only" mode, if the network is disconnected, all the authentication is processed in fail. If the mode is not "Server Only" (Server/Terminal, Terminal/Server, Terminal) and the network is disconnected, authentication is processed in the base of DB in the terminal.

3.5.2. Terminal ID

Terminal ID is a valid information only when using the network, and it can be set in the range of $1 \sim 200$.

If a user registered in the terminal exists, you can't change the Terminal ID.



3.5.3. Terminal

It is used when setting the network information in the terminal.





Network setting in the terminal can be set in Static IP and DHCP.

STATIC: Set the value as a user wants.

DHCP: Allocated flexibly. (It can be operated normally when using the router supporting DHCP.)

If **STATIC** is used, it is used when setting IP, Subnet mark and Gateway address of the terminal.

The following is the default setting value.



Category	Default Setting Value
Terminal IP	192.168.0.3
SUBNET MASK	255.255.255.0
GATEWAY	192.168.0.1

It can set the address value as follows.

Function Key	Function Explanation
F1	Increase the setting value
F3	Decrease the setting value
F2	Move to left
F4	Move to right
F4 Long	Save the setting value

3.5.4. Server

When the terminal accesses in server through the network, set the information.



Default setting value is as follows.

Category	Default Setting Value
Server IP	192.168.0.2
Port number	7332

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ARE

3.6. OPTION Menu

User menu has the same function as follows.

	OPT	ION	
1.A	TTEN	ND 👘	
2.SCREEN			
3.S/	AVE		
4.TIMEOUT			
5.LOCKING			
F1	\odot	Ð	F2
F3	\odot	Φ	F4

Category	Explanation
ATTEND	ТҮРЕ
	AUTO TNA
SCREEN	LANGUAGE
	SHOW ID
	USER LOGO
	USER ID LEN
	DATE
SAVE	LOGO SAVE
	IMAGE SAVE
TIMEOUT	RESULT
	NET ERROR
	PING
LOCKING	NO USE / USE

3.6.1. ATTEND

TNA related menu is configured.



Category	Explanation
TYPE	When Function Key is used in time and attendance option, it is used.
AUTO TNA	Use to determine whether to remain Function Key or not shown in the default
	screen.

3.6.1.1. TYPE



It is used when setting ATTEND mode. If setting ATTEND mode, ATTEND mode is displayed in the screen when pressing Function Key shortly ($F1 \sim F4$) in the default screen.



Mode	Explanation
NONE	F00 is only displayed in default screen.
F1~F2	F1~F2 Function Key is recognized and F01, F02 are displayed in default screen.
F1~F4	F1~F4 Function Key is recognized and, F01, F02, F03, F04 are displayed in default screen.
F1~F49	F1~F4 Function Key is recognized and F01, F02, F03, F04, F11~F49 are displayed.

Function Key	Meaning
F00	ACCESS MODE
F01	CLOCK-IN MODE
F02	CLOCK-OUT MODE
F03	CHECK-OUT MODE
F04	CHECK-IN MODE
F11~F49	EXPANDED MODE

TNA mode (F00~F49) is converted into F00 after 10 seconds if you don't use AUTO TNA.

3.6.1.2. AUTO TNA



AUTO TNA is the menu to determine whether to remain continually the setting TNA mode or not.

Category	Explanation
NO	The TNA mode is automatically returned into F00 after 10 seconds.
YES	The TNA mode is continuously displayed.

3.6.2. Screen

The screen display related menu is configured.

SCREEN			
1.L/	ANG	UAG	E
2.SHOW ID			
3.USER LOGO			
4.USER ID LEN			
5.DATE			
F1	\odot	۲	F2
F3	\odot	Φ	F4

Category	Explanation		
LANGUAGE	Change the language which is displayed in the screen and is spoken.		
SHOW ID	When authentication succeeds, you can set whether showing ID or not.		
USER LOGO	You can set whether the logo image for customers is used or not in the		
	default screen.		
USER ID LEN	It is used when modifying the length of user's ID.		
DATE	It is used when modifying Year/ Month/ Day and time displayed in the		
	ROSSLARE		
	SECURITY PRODUCTS		

default screen.

3.6.2.1. Language

It is used to change the voice language and menu text displayed on the screen.

Voice guidance is available in English, Korean, Indonesian, Thai, Arabic, Spanish, Portuguese, French, Russian, Farsi, Japanese, and Chinese.

Language support for all menu text is in English, Korean, Indonesian, Spanish, Portuguese, French, Japanese and Chinese.

Language support for some text is in Farsi, Arabic, Thai and Russian.



3.6.2.2. SHOW ID



It is used to determine whether to show your ID at the time of authentication success window.

Category	Explanation
NO USE	Do not show your ID at the time of authentication success Screen Yes "****" When authentication successes, it doesn't show user's ID on the screen. For example, "****".
USE	When authentication successes, it shows user's ID on the screen. For example, "****".

3.6.2.3. USER LOGO

It is used to determine whether the displayed image shows the customer's logo or not in the default screen.





Category	Explanation
NO USE	Use basically the provided default image
	Use the customer's logo image To use the customer's logo image, you should update the customer's image through the server first and then the customer's image is displayed in the default screen. When editing the customer's image, it should be edited in the red box as the left picture. The full image size is 128 (W) x160 (H) pixel, and the red box image size is 102 (W) x74 (H) pixel. 128

3.6.2.4. USER ID LEN

It is used to change the length of user's ID. If changing the user's ID, it should change in the absence of a DB because it affects user's DB that is internally registered. The setting range can be set from 4 to 16.

If a user registered in the terminal exists, you can't change the length of User ID.





3.6.2.5. DATE

It is used to select the order of Year, Month and Day displayed in the default screen. YY: Year

MM: Month DD: Day



Through SETTING, you can set current Year, Month, Day and Time.



3.6.3. SAVE

It is the menu including the function related to SAVE.



3.6.3.1. LOG SAVE

It is used to set whether to save the authentication log in memory or not. The default setting is YES.





3.6.3.2. IMAGE SAVE

It is used to set whether to save the captured photo from camera when authentication successes or fails. The default setting is Fail.



3.6.4. TIMEOUT

It is the menu that has the setting related with timeout.

1.R	e <mark>sui</mark> et e	iout _T RRC	
F1	\odot	۲	F2
F3	\odot	9	F4

3.6.4.1. RESULT

It is used to set the authentication result display how long it keeps for a seconds. The setting range can be set from 0 to 5 seconds. If it set to 0, then don't display the authentication result.



3.6.4.2. NET ERROR

If it does not communicate with the server over a period of time, it is used to set whether there is a network communication error.

If PING doesn't come for a setting time in the server, it retries to connect the terminal. The setting range is available for $60 \sim 600$ seconds.





3.6.4.3. PING

It sets the cycle that terminal sets PING command to the server. The setting range is available for $30 \sim 255$ seconds.



3.6.5. LOCKING

Locking mode is the function that it rejects the authentication of all users until the administrator enters the menu and releases the locking mode. The default setting is **NO USE**.



The default screen is displayed as follows when setting to use locking mode.





3.7. INT DEVICE Menu

SE	100		
	NSO	R	
EΡ			
ICE	Ξ		
4.BLE			
MPI	ER		
\odot	Ð	F2	
\odot	Θ	F4	
	ICE E	ICE	

INT DEVICE menu has the features as follows.

Category	Explanation
FP SENSOR	1:1 LEVEL
	1: N LEVEL
	LFD LEVEL
	AUTH TIME
BEEP	Set Beep Sound.
VOICE	Set Voice Sound
BLE	BLE registration mode
TAMPER	Set the alarm when opening terminal case.

3.7.1. FP SENSOR

For the fingerprint recognition, it sets for the user registration and authentication about the module installed inside.



3.7.1.1.1:1 LEVEL

It is the authentication level used when it tries 1:1 fingerprint authentication.





3.7.1.2. 1: N LEVEL

It is the authentication level used when it tries 1: N fingerprint authentication.



3.7.1.3. LFD LEVEL

It sets LFD LEVEL to prevent the duress fingerprint.

If setting LFD LEVEL higher and higher, the ability to prevent the input of duress fingerprint produced by rubber, paper, film, and silicon etc. reinforces but too dry fingerprint cannot be input well. Also the authentication speed can be slow.



3.7.1.4. AUTH TIME

It means the maximum time to process 1: N authentication. If the authentication time exceeds, authentication timeout occurs. The authentication time is 2 to 10 seconds, the default is 5 seconds.





3.7.2. BEEP

It informs key touch, authentication success, and failure as beep and sets the beep level. The beep level is available from 0 to 3.



3.7.3. VOICE

It supports the notice such as authentication success/failure and authentication retrial. It sets the authentication level. The voice level is available from 0 to 5.

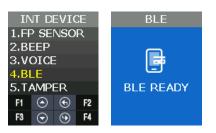


3.7.4. BLE

When registering the terminal in Administrator's App, this menu is required.

By using this menu, it can make the terminal BLE READY. Only if the terminal is BLE READY, it can perform the registration procedure of the terminal after the administrator app accesses the terminal.

When pressing F3 long in the default screen of the terminal, it performs same operation with this menu.



Regarding the method to register the terminal in the administrator APP, please refer **3.2 How to register the terminal** in the administrator App.

3.7.5. TAMPER

When disassembling the terminal randomly, it sets whether to sound the alarm.



INT DEVICE					TAM	IPER	
1.FP SENSOR			1.NO ALARM				
2.BEEP			2.A	LAR	М		
3.VOICE							
4.BLE							
5.TAMPER							
F1	٢	€	F2	F1	\odot	€	F2
F3	\odot	Ψ	F4	F3	\odot	Θ	F4

If selecting **1. NO ALARM**, even if disassembling the terminal, the alarm doesn't sound but **A** icon is displayed.

If selecting **2. ALARM**, **\square** icon displays and the beep sounds in at regular intervals.

3.8. EXT DEVICE Menu



EXT DEVICE has the features as follows.

Category	Explanation
DOORLOCK	It sets the control device to lock through the internal relay.
RS485	It sets the devices using RS485.
WIEGAND	It sets the device using WIEGAND.

3.8.1. DOORLOCK

It is the menu to set lock device (Strike, Motor type door lock) by using LOCK1 and LOCK2 port.



3.8.1.1. LOCK1 type

Category	Explanation
NONE	No Use
Strike/OK	When connecting the light to mark authentication success/failure or 2. STRIKE/OK .
MOTOR1	When connecting Motor lock





3.8.1.2. LOCK1 OPEN TIME

It sets the time to give the signal when LOCK 1 sets **2. STRIKE/OK**. Strike type means the time from opening to locking the door after authenticating. The default value is 3 seconds and the input range is 1 to 20 seconds.



3.8.1.3. LOCK2 type

NONE	When not using
FAIL IND	When connecting the light to mark authentication failure in Lock 2
MOTOR2	When connecting motor lock



3.8.1.4. LOCK2 OPEN TIME

If Lock 2 sets FAIL IND, it sets the time to give the signal. The default value is 3 seconds and the input range is 1 to 20 seconds.



3.8.1.5. OPEN ALARM

When the door open time expires and the door open alarm time is exceeded, the alarm sounds. The default value is 5 seconds and the input range is $0 \sim 20$ seconds. If it is set to 0, it does not beep. If it is set to 1 ~ 20 seconds, it does beep.





3.8.1.6. DM0

DM0(Door Monitor 0) is the input port and it is used to detect the signal state of door open.



3.8.1.7. DM1

DM1(Door Monitor 1) is the input port and it is used to detect the signal state of lock.



3.8.1.8. DM2

DM2(Door Monitor 2) is the input port and it is used to detect a various of sensor and alarm.



For example, if connecting with fire sensor, it should set 4. FIRE N/O or 5. FIRE N/C and it may cause fire alarm and icon in case of fire. In case of fire, the door automatically opens for safety.





3.8.2. RS485

It is the setting for the device with RS485 communication to interface with external.



3.8.2.1. TYPE

	ΤY	PE	
1.N	ONE		
2.L(CO10	XL/	C)
3.LC015(L/C)			
4.SR100			
5.M	CP04	40	
F1	\odot	€	F2
F3	\odot	Ψ	F4

TYPE	Explanation
NONE	It doesn't use RS485.
LC010	Lock Controller
	It controls LOCK through the other external module.
LC015	Lock Controller
	It controls LOCK through the other external module.
SR100	FP Dummy Reader
	When it installs the other FP dummy reader device in external and then
	operates, it is used.
MCP040	Terminal operates as the dummy reader.
	If Terminal is connected with MCP040 device, 1 icon is displayed in the defa
	ult screen. If Terminal is not connected with MCP040, 📰 icon is displayed.
	The authentication result is determines whether or not successful by MCP040.
	RS485ID uses 1~7.

3.8.2.2. DEV ID

DEV ID is the ID that distinguishes devices and it can be set up 0-7 during RS484 communication.



3.8.3. WIEGAND





WIEGAND supports each one of Input port and Output port.



3.8.3.1. WIRE-INPUT

It is used to set the input type when working with the device connected into WIEGAND input port.



Category	Explanation
NONE	WIEGAND input port is not used.
WIE26BIT	EM, HID26 Card Module
WIE34BIT	MIFARE Card Modules
CUSTOM	Use Access Manager program and set Wiegand format.

3.8.3.2. WIRE-OUTPUT



Category	Explanation
NONE	WIEGAND output port is not used.
WIE26BIT	EM, HID26 Card Module
WIE34BIT	MIFARE Card Modules
CUSTOM	Use Access Manager program and set Wiegand format.

3.8.3.3. CUSTOM BIT LENGTH

It can set BIT length as 1~128.





3.8.3.4. SITE CODE

It is used to set the value of Site Code that is sent to WIEGAND output port.



3.8.3.5. SEND INFO

It is used to select the transmitting data by the output port.



SEND INFO	Туре	None
USER ID	26 Bit	E.Parity(1)+ Site Code(8bit) + ID(16bit) + O.Parity(1)
	34 Bit	E.Parity(1)+ Site Code(8bit) + ID(24bit) + O.Parity(1)
		If the length of the User ID greater than 8, and sent in the
		following format without site code:
		E.Parity(1)+ ID(32bit) + O.Parity(1)
Card	26 Bit	E.Parity(1) + 24bit Card Number+ O.Parity(1)
	34 Bit	E.Parity(1) + 32bit Card Number + O.Parity(1)

3.9. STATUS Menu



STATE menu has the following features.

 	J	
STATE information	Explanation	
DB INFO	User DB, Authentication log data	
ROSSLARE		
	SECURITY PRODUCTS	

NETWORK	The setting information related to network
OPTION	TNA, Screen setting, Saving, Time out, Lock mode
INT DEVICE	Display the setting state related to the internal device.
EXT DEVICE	Display the setting state related to the external device.
I/O PORT	Display the current signal of Input / Output port that interfaces with outside.
VERSION	Display the version of the equipped device in the terminal.

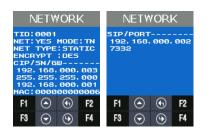
3.9.1. DB INFO

It displays User's DB information and the authentication log information.



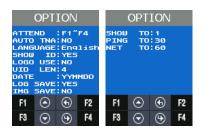
3.9.2. NETWORK

It displays the network setting value.



3.9.3. OPTION

It displays the option setting value.



3.9.4. INT DEVICE

It displays the setting value related to the internal device.





3.9.5. EXT DEVICE

It displays the setting information related to the external device.



3.9.6. I/O PORT

It reflects the current I/O Port state and displays it on the screen. Output Port: LOCK1, LOCK2 Input Port: DM0~DM2, W0IN, W1IN, INSIDE Open, Tamper When the input port shorts GND, the signal modifies from **HIGH** to **LOW**.

I/O PORT			
LOCK LOCK DM0 DM1 DM2 W0IN W1IN IN5I	DE	LO LO HI HI HI HI	₩ GH GH GH GH GH GH
F1		ш:нт Ф	F2
F3	\odot	Θ	F4

3.9.7. VERSION

It displays the equipped module in the terminal and other version information.





3.10. RECOVERY Menu

RECOVERY has the features as follows.

RECOVERY			
1.IN	JITI.	ALIZ	ZE
2.SELF TEST			
3.BACKUP			
4.REBOOT			
F1	\odot	€	F2
F3	\odot	Ψ	F4

Category	Explanation
INITIALIZE	CONFIG
	LOG DB
	FACTORY
SELF TEST	INT DEVICE
	EXT DEVICE
BACKUP	LOG EXPORT
	USER EXPORT
	USER IMPORT
	FW UPDATE
REBOOT	REBOOT

3.10.1. INITIALIZE

It is used to initialize CONFIG, LOG DB, and FACTORY in the terminal.



3.10.1.1. CONFIG

It is used to initialize the modified setting value in the menu as the default value when shipping from factory.

If a user registered in the terminal exists, you can't initialize the configuration information.



3.10.1.2. LOG DB INIT

It is used to delete the user authentication log saved in the terminal.





LO	G DI	B IN	IT
1.N	0		
2.YI	ES		
F1	٢	€	F2
F3	\odot	⊕	F4

3.10.1.3. FACTORY INIT

If trying FACTORY INIT, setting data, authentication log data, and user registration information are initialized as setting state when shipping from factory.

 \star It should be careful because the current data can be lost when you setting wrong.



3.10.2. SELF TEST

It is used when the terminal tests the operation state about internal & external device by itself.



3.10.2.1. INT DEVICE

It could test VOICE, CARD, FP SENSOR, CAMERA and LED equipped internally by itself.



Category	Explanation
VOICE	Voice output test
CARD	Card recognition test
FP SENSOR	Fingerprint recognition test
CAMERA	Camera equipment test
LED	LED output test

Voice Test



When authentication successes, it repeats and play voice guidance.



Card Test

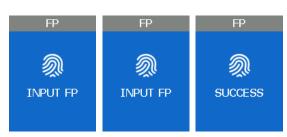
As you see below, the screen displays "INPUT CARD" state at first.

When recognizing the card, "Success" screen displays and it returns "INPUT CARD" state again. If you want to stop testing, press **F2**.



FP Sensor Test

FP Sensor Test is used to test the operation state of FP sensor from terminal. Input your fingerprint twice, if they are same, it shows "Success" screen. Otherwise, if not, it shows "Failure" screen.



Camera Test

It is used to check whether the camera state is normal in the terminal to capture photos.



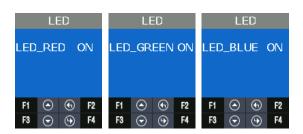
LED Test

It is used to check whether the state is normal about RED, GREEN and BLUE LED used to inform the operation state.

At intervals of 2 seconds, RED, GREEN and BLUE LED changes from ON to OFF.







3.10.2.2. EXT DEVICE

It can test the features related to the external device by itself.



Category	Explanation
DOORLOCK	Lock1, Lock2
SENSOR IN	DM0
	DM1
	DM2
	INSIDE OPEN
	TAMPER

DOORLOCK Test

It is used to check the state of LOCK1, LOCK2 OPEN /CLOSE from the terminal. The procedure is as follows.



SENSOR IN

It is used to check the signal state about the input port. When the port shorts GND, if signal changes LOW, it is normal.





3.10.3. BACKUP

When the saved data from the terminal sends to USB by using UDL device or brings the data from USB memory and then applies it, it is used. It is available only when the UDL module is. UDL is the option module, so it is not basically provided. If you want to get more information about UDL module, please contact customer service. USB memory recommends using SanDisk.(NOTICE: UDL Device is not supported for all USB memory. UDL module may not work depending on the USB memory size, manufacturer, and method.)



If Terminal detect UDL Device and USB memory, icon is displayed in the default screen.

If 🧧 icon isn't displayed, all backup function doesn't operate.



3.10.3.1. LOG EXPORT

The saved log data from terminal saves in USB memory through UDL (User Data Downloader module).

Only the log data in the selected period sends to USB and saves it through UDL. The file name saved in USB memory is divided by period as follows.

CURITY

PRODUC

- 1. 1Day: L1Day.NLG,
- 2. 1~30Day: L30Day.NLG
- 3. 1~90Day: L90Day.NLG
- 4. 1~180Day: L180Day.NLG
- 5. ALL: ALL.NLG



3.10.3.2. USER EXPORT

The saved User DB from the terminal saves in USB memory through UDL. It saves as USER.NDB file.



3.10.3.3. USER INPUT

It reads the user DB from USB memory through UDL and adds it in terminal user DB. If inputting user DB in the terminal, all existing user DB are deleted.

If you need the existing user DB saved in the terminal, back up first and try to input the user. It opens USER.NDB file in USB memory and brings into the terminal through UDL.

The user registration data that you brought is reflected in the internal DB and added.

※ CAUTION: If you press F2 Key to stop in READ state, user loading fails.



3.10.3.4. FW UPDATE

It is used when reading the firmware from USB memory through UDL and updating the terminal firmware.

Firmware proceeds only when there is FW.NFW file name in USB memory.



3.10.4. REBOOT

It is used when rebooting the terminal.





Appendix 1. Glossary

<Glossary >

- Administrator (Admin)
 - The administrator can access the terminal menu mode. He/she has the authority to add/modify/delete terminal users and to change the operating environment by changing settings.
 - If there is no registered administrator in the terminal, anybody can access to the terminal menu and change settings. It is recommended that more than one administrator be registered in the terminal.
 - The administrator has the authority to change critical environmental settings of the fingerprint reader. So, special attention is required to its registration and operation.
- 1:1 Authentication
 - The user fingerprint is verified after entering User ID or Card.
 - Only User ID or the user fingerprint registered to the card is compared. This is called One-to-One Authentication.
- 1: N Identification
 - The user is searched only by the fingerprint.
 - The same fingerprint as the input fingerprint is identified among the registered fingerprints without User ID or Card entered. This is called One-to-N Identification.
- Authentication Level
 - As a level used for fingerprint authentication, it is displayed in Step 1 to 9. Authentication cannot be allowed before the degree of match between two fingerprints is higher than the set authorization level.
 - The higher authentication level may ensure the higher security. But it requires the relatively high concordance rate. When authenticating User ID, it high likely to deny authentication.
 - 1:1 Level: Authentication level applied when 1:1 authentication
 - 1: N Level: Authentication level applied when 1: n authentication
- Authentication Method
 - It refers FP (Fingerprint) Authentication, RF (Card) Authentication and a various types of authentication methods made by each of a combination.
- LFD (Live Finger Detection): Fake fingerprint prevention function
 - The LFD allows only actual fingerprints to be entered, except for any fake fingerprints made of rubber, paper, film, and silicon and the like.



Appendix 2. Declaration of Conformity

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - This device may not cause harmful interference.
 - This device must accept any interference received, including interference that may cause undesired operation.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

CAUTION: Exposure to radio frequency radiation

This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.



Appendix 3. Radio Equipment Directive (RED)

Rosslare hereby declares that the AY-H6355BT is in compliance with essential requirements and other relevant provisions of Directive 2014/53/EU.



Appendix 4. RoHS Directive

Under our sole responsibility that the following labeled AY-U9xxBT is tested to conform to the Restriction of Hazardous Substances (RoHS) directive – 2011/65/EU – in electrical and electronic equipment.





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