

Software Inkey_MINI User Manual

ENGLISH

Manual version: 1.00
Company: FERMAX

A large, bold, white 'FERMAX' logo set against a dark blue rectangular background.

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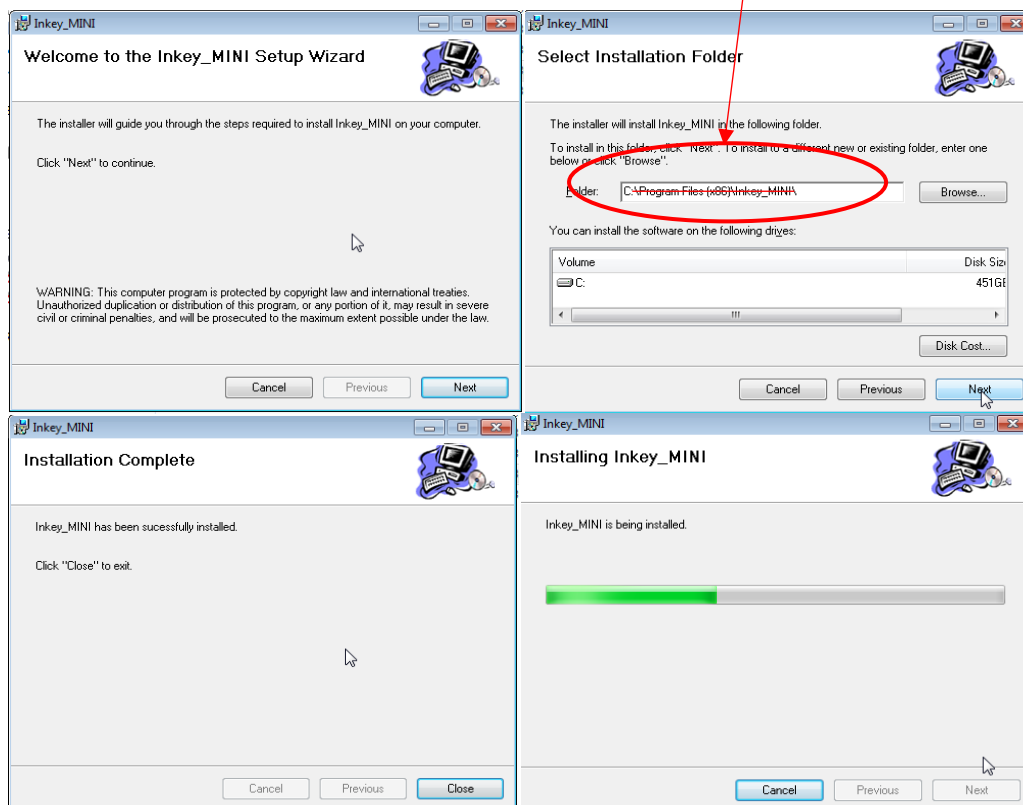
1. Installation Environment

- ◆ Operating System: Window XP / Windows-7/Windows-10 (32bit or 64bit).
- ◆ VGA: More than (1024x768) resolution.
- ◆ HDD: We recommend more than 5G free disk space pc has.
- ◆ RAM: More than 1G.
- ◆ Microsoft office: For the report, we recommend Excel software installed in pc 97-.2003.

2. How to install.

- ◆ Setup File: "Inkey_MINI_Setup_Vxxx.exe". ("xxx": Version Number)
- ◆ Installation folder: Inkey_MINI will be installed "C:\Inkey_MINI" Folder automatically.

Note: You must change the location of the installation to C:\Inkey_MINI

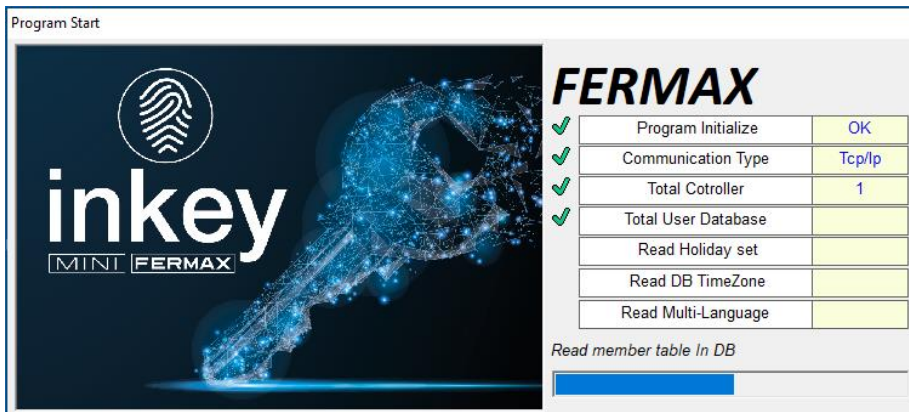


3. Program Start

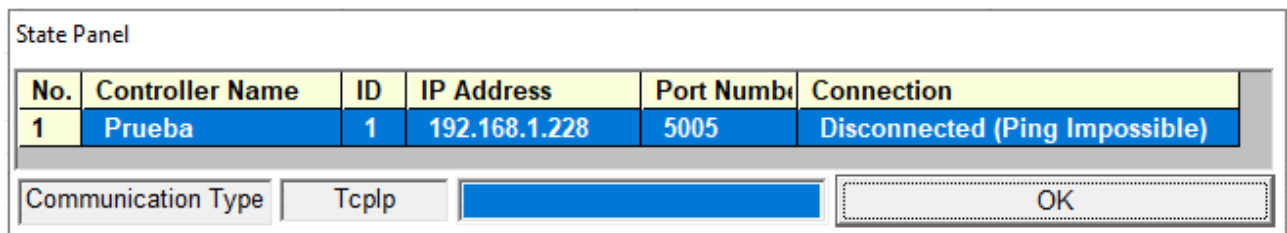
◆ After Installation, you can see Inkey_MINI Icon as below in screen. Double click, Inkey_MINI will run.



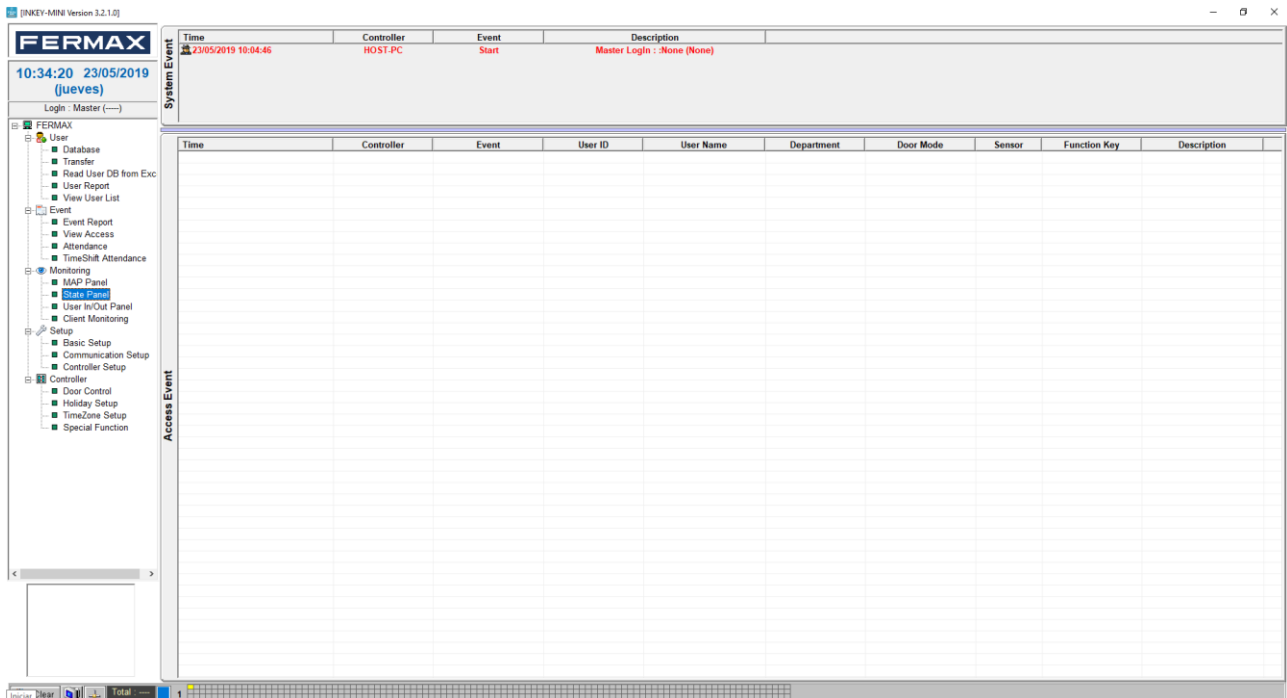
◆ First, initialize program and reads user information etc. from Database.



◆ Than, State Panel will be displayed for check the communication status.



4. Main Screen



◆ Left

You can see time and date and menu list. For the menu, you can do double-click.

◆ Right

Access Event: Access event (granted and denied event) will be displayed.

System Event: You can see system event (example: Alarm/ Log in etc)

◆ Bottom

Clear button: You can clear all events which are displayed now.

Total xx: The total controller number

Rectangle: The communication status of controller

RED means Error and BLACK means Good Communication.

5. Setup

5.1 Basic Setup

Basic setup is divided into 4 categories: basic/function key/Special Customizing

Basic Setup

Card Setup

Card Type: Standard 26 Bit Facility Code: 1

Files Location

User Database File: .\Database\Database.MDB

User Excel Sheet Folder: .\ExcelUserSheet

User Template (Finger) Folder: .\FingerTemplate

System Initial Setup File: .\SystemSetup\Setup.INI

History Save Folder: .\History

User Picture Folder: .\UserPictures

CompanyLogo Files: .\CompanyLogo

Muti-Language Selection: English Arial Font

Event Option and Color

Event Type	History Save	List Display	Display Color
Access - Granted	<input checked="" type="checkbox"/> Save	<input checked="" type="checkbox"/> Display	Color
Access - Denied	<input checked="" type="checkbox"/> Save	<input checked="" type="checkbox"/> Display	Color
System - Enroll User	<input checked="" type="checkbox"/> Save	<input checked="" type="checkbox"/> Display	Color
System - Delete User	<input checked="" type="checkbox"/> Save	<input checked="" type="checkbox"/> Display	Color
System - Setting Change	<input checked="" type="checkbox"/> Save	<input checked="" type="checkbox"/> Display	Color
System - Operating	<input checked="" type="checkbox"/> Save	<input checked="" type="checkbox"/> Display	Color
System - Alarm	<input checked="" type="checkbox"/> Save	<input checked="" type="checkbox"/> Display	Color
System - PLA Message	<input checked="" type="checkbox"/> Save	<input checked="" type="checkbox"/> Display	Color

◆ Card Type

Select card type (Standard26/Keico37/Binary) and if needed, input default Facility Code.

◆ File Position

File (setup, database, history file etc) will be saved in c:\Inkey_MINI Folder

◆ Multi language

You can select the language type (English/Korean/User own language(Spanish)). If you select "User", Please see the Multi-language text file and you can do modify string table as you want with your language. In this case, all the string in program will be display with your own language.

◆ Event Option and Color

You can configure whether to save and display these events. And the color in the event list box.

If you don't check "Save", this event does not saved in history table.

If you don't check "Display" this event does not displayed in the event list in main screen.

Basic Setup		Function Key	Special Function	Customizing
[F1 KEY]		[F2 KEY]		 OK Cancel
F1 - 0 :	IN	F2 - 0 :	F2-0	
F1 - 1 :	OUT	F2 - 1 :	F2-1	
F1 - 2 :	F1-2	F2 - 2 :	F2-2	
F1 - 3 :	F1-3	F2 - 3 :	F2-3	
F1 - 4 :	F1-4	F2 - 4 :	F2-4	
F1 - 5 :	F1-5	F2 - 5 :	F2-5	
F1 - 6 :	F1-6	F2 - 6 :	F2-6	
F1 - 7 :	F1-7	F2 - 7 :	F2-7	
F1 - 8 :	F1-8	F2 - 8 :	F2-8	
F1 - 9 :	F1-9	F2 - 9 :	F2-9	

◆ Function Key Name (not available in Inkey-MINI reader ref 5233)

Basic Setup		Function Key	Special Function	Customizing
Granted Popup Screen		<input type="checkbox"/> Enable 00:10 [M:S]		 OK Cancel
Granted Access History Saved in HGrantedAccess.txt		<input type="checkbox"/> Enable		
PLA-SF Client Enable		<input type="checkbox"/> Enable		
Auto Delete of Retired User		<input type="checkbox"/> Delete in Controller <input type="checkbox"/> Delete in DataBase		
<input type="checkbox"/> Auto transfer user data to controller when edit or add from Database <input type="checkbox"/> Auto delete user data in controller when deleted data from Database				
Auto Detect of Enroll User		<input type="checkbox"/> Auto save enroll user data on Database <input type="checkbox"/> Auto transfer enroll user data to controller		

◆ Granted Popup Screen

If this checkbox "on", when granted access, the popup dialog will be display during the second you want.

◆ Granted Access history Saved in HGrantedAccess.txt

C:\Inkey_MINI\History

If this checkbox "on", when granted access, the event information will be saved in HGrantedAccess.txt file. This is for integration with another program. Your program scan this file and this file present, you can get real-time access information immediately and delete this file.

◆ Client Enable

For the client program. You can install Inkey_MINI client program to another remote pc, and can do monitoring real-time event monitoring and make report.

5.2 Communication Setup

No.	Controller Name	ID	IP Address	Port Number	Password
1	FrontDoor	1	192.168.1.100	5005	0
2	BackDoor	2	192.168.1.200	5005	0
3					

◆ Communication type

You can select the communication type, serial (Rs485) or Ethernet (TCPIP). Select Ethernet (TCPIP)

◆ Controller

You can add (or delete) the controller you want to communication with.

You can specify each controller name.

Up to 150 controllers can be joined.

5.3 Controller Setup

No.	ID	Controller Name
<input type="checkbox"/> 001	1	FrontDoor
<input type="checkbox"/> 002	2	BackDoor

◆ ID/Password: ID is “system” and Password “fermax”.

◆ Select controller: You can select only one controller

◆ All Memory Clear: When you press this button, all the memory of controller will be deleted (Factory Initial status)

◆ All Event Clear: When you press this button, all the events (access/system) will be deleted.

◆ Firmware Upgrade: If you get special firmware from our company, you can upgrade your firmware of controller.

6. User

6.1 Database

◆ Add / Edit/ Delete / OK/ Cancel / Scroll each Button

You can add or edit or delete user. This user data will be saved in Database.MDB.

Our users are sorted by user id number automatically.

This database located in C: \ Inkey_MINI \ Database can be saved as a backup of its users and the folder must also be saved ('FingerTemplate' C: \ Inkey_MINI \ FingerTemplate)

When you close the program and change the contents of these folders for another database already created.

When you run the program, you will see all the users of another installation and you can transfer the fingerprints you want to the corresponding reader. In Windows 10 you must open the Access database go to Member and right-click export to Excel and save it as 97-2003 in the Load Excel Excel folder.

◆ User Name

You can input user name (multi-language). It's possible that you input first name only

◆ User Information

User ID is unique number from 1 to 99999999

Each user must have each user id.

User Class (Normal/Master): When master is selected, this user will have master right in controller, so, he can go to menu of controller,

And he is master also in Inkey_MINI program (the ID and Password)

◆ Card Information

Select card type, and card id/ facility code etc.

Card id is unique number, so each user must have each card id. Depending on the type of controller that receives this information, it may be necessary to change the card ID code by having a format that reads the heaviest bits to avoid repetition of users. A 10-digit number must be entered and cannot start with 0.

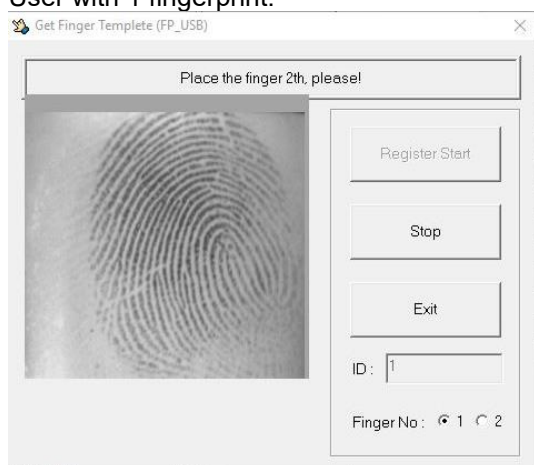
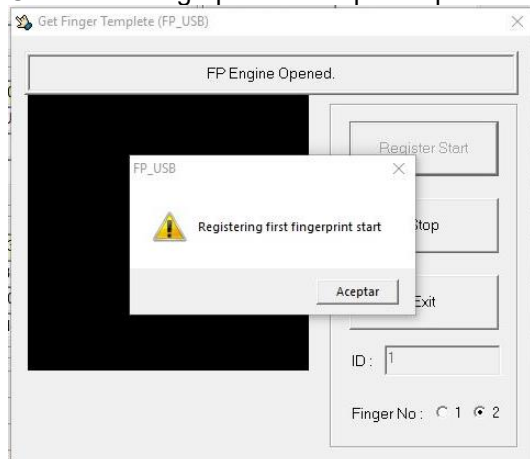
◆ Access Time Option

One user can has 2 Time-zone.

When Access Mode is "Any one (Id or card)", this user can make granted without finger regardless the door access mode.

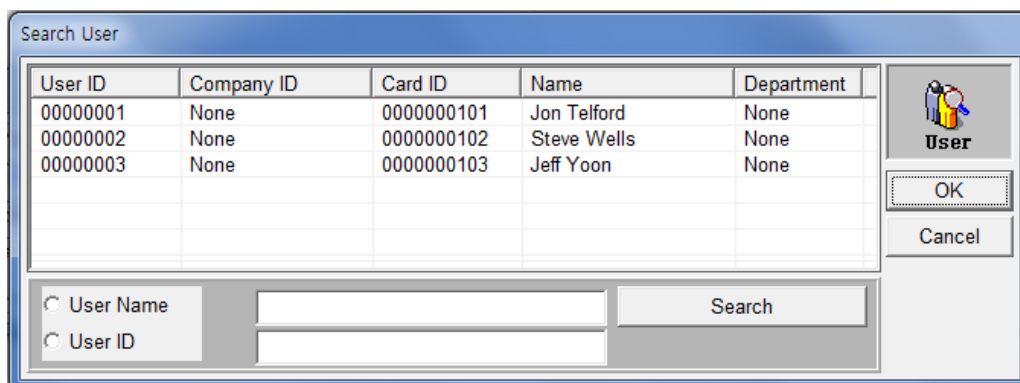
◆ Get Finger Template (ref. 5234)

When ref. 5234 (finger scanner) is connected in this pc, you can enroll this user's finger template directly.

User with 1 fingerprint:**User with 2 fingerprints: Accept and present 1st the first fingerprint and then the 2nd.**

◆ Official / Private

You can enroll each user's information as you want.



Search User

User ID	Company ID	Card ID	Name	Department
00000001	None	0000000101	Jon Telford	None
00000002	None	0000000102	Steve Wells	None
00000003	None	0000000103	Jeff Yoon	None

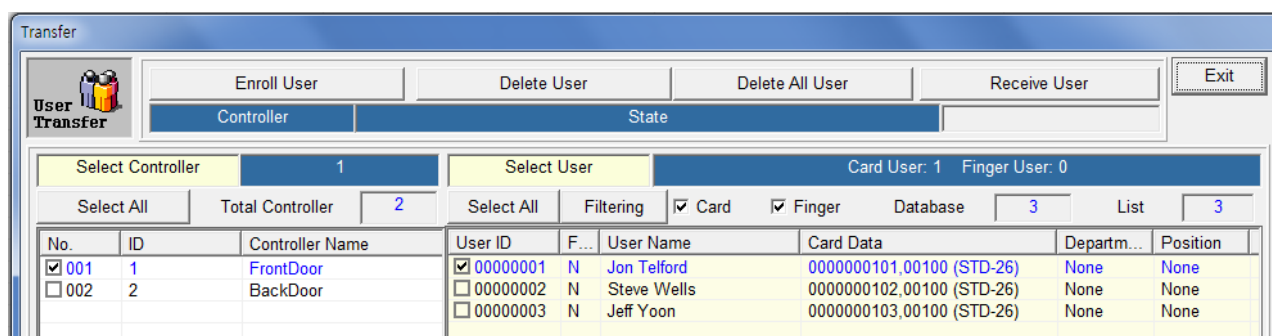
☐ User Name

☐ User ID

◆ Search User

You can Search specific user with user name or user id.

6.2 Transfer



Transfer

Controller: State:

Select Controller: 1
 Select User: Card User: 1 Finger User: 0

Total Controller: 2
 Filtering: ☒ Card ☒ Finger Database: 3 List: 3

No.	ID	Controller Name	User ID	F...	User Name	Card Data	Departm...	Position
<input checked="" type="checkbox"/> 001	1	FrontDoor	<input checked="" type="checkbox"/> 00000001	N	Jon Telford	0000000101,00100 (STD-26)	None	None
<input type="checkbox"/> 002	2	BackDoor	<input type="checkbox"/> 00000002	N	Steve Wells	0000000102,00100 (STD-26)	None	None
			<input type="checkbox"/> 00000003	N	Jeff Yoon	0000000103,00100 (STD-26)	None	None

◆ Enroll user: You can send each user data and information to each controller.

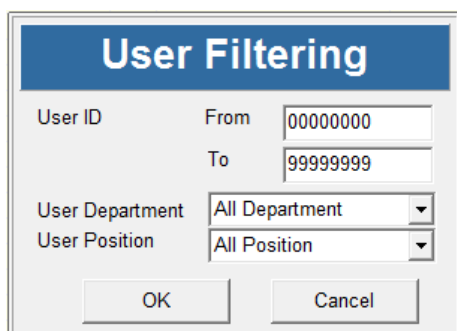
◆ Delete user: You can delete specified user in controller.

◆ Delete all user: You can delete all users in controller.

◆ Receive user: Receive fingerprint and card (you can select the check box) data through the controller and store it on database.

◆ Select all: you can select all controllers (users) with pressing this button.

◆ Filtering: For sending and receiving for the multiple users, you can specify the range of the user id and department or position.



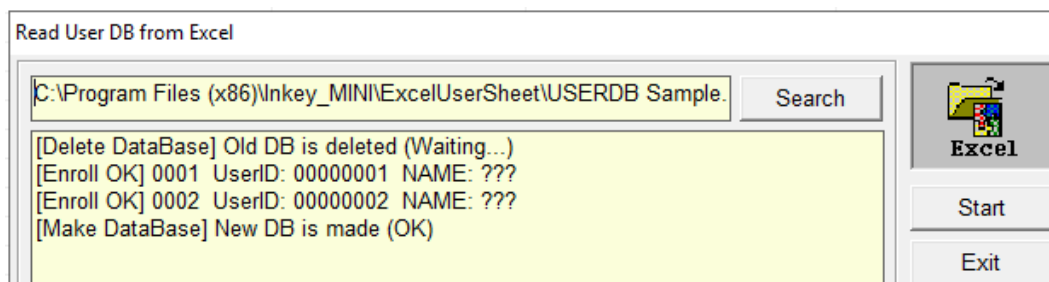
User Filtering

User ID From: 00000000
 To: 99999999

User Department: All Department

User Position: All Position

6.3 Read User DB from Excel

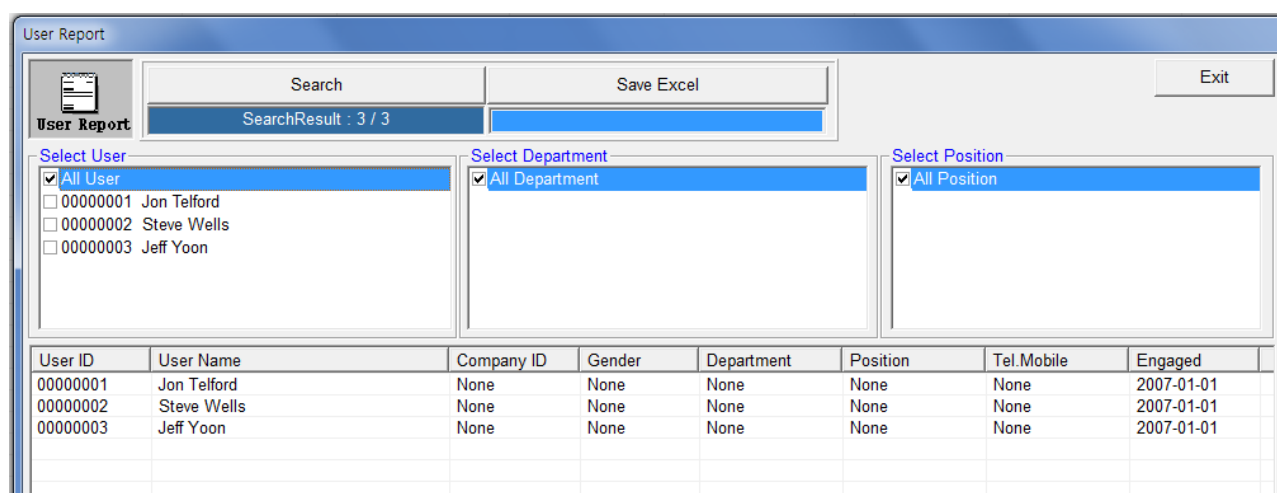


- ◆ Database from Excel: If a large number of users who have to be registered, Inkey_MINI support batch registering user with excel sheet.
- ◆ Inkey_MINI has default excel sample ("C:\Inkey_MINI\ExcelUserSheet\PLA_USERDB.xls")
You can open this excel and add many user's information.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	PLA-SF USER DATABASE														
2	Essential				Card			User Information						TimeZone	
3	User ID	First Name	Middle	Last	Type	Site	ID	Company-ID	Dept.	Position	Level	L-ID	L-Pass	Zone1	Zone2
4	1	Jon		Telford		100	101								
5	2	Steve		Wells		100	102								
6	3	Jeff		Yoon		100	103								
7															

- ◆ Search: you can select excel file
- ◆ Start: when you press start, all the database will be deleted first, and add user according to excel user sheet.

6.4 User Report



This is report of users who is registered in Inkey_MINI database.

- ◆ Select user/ Select Department/ Select position

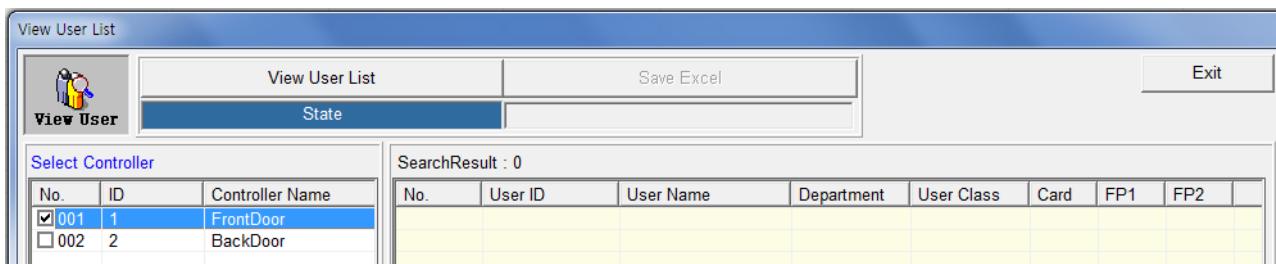
You can specify users who you want to reported.

- ◆ Save excel*

You can make excel file of the list.

Note *: this file will be saved in .csv after Excel will have to open a new sheet and from data get from text / csv and load the columns. Then save in Excel 97-2003.

6.5 View User List



You can get user list from a controller. These users are enrolled in controller actually.

◆ View user list

First you select one controller and press this button. You can get users who are enrolled in controller.

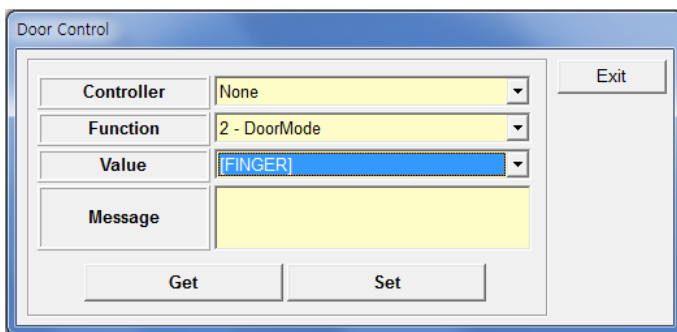
◆ Save excel*

You can make excel file of the list.

Note *: this file will be saved in .csv after Excel will have to open the file in a new sheet and load the columns. Then save in Excel 97-2003.

7. Controller

7.1 Door Control



Many of each controller's operation parameter can be set and modified.

◆ Door control

Maximum of 27 operation modes can be configured.

First you select the controller, and select the function you want, before press "Get", you have to input the value

◆ Description of each operation mode (Function)

Door Relay: Door relay status (Open/Close)

Door Mode: Access mode

Door Time: Lock open time (when granted, the during of door relay open)

Door Alarm: Door open bell

CD type: Wiegand output type

Re-access: Certification security

Cd2Fun: external reader function key

AlmRelayFun: external alarm functionkey (Relay)

AlmBuzzFun: external alarm function key (Buzzer)

AntiPass: AntiPass

Fire: fire surveillance/intrusion surveillance

IdSecret: ID security

Limit: entry restriction for specific time

Language: language

VoiceOut: select whether voice function to be used.

MachineID: controller address

Baudrate: Communication speed.

DeviceTime: Controller time

UserCount: Number of currently registered user IDs(including TEMP ID)

ManagerCount : Number of currently registered manager IDs

FpCount: No.of currently registered fingerprints

CardCount: No.of currently registered cards

SLogTotal: No.of currently recorded management logs

SLogRead: Current management record read position

GLogTotal: No.of currently recorded entrance records

GLogRead: Current entrance record read position

CurDoorMode: Current door mode

7.2 Holiday Setup

Holiday Setup

Holiday

Holiday Name: Christmas

Holiday Date: [Dropdown]

Buttons: Add, OK, Cancel

Holiday List:

	[Date/Month]	[Name]
<input checked="" type="checkbox"/>	01-01	New Year
<input checked="" type="checkbox"/>	25-12	Christmas

Buttons: Delete, Send

◆ Holiday input is used for the time-attendance and time-zone. After entering all holidays by repeatedly clicking “Add”, click the “Send” button to send this information to the controller for the time-zone access.

7.3 Time Zone Setup

TimeZone Setup

TimeZone No.: 01

TimeZone Name: AccessEnable TimePeriod - 1

Controller: 1(FrontDoor)

Weekday_Time

Weekday	Start Time	End Time
Holiday	오전 12:00:00	오후 11:59:59
Sunday	오전 12:00:00	오후 11:59:59
Monday	오전 12:00:00	오후 11:59:59
Tuesday	오전 12:00:00	오후 11:59:59
Wednesday	오전 12:00:00	오후 11:59:59
Thursday	오전 12:00:00	오후 11:59:59
Friday	오전 12:00:00	오후 11:59:59
Saturday	오전 12:00:00	오후 11:59:59

Buttons: Add, Edit, Delete, Update, Cancel, Send, View TimeZone, TimeZone Delete

Time-zone is used for the each user's access permitted time depend on weekday 24 hours.

◆ You can make time-zone number with name up to 254 type.

◆ The entrance time zone is entered by dividing 24 hours of a day according to the 'start time' and 'end time' for each weekday and is used to allow or restrict the user's entry during a specific time

- ◆ Set number and name of entry time and each day's start/end , select a controller then click 'Update' to send.
- ◆ You can view and delete the time-zone setting from each controller with "View Time-Zone" and "Time-Zone" Delete Button.

7.4 Special Function

- ◆ Day light: Day light is summer time and controller time has to be changed automatically as you set. After setting you can select controller and press "Send".

Special Function

Special Function

DayLight Door Mode Bell Time Auto Door Auto F-Key NoAct F-Key

Start of time martes , 17 de octubre de 15:10:00

Changed Time martes , 17 de octubre de 15:15:00

End of time martes , 17 de octubre de 3:20:00

Changed Time martes , 17 de octubre de 3:25:00

Save

Select Controller

No.	ID	Controller Name
<input type="checkbox"/> 001	1	1F Door

Select All 0 / 1

Send

DayLight

Functions

Exit

- ◆ Door Mode: This function is for the change controller's door mode automatically according to time.

Special Function

DayLight Door Mode Bell Time Auto Door Auto F-Key NoAct F-Key

Day Type Start Time End Time Door Mode

All Day	23	59	23	59	[Any]
All Day	23	59	23	59	[Any]
All Day	23	59	23	59	[Any]
All Day	23	59	23	59	[Any]
All Day	23	59	23	59	[Any]
All Day	23	59	23	59	[Any]
All Day	23	59	23	59	[Any]
All Day	23	59	23	59	[Any]
All Day	23	59	23	59	[Any]
All Day	23	59	23	59	[Any]

Save

◆ Bell Time: to control a bell connected to a relay so that the bell rings for a preset time

Special Function

DayLight			Door Mode			Bell Time			Auto Door			Auto F-Key			NoAct F-Key				
Day Type	Start Time	Time (Sec)	Day Type	Start Time	Time (Sec)	Day Type	Start Time	Time (Sec)	Day Type	Start Time	Time (Sec)	Day Type	Start Time	Time (Sec)	Day Type	Start Time	Time (Sec)		
All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254
All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254
All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254
All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254
All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254
All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254
All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254
All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254
All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254
All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254	All Day	23	59	254

Save

◆ Auto Door: Set the operation time interval of the automatic door's sensor if the automatic door is operated through a sensor. A maximum of 6 intervals can be set according to the following procedure.

Special Function

DayLight			Door Mode			Bell Time			Auto Door			Auto F-Key			NoAct F-Key		
Day Type	Start Time	End Time															
All Day	23	59	23	59													
All Day	23	59	23	59													
All Day	23	59	23	59													
All Day	23	59	23	59													
All Day	23	59	23	59													
All Day	23	59	23	59													

Save

◆ Auto F-Key: (not available)

◆ No Act F-Key: (not available)

8. Report

8.1 Event Report

◆ Event report: Searches events of controller that occurred during communication and saved to history. Searching is possible by each event user/controller/department/function key. Event list can be saved as a excel file.

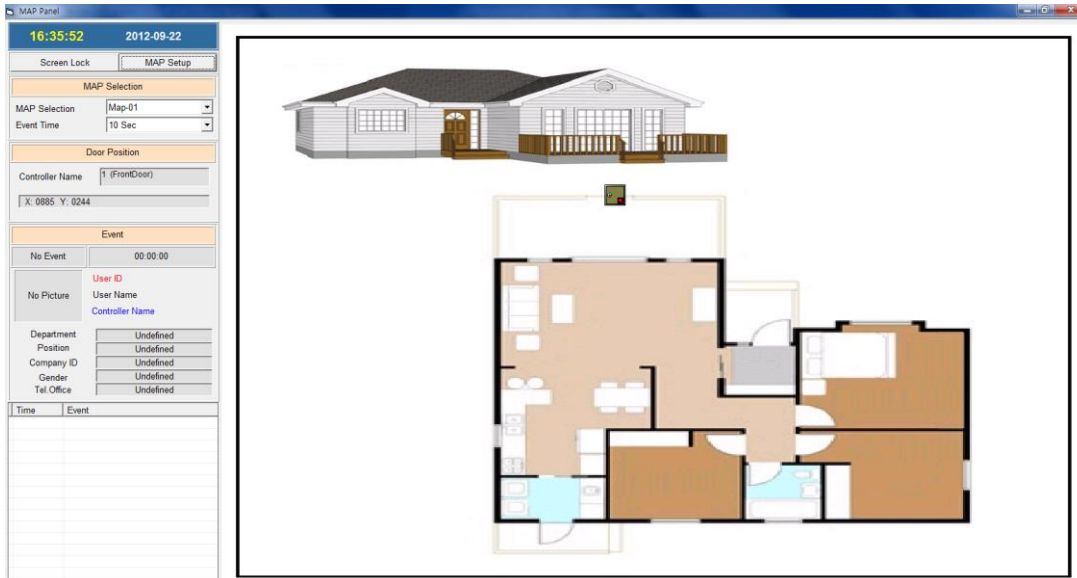
8.2 View Access

◆ View Access: Unlike the 'Event Output' function which loads data from the DB, this function loads the events of users granted access by the controller. Granted access list can be saved as a excel file.

◆ Check and Insert: Compare all granted event to history database. And if this event is not saved in history, this event will be saved history automatically.

9. Monitoring

9.1 MAP Panel

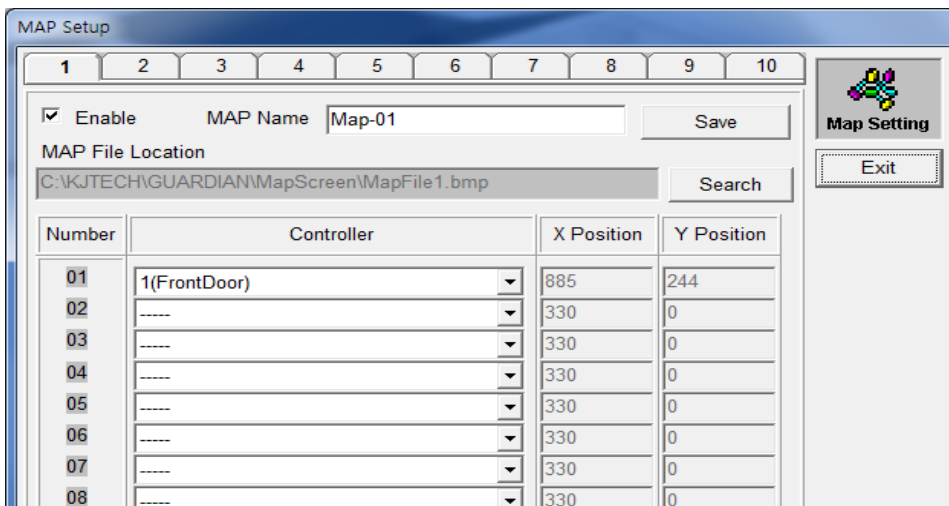


◆ Map Panel - Main Screen

The entry/ Exit status of users can be checked through the overall organization map. The map file (image file) has to be saved in the "Map-Screen" folder within the program folder.



Right click the entrance door set and search operation mode, events etc as below



◆ Map Setup

The maximum of map is 10

You can enable or disable each map and set each map's name.

You can select each map's image file with the "Search" Button.

Each map can have up to 20 controller's door.

You can adjust each door's x, y location by the drag & drop each door in main screen.

9.2 State Panel

◆ State Panel

You can check the communication status of each controller.

Door Mode: This means the user's access mode

Sensor: "open" or "close", the door sensor (contact sensor) status of each controller

No.	Controller Name	ID	IP Address	Port	Serial	Password	Door Mode	Sensor	Connection
1	FrontDoor	1	192.168.1.100	5005	----	0	----	----	Disconnected (Ping Impossible)
2	BackDoor	2	192.168.1.200	5005	----	0	----	----	Disconnected (Ping Impossible)

Communication Type: Tcp/IP

OK

9.3 User In/Out Panel

Building	Department	Room	IN/OUT	Date and Time	User ID (User Name, Department)
----	----	----	----	----	00000001 (Jon Telford, None)
----	----	----	----	----	00000002 (Steve Wells, None)
----	----	----	----	----	00000003 (Jeff Yoon, None)

Left sidebar shows a tree view of buildings (BLDG-1, BLDG-2) and their departments and rooms.

◆ User In/Out panel:

This is for the monitoring who is in building (or Department or Room).

Example) when fired, fireman wants to know, how many people are there and where?

If you click an items (tree view-left side),

Inkey_MINI will display the person who is in building (department or room)

The scanning will be done during some period automatically.

User In/Out Setup

Building

Department

Room

Total Building

2

Save

No.	Total Department	Building Name	Building IN		Building OUT	
1	2	BLDG-1	None	F1-0	None	F1-0
2	2	BLDG-2	None	F1-0	None	F1-0
3						

◆ User In/Out Setup

Inkey_MINI uses 3 layers concept. It's Building-Department-Room

Inkey_MINI can have up to 10 Buildings, and each building can have up to 10 departments, and

Each department can have up to 10 buildings.

For the In/Out monitoring, you have to use each controller for "in" and "out" separately.

You have to define the "In" or "Out" for each building and each department and each room separately (controller and function key.)

