LA5592 Home Automation Controller
OPERATING Manual

SAFETY

Before proceeding with the installation, please note the following safety warnings:
DO NOT connect the mains supply directly to the products, this will cause permanent damage to the products.
Control panel is for indoor use only. Avoid mounting location which can expose this product to splashing or dripping liquid.

Always follow the manufacturer's advice when using any tools power tools, ladder/steps,. using steps or ladders, and wear suitable protective equipment (e.g. safety goggles) when drilling holes, etc. The use of ear defenders are advisable when working in close proximity to the Control Panel's Siren when the front panel cover is removed due to the high sound level produced by it. Before drilling holes in walls, check for hidden electricity cables and water pipes. The use of a cable/pipe locator is advisable if in doubt. Batteries (battery pack or batteries installed) should not be exposed to excessive heat. Danger of damage to the unit may occur if battery is incorrectly replaced. Replace only with the same or equivalent type. (Do not mix batteries type).

IMPORTANT – **Please read this manual carefully, in full, before commencing Installation. You will find installation easier if you follow these steps in the sequence shown.**

Home Automation Controller

Table of Contents

Section 1 - Overview of System

The system integrates Security Alarm Function and Automation altogether to secure your home and allow home management by a simple easy-use Rotatable key. The system uses premium wireless technologies to secure your home with wireless alarm accessories, such as door and window switches, PIR motion detectors. And to connect your home electrical application. such as High Power Output Controller, Low Power Output Controller, Output Dimmer and IR Transmitter Providing a very cost effective automation solution

Home Automation Controller

The Home Automation Controller allows for complete configuration and programming.

1.1 - System Feature

- Simple Operate (LCD Display and one Rotatable key, two push button)
- Home Automation function
  - Remote Key, Light Sensor
  - Data device (include temperature data, barometrical data etc.)
  - Other Input device (distensible deivce)
- Alarm system function
  - Security (PIR, MS, 24Hr Tamper Zone)
- 16 wireless Input programmable devices
- 16 wireless output programmable devices
      Low Power Switch
      High Power Switch
      Switch Dimmer (Dimmer step 1-8)
      IR transmitter (A signal or B signal)
      Other Ouptut device (distensible device)
- Input and output device name programmable
- List all registered device
- 8 Output Group programmable, each group max up 5 output device
- Daily / Weekly Timer function operate (8 set of timer)
- 16 Matrix Action programmable
- 100 alarm events memory and 62 data events memory
- Non-volatile menory for protection of setup mode, event log and device name.

1.2 - Contents

- LA 5592 Home Automation controller
This is the heart of the system. It receives signals from input devices. Accepts input from a user and activates warning devices such as siren and strobe lights.
- Home Automation Controller (x 1)
- External DC adaptor (x 1)
- Instruction Manual (x 1)

OPTION Accessories :

- LA5155 Wireless Remote Key
Used for arming or disarming the system. In addition it is used for the panic function. (fitted with 3V CR2032 lithium coin cell)

- LA5157 Wireless Movement / Passive Infrared Detector (PIR)
The PIR uses Infra-Red technology to sense body heat of a moving person. One unit can cover an entire room.

- LA5158 Wireless Door/Window Contact Detector (MC)
Uses a magnetically operated switch to sense the opening/closing of door or window.

- LA5579 Wireless Siren
Gives audible and visual indication of an alarm condition.

- LA5594 Wireless High Power Switch
It enables remotely activation of any AC 220V~230V power socket. Turn lights on and off, motors, heaters etc.

- LA5595 Wireless Low Power Switch
It enables remotely switching of any 12V DC devices, such as lamps , cameras, door strikes and garage doors etc.

- LA5596 Wireless Dimmer Switch
It enables remotely switching of any lamps.

- LA5597 Wireless IR Transmitter
It can extend your existing remote control's operating range, regardless of which type of battery it requires. It will work with almost any remote control you'd like

- LA5598 Wireless Light Sensor
The wireless light sensor uses Ambient -light-sensor to sense Day or Night.

1.3 - Tools Required

- Large and small flat bladed screwdrivers
- Large and small cross-point screwdrivers
- Power drill
- Hammer
- 5mm, 8mm and 10mm masonry drill bits
- Sharp knife
- Wire cutters & wire stripper
- Ladder or other safe working platform

1.4 - Explanation of Terms

Zone – A logical area that is monitored by one detector.

Disarm – It is the normal state of the system when the house is occupied. Enter your four-digit user PIN code would return to OFF state.

Full Alarm (ARM state) – The controller will sound full alarm (internal siren) when it receives alarm signals.

Entry/Exit Zone – The controller recognize MC zone as entry and/or exit zone.

OK Beep – Rapid double tone; it indicates correct operation.

Error Beep – Long single tone; it indicates incorrect operation.

Section 2 – Installing your System

2.1 – Location of components

Home Automation Conroller– Location

In choosing a suitable location you should bear in mind:

- The need to reach the keypad easily, within the 99 seconds, when entering and leaving the premises, ideally passing only one detector.
- The CU should not be visible from the exterior of the protected premises.
- Reception of radio signals can be affected by the presence of metal objects within a few feet of the CU.   (E.g. mirrors, central heating radiators, garage doors and cars parked in garages on the opposite side of the wall.   Avoid any location which is near (within 60cm) to these or any other large metal objects.

Having chosen the location, do not mount at this stage.

Wireless Door/Window Contact Detector (MC) – Location

- These parts contain a radio transmitter and should not be sited near to large metal objects.
- Contains two parts.   The larger one (the actual detector) contains the batteries and the electronics.   The smaller part is simply a magnet inside.
- Designed to detect a door or window opening. The detector is usually mounted next to it on the door or window.   For optimum radio range, they should be mounted as high as possible.
- In most applications, it is fitted to the front door.
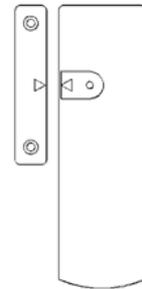
Having chosen the location, do not mount at this stage.

Wireless Movement / Passive Infrared Detector (PIR) – Location

- The detector should not be mounted near to large metal objects or on metal surfaces.   It needs to be mounted on a wall or in corner at a height of approximately 2-2.5 meters for the best general coverage in an average room.   The detector has been designed to avoid false alarms, nevertheless, it is best to avoid installing the unit where it is facing directly at sources of heat such as fires and boilers and always try to avoid facing at the window.   A PIR can look at a radiator but should not be sited above it.
- Do not site a PIR where its field of view may be obstructed (e.g. by curtains.)
Also, note that PIR works best when sensing a movement across rather than along their detection beams.
- Allowing for pets – The PIR senses moving body heat. In some cases, the movement of pets may also be
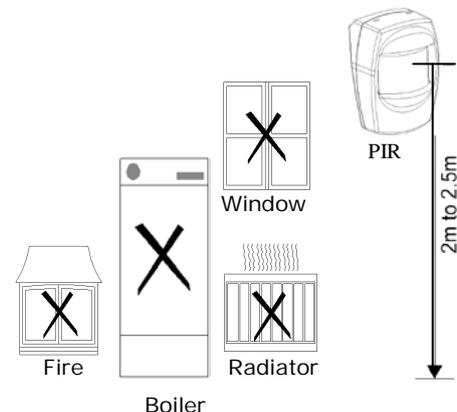
detected.   To overcome this it is recommended that the pets are kept in one specific room out of sight of a PIR when the system is armed.   If required, additional MC (available as accessories) can then be used to protect the doors and windows of the room

Having chosen the location, do not mount at this stage.

2.2 - Fixing the Control Panel

CAUTION: When positioning the control panel ensure that it is located in a dry place away from damp areas.

Step 1. Remove the backgraund cover(s) from the base assembly.
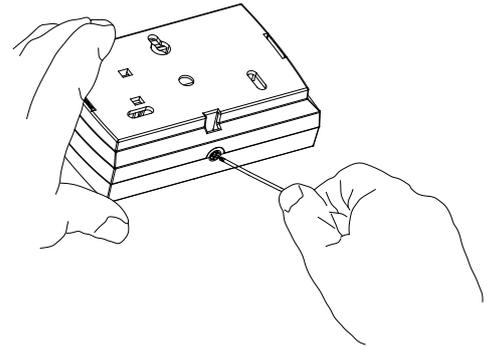
Step 2. Carefully remove the board by taking away screws at both edges

Mounting hole
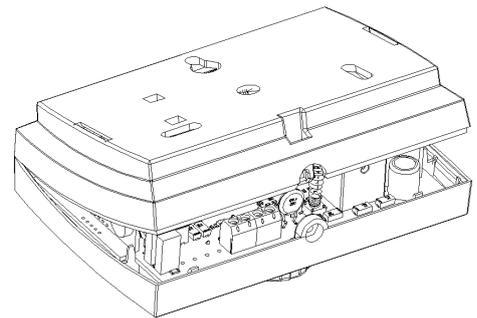
Step 3. Fit the panel to wall with suitable fixings.   Ensure the wall surface is flat to prevent base distortion. There are cable entry holes provided in the rear of the base and around the outside edges through the thinned out plastic sections which may be cut away as required.

Step 4. The hole provided adjacent to the mains transformer is
a dedicated mains cable entry point.

Cable Entry

2.3 - PCB

Blacklinght

	Press key back light on 10S
	Back light holding on

CP Tamper button
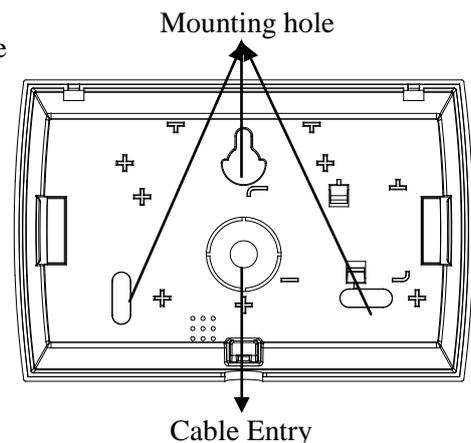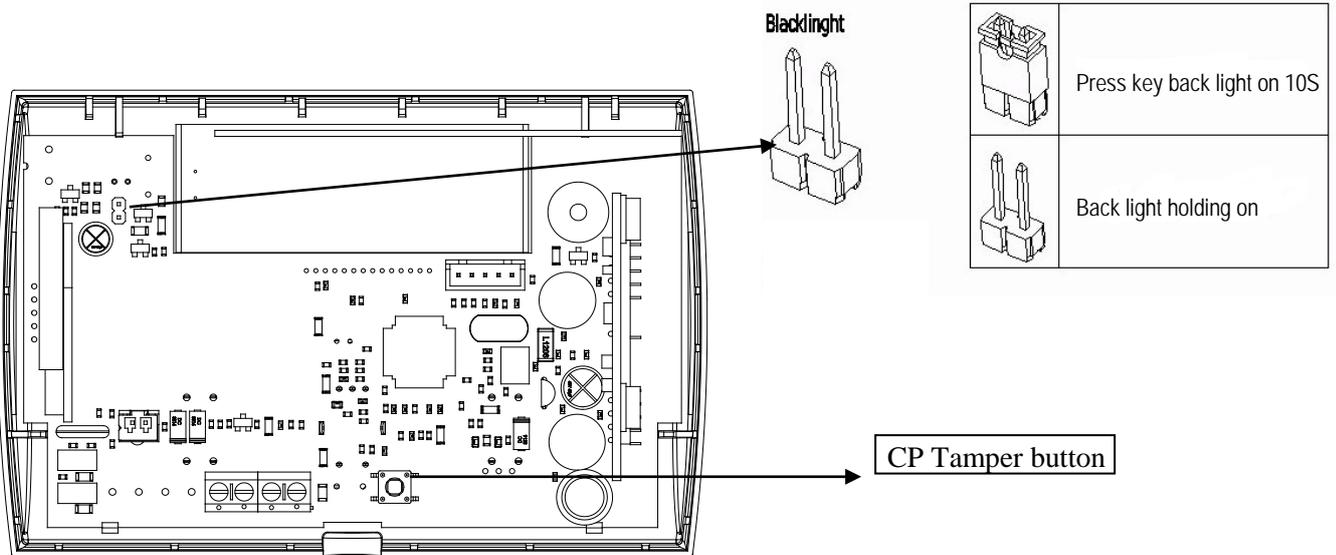
CAUTION: Always power-down the panel when wiring external circuits, to prevent damage to the panel electronics.

Systematically wire and test each circuit:

- Zone and Tamper circuit
- Finish by wiring any additional extension speaker sounders and the 13V supply.

2.4 - Extension speaker

Extension speaker may be connected to the loudspeaker terminals to produce high volume alarm tones.

External speaker connects to controller

Only one **PS226** extension speakers may be wired across the speaker terminals(Red to +and Black to -). Mounted in convenient positions within the installation the extension speakers will reproduce one of the alarm tones generated by itself.

Red

Black
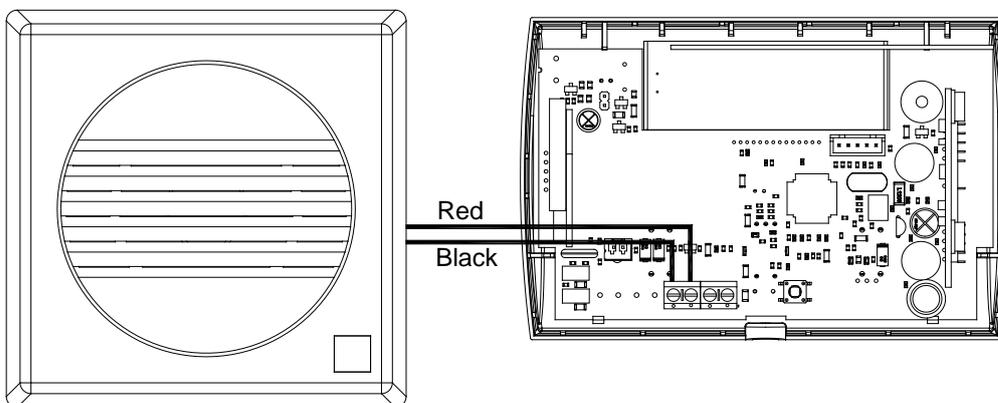
PS226 Extension Speaker

Section 3 – Factory Default Setting

System Time	08:00
System Date	01/01/13
Bell Time	10 Mins
User Pin	1234
Exit/Entry Time	30 Seconds

Input Device 1-16 Name	INN:Input NN
Input Device 1-16 Type	Security / Immediated Zone
Input Device 1-16 Enable	OFF

Output Device 1-16 Name	ONN:Output NN
Output Device 1-16 Type	Lower Power Switch
Output Device 1-16 Enable	OFF

Output Group1-8 Enable	OFF
Timer 1-8 Enable	OFF
Matrix Action 1-16 Enable	OFF

How to restore to factory default value

1. Power down Controller
2. Press and hold (RESET) & (ACTION) key which is on panel simultaneously
3. Power up, and hold keys, LCD will display current version

> **Home Automation**
> **Version: V1.40**

4. Wait for LCD will display Day Mode, about 5 seconds

> **08:00   01-Jan**
> **DAY**

5. OK beep sound hint restore success, release key

Section 4 - Mains Connection

The mains power should be connected using an AC/ DC Adaptor(AC230V/DC12V, 500mA).

NOTE: The mains supply must be connected by a technically competent person and according to current IEE regulations.

DC 12V

The guide line is positive
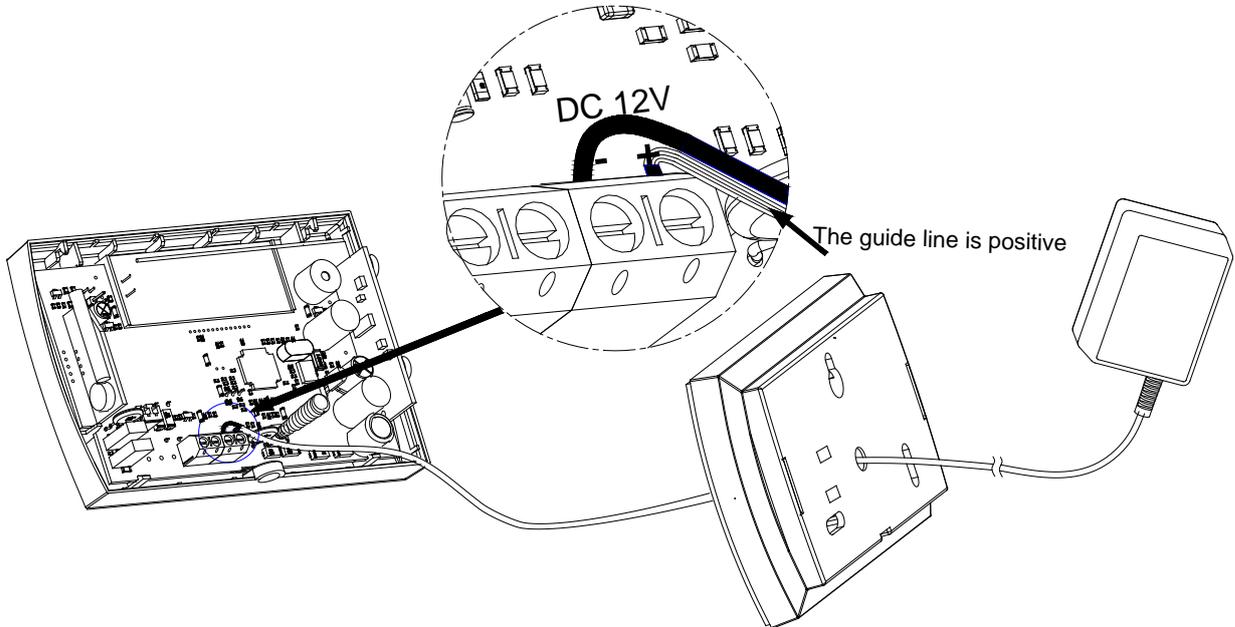
CAUTION: To avoid the risk of electrical shock you must always totally isolate the mains supply before opening the control panel cover(s).

On connecting the mains supply to the panel the power indicator is lit. ☀ Power

Testing the System

Complete the wiring of the system and then:

- Fully test the system and ensure it is fault free.
- Fully program the system.
- Fill in the installation log at the back of the manual and retain if for future reference.
- Finally explain the operation of the system to the end user.

Section 5 - First Power Up

Before power up, for Home Automation controller only – fit the top cover on to the base, connect the speaker wires. Leave the cover in position throughout the reset of the installation.

a. On connection the main power and battery, the system will go into alarm condition and Power led is indication.To silence and reset the alarm, please read page 40 Section 6.2.6.1.
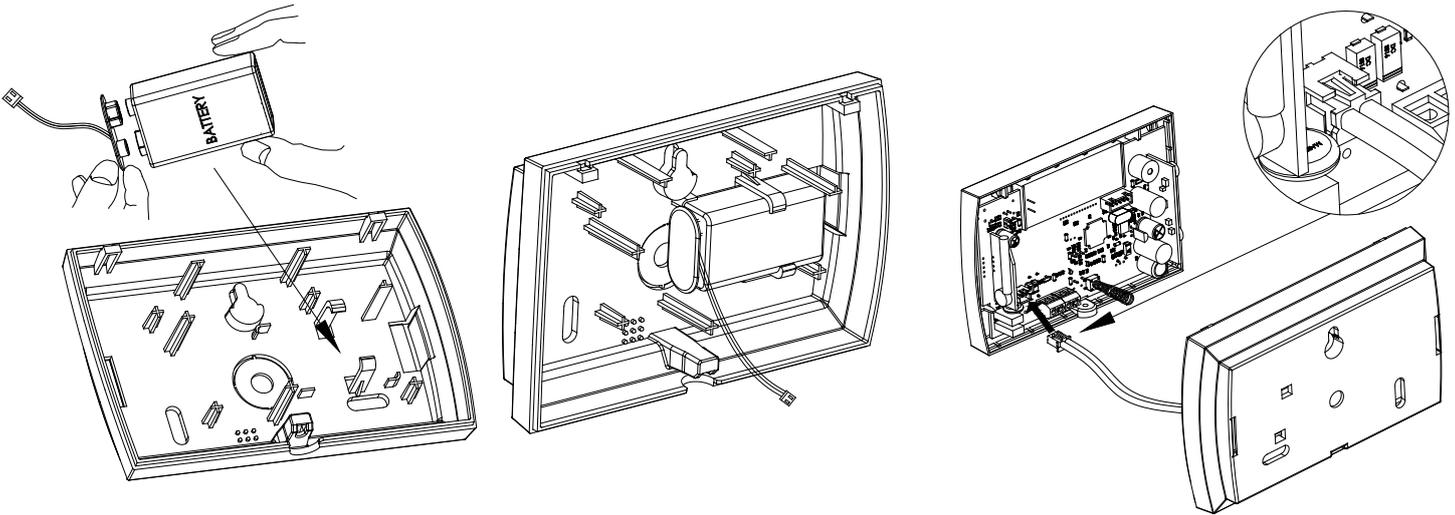
b. Fit the cover to hold down the tamper spring at the bottom right-hand of the board.
c. System work at day mode.

```
08:00      01-Jan
DAY
```

Section 6 – How to Set up the system

Menu Program Mode

The Controller may be programmed to suit a wide variety of installations.

Once the program mode has been accessed, each configuration may be changed in any command.

Before entering program mode the system should be in the Day mode.

The full menu structure for the panel can only be accessed while in master Program Mode. The structure is shown in the following table:

MENU OPTIONS		
Setup Mode	**Action Mode**	**Information Mode**
1 Setup System	1 Action Output Device	1 View Log
2 Setup Input Device	2 Action Output Group	2 List All Device
3 Setup Output Device	3 ARM	3 Test System
4 Setup Device Rename	4 Disarm	4 Panel Version
5 Setup Output Group		
6 Setup Timer		
7 Setup Matrix Action		

Operate the menu , KEY explain：			
	Press down **[SET]** key 1. Enter program Mode 2. Accept the change, return to the upper menu.	RESET	Press down **[RESET]** key Give up the change,return to the upper menu.
	Anticlockwise rotate **[SET]** key Previous Item of current menu	ACTION	1. Press down **[ACTION]** key Quick action selected Output Device 2. When edit text: . Move cursor to next position . Press 5s, it will clear the string
	Clockwise rotate **[SET]** key Posterior item of current menu		

Remarks :

1).It is recommended for each output device to be selected one time in Matrix Actions in order to avoid misoperation.

2).It is not recommended for IR Wireless Transmiiter to be used on device with ON/OFF toggle signal. (ie. A single button to turn on and off the device)

Home Automation Block Structure

SETUP

① Set Up System
- ① Set Time(HH:MM)
- ② Set Date(DD/MM/YY)
- ③ Bell Time (01~20 Mins)
- ④ Zone Delay Time (00-99 seconds)
- ⑤ Set User PIN — Enter Old PIN — Enter New PIN

② Set Up Input Device
- ① Input 1
- ② Input 2
- ③ Input 3
- ④ Input 4
- ⑤ Input 5
- ⑥ Input 6
- ⑦ Input 7
- ⑧ Input 8
- ...
- ⑯ Input 16

  - ① Device Type
    - ① Security zone
      - ① Immediated Zone
      - ② Follow Zone
      - ③ Delay Zone
      - ④ 24Hour Zone
    - ② Remote Key
    - ③ Data Device
    - ④ Other
  - ② Learn
  - ③ Enable — ON / OFF

③ Set Up Output device
- ① Output 1
- ② Output 2
- ③ Output 3
- ④ Output 4
- ⑤ Output 5
- ⑥ Output 6
- ⑦ Output 7
- ⑧ Output 8
- ...
- ⑯ Output 16

  - ① Device Type
    - ① Lower Power Switch (12V,24V etc)
    - ② High Power Switch (110V, 220V etc)
    - ③ Switch dimmer — Set Dimmer Step (1-8)
    - ④ Wireless Siren
    - ⑤ IR signal — A / B
    - ⑥ Other
  - ② Tx learn data
  - ③ Enable — ON / OFF

④ Device Rename
- ① Input device
  - ① I01:Input 1
  - ...
  - ⑯ I16:Input 16
- ② Output device
  - ① O01:Output 1
  - ...
  - ⑯ O16:Output 16

⑤ Set Up Output Group
- ① Group 1
- ② Group 2
- ③ Group 3
- ④ Group 4
- ⑤ Group 5
- ⑥ Group 6
- ⑦ Group 7
- ⑧ Group 8

  - ① Add Output device (max 5 devices) — Open / Close
  - ② Del Output device
  - ③ Enable — ON / OFF

⑥ Setup Timer
- ① Timer 1
- ② Timer 2
- ③ Timer 3
- ④ Timer 4
- ⑤ Timer 5
- ⑥ Timer 6
- ⑦ Timer 7
- ⑧ Timer 8

  - ① Select week
  - ② Set Timer Time (HH:MM)
  - ③ Select group item
  - ④ Enable — ON / OFF

⑦ Set up Matrix Action
- ① Matrix Action 1
- ② Matrix Action 2
- ③ Matrix Action 3
- ④ Matrix Action 4
- ⑤ Matrix Action 5
- ⑥ Matrix Action 6
- ⑦ Matrix Action 7
- ⑧ Matrix Action 8
- ...
- ⑯ Matrix Action 16

  - ① Add Input device (Max 3 devices)
  - ② Del Input device
  - ③ Add Output device (Max 3 devices) — Open — Output time(HH-MM) / Close
  - ④ Del Output device
  - ⑤ Enable — ON / OFF

ACTION
- ① Output Device — Select output device item (1-16) — Open / Close
- ② Output Group — Select group item (1-8)
- ③ ARM — Are you sure?
- ④ Disarm — Enter User Pin

INFO
- ① View Log
  - ① View Alarm event
  - ② View Data event — ▲ View previous event / ▼ View next event
  - ③ Clear all event log
- ② List All Device
- ③ Test System
  - ① Speaker Test
  - ② Output device Test
  - ③ Input device Test
- ④ Panel Version

Note:
Operate the menu , press

Button	Function
SET	1. Enter program Mode 2. Accept the change, return to the upper menu.
↺ SET	Previous Item of current menu
SET ↻	Posterior item of current menu
RESET	Give up the change, return to the upper menu.
ACTION	1. Quick action selected Output Device 2. When edit text, . Move Cursor to next position . Press 5s, will clear string

Example :

IR Transmmiter
Output Device 6(A) open
Output Device 7(B) close

Window   PIR   Window
                Input Device 2

dimmer lamp

Controller

Remote Key
Input Device 3

Low Power Switch
Output Device 5
LED Lamp

MC Door
Input Device 1

Hall Lamp

Wireless Siren
Output Device 8

Output Device 1   (High Power Switch)
Output Device 2,3,4   (Switch Dimmer）

Light Sensor
Input Device 4

Air-Control
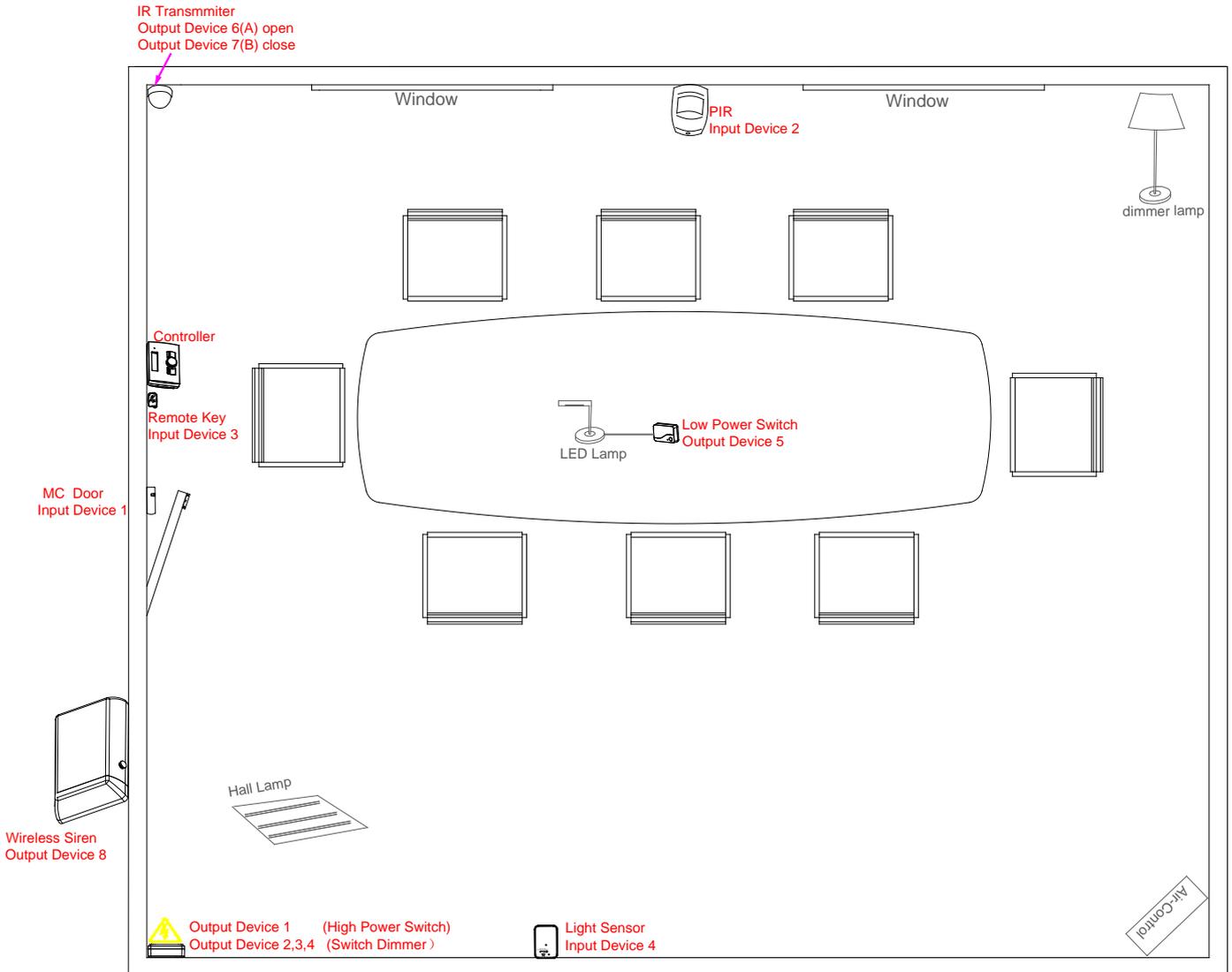
System Setup

User PIN	System Time	System Date	Bell Time	Zone Delay Time
1234	08:00	2013.10.25	10min	30s

Input Device (e.g. 4 input devices are learned into the system)

Device No	Device Name (editable)	Set Parameter	Remark (Location)
Input 1	F. DOOR	MC （Delay Zone）	Front Door
Input 2	WALL	PIR (Follow Zone)	Wall
Input 3	R. KEY	Remote Key (Remote Key)	
Input 4	WINDOW	Light Sensor (Other)	Window

Output Device (e.g. 8 output devices are learned into the system)

Device No	Device Name (editable)	Set Parameter	Remark (Location)
Output 1	H. LAMP	High Power Switch (On/Off)	Hall Lamp
Output 2	DIMLAMP-1	Dimmer level 1	Dimmer Lamp
Output 3	DIMLAMP-4	Dimmer level 4	Dimmer Lamp
Output 4	DIMLAMP-8	Dimmer level 5	Dimmer Lamp
Output 5	LEDLAMP	Low Power Switch (On/Off)	LED Lamp
Output 6	AIRCON-ON	IR A (Turn On)	Air Conditioner
Output 7	AIRCON-OFF	IR B (Turn off)	Air Conditioner
Output 8	WALL	Wireless Siren	Wall

Matrix Action

Matrix Action No	Input Device No	Output Device	
		Output Device No	Output Parameter (Action)
Matrix Action 1	I01: F. DOOR	O01: H. LAMP	Turn on Hall Lamp
		O02; DIMLAMP-1	Switch Dimmer to level 1
		O06: AIRCON-ON	Turn on Air-conditoner
Matrix Action 2	I02: WALL	O01: DIMLAMP-8	Switch Dimmer to level 8
Matrix Action 3	I04: WINDOW	O05; LEDLAMP	Turn on LED 15 minutes
Matrix Action 4	I03: R. KEY	O01: H. LAMP	Turn off Hall Lamp
		O02; DIMLAMP-1	Switch Dimmer to level 1
		O07: AIRCON-OFF	Turn off Air-conditoner

6.1-Operate SETUP menu

6.1.1- How to enter SETUP Program Mode

It is accessed directly from Day mode via press **[SET]** key

To operate the "**Enter SETUP operation menu**" as follow:

- Press **[SET]** key will go into Program Mode

- When cursor indicate SETUP, press **[SET]** key will go into SETUP program mode

```
08:00      01- Jan
DAY
```

```
08:00      01- Jan
SETUP   ACT   INFO
```

```
SETUP MENU
Setup System?
```

6.1.2- How to Setup System

The catalog of Setup system contains five parts. They are list as follow:

1= Set Time, 2=Set Date, 3=Bell Time, 4=Zone Delay Time, 5=Set User PIN

6.1.2.1 - How to Setup System Time

The time can be modified in hours, minutes in the format HH:MM. **[ACTION]** key will help you to select the bit that you want to write.

*   *Time and Date will be lost once the power supply from both main power and backup battery are cut*

e.g. Change the system time to 12:02
Under SETUP operate menu (refer to page 18, section 6.1.1)

・Rotate **[SET]** key to select **Setup System**
 and press **[SET]** key go into **Setup System** function.

```
SETUP MENU
Setup System?
```

・Rotate **[SET]** key to select **Set Time?**
 and press **[SET]** key go into **Set Time** function.

```
SETUP SYSTEM
Set Time?
```

・Rotate **[SET]** key will change cursor position value.

```
Set Time HH:MM
18:00
```

・Press**[ACTION]** key will change cursor position into next input.

```
Set Time HH:MM
18:00
```

・Change system time to 12:02.

```
Set Time HH:MM
12:02
```

・Press**[SET]** key to save it and clear second time,
or press **[RESET]** key to cancel, it will exit and go to "**Set Date**".

```
SETUP SYSTEM
Set Date?
```

6.1.2.2 - How to Setup System Date

Before you set the date, you select day for the date that you want to set. Using rotate **[SET]** key to change day, pressing **[SET]** key to save, pressing **[RESET]** key to not change. The date can be changed in day, month, year format DD/MM/YY. The method of set date is the same as how to set time.

e.g. Set system date: Wednesday, 28-08-2013
Under SETUP operate menu   (refer to page 18, section 6.1.1)
・Rotate **[SET]** key to select **Setup System**

| SETUP MENU |
| Setup System? |

・Press **[SET]** key go into **Setup System** function.

| SETUP SYSTEM |
| Set Time? |

・Rotate **[SET]** key to select **Set Date?**
  and press **[SET]** key go into **Set Date** function.

| SETUP SYSTEM |
| Set Date? |

・Rotate **[SET]** key will select a week day Wednesday.
  and press **[SET]** to accept

| SELECT DAY |
| Wednesday? |

・Enter system date: Day/Mon/Year

| Date: DD/MM/YY |
| 01/01/13 |

・Change system date 28-08-13 .
  Rotate **[SET]** key will change cursor position value.
  Press**[ACTION]** key will change cursor position into next input.

| Date: DD/MM/YY |
| 28/08/1<u>3</u> |

・Press **[SET]** key to save it, or press **[RESET]** key to cancel,
  it will exit and go to "**Bell Time**".

| SETUP SYSTEM |
| Bell Time? |

6.1.2.3 - How to Setup Bell Time

This is the duration that the external bell output is active. The range is 01-20 minutes. The default is 10 minutes.

e.g. Change the **Bell Time** from 10 to 15 minutes.
Under SETUP operate menu   (refer to page 18, section 6.1.1)
・Rotate **[SET]** key to select **Setup System**

| SETUP MENU |
| Setup System? |

・Press **[SET]** key go into **Setup System** function.

| SETUP SYSTEM |
| Set Time? |

・Rotate **[SET]** key to select **Bell Time?**

| SETUP SYSTEM |
| Bell Time? |

・Press **[SET]** key to accept. Display current Bell time number.

> **Bell Time:MM**
> ? **10**

The time range is 01-20.
・Press**[ACTION]** key will change cursor position into next input.

> **Bell Time:MM**
> ? **10**

・Rotate **[SET]** key to change cursor position char '5'

> **Bell Time:MM**
> ? **15**

・Press **[SET]** key to save it, or press **[RESET]** key to cancel,
  it will exit and go to "Zone Delay Time".

> **SETUP SYSTEM**
> **ZoneDelayTime?**

6.1.2.4- How to set Zone Delay Time function

This is the time allowed to leave the premises via the exit route before the system sets, and allowed to enter the premises via the entry route and unset the system. The programmable range is 00-99 seconds.

If the exit route is interrupted with the last 10 seconds, then the delay time will restart at 10 seconds after the interruption has cleared.

The default is 30 seconds.

e.g. Change the **Zone Delay Time** from 30 to 40 seconds.

Under SETUP operate menu   (refer to page 18, section 6.1.1)

・Rotate **[SET]** key to select **Setup System**

> **SETUP MENU**
> **Setup System?**

・Press **[SET]** key go into **Setup System** function.

> **SETUP SYSTEM**
> **Set Time?**

・Rotate **[SET]** key to select **ZoneDelayTime?**

> **SETUP SYSTEM**
> **ZoneDelayTime?**

・Press **[SET]** key to accept. Display current zone delay time number.
  The time range is 00-99

> **ZoneDelayTime:SS**
> ? **30**

・Rotate **[SET]** key to change cursor position char '4'

> **ZoneDelayTime:SS**
> ? **40**

・Press **[SET]** key to save it, or press **[RESET]** key to cancel,
  it will exit and go to "Set User PIN".

> **SETUP SYSTEM**
> **Set User PIN?**

6.1.2.5 - How to change User Code

The user code for Unsetting, The default is [1] [2] [3] [4].

e.g. Change the user code to [0][1][2][3]

Under SETUP operate menu   (refer to page 18, section 6.1.1)

・Rotate **[SET]** key to select **Setup System**

```
SETUP MENU
Setup System?
```

・Press **[SET]** key go into **Setup System** function.

```
SETUP SYSTEM
Set Time?
```

・Rotate **[SET]** key to select **Set User PIN?**

```
SETUP SYSTEM
Set User PIN?
```

・Press **[SET]** key go into **Enter Old Pin** function.

```
Enter Old Pin
****
```

・Input 4-digit, rotate **[SET]** key will change cursor position value.
 Press**[ACTION]** key will change cursor position into next input.
 press **[SET]** key to accept

```
Enter Old Pin
1234
```

・If old pin is ok, it will go into "Enter New Pin".

```
Enter New Pin
****
```

・Input new user pin: [0] [1] [2] [3]
 Rotate **[SET]** key will change cursor position value.
 Press**[ACTION]** key will change cursor position into next input.

```
Enter New Pin
0123
```

・Press **[SET]** key to save it, or press **[RESET]** key to cancel,
 it will exit and go to "Input Device".

```
SETUP MENU
Input Device?
```

Note: if you input old pin is error, the error tone will be generated, and again enter old pin windows, if 6 times error, the system will go into code tamper alarm condition

6.1.3- How to Setup Input Device

The catalog of Setup Input Device contains 16th devices, each device contains three parts. They are list as follow:

1= Device Type, 2=Learn In_Device, 3=Enable

6.1.3.1 - How to Setup Input Device type

There are 4 types for input device: 1=Security Zone, 2=Remote Key, 3=Data Device, 4=Other

Security:

> The system comes supplied with service links fitted to the zone terminals to simulate a closed circuit. As each zone is connected these links should be removed. All zone are fully programmable.

- **Immediate Zone:**
  Use this function when the zone is not part of an entry/exit route. When the system is **SET**, activation of an immediate zone will cause a full alarm condition.

- **Delay Zone (Timed Zone):**
  A time zone would be used to protect an entry/exit route. Opening the door or triggering the sensor in this type of zone when the system is **SET** will start the entry timer.

- **Follow Zone (Inhibited Zone):**
  A time-inhibited zone operates as an immediate zone unless a timed zone has been operated and a timer started. Such a zone should be utilized to allow passage between the entry/exit door and the keypad when there are detectors present.

- **24Hour Zone /Tamper Zone:**
  Provides 24 hour monitoring.

Remote Key:

> Wireless remote key which is learnt to the controller may control cp to be Arm mode and day mode.

Data Device:

> It include temperature sensor, humidometer sensor etc.
> Note: Power up the wireless data device and learning to the controller

Other Input Device:

Wireless light sensor select Other input device type, If MS, PIR or Remote Key set other input device type, it will only use for Matrix Action Input condition.

To operate the Setup Input Device Type as follow:

e.g. Setup input device 5 type to 24 hour zone

Under SETUP operate menu   (refer to page 18, section 6.1.1)

・Rotate **[SET]** key to select **Input Device**

```
SETUP MENU
Input Device?
```

・Press **[SET]** key go into **Input Device** function.

```
INPUT DEVICE
Input 1?
```

· Rotate **[SET]** key to select **Input 5?**
  and press **[SET]** key go into setup input device 5 function.

> **INPUT DEVICE**
> **Input 5?**

· Rotate **[SET]** key to select **Device Type?**
  and press **[SET]** key go into **Input Device Type** function.

> **Input Device**
> **Device Type?**

· Press**[SET]** key to select Security Zone type,
  and press **[SET]** key go into **Zone Attribute** function

> **Device Type**
> **Security Zone?**

Note: If system generate an error tone ,please go into Input Device/Enable, set OFF

· Rotate **[SET]** key to select **24 Hour Zone** attribute

> **Zone Attribute**
> **24 Hour Zone**

· Press **[SET]** key to save it, or press **[RESET]** key to cancel,
  it will exit and go to "Learn In_Device".

> **Input Device**
> **Learn In_Device?**

6.1.3.2 - How to Learn a Input Device

e.g. Learn a PIR to Input Device 5 (type is 24 hour zone)
  If the wireless input device have been learnt into the system, it can not be learnt again.
Under SETUP operate menu   (refer to page 18, section 6.1.1)

· Rotate **[SET]** key to select **Input Device**

> **SETUP MENU**
> **Input Device?**

· Press **[SET]** key go into **Input Device** function.

> **INPUT DEVICE**
> **Input 1?**

· Rotate **[SET]** key to select **Input 5?**
  and press **[SET]** key go into setup input device 5 function.

> **INPUT DEVICE**
> **Input 5?**

· Rotate **[SET]** key to select **Learn In_Device?**

> **Input Device**
> **Learn In_Device?**

· Press **[SET]** key go into **Learning…** status.
 Trigger the wireless device within 10seconds ensuring it is kept
 at least 0.5m away from the Controller.

> **Learn In_Device**
> **Learning…**

· Trigger the PIR detector by simply moving your hand in
 front of the detector

· Learn OK, Controller will generate an OK tone,
  it will exit and go into **Enable** function

> **Input Device**
> **Enable?**

6.1.3.3 - How to Enable or Delete a Input Device

e.g. Enable or delete Input Device 5

If the input device 5 has not been learnt before, it will not be able to selecte Enable Work / ON item

Under SETUP operate menu   (refer to page 18, section 6.1.1)

· Rotate **[SET]** key to select **Input Device**

· Press **[SET]** key go into **Input Device** function.

· Rotate **[SET]** key to select **Input 5?**
  and press **[SET]** key go into setup input device 5 function.

· Rotate **[SET]** key to select **Enable ?**
  and press **[SET]** key go into **Enable Work** function.

· Display current Enable status

· Rotate **[SET]** key to select ON,and press **[SET]** key to accept,
  it will enable Input Device 5 work

· Set Enable Work/ OFF, If the wireless device have been
  learnt into the system, It will clear input device 5 ID

· System generate an OK tone, it will exit and go
into next Input Device

| SETUP MENU |
| Input Device? |

| INPUT DEVICE |
| Input 1? |

| INPUT DEVICE |
| Input 5? |

| Input Device |
| Enable? |

| Enable Work |
| OFF? |

| Enable Work |
| ON? |

| Enable Work |
| OFF? |

| INPUT DEVICE |
| Input 6? |

6.1.4- How to Setup Output Device

The catalog of Setup Output Device contains 16th devices, each device contains three parts. They are list as follow:

1= Device Type, 2=Tx learn data, 3=Enable

6.1.4.1 - How to Setup Output Device type

There are 6 types for output device: 1=Low Power Switch, 2=High Power Switch, 3=Switch Dimmer, 4=Wireless Siren, 5=IR Signal, 6=Other

Low Power Switch:
It enables remotely switching of any 12V DC devices, such as lamps , cameras, door strikes and garage doors etc. wirelessly via Home Automation Controller.

High Power Switch:
It enables remotely activation of any 240VAC power socket. Turn lights on and off, motors, heaters etc. wirelessly via Home Automation Controller.

Switch Dimmer:
It enables remotely switching of any lamps , electric fan etc. wirelessly via Home Automation Controller.

IR transmitter:
It can extend your existing remote control's operating range, regardless of which type of battery it requires. It will work with almost any remote control you'd like

Wireless Siren:
Gives audible and visual indication of an alarm condition.

Other Output Device:
The type for augmentability output device

To operate the Setup Output Device Type as follow:
e.g. Setup Output device 1 type to High Power Switch
Under SETUP operate menu   (refer to page 18, section 6.1.1)

・Rotate **[SET]** key to select **Output Device?**

| SETUP MENU |
| Output Device? |

・Press **[SET]** key go into **Output Device** function.

| OUTPUT DEVICE |
| Output 1? |

・Press **[SET]** key go into setup output device 1 function.
  Rotate **[SET]** key to select **Device Type?**

| Output Device |
| Device Type? |

・Press **[SET]** key go into **Output Device Type** function.
  LCD display current output device type

| Device Type |
| Lower Power SW? |

• Rotate **[SET]** key to select **High Power SW** type,

> **Device Type**
> **High Power SW?**

• Press **[SET]** key to save it, or press **[RESET]** key to cancel,
  it will exit and go to "Tx Learn Data".

> **Output Device**
> **Tx Learn Data?**

Note: Please select the output device matching type

6.1.4.2 - How to Learn a Output Device

e.g. Learn a High Power Switch to Output Device 1
Under SETUP operate menu   (refer to page 18, section 6.1.1)

• Rotate **[SET]** key to select **Output Device?**

> **SETUP MENU**
> **Output Device?**

• Press **[SET]** key go into **Output Device** function.

> **OUTPUT DEVICE**
> **Output 1?**

• Press **[SET]** key go into setup output device 1 function.

> **Output Device**
> **Device Type?**

• Rotate **[SET]** key to select **Tx Learn Data?**

> **Output Device**
> **Tx Learn Data?**

• Ready wireless High Power Switch , and it go into learn mode, as follow:
  1) Powering up the High Power Switch, (Green LED is ON)

Led on green

  2) Press and hold 5 seconds , power switch go into learn mode,
      the red led is flashing, within 15 seconds no data it will auto
      exit and return last time work mode, learn ok will auto exit.

Led flash red

>5s

Note: Learn OK, ensuring the power switch work in automation mode (Green LED is ON)

• Press **[SET]** key within 15 seconds, Controller will
  tx learn data to output device

> **Tx Learn Data**
> **to output device**

• System will automation exit after 15 seconds,
  and go into **Enable** function

> **Output Device**
> **Enable?**

6.1.4.3 - How to Enable or Disable a Output Device

e.g. Enable or Disable Output Device 5
Under SETUP operate menu   (refer to page 18, section 6.1.1)

• Rotate **[SET]** key to select **Output Device?**

> **SETUP MENU**
> **Output Device?**

· Press **[SET]** key go into **Output Device** function.

> **OUTPUT DEVICE**
> **Output 1?**

· Press **[SET]** key go into setup Output device 1 function.

> **Output Device**
> **Device Type?**

· Rotate **[SET]** key to select **Enable ?**
  and press **[SET]** key go into **Enable Work** function.

> **Output Device**
> **Enable?**

· Display current Enable stauts

> **Enable Work**
> **OFF?**

· Rotate **[SET]** key to select ON,and press **[SET]** key to accept,
  it will enable Output Device 5 work

  If set OFF, system will disable the output device 5

> **Enable Work**
> **ON?**

> **Enable Work**
> **OFF?**

· System generate an OK tone, it will exit and go
into next Output Device

> **OUTPUT DEVICE**
> **Output 2?**

6.1.5- How to Rename a device

The catalog of Device Rename contains second parts. They are list as follow:
1= Input Device, 2=Output Device,
And each parts contains current valid input or output devices

To operate the Rename Device Type as follow:
e.g. Update input device 1 name to *FRONT DOOR1*
Under SETUP operate menu   (refer to page 18, section 6.1.1)

· Rotate **[SET]** key to select **Rename Device?**

> **SETUP MENU**
> **Rename Device?**

· Press **[SET]** key go into **Rename Device** function.

> **Device Rename**
> **Input Device?**

· Rotate **[SET]** key to select **Input Device?**
  and press **[SET]** key go into rename input device function.

> **Input Device**
> **I01:Input 1?**

· Press **[SET]** key go into rename of **Input Device 1**
  Current display the input device name, current is default name
  and cursor at last position.

> **Device Rename**
> **I01:Input 1_**

- Press [ACTION] key for 3s, it will clear name string,
  and cursor move to fifth char position

> **Device Rename**
> **I01:_**

- Rotate **[SET]** key to change cursor position char 'F',
  char order is '*A*', '*B*' ~ '*Z*', '*0*', '*1*' ~ '*9*' , '*_*', '*"*', ' ', ';' , '.'

> **Device Rename**
> **I01:F**

  - Press [ACTION] key will move cursor to next position

> **Device Rename**
> **I01:F_**

- Rotate **[SET]** key to change cursor position char 'R',
  And press [ACTION] key will move cursor to next position

> **Device Rename**
> **I01:FR_**

- Input "FRONT DEOR 1" string.
  Name string max 12 char

> **Device Rename**
> **I01:FRONT DEOR1**

- Update D**E**OR to D**O**OR
  Press **[ACTION]** key move cursor to **E** position

> **Device Rename**
> **I01:FRONT DEOR1**

- Rotate **[SET]** key to change cursor position char 'O',
  char order is '*A*', '*B*' ~ '*Z*', '*0*', '*1*' ~ '*9*' , '*_*', '*"*', ' ', ';' , '.'

> **Device Rename**
> **I01:FRONT DOOR1**

- Press **[SET]** key to accept input and save the text,
  or Press **[RESET]** key will exit without change to the text.

> **Input Device**
> **I02:Input 2?**

6.1.6- How to Setup Output Group

8 Output Group programmable, each group max up 5 output device, output device option open and close.

Each group contains three parts. They are list as follow:

1= Add Output Device, 2=Del Output Device, 3=Enable

6.1.6.1 - How to add a output device to output group

e.g. Output device 1 open status add to group 1,

Output device 1 name is : LED LAMP, Output device 2 name is AIR CONTROL

Under SETUP operate menu (refer to page 18, section 6.1.1)

- Rotate **[SET]** key to select **Output Group?**
  and press **[SET]** key go into **Output Group** function.

> **SETUP MENU**
> **Output Group?**

- Rotate **[SET]** key to select **Group 1?**
  and press **[SET]** key go into setup output group 1 function.

> **OUTPUT GROUP**
> **Group 1?**

- Rotate **[SET]** key to select **Add Out_device?**

> **Output Group**
> **Add Out_device?**

and press **[SET]** key go into **group Add Out_device** function.

· Rotate **[SET]** key will display current valid output device
  Press **[SET]** key to will add the output device, and go into select
  the output device status

> **Add Out_device**
> **O01:LED LAMP?**

· Rotate **[SET]** key to select the output device status

> **Output Device**
> **Open?**

· Press **[SET]** key to save it, or press **[RESET]** key to cancel,
  it will exit and go to add next output device.

· Each group max up 5 output device, if full will display:

> **Add Out_device**
> **O02:AIR CONTROL?**

> **Add Out_device**
> **Over the mark!!**

· Press any key it will go into to "Del Out_devce".

> **Output Group**
> **Del Out_device?**

6.1.6.2 - How to delete a output device to output group

e.g. Del output device 1 from Group 1
Under SETUP operate menu (refer to page 18, section 6.1.1)

· Rotate **[SET]** key to select **Output Group?**
  and press **[SET]** key go into **Output Group** function.

> **SETUP MENU**
> **Output Group?**

· Rotate **[SET]** key to select **Group 1?**
  and press **[SET]** key go into setup output group 1 function.

> **OUTPUT GROUP**
> **Group 1?**

· Rotate **[SET]** key to select **Del Out_device?**
  and press **[SET]** key go into **group Del Out_device** function.

> **Output Group**
> **Del Out_device?**

· Rotate **[SET]** key will display current valid output device

> **Del Out_device**
> **O01:LED LAMP?**

· Press **[SET]** key to will delete the output device, and go into delete
  next output device option

> **Del Out_device**
> **O02:AIR CONTROL?**

· Press **[RESET]** key to will exit and go to setup enable the group

> **Output Group**
> **Enable?**

· If the output group is empty,(none add output device),
  it will display "Empty!!"
  Press any key it will exit and go to setup enable the group.

> **Del Out_device**
> **Empty!!**

6.1.6.3 - How to Enable or Disable a Output Group

 e.g. Enable or Disable Output Group 1
Under SETUP operate menu
- Rotate **[SET]** key to select **Output Group?**
  and press **[SET]** key go into Output Group function.

| SETUP MENU |
| Output Group? |

- Rotate **[SET]** key to select **Group 1?**
  and press **[SET]** key go into setup Output Group 1 function.

| OUTPUT DEVICE |
| Group 1? |

- Rotate **[SET]** key to select **Enable ?**
  and press **[SET]** key go into Enable Work function.

| Output Group |
| Enable? |

- Display current Enable stauts

| Enable Work |
| OFF? |

- Rotate **[SET]** key to select ON,and press **[SET]** key to accept,
  it will enable Output Group 1 work

| Enable Work |
| ON? |

   If set OFF, system will disable the output group 1

| Enable Work |
| OFF? |

 - System generate an OK tone, it will exit and go
into next Output Group

| OUTPUT GROUP |
| Group 2? |

6.1.7- How to Setup Timer

The Controller contains eigth timers, each timer contains four parts. They are list as follow:
1= Select Week, 2= Set Timer Time, 3= Select Group Item, 4=Enable

6.1.7.1 - How to select timer week

Under SETUP operate menu (refer to page 18, section 6.1.1)

・Rotate **[SET]** key to select **Timer?**
　and press **[SET]** key go into **Timer** function.

> **SETUP MENU**
> **Timer?**

・Rotate **[SET]** key to select **Timer N?**
　and press **[SET]** key go into setup Timer N function.

> **TIMER**
> **Timer 1?**

・Rotate **[SET]** key to select **Select Week?**
　and press **[SET]** key go into timer select week function.

> **Timer**
> **Select Week?**

・e.g. setup sunday and saturday at the timer
　Display current valid days of the timer week
　'S' -> Sunday, 'M'-> Monday, …'S'->Saturday

> **Timer:Week**
> ▉

・Rotate **[SET]** key will change current day status
　'S' indicate sunday is valid at the timer

> **Timer:Week**
> S

・Press **[ACTION]** key 5 times will change move cursor to'F'
　Rotate **[SET]** key will display 'F', Friday is valid at the timer

> **Timer:Week**
> S　　　　　　　F

・Press **[SET]** key to save it, or press **[RESET]** key to cancel,
　it will exit and go to set timer time.

> **Timer**
> **Set timer time?**

6.1.7.2 - How to set time of timer

Under SETUP operate menu (refer to page 18, section 6.1.1)

・Rotate **[SET]** key to select **Timer?**
　and press **[SET]** key go into **Timer** function.

> **SETUP MENU**
> **Timer?**

・Rotate **[SET]** key to select **Timer N?**
　and press **[SET]** key go into setup Timer N function.

> **TIMER**
> **Timer 1?**

・Rotate **[SET]** key to select **Set Timer Time?**
　and press **[SET]** key go into set timer time .

> **Timer**
> **Set Timer Time?**

・Display current time at the timer
　Rotate **[SET]** key will change cursor position value.

> **Set Time HH:MM**
> <u>1</u>8:00

・Press**[ACTION]** key will chage cursor position into next input.

> **Set Time HH:MM**
> **18:00**

・Change the timer time to 12:02.

> **Set Time HH:MM**
> **12:02**

・Press**[SET]** key to save it or press **[RESET]** key to cancel,
  it will exit and go to Select Group Item.

> **Timer**
> **Sel Group Item?**

6.1.7.3 - How to Select Group Item of timer

Under SETUP operate menu (refer to page 18, section 6.1.1)

・Rotate **[SET]** key to select **Timer?**
  and press **[SET]** key go into **Timer** function.

> **SETUP MENU**
> **Timer?**

・Rotate **[SET]** key to select **Timer N?**
  and press **[SET]** key go into setup Timer N function.

> **TIMER**
> **Timer 1?**

・Rotate **[SET]** key to select **Sel Group Item?**
  and press **[SET]** key go into select group item .

> **Timer**
> **Sel Group Item?**

・Display current group item at the timer
  Rotate **[SET]** key to select a output group.

> **Sel Out_Group**
> **Group 2?**

・Press**[SET]** key to save it or press **[RESET]** key to cancel,
  it will exit and go to enable the timer.

> **Timer**
> **Enable?**

6.1.7.4 - How to Enable or Disable a Timer

Under SETUP operate menu (refer to page 18, section 6.1.1)

・Rotate **[SET]** key to select **Timer?**
  and press **[SET]** key go into **Timer** function.

> **SETUP MENU**
> **Timer?**

・Rotate **[SET]** key to select **Timer 1?**
  and press **[SET]** key go into setup Timer 1 function.

> **TIMER**
> **Timer 1?**

・Rotate **[SET]** key to select **Enable ?**
  and press **[SET]** key go into **Enable Work** function.

> **Output Group**
> **Enable?**

・Display current Enable stauts

> **Enable Work**
> **OFF?**

・Rotate **[SET]** key to select ON,and press **[SET]** key to accept,
  it will enable timer 1 work

> **Enable Work**
> **ON?**

If set OFF, system will disable the timer 1

> **Enable Work**
> **OFF?**

・System generate an OK tone, it will exit and go
into next Timer

> **TIMER**
> **Timer 2?**

6.1.8- How to Setup Matrix Action

16 Matrix Action programmable, each matrix action contains five parts. They are list as follow:
1= Add Input Device, 2=Del Input Device, 3=Add Output Devie, 4=Del Output Device, 5=Enable

6.1.8.1 - How to add a input device to Matrix Action

e.g. Input device 1 add to matrix action 1
Input device 1 name is FRONT DOOR1, Input device 2 name is HALL
Under SETUP operate menu   (refer to page 18, section 6.1.1)

・Rotate **[SET]** key to select **Matrix Action?**
  and press **[SET]** key go into **Matrix Action** function.

> **SETUP MENU**
> **Matrix Action?**

・Rotate **[SET]** key to select **Matrix Action 1?**
  and press **[SET]** key go into setup matrix action 1 function.

> **MATRIX ACTION**
> **Matrix Action 1?**

・Rotate **[SET]** key to select **Add In_device?**
  and press **[SET]** key go into **Add Input Device** function.

> **Matrix Action**
> **Add In_device?**

・Rotate **[SET]** key will display current valid input device
  Press **[SET]** key to will add the input device, and go into add
  next input device

> **Add Input Device**
> **I01:FRONT DOOR1?**

・Each matrix action max up 3 input device, finish will go to
  delete input device.

> **Matrix Action**
> **Del In_device?**

6.1.8.2 - How to delete a input device to Matrix Action

e.g. Del input device 1 from matrix action 1
Under SETUP operate menu   (refer to page 18, section 6.1.1)
・Rotate **[SET]** key to select **Matrix Action?**
  and press **[SET]** key go into **Matrix Action** function.

> **SETUP MENU**
> **Matrix Action?**

・Rotate **[SET]** key to select **Matrix Action 1?**
  and press **[SET]** key go into setup matrix action 1 function.

> **MATRIX ACTION**
> **Matrix Action 1?**

・Rotate **[SET]** key to select **Del In_device?**

> **Matrix Action**
> **Del In_device?**

and press **[SET]** key go into **Del In_device** function.

· Rotate **[SET]** key will display current valid input device

> **Del Input Device**
> **I01:FRONT DOOR1?**

· Press **[SET]** key to will delete the input device, and go into delete next input device option

> **Del Input Device**
> **I02:HALL?**

· Press **[RESET]** key to will exit and go to setup add output device

> **Matrix Action**
> **Add Out_Device?**

· If the matrix action input device is empty,(none add input device), it will display:
Press any key it will exit and go to setup add output device

> **Del In_device**
> **Empty!!**

6.1.8.3 - How to add a output device to Matrix Action

e.g. Output device 1 add to matrix action 1
　　　Output device 1 name is : LED LAMP, Output device 2 name is AIR CONTROL
Under SETUP operate menu 　(refer to page 18, section 6.1.1)

· Rotate **[SET]** key to select **Matrix Action?**
and press **[SET]** key go into **Matrix Action** function.

> **SETUP MENU**
> **Matrix Action?**

· Rotate **[SET]** key to select **Matrix Action 1?**
and press **[SET]** key go into setup matrix action 1 function.

> **MATRIX ACTION**
> **Matrix Action 1?**

· Rotate **[SET]** key to select **Add Out_device?**
and press **[SET]** key go into **Add Output Device** function.

> **Matrix Action**
> **Add Out_device?**

· Rotate **[SET]** key will display current valid output device
Press **[SET]** key to will go into select the device Open or Close?

> **Add Out_Device**
> **O01:LED LAMP?**

· Rotate **[SET]** key will select output status, and press **[SET]** key to accept, when select Open, it will go into set the output Time

> **Output Device**
> **Open?**

· Display current time at the timer
Rotate **[SET]** key will change cursor position value.
Press**[ACTION]** key will chage cursor position into next input.

> **OutputTime HH-MM**
> **00-00**

· Change the output device output time to 2 minutes.

> **OutputTime HH-MM**
> **00-02**

Note: When the output time is 00-00, it will always open, until next close event happen

· Each matrix action max up 3 output device, finish will go to delete output device.

> **Matrix Action**
> **Del Out_device?**

6.1.8.4 - How to delete a output device to Matrix Action

e.g. Del output device 1 from matrix action 1
Under SETUP operate menu   (refer to page 18, section 6.1.1)

・Rotate **[SET]** key to select **Matrix Action?**
  and press **[SET]** key go into **Matrix Action** function.

> **SETUP MENU**
> **Matrix Action?**

・Rotate **[SET]** key to select **Matrix Action 1?**
  and press **[SET]** key go into setup matrix action 1 function.

> **MATRIX ACTION**
> **Matrix Action 1?**

・Rotate **[SET]** key to select **Del Out_device?**
  and press **[SET]** key go into **Del Out_device** function.

> **Matrix Action**
> **Del Out_device?**

・Rotate **[SET]** key will display current valid output device

> **Del Out_Device**
> **O01:LED LARMP?**

・Press **[SET]** key to will delete the output device, and go into delete
  next output device option

> **Del Out_Device**
> **O02:AIR CONTROL?**

・Press **[RESET]** key to will exit and go to setup enable the matrix
  action

> **Matrix Action**
> **Add Out_Device?**

・If the matrix action output device is empty,(none add output device),
  it will display:
  Press any key it will exit and go to setup enable the matrix action

> **Del Out_device**
> **Empty!!**

6.1.8.5 - How to Enable or Disable a Matrix Action

  e.g. Enable or Disable Matrix Action 1
Under SETUP operate menu   (refer to page 18, section 6.1.1)

・Rotate **[SET]** key to select **Matrix Action?**
  and press **[SET]** key go into Matrix Action function.

> **SETUP MENU**
> **Matrix Action?**

・Rotate **[SET]** key to select **Matrix Action 1?**
  and press **[SET]** key go into setup Matrix Action 1 function.

> **MATRIX ACTION**
> **Matrix Action 1?**

・Rotate **[SET]** key to select **Enable ?**
  and press **[SET]** key go into Enable Work function.

> **Matrix Action**
> **Enable?**

・Display current Enable stauts
 Rotate **[SET]** key to select ON,and press **[SET]** key to accept,
  it will enable matrix action 1 work

> **Enable Work**
> **ON?**

    If set OFF, system will disable the matrix action 1

> **Enable Work**
> **OFF?**

・System generate an OK tone, it will exit and go
into next Matrix Action

> **MATRIX ACTION**
> **Matrix Action 2?**

6.2- How to using the system

6.2.1- How to enter ACTION Program Mode

It is accessed directly from Day mode via press **[SET]** key

```
08:00      01- Jan
DAY
```

To operate the "**Enter ACTION operation menu**" as follow:

• Press **[SET]** key will go into Program Mode

```
08:00      01- Jan
SETUP   ACT   INFO
```

• Rotate **[SET]** key to select **ACT ?**

```
08:00      01- Jan
SETUP   ACT   INFO
```

• When cursor indicate ACT, press **[SET]** key will go
  into ACTION program mode

```
ACTION MENU
Act Out_Device?
```

6.2.2- How to action output device

Under ACTION operate menu   (refer to page 36, section 6.2.1)
• Rotate **[SET]** key to select **Act Out_Device?**

```
ACTION MENU
Act Out_Device?
```

• press **[SET]** key go into action output device function.

```
ACT Out_Device
O01:LED LAMP?
```

• Rotate **[SET]** key to select will action output device
  and press **[SET]** key will go into select output status.

```
ACT Out_Device
O02:AIR CONTROL?
```

• Rotate **[SET]** key to select output status (open or close)

```
Output Device
Open?
```

• Press **[SET]** key to correspond output device will action,
  System generate an OK tone, it will exit and go
  into next output device

```
ACT Out_Device
O03:TV?
```

6.2.3- How to action output group

Under ACTION operate menu   (refer to page 36, section 6.2.1)
• Rotate **[SET]** key to select **Act Out_Group?**

```
ACTION MENU
Act Out_Group?
```

· press **[SET]** key go into action output group function.

> **ACT Out_Group**
> **Group 1?**

· Rotate **[SET]** key to select will action output group

> **ACT Out_Group**
> **Group 2?**

· Press **[SET]** key to correspond output group will action,
  System generate an OK tone it will auto exit.

> **ACTION MENU**
> **ARM?**

6.2.4- How to ARM the system

Arming the system while exiting the house. using menu ACTION MENU/ARM at the controller or press 'FULL ARM' button at the remote key, close the door and leave the house within the exit delay time (30 seconds at factory setting,) both PIR and Magnetic Contact are activated for protection after the exit delay time elapsed.

Note: The controller will suspend the exit delay (30s) count down if the door is opened or a PIR is triggered.

6.2.4.1 ARM the system using menu operate

Under ACTION operate menu   (refer to page 36, section 6.2.1)

· Rotate **[SET]** key to select **ARM?**

> **ACTION MENU**
> **ARM?**

· press **[SET]** key go into sure window
  If   press [SET] key will start ARM the system

> **ARM the system**
> **Press [SET] yes**

· Press **[SET]** key to sure ARM the system,
 And system generate an OK tone,
 Within 3 seconds press [RESET] key to exit

> **===Welcome ===**
> **Control Panel**

• Exit and check system faults.
   System fault contains: Security Zone, CP tamper
   If it has faults in system,   you can see the fault from LCD and
   the fault tone will be generated, you should to solve the fault
   to entry the mode
e.g. Input Device 1 (name is FRONT DOOR1) abnormal.

> **Exit Faults…**
> **I01:FRONT DOOR1**

Exit error beep

 • When no fault, it will display "**Exit–No Faults"** and the
exit tone will be generated, it is going to the mode that you selected
until the exit time is end.

> **Exit–No Faults**

Count down beep

• Arm mode is set.

08:00 01- Jan

6.2.4.2- ARM the system using Remote Key

Using Remote Key (Input device 3, name is TOM) ARM the system
• Press 'FULL ARM' or 'PARTIAL ARM' button at the remote key
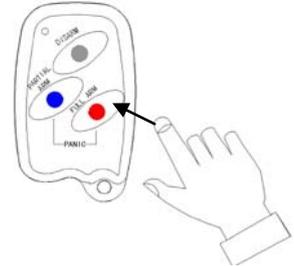
• System generate an OK tone,
 Welcme window hint 3 seconds

===Welcome === I03:TOM

• Exit and check system faults.
 System fault contains: Security Zone, CP tamper
 If it has faults in system, you can see the fault from LCD and
 the fault tone will be generated, you should to solve the fault
 to entry the mode
e.g. Input Device 1 (name is FRONT DOOR1) abnormal.

Exit Faults… I01:FRONT DOOR1

 Exit error beep

• When no fault, it will display "**Exit–No Faults"** and the
exit tone will be generated, it is going to the mode that you selected
until the exit time is end.

Exit–No Faults
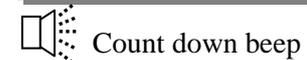
 Count down beep

• Arm mode is set.

08:00 01- Jan

6.2.5- How to Unsetting (Disarm) the system

Unsetting the system while entering the house. When you open the entrance door, the count down warning sound (entry delay time) will be started. Enter ACTION MENU / DISARM at the controller or press 'DISARM' button at the remote key within the delay time (30 seconds at factory setting,) system will return to DAY mode.

6.2.5.1 Disarm the system using menu operate

To disarm the system in ARM mode, using menu operate as follows.

• System is in the SET mode

```
08:00      01- Jan
```

• Open the entrance door, the count down warning sound
  will be started, and LCD display

```
Unset System now
```

Count down beep

• Press **[ACTION]** key go into unsetting the system,
  Wait enter user pin

```
Enter User Pin
* * * *
```

• Input user pin ([1] [2] [3] [4] at factory setting
  Rotate **[SET]** key will change cursor position value.
  Press**[ACTION]** key will change cursor position into next input.

```
Enter User Pin
1234
```

• User pin ok, system generate an OK tone,
  and will be reset and work in DAY mode.

```
08:00      01- Jan
DAY
```

6.2.5.2- Disarm the system using Remote Key

To disarm the system in ARM mode, using remote key as follows.

- System is in the SET mode

08:00   01- Jan

- Open the entrance door, the count down warning sound
  will be started, and LCD display

Unset System now

Count down beep

- Press 'DISARM' button at the remote key
  and system generate an OK tone
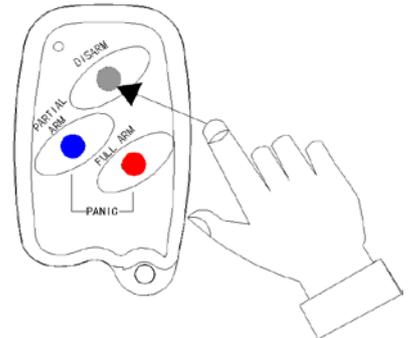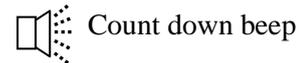
- System will be reset and work in DAY mode.

08:00   01- Jan
DAY

6.2.6- How to UNSET from Alarm and RESET the system

You can unset the system and reset it after an alarm, ,Enter ACTION MENU / DISARM at the controller or press 'DISARM' button at the remote key, system will unset the system, press any key at the controller or next press 'DISARM' button at the remote key system will rest and return to DAY mode.

6.2.6.1 Unset from Alarm and RESET using menu operate

To Unset from alarm and reset using menu operate as follows.

PANIC from input device 3 (remote key, name is TOM) trigger alarm
- System work in SET mode

08:00   01- Jan

- Press **[ACTION]** key go into unsetting the system,
  Wait enter user pin

Enter User Pin
∗ ∗ ∗ ∗

- Input user pin ([1] [2] [3] [4] at factory setting
  Rotate **[SET]** key will change cursor position value.
  Press**[ACTION]** key will change cursor position into next input.

Enter User Pin
1234

・User pin ok, system will stop system in alarm and the LCD will
display the message of newest alarm event.
Hint (the display will scroll the following two screens)

> **PA Alarm**
> **I03:TOM**

> **System Reset**
> **Press Any Key**
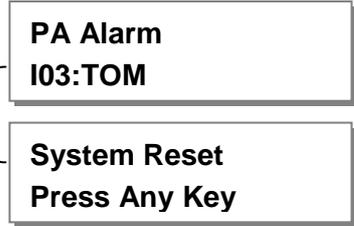
・Press any key at the controller then system return to Day mode.

> **08:00   01- Jan**
> **DAY**

6.2.6.2 Unset from Alarm and RESET using Remtoe Key

To Unset from alarm and reset using remote key operate as follows.

PANIC from input device 3 (remoter key, name is TOM) trigger alarm

・System work in SET mode

> **08:00   01- Jan**

・ Press 'DISARM' button at the remote key
and system will stop alarm
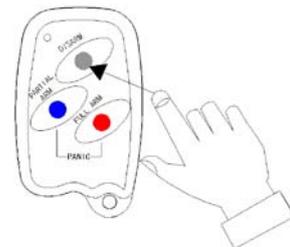
・It will stop system in alarm and the LCD will
display the message of newest alarm event.
Hint (the display will scroll the following two screens)

> **PA Alarm**
> **Control Panel**

> **System Reset**
> **Press Any Key**
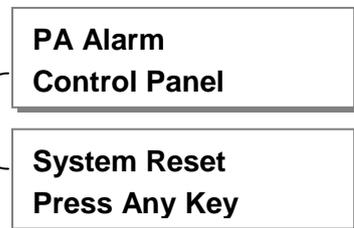
・Press 'DISARM' button at the remote key

・ System return to Day mode

> **08:00   01- Jan**
> **DAY**
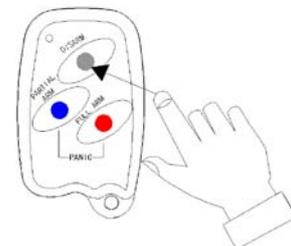
6.2.7- How to use Panic Alarm on remote key

Press **PARTIAL ARM** & **FULL ARM** key which is on wireless key simultaneously, also cause the system and external sounder sounding immediately.
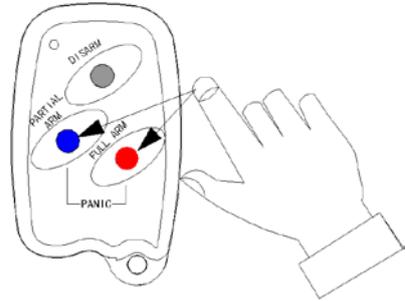
6.3- How to view information the system

6.3.1- How to enter INFO Program Mode

It is accessed directly from Day mode via press **[SET]** key

To operate the "**Enter ACTION operation menu**" as follow:

- Press **[SET]** key will go into Program Mode

- Rotate **[SET]** key to select **INFO ?**

- When cursor indicate INFO, press **[SET]** key will go into view Infomation mode

```
08:00      01- Jan
DAY
```

```
08:00      01- Jan
SETUP   ACT   INFO
```

```
08:00      01- Jan
SETUP   ACT   INFO
```

```
INFO MENU
View Log?
```

6.3.2- How to View Log

- The event log gives a display of all the events that have taken place. The events are arranged by date and time. Up to 100 alarm events and 62 data events can be stored in the memory. When the log reaches max events and another event takes place, the first event drops out. The system is known as FILO (First In Last Out).

6.3.2.1 How to view alarm log

Under INFO operate menu   (refer to page 42, section 6.3.1)
- Rotate **[SET]** key to select **View Log?**

```
INFO MENU
View Log?
```

- press **[SET]** key go into View Log function.

```
View Event Log
View Alarm Log?
```

• Press **[SET]** key to accept and most recent alarm event shown first.
e.g. alarm event: Input 3   (TOM) unset from alarm

| Unset from Alarm |
| I03:TOM |

• Press **[SET]** key to display event No. and   happen time,date
      28 (Event index)10:12 (happen time)   01/Jan (happen date)

| No.   TIME   DATE |
| 28   10:12   01/Jan |

• Press any key to return to display current event type

| Unset from Alarm |
| I03:TOM |

• Clockwise rotate **[SET]** key to move one event older

| PA Alarm |
| I03:TOM |

• Anticlockwise rotate **[SET]** key to move on event newer

| Unset from Alarm |
| I03:TOM |

• Press [RESET] key will exit and return to view data log

| View Event Log |
| View Data Log? |

6.3.2.2 How to view data log

Under INFO operate menu   (refer to page 42, section 6.3.1)

• Rotate **[SET]** key to select **View Log?**

| INFO MENU |
| View Log? |

• press **[SET]** key go into View Log function.
   and Rotate **[SET]** key to select **View Data Log?**

| View Event Log |
| View Data Log? |

• Press **[SET]** key to accept and most recent data event shown first.
   Display data and type.

| DATA: 16.9 |
| TYPE: TMP. |

• Clockwise rotate **[SET]** key to move one event older

| DATA: 34.6 |
| TYPE: HUM. |

• Anticlockwise rotate **[SET]** key to move on event newer

| DATA: 16.9 |
| TYPE: TMP. |

• Press **[SET]** key to view event happen time and date and device.

| Input Device 8 |
| 08:00   01/Jan   49 |

• Press any key to return the currently event log when you view
   the time and data of it.

| DATA: 16.9 |
| TYPE: TMP. |

• Press [RESET] key will exit and return to Clear All Log

| View Event Log |
| Clear All Log? |

6.3.2.3 How to clear all log

Under INFO operate menu (refer to page 42, section 6.3.1)
・Rotate **[SET]** key to select **View Log?**

```
INFO MENU
View Log?
```

・press **[SET]** key go into View Log function.
　and Rotate **[SET]** key to select **Clear All Log?**

```
View Event Log
Clear All Log?
```

・Press **[SET]** key to go into affirm clear all log
.

```
Clear All Event
Press [SET] yes
```

・Next press **[SET]** key to accept and clear all event log
or press **[RESET]** key to cancel, it will exit to test system

```
INFO MENU
Test System?
```

6.3.3- How to List All Registered Device

For Example : This function list all learnt input device and output device

Device No.	Device name	Device type	Controller set type
Input 1	FRONT DOOR1	MC	Security / Delay
Input 2	HALL	PIR	Security / Follow
Input 3	TOM	Remote Key	Remote Key
Input 4	DAY_NIGHT	Light Sensor	Other
Output 1	LED LAMP	Low Power Switch	Low Power Switch
Output 2	TV	High Power Switch	High Power Switch
Output 3	DIMMER LAMP	Dimmer	Dimmer-8
Output 4	AIR CONTROL	IR Signal	IR Signal -A

Under INFO operate menu
・Rotate **[SET]** key to select **List All Device?**

```
INFO MENU
List All Device?
```

・Press **[SET]** key go into List All Device function.
　LCD will display first registered Input Device
　Input 1, name:FRONT DOOR1, device type:MC,
　　　　controller set type Security / Delay Zone

```
I01:FRONT DOOR1
MC:        Delay Zone
```

・Rotate **[SET]** key to list next registered Device
　Input 2, name:HALL,device type:PIR,
　　　　controller set type Security / Follow Zone

```
I02:HALL
PIR:      Follow Zone
```

- Rotate [SET] key to list next registered Device
  Input 3, name: TOM, device type Remote Key,
       controller set type Remote key

> **I03: TOM**
> **KEY: Remote Key**

- Rotate **[SET]** key to list next registered Device
  Input 4, name:DAY_NIGHT, device type Light Sensor,
       controller set type Other

> **I04:DAY_NIGHT**
> **Other: Other**

- Rotate **[SET]** key to list next registered Device, when input device list
  finish will list output device
  Output 1,name:LED LAMP, type: Low Power Swtich

> **O01: LED LAMP**
> **Low Power Switch**

- Rotate **[SET]** key to list next registered Device
  Output 2, name:TV, device type :High Power Swtich

> **O02:TV**
> **High PowerSwitch**

- Rotate **[SET]** key to list next registered Device
  Output 3, name: DIMMER LAPM, type: Switch Dimmer

> **O03:DIMMER LAMP**
> **Switch Dimmer**

- Rotate **[SET]** key to list next registered Device
  Output 4, name: AIR CONTROL, type: IR Signal

> **O04:AIR CONTROL**
> **IR Signal**

- If none learnt Input Device, LCD will display:

> **Input Device**
> **Empty!**

- If none learnt Output Device, LCD will display:

> **Output Device**
> **Empty!**

6.3.4- How to Test System

This function has three parts in Test System:
1=Speaker Test, 2=Out_Device Test, 3=In_Device Test

6.3.4.1 How to test speaker output

Under INFO operate menu
- Rotate **[SET]** key to select **Test System?**

> **INFO MENU**
> **Test System?**

- Press **[SET]** key go into Test System function.
  and Rotate **[SET]** key to select **Speaker Test?**

> **TEST SYSTEM**
> **Speaker Test?**

- Press **[SET]** key to accept and the speaker output ON
  and press **[RESET]** key, it will leave the menu

> **Speaker is ON**
> **Press any key**

- Press any key stop output and menu return to next test option

> **TEST SYSTEM**
> **Out_Device Test?**

6.3.4.2 How to test output devies

Under INFO operate menu   (refer to page 42, section 6.3.1)
 ・Rotate **[SET]** key to select **Test System?**

```
INFO MENU
Test System?
```

 ・Press **[SET]** key go into Test System function.
   and Rotate **[SET]** key to select **Out_Deviec Test?**

```
TEST SYSTEM
Out_Device Test?
```

 ・press **[SET]** key go into test output device function.
  and rotate **[SET]** key to select will test device

```
Out_Device Test
O01:LED LAMP?
```

 ・Press **[SET]** key to accept and the toggle test outputs ON
   and press **[RESET]** key, it will leave the menu

```
O01:LED LAMP
ON, Hit any key
```

    ・Press any key stop output and it will go into next output device

```
Out_Device Test
O02:TV?
```

 ・Press **[RESET]** key will exit the menu return to test input device

```
TEST SYSTEM
Out_Device Test?
```

6.3.4.3 How to test intput devies

The input test function allows check each input device trigger and controller tamper. in order to
verify that they are functioning correctly. A tone is generated as each input device or tamper is
activated (opened).

Under INFO operate menu   (refer to page 42, section 6.3.1)
 ・Rotate **[SET]** key to select **Test System?**

```
INFO MENU
Test System?
```

 ・Press **[SET]** key go into Test System function.
   and Rotate **[SET]** key to select **In_Deviec Test?**

```
TEST SYSTEM
In_Device Test?
```

 ・press **[SET]** key go into input device test function.

```
Input Device Test
```

 ・ Trigger input device 1, the toggle device will display in LCD,
  (Input device 1, name:FRONT DOOR1, type:MC, Security/Delay)
 if it isn't displayed, to check the device that you trigger.

```
I01:FRONT DOOR1
MC:      Delay Zone
```

 ・Press any key to exit the menu return to view Panel Version

```
INFO MENU
Panel Version?
```

6.3.5- How to View Panel Version

Under INFO operate menu   (refer to page 42, section 6.3.1)
 · Rotate **[SET]** key to select **Panel Version?**

```
INFO MENU
Panel Version?
```

 · Press **[SET]** key will show panel software version.

```
Software Version
V1.40
```

 · press any key will exit menu operate and return to day mode

```
08:00       01- Jan
DAY
```

Section 7 – Maintenance

Once every three months,

- Test all detectors.
- Check speaker of control unit.

Additionally, once every year,
- Test detector feature

Additionally, once every two years,

- Replace the 9V alkaline battery in the Control Unit.

Section 8 - Troubleshooting Guide

Controller

Symptoms	Possible cause & cures
Power indicator does not light up.	Main supply is out. It is operating from backup battery. Check power connections/adaptor.
TAMPER	Tamper triggered, check panel tamper.
No response to detectors	Check if Links are across used zones. Remove them.
No response to keystroke	Power reset (both mains and backup battery)

Wireless Door/Window Contact Detector (MC)

Symptoms	Possible causes and cures
Does not detect opening of door or window (Red LED does not flash)	Check that batteries are correctly installed. Check that magnet is correctly positioned.
Built-in buzzer makes a sound	Batteries are low. Replace batteries

Wireless PIR detector (PIR)

Symptoms	Possible causes and cures
Does not detect movement (Red LED does not flash)	Is PIR's LED turned off? Is the PIR in its "sleep" condition (Section 3.4)
PIR causes false "intruder" alarms.	Check that PIR is not pointed at heat sources or moving objects, and is not mounted above a radiator or other heater.
PIR will not trigger alarm when the system is set.	PIR in "sleep" condition.
Built-in buzzer makes a sound	Batteries are low. Replace batteries

Wireless Remote Control

Symptoms	Possible causes and cures
Does not transmit (Red LED does not flash)	Check that the battery is correctly installed. Battery low, replace battery

Wireless Light Sensor

Symptoms	Possible causes and cures
Does not transmit (Red LED does not flash)	Check that the battery is correctly installed. Battery low, replace battery

Wireless Power Switch or Switch Dimmer

Symptoms	Possible causes and cures
Does not action using controller	Ensuring the power switch work in automation mode

Remark: If you have any problem with the alarm system. To default to factory settings, please follow sections 3 (page 11) explained in this manual.

Section 9 - Specifications

Home Automation Controller	
Type of Alarm Panel	Microprocessor based control unit
Housing	ABS
Zone Delay Time(Entry or Exit Delay)	default 30 seconds, programmable
Input Device	16 Input Devices - Programmable function
Output Device	16 Output Devices - Programmable function
External Speaker	DC12V 16ohm, max current : 200mA
Siren Duration	Default 10 minutes
Current consumption control panel	Standby : 70mA Alarm : 120mA
Battery input voltage	Alkaline battery DC9V, 450mAh
Mains supply voltage	DC 12V max load 0.5A
Ambient operating temperature	0℃ ~ 40℃
Dimensions (mm)	253 x 195 x 61

Wireless Door/Window Contact Detector	
Type	Magnetically activated switch with option for external wired contact detectors
Housing	ABS
LED	Transmission indication
Transmission Frequency	433MHz
Transmission Range	100 meters (line of sight)
Power Supply	3VDC (2x 1.5V LR03 size AAA alkaline batteries are not included)

Wireless Movement / Passive Infrared Detector	
Type	Dual Pyroelectric element with hemispherical lens
Housing Material	On/off selectable
LED	Transmission indication
Mounting Height	2 ~ 2.5 meters
Detection Range	12 meters @ 110°
Transmission Frequency	433MHz
Transmission Range	100 meters (line of sight)
Power Supply	3VDC (2x 1.5V LR03 size AAA alkaline batteries are not included)

Wireless Remote Key	
Type	Microprocessor based wireless remote control key
Housing Material	ABS
LED	Transmission indication
Transmission Frequency	433MHz
Transmission Range	30 meters (open air with direct line of sight)
Power Supply	3VDC (1 x CR2032 Lithium Coin size Battery)

Wireless Light Sensor	
Type	Microprocessor based Ambient light sensor
Housing Material	ABS
LED	Transmission indication
Transmission Frequency	433MHz
Transmission Range	100 meters (line of sight)
Power Supply	Alkaline battery DC9V, are not included

Wireless Low Power Switch	
Type	Microprocessor based low power remotely activation
Housing Material	ABS
Double color LED	Work mode and relay status indication

Receiver Frequency	433MHz
Receiver Range	100 meters (line of sight)
Load	DC12V max up 3A, DC24V max up 2A
Power Supply	DC 12V max up 200mA

Wireless High Power Switch	
Type	Microprocessor based high power remotely activation
Housing Material	PC
Double color LED	Work mode and relay status indication
Receiver Frequency	433MHz
Receiver Range	100 meters (line of sight)
Load	AC 230V max up 5A
Power Supply	AC 220V

Wireless Switch Dimmer	
Type	Microprocessor based remote switch
Housing Material	PC
Double color LED	Work mode and relay status indication
Receiver Frequency	433MHz
Receiver Range	100 meters (line of sight)
Load	AC 230V max up 4A
Power Supply	AC 220V

Wireless IR Transmitter	
Type	Microprocessor based existing remote IR control
Housing Material	ABS
Double color LED	Work mode and relay status indication
Receiver Frequency	433MHz
Receiver Range	100 meters (line of sight)
Power Supply	DC 12V max up 500mA

Wireless Siren	
Type	Microprocessor based audible and visual indication of an alarm condition.
Housing Material	ABS
Receiver Frequency	433MHz
Receiver Range	100 meters (Line of sight)
Sound Output Level	110dB
Power Supply	DC 12V max up 500mA

External Sounder	
Housing Material	ABS
Rated Voltage	12VDC, max at 500mA
Sound Output Level	105dB

Control Panel External Power Supply	
Type	AC/DC Adaptor
Housing Material	ABS
Rated Supply	220VAC 50HZ supply
Output	Extra Low Voltage (DC 12V max at 500mA)

Appendix 1 – Event Log Messages

LCD display text	Description
Battery Low **Control Panel**	Controller Battery low voltage
Battery OK **Control Panel**	Controller Battery voltage OK
AC Mains Failed	Mains power supply failure
AC Mains OK	Mains power supply restored
Ready Set **Control Panel**	System ready into set mode using controller operate
Ready Set **I03:TOM**	System ready into set mode from wireless device command
System Set **I03:TOM**	System into Set mode from wireless device
System Unset **I03:TOM**	User has unset the system from wireless device
Unset from Alarm **I03:TOM**	User has unset the system from alarm from wireless device
PA Alarm **I03:TOM**	Panic zone activated (opened)
Intruder Alarm **I02:HALL**	Intruder zone (Input Device 2) activated (opened)
Entry Start **I01:FRONT DOOR1**	Entry time started
Entry Deviate **I05:BEDROOM**	Entry time deviate (Immediate zone activated)
CP Tamper	Control panel tamper opened
Zone Tamper **I01:FRONT DOOR1**	24hour/Tamper Zone activated (opened)
Code Tamper **Control Panel**	Invalid user code was entered

Appendix 2 – Input Device Location Table

Input Device Number	Location
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	

Appendix 3 – Output Device Location Table

Output Device Number	Location
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	