



AIR-ALARMII SERIES USER'S MANUAL
D.I.Y. WIRELESS SMART HOME ALARM SYSTEM KIT

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- (1) The equipment should not cause any harmful interference.
- (2) The equipment must receive and process any interference, including any possible interference caused by operation mistakes.

After testing the product, we confirm that the camera complies with the provision for class C digital equipment in the 15th part in FCC regulations; and the receiver complies with the limitations for class B digital equipment in Part 15 of FCC regulation. The product generates, applies and emits radio waves. It might cause harmful interferences to wireless communication if not be installed and used following the description of the manual.

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- Readjust the product or put it in another place.
- Extend the distance between the equipment interfered and the product.
- Refer to dealers or experienced radio electrician for help.

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Introduction

SecurityMan Air-AlarmII series is a wireless LED touchpad security alarm system kit for home and business. It is user-friendly and easy to use protecting homes/businesses at a minimum cost of investment. Do-It-Yourself installation and monitoring alarm system without monthly fees is a key benefit for users. The system will alert the owner by phone calls through a series of programmable phone numbers. The owner can then dial into the host to arm or disarm the alarm by using the phone's numeric keypad. The Air-AlarmII system can be upgraded by adding up to 60 wireless sensors, sirens, and up to 10 remote controllers.

Package Contents

Air-AlarmII & Air-AlarmIIB (Standard Kits)

- Air-Alarm host with LED touch keypad and speaker
- 1 x Host Anchor Card for fixed position
- 1 x 12VDC power adapter
- 1 x Wireless doorbell button
- 1 x Wireless Wide-Angle PIR motion sensor with mounting bracket (battery included)
- 1 x Wireless magnetic smart door/window sensor with mounting bracket (battery included)
- 1 x Wireless indoor siren
- 2 x Wireless remote control (batteries included)
- 1 x Phone cable (3ft)
- 1 x USB cable (Air-AlarmIIE: keep for future add-on doorbell)
- 1 x Warning sign
- 1 x User's manual
- Accessories (on page 26)

Air-AlarmIIDL (Deluxe Kit)

- Air-Alarm host with LED touch keypad and speaker
- 1 x Host Anchor Card for fixed position
- 1 x 12VDC power adapter
- 2 x Wireless Wide-Angle PIR motion sensor with mounting bracket (batteries included)
- 3 x Wireless magnetic smart door/window sensor with mounting bracket (batteries included)
- 1 x Wireless smoke alarm
- 2 x Wireless remote control (batteries included)
- 1 x Phone cable (3ft)
- 1 x USB cable (keep for future add-on Doorbell)
- 1 x Warning sign
- 1 x User's manual
- Accessories (on page 26)

Air-AlarmIIE (Economy Kit)

Same as the Standard Kits package contents above only without:

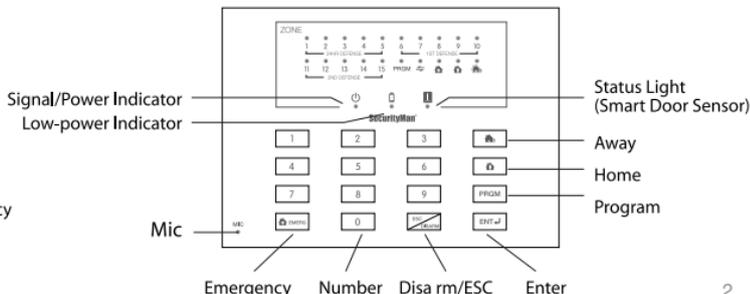
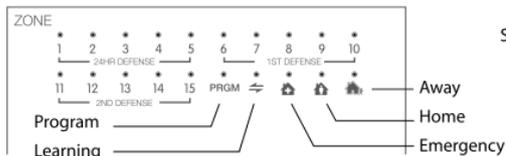
- 1 x Wireless doorbell button
- 1 x Wireless indoor siren

Main Features

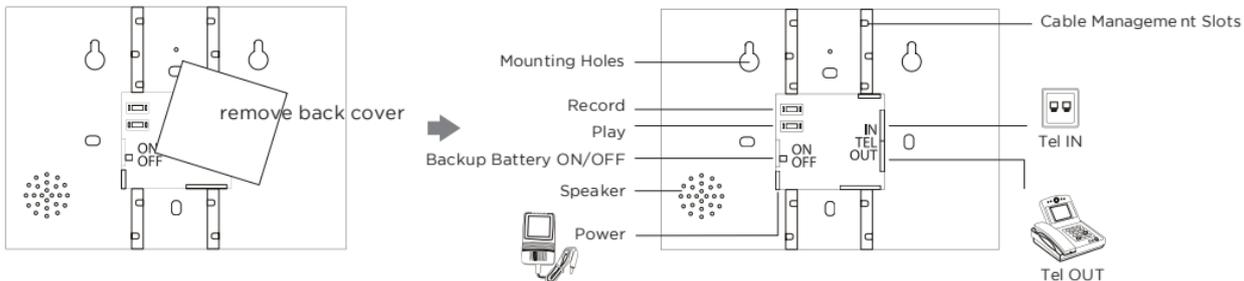
- Easy-to-use and cost-effective D.I.Y. (Do-It-Yourself) wireless intruder alarm system kit
- Supports up to 60 wireless sensors (15 wireless defense zones and 4 wireless sensors per zone)
- Transmit at 430-433MHz frequency band, wireless transmitting distance up to 300 feet (remote controller, smoke sensor, doorbell), up to 450 feet (magnetic smart door/window sensor, PIR motion sensor), and up to 210 feet for wireless siren
- Supports up to 5 phone numbers for auto alarm call and 1 management center protocol (CID)
- Armed/disarmed by remote controller, phone call, or host's keypad
- Easy "one-key" armed/disarmed operation
- Programmable silent alarm or audible alarm
- Recordable alarm voice message (up to 10 seconds record time)
- Telephone line disconnection alarm sounds every 5 seconds
- Smart 3 defense lines configuration (1st defense line is the perimeter, 2nd defense line for in-room, & 24-hour defense line)
- Internal rechargeable Li-ion backup battery in alarm host lasts up to 16 hours
- Doorbell rechargeable battery lasts up to 3 years (Air-AlarmII/B)
- Smart beeping and zone LED indication features to alert open status of any door/window sensor when attempting to arm the system
- In Disarmed mode, the Host will beeps and the zone LED light will flash 5 times to notify the door or window is opened, and 2 times to notify the door or window is closed
- Alkaline batteries included for remote controllers, wireless door sensor, and wireless motion sensor last up to 2 years
- Programmable password
- Ademco CID compatible protocol

Alarm Host (SM-8088T)

FRONT PANEL



BACK PANEL



- * In off mode, the alarm host will still operate normal if the AC power is connected.
- * For wall mount please use screw **(B)** (see page26)

Alarm Host Specifications (SM-8088T)

- Operating power: 9-15VDC
- Static current: $\leq 50\text{mA}$
- Alarm current: $\leq 500\text{mA}$
- Operating environment: Temperature: $-10^{\circ} - 50^{\circ}\text{C}$ Humidity: $<80\%$
- Maximum available quantity of remote controllers: 10 PCS
- Maximum available quantity of wireless sensors: 60 PCS
- Dimensions: 150X107X26 (mm)
- Rechargeable battery: 3.7V 800mAh Li-ion (Standby: 16hrs, charge time: 12hrs)
- Speaker siren 100dB (built-in)

Three types of Defense Line

Types of Defense Line and what they mean:

24-hour Defense Line (Zone 1-5):

Sensors programmed into any of the 24-Hour defense zones are automatically set on a “24-Hour Monitoring Status”, and usually consist of wireless panic buttons, smoke detectors & gas sensors (N/A).

1st Defense Line (Zone 6-10):

Indicates the first defense areas or the perimeter zone (such as doors and windows). This is the perimeter areas where thieves initiate when attempting to break in. These zones are generally composed of wireless smart door magnet sensors and wireless curtain PIR sensors (N/A).

2nd Defense Line (Zone 11-15):

Indicates the second defense areas, such as living room, aisles, bedrooms, hallways, etc. These zones are generally composed of the wireless wide-angle PIR sensors where they can detect movements in open spaces.

How to change the programming password

The system default password is 888, to change the programming password press:

PRGM + 999 + ENT + Three Digit New Programming Password + ENT + Three Digit New Programming Password + ENT_ Press PRGM button, the programming LED light will come on, enter “999”, press ENT, then input a new three-digit programming password, press ENT, re-input the new three-digit programming password, and then press ENT to complete the programming password change. Notice the programming LED light will disappear after the final ENT is pressed.

Programming the Alarm Host (SM-8088T)

Function: Operation__Operation Explanation

- The alarm host will automatically exit from the programming status if inactive for 20 seconds.
- Programming is effective after **PRGM+Password+ENT** command is pressed, use ESC button to go to previous step.
- The alarm host will beep in series to indicate the programming is successful and beep once to indicate programming failure.

IMPORTANT

PRGM + Password + ENT_ This command applies throughout whenever programming the alarm host, before attempting to change other programming features, such as Delay Time to Arm, Delay Time to Alarm, Emergency Alarm Voice, Adding and Cancelling wireless devices, etc. For example; to change Delay Time to Arm below from the default 40 seconds to 1 minute,

press PRGM + 888 + ENT followed by 11 + ENT. The programming default password is 888 (3 digits long), and 11 is the programming code for 1 minute Delay Time to Arm.

Inputting Alarm Telephone Number: PRGM + Password + ENT + XX + ENT + Telephone Number + ENT__ XX indicates telephone group number which can be programmed with personal or management center phone number. Depending on the land line service provider a 1 and or area code may be necessary. See group details below:

01: Group 1 (personal telephone number)

02: Group 2 (personal telephone number)

03: Group 3 (personal telephone number)

04: Group 4 (personal telephone number)

05: Group 5 (personal telephone number)

06: Group 6 (reserved for CID Protocol number for management center, not for personal numbers, requires monthly fees)

*** To delete or reset the telephone enlisted number press, "PRGM+password+ENT+XX+ENT+ENT" (XX is the group number, ie. 01, 02, etc.)

Delay Time to Arm: PRGM + Password + ENT + XX + ENT__ Setup a dwell time in which the alarm will become activated or armed. Enter 10 for XX to setup Delay Time to Arm for 40 seconds, enter 11 to setup Delay Time to Arm for 1 minute and press the ENT button to confirm. The default setting is 10 or 40 seconds alarm dwell time. If armed, any wireless triggers within the dwell time of 40 seconds or 1 minute, the Alarm Host will beep twice.

Delay Time to Alarm: PRGM + Password + ENT + XX + ENT__ Setup a dwell time in which the alarm will sound or trigger. Enter 20 for XX to setup immediate alarm sound triggering, enter 21 to setup a 15 seconds Delay Time to Alarm. The default setting for Delay Time to Alarm is 20.

Emergency Alarm Sound: PRGM + Password + ENT + XX + ENT__ Enter 30 for XX to disable Emergency Alarm Sound, enter 31 to setup audible alarm sound, the default is 31. During the Emergency Alarm Sound is disabled or set to 30; the alarm host will operate normal, and will continue to dial the enlisted phone numbers in case of emergency.

Alarm Sound for 1st and 2nd defense line: PRGM + Password + ENT + XX + ENT__ Enter 40 for XX to disable alarm sound for 1st & 2nd defense line, enter 41 to enable Audible alarm, the default is 41. When the Alarm Sound is disabled or set to 40; the alarm host will operate normal and will continues to dial the enlisted phone numbers upon alarm trigger.

Telephone Disconnection Alarm: PRGM + Password + ENT + XX + ENT__ Enter 60 for XX to disable Telephone Disconnect Alarm, enter 61 to enable Telephone Disconnect Alarm, the default is 61. Telephone Disconnection Alarm is line of integrity alarm. That chirps every 5 seconds when the telephone line is not connected to the TEL IN port of the alarm host panel. To disable the chirping when the telephone is not plugged in to the host; press, "PRGM+password+ENT+60+ENT".

FOR MANAGEMENT CENTER USE ONLY:

To upload arm/disarm to management center: **PRGM + Password + ENT + XX + ENT__** Enter 50 to disabled upload, enter 51 to enable upload to management center, the default setting is 50 or disable. Leave this disable if management center is not in service.

User Code: **PRGM + Password + ENT + 80 + ENT + XXXX + ENT__** Enter a number between 0000-9999 for XXXX to setup user code for management center. The default is set as random (For Ademco Management Center).

Operation

To Record a voice message greeting: press and hold down the **REC** button located on the back side of the alarm host and then speak close into the rear speaker of the alarm host. When finish recording, release the **REC** button to save the recorded message. The voice message greeting can be 10 seconds long.

To Playback the recorded voice message greeting: press and hold down the **PLAY** button located on the back side of the alarm host.

“One-key” Arm:

By Remote controller: Press the AWAY (All Alarm) or the HOME (Part Alarm) button on the remote control to arm and the alarm host will beep once to confirm the operation is successful. See Wireless Remote Controller on page 9 for more detail.

Arm by keyboard on alarm host: Press  (All Alarm) or  (Part Alarm) button, the alarm host will beep once to confirm the operation is successful.

“One-key” Disarm:

By Remote controller: Press the DISARM button on the remote control to disarm the alarm and the alarm host will beep twice to confirm the operation is successful. Reference Wireless Remote Controller on page 9 for more detail.

Disarm by keyboard on alarm host: **ESC/DISARM + Programming Password + ENT__** Press the ESC/Disarm button follow by the programming password and then ENT to disable alarm siren using the alarm host. The host will beep twice to confirm the operation is successful.

Emergency/Panic Distress:

By Remote controller: Press the EMERGENCY  button on the remote control at times of emergency to immediately activate the sound siren on the alarm host and wireless sirens.

By Keyboard on alarm host: Press the EMERGENCY  button on the alarm host at times of emergency to immediately activate the siren sound on the alarm host and wireless sirens.

Telephone alarm: After receiving the phone call from the alarm host, the recorded voice message will repeatedly play for 22 seconds. Before the 22 seconds are over, one of the following actions must be taken:

A) Press the number “8” on the phone to extend the time intervals for an additional 20 seconds to enter the listening state. In the listening state the built-in microphone on the alarm host will be active to pick up any sound that takes place near by the alarm host.

B) Press the pound “#” button to replay the recorded voice message.

C) Press the star “*” button, the host will end/drop the call and stop to dial the next enlisted alarm telephone numbers. After the “*” is pressed; the alarm host will resume to be armed.

Note: The “*” is required in order to stop the alarm host from continuing to dial the next enlisted telephone numbers.

D) Hang up the telephone without any command input, the host will end the call and automatically continues to dial the next enlisted alarm telephone numbers.

Remote arm by phone: 30 seconds after successfully dialing the telephone number of alarm host, there will be: a beep > enter programming password of host > beep > enter 1 > beep, and the host will then automatically hang up after the last beep to successfully complete the operation.

Remote disarm by phone: 30 seconds after successfully dialing the telephone number of alarm host, there will be: a beep > enter programming password of host > beep > enter 0 > beep, and the host will then automatically hang up after last beep to successfully complete the operation.

Alarm dialing mode: After the alarm host triggered or gone off, the alarm host will start to dial the first enlisted telephone number, then the second, third, fourth and so on. Unless one of the enlisted telephone numbers answers otherwise this routine auto dial will continue through a series of loop for three times.

Alarm priority: If the telephone line is busy or in use when the alarm host is triggered, the alarm host will automatically cut off the busy/used line and dial the enlisted telephone numbers to advise of the crime. The system will siren and then dial out to the enlisted telephone numbers is the alarm’s top priority.

Telephone line disconnection Alarm: If the telephone line is cut or comes off the hook, the host will beep every 5 seconds to notify users that the telephone line is not connected to the TEL IN port of the alarm host unit or it is connected to the alarm host but it is not an active telephone line. It will continue to beep until the phone line is fixed or reconnected.

“AWAY” Mode (Zone 1-15): In this state, after any detection in the 1st, 2nd, or 24hr defense line is triggered, the alarm host will immediately sound the sirens and at the same time automatically dial the enlisted telephone numbers in sequence.

“HOME” Mode (Zone 1-10): In this state, after any detection in the 1st or 24hr defense line is triggered, the alarm host will immediately sound the sirens and at the same time automatically dial the enlisted telephone numbers in sequence. In HOME mode, the 2nd defense line will be disabled and will not trigger the alarm host.

Wireless smart door sensor: Monitor the opening and closing of doors and windows. In the alarm disarm mode, if doors and windows are open and closed, the alarm host will chirp and the status light flashes frequently to alert the doors and windows were opened. This feature requires SM-87L(door/window sensor) and SM-8088T(Alarm Host) as equipped with Air-AlarmII/B package.

Wireless doorbell: Wireless doorbell button (SM-82) integrates with security alarm. Each press of the wireless doorbell button will produce 3 ring tones on the alarm host main panel.

Alarm processing mode: Immediately after the system is triggered, the alarm system will start to dial the enlisted phone numbers in sequential order from the 1st group to the 5th group of the enlisted telephone numbers (skip non-enlisted group number). Alarm host will dial and loop through the enlisted phone numbers 3 times and then drop the call after the 3rd cycles through.

Exit delay time (Delay Time to Arm): This is an exit delay time which is default to 40 seconds or it can be change to 1 minute. This means that when the system is armed, you have exactly 40 seconds to exit out from the premise before the alarm trigger. The delay time to exit is necessary for the owner of the system to walk out from the premise before the alarm becomes active.

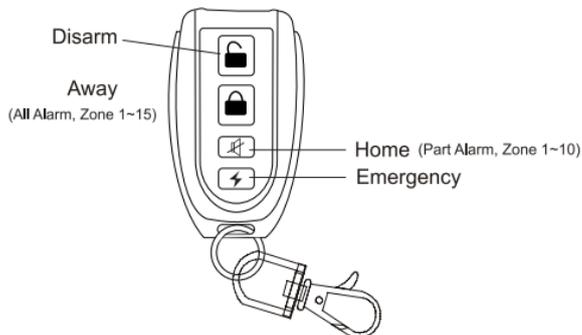
Entry delay time (Delay Time to Alarm): This is an entry delay time which is default to immediately trigger the alarm when entering. The entry delay time can alternatively be set to 15 seconds. This means that when you enter the premise, you have 15 seconds to disarm the alarm by host pad or by key chain before the alarm trigger.

Lower voltage alert: Low-Power light on the host will light up when the system is running on battery and the battery power is low.

Understand and Setup Wireless Accessories

Please note that all the devices included with the Air-AlarmII series kit are paired to the Alarm Host (panel) by default. If sensing devices do not trigger the Alarm Host, please reference to the "To Add:" instructions in the user's manual to add the wireless devices accordingly. All newly add-on sensing devices are required to be paired with the Alarm Host.

Wireless Remote Controllers (SM-88X)



Functions/Features:

- Used to arm and disarm alarm host.
- Emergency button for emergency or panic help.

Specifications:

- Operating power: 27A 12V Battery (Recommend: alkaline battery)
- Wireless Transmitting distance: ≥ 300 ft (in open area)
- Service life: ≤ 2 years

Installation and Usage:

Makes arming and disarming the alarm host fast and easy. The "AWAY" button is normally used whenever you leave your home or business. This feature insures that any perimeter breach and or motion detection will set off the alarm. The "HOME" button is normally used at night. This feature only responds to a perimeter breach and does not set the alarm if any of the motion sensors are triggered as you walk throughout the house. Please replace the battery every 2 years or anytime when the remote controls becomes less sensitive or has shorter control distance.

Adding and Cancelling Remote Controllers:

To Add:

Step 1: Press **PRGM + Password + ENT+ 70 + ENT+ 00 + ENT** → the "⚡" light will appear solid blue.

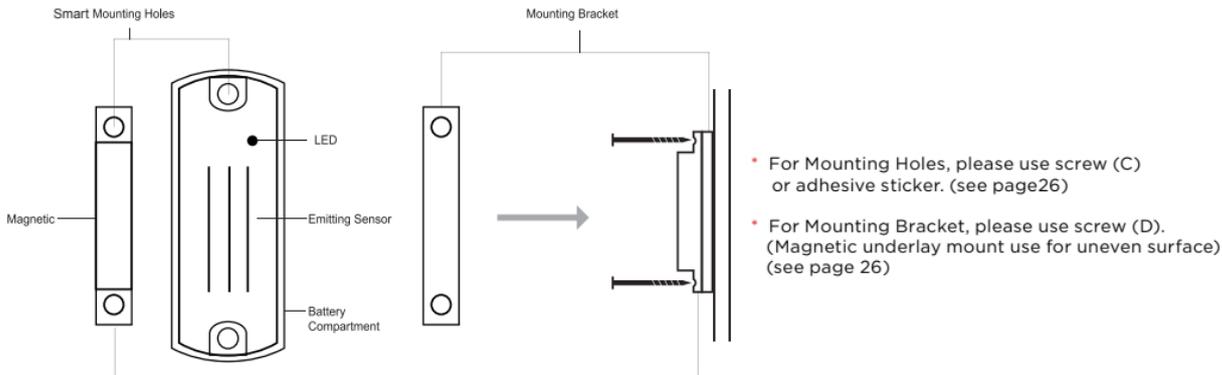
Step 2: Press any button on remote controller twice consecutively, the alarm host will beep in series and the "⚡" light flash 5 times and then turn off to indicate the remote control has been successfully added.

To Cancel:

Press **PRGM + Password + ENT+ 71 + ENT+ 00 + ENT** → the alarm host will beep in series then the “↔” light flash once and then turn off to indicate the remote control has been successfully cancelled.

Note: The alarm host can only learn 1 remote control at a time, a total of 10 remote controllers can be added to the host. The remote control dedicated programming code is 00.

Wireless Smart Door/Window Sensor (SM-87L)



Functions/Features:

- Mainly detect open/close states of doors and windows, generally set as a 1st Defense Line or perimeters.
- If any doors or windows are opened in arm mode, it will transmit the alarm signal to notify the alarm host.
- Alarm host beeps and zone LED light flashes 5 times to notify the door/window is open (in disarm mode)
- Alarm host beeps and zone LED light flashes 2 times to notify the door/window is close (in disarm mode)
- Smart beeping and zone LED indication features to alert the opening status of any door/window sensor when attempting to arm the system.

Specifications:

- Operating power: 23A or 27A 12V Battery (Recommend: alkaline battery)
- Wireless Transmitting distance: ≥450ft (in open area)

- Service life: ≤ 2 years
- Alarm Distance: < 4 cm

Installation and Usage:

To install the Smart door/window sensor, mount the magnetic and the emitting of the sensor to the door frame about 5-6 feet above ground. Make sure the magnetic is installed on the opposite side of the battery compartment of the emitting piece of the Smart sensor. Mount it high enough to prevent children from tampering with the sensor. Use the clear plastic rectangular bracket underlay provided to mount if surface area is un-even. When mounting the magnetic and the emitting pieces of the Smart sensor ensure that the spaces or gaps in between the two pieces are within 1/4" of an inch (10mm). Insert the battery included into the battery compartment of the sensor. Replace battery if the blue LED light on the sensor is frequently flashing.

Using the Smart door/window sensor:

By default, the Smart door/window sensor is programmed to zone 6 of the alarm host unit. Programming the Smart door/window sensor to the alarm host is not necessary unless the sensor is not working properly and accordingly to the alarm host. In this case it is necessary to follow the "To Add" procedures under the "Adding and Canceling Smart Door/Window Sensor" below.

The smart door/window sensor featured the Smart Arm. Smart Arm detect the OPEN status alert of the door/window when attempting to ARM the alarm system. The Smart Arm by default is enabled and dedicated for zones 06 through 10. When attempting to Arm the door/window while the door/window is opened, the alarm host will beep 3 times in series of 8 times and the blue LED light flash each time there is a beep to notify you that the door/window is opened in the indicated zone (s) until one of the following action is taken:

- 1) Force alarm to Arm by pressing the ARM button 2 times to ignore the door/window OPEN status alert and Arm the alarm system. The opened door/window can be close at anytime to complete the arming process for the given Zone Alert. Please be noted if the door is still open and never close after forcing the system to Arm, then that door/window sensor will NOT be active to set off the alarm.
- 2) Close the door/window in the indicated zone(s) of the main panel first and then Arm the alarm host.

Smart Arm feature beep 3 times in series of 8 times plus the zone(s) LED light and the door/window LED light flashes with each series of beep.

**Arming the alarm system when the door/window is opened will not be successful unless one of the two actions listed above is taken.

Enabling and Disabling Smart Arm (Smart door/window sensor SM-87L and host SM-808T)

Enabling Smart Arm (Default):

Press **PRGM + Password + ENT + 91 + ENT**

Disabling Smart Arm:

Press **PRGM + Password + ENT + 90 + ENT**

**Implies to zones 06 through 10 only.

**Detect the door/window OPEN status alert when attempting to ARM.

Another feature that is equipped with the Smart door/window sensor is the Zone Alert feature. The Zone Alert if ON (System Default) send the signal to the alarm host to beep in series to notify the door/window open status and close status. If the door is open the alarm host panel will beep 5 times and then when the door is close, the alarm host will beep 2 times. Here are some of the scenario characteristics behavior of the Zone Alert features in ARM mode and in DISARM mode:

1) When Alarm Host Is In Disarm Mode:

- A) Door is open, the alarm host will beep 5 times and the zone LED light will flash 5 times to indicate the door/window is opened.
- B) Door is open and then close after 5 seconds later, the alarm host will beep 5 times and the zone LED light will flash 5 times to indicate the door/window is opened and 2 times when the door/window is closed.
- C) Door is open and then close within 2-second, the alarm host will beep 5 times and the zone LED light will flash 5 times to indicate the door/window has been opened for a short (2-second) period of time and the door/window is in a close status.
- D) Door is open and then immediately close after 2-second, the alarm host will beep 7 times and the zone LED light will flash 7 times to indicate the door/window has been opened and closed immediately after 2-second.

2) When Alarm Host Is In Arm Mode:

- A) Door is open within the Delay Time to Exit (default to 40 seconds), the alarm host will beep 5 times and will not trigger the alarm within this time.
- B) Door is open after the Delay Time to Exit (default to 40 seconds), the alarm host will trigger the alarm and all the siren will sound normally.

IMPORTANT: Please keep all doors/windows close during the Delay Time to Exit to avoid system malfunctioning. If the Smart Arm function is not enabled, the Smart Door/Window Sensor will work as a general door/window sensor suitable for Air-Alarm series.

Zone Alert ON/OFF (SM-87L and host SM-8088T)

Zone Alert ON (Default):

Press **PRGM + Password + ENT + 92 + ENT + XX + ENT** [XX means input zone 06-10]

Zone Alert OFF:

Press **PRGM + Password + ENT + 93+ ENT + XX + ENT** [XX means input zone 06-10]

**Zone Alert can be turn ON or OFF in any specific zones from 06 through 10.

**In alarm disarm mode, Zone Alert ON will allow the alarm host to beep 5 times when the door/window is open and beep 2 times when the door/window is close.

Adding and Cancelling Smart Door/Window Sensor:

To Add:

Step 1: Press **PRGM + Password + ENT + 70 + ENT+ XX + ENT** → The “↔” light will appear solid blue.

[The XX indicate zone number of the 1st defense line, including zones 06 through 10].

Step 2: Triggers the Smart Door/Window magnet twice consecutively, the alarm host will beep in series and the “↔” light flashes five times and then turns off to indicate the magnet Smart door/ window sensor has been successfully added.

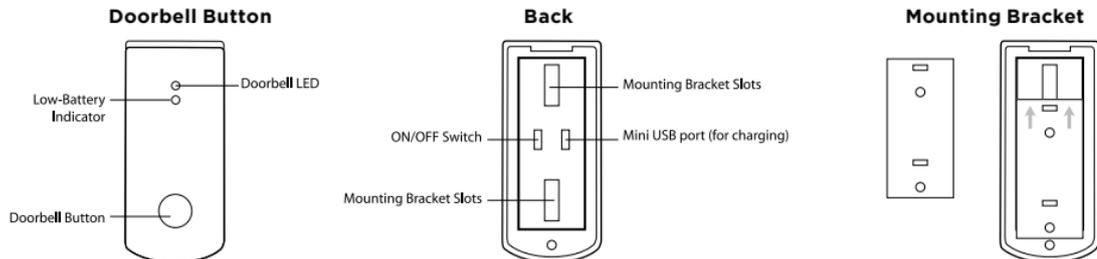
To Cancel:

Press **PRGM + Password + ENT + 71 + ENT+ XX + ENT** → The alarm host will beep twice then the “↔” light will flash once and then turn off to indicate the magnet Smart door/ window sensor has been successfully cancelled.

[The XX indicate zone number of the 1st defense line including zones 06 through 10].

Note: The alarm host can only learn 1 wireless device (Magnet Smart Door/Window Sensor) at a time, a total of 4 wireless devices (magnetic sensors) to a zone can be added. For example; for the 1st defense line, if 4 sensors were to be added to zone 06 through zone 10, there would be a total of 20 sensors in all. If 1 device is removed from a zone that contain 4 devices, then all 4 devices in the zone will be removed, and each device will have to be added again by following the “To Add” procedures above.

Wireless Doorbell Button (SM-82)



* please use screws (F) to install the mounting bracket. (see page 26)

Functions/Features:

- Installed on an entrance door.
- The alarm host will make 3 “Ding Dong” sound per ring.

- Low-battery LED indication

Specifications:

- Operating power: Li-ion battery (3.7V / 200mA)
- Charging time: 12 hours
- Emitting distance: ≥150m (in open area)
- Service life: ≤3 year

Installation and Usage:

Install the mounting bracket using the screws provided to a desire location intended for visitors to ring the doorbell. Situate it about 1.4m above the ground is recommended. Next, switch the power switch to the ON position on the doorbell and then place it in an up right position over the mounting bracket and slide the doorbell down to secure the doorbell. Press on the doorbell button once to get three doorbell sound on the alarm host and the blue LED light status will appear on the doorbell to indicate that the host is ringing. Recharge the battery when the low-battery LED light flashes blue by connecting the doorbell to a computer USB port with the USB cable provided or any third part USB A/C adapter (5VDC, 500mA).

Adding and Cancelling Doorbell Button:

To Add:

Step 1: Press **PRGM + Password + ENT + 70 + ENT + XX + ENT**  The "⚡" light will appear solid blue.

[The XX indicate zone number of the defense line, including zones 06 through 15].

Step 2: Press the doorbell button twice consecutively, the host alarm will beep in series and the "⚡" light flash 5 times and then turn off to indicate the doorbell button has been successfully added.

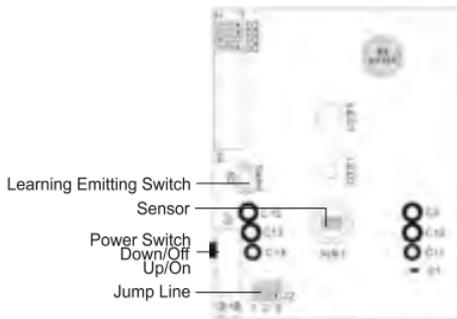
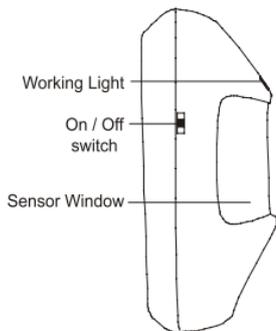
To Cancel:

Press **PRGM + Password + ENT + 71 + ENT + XX + ENT**  The alarm host will beep twice then the "⚡" light will flash once and then turn off to indicate the doorbell button has been successfully cancelled.

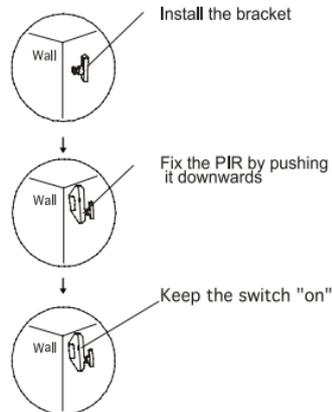
[The XX indicate zone number of the defense line including zones 06 through 15].

- Note:**
- 1. The alarm host can only learn 1 wireless device (Wireless Doorbell Button) at one time, a total of 4 wireless Devices (Wireless Doorbell Buttons) to a zone can be added.**
 - 2. The programming code of Wireless Doorbell Button is special which do NOT occupied as one of the additional sensor added to that zone, therefore 4 devices can still be added plus the wireless doorbell button.**
 - 3. If 1 Wireless Doorbell Button is removed from a zone, then all wireless devices (Wireless Doorbell Button and wireless sensors) in the zone will be removed, and each device will have to be added again by following the "To Add:" procedures above.**

Wireless Wide-Angle PIR Motion Sensor (SM-80)



* Please use screw **(E)** to install the bracket (see page26)



Functions/Features:

- Mainly monitor and control indoor stereoscopic spaces, generally set as a 2nd Defense Line.
- When human body enters the detection areas, the motion sensor will transmit the alarm signal to the alarm host.
- It is immune to pets; cats, dogs, etc that are less than 10KGS will not cause false alarm.

Specifications:

- Operating power: 9V Battery (Recommend: alkaline battery)
- Wireless Transmitting distance: ≥ 450 ft (in open area)
- Service life: ≤ 2 years
- Detection Area: $110^\circ 10 \times 10$ m

Installation and Usage:

Mount the bracket to a desired wall surface, location, or corner at a height of about 6ft to 7ft above the ground. Open the sensor cover and connect a 9VDC battery. Next, refers to the diagrams above to adjust and select the Jumper Line timer between 5S or 5MIN for the motion sensor to detect once every 5 seconds or the sensor to detect once every 5 minutes. Recommended to use "5S" default "setting for normal use. Skip "To Add" motion sensor below for newly added motion sensor before closing the sensor cover and proceed to the next step. Match the grooves of the sensor to the bracket and slide the motion sensor down from top to bottom to secure. Adjust the sensor to a proper angle and then slide the power switch located on the side to the "ON" position. The motion sensor takes 30 seconds to become active for operation (normal working state) after switching "ON". A red light will flash for motion detection, a frequent green light flashing means it is time to replace the battery.

The PIR (SM-80) sensor featured Zone Alert which send the signal to the alarm host to beep in series notifying there is someone in the front of the motion sensor in alarm Disarm mode. Each time the motion sensor detects movement the alarm host will beep 5 times. By default the Zone Alert feature is set as disable. Here are some scenario characteristics behavior of the PIR Zone Alert feature in Arm mode and in Disarm mode:

1) When Alarm Host Is In Disarm Mode:

- A) If sensing PIR detects movements, the alarm host will beep 5 times each time the PIR detect movements.
- B) Since PIR sensing device is designed to conserve battery life by active scanning for movements every 5 seconds, the alarm host may not beep 5 times when PIR scanning is inactive.

2) When Alarm Host Is In Arm Mode:

- A) If sensing PIR detects movements within 40 seconds of exiting delay time, the alarm host will charm 5 times to indicates the alarm system is in the exiting delay time. The exiting delay time of 40 seconds is the default setting, alternatively it can be change to 1 minute. Please note that the alarm system will NOT sound off if the sensing device pickup movements within this time frame.
- B) If sensing PIR detect movements after 40 seconds of exiting delay time, the alarm system will trigger the sirens and sound off normally. The exiting delay time of 40 seconds is the default setting, alternatively it can be change to 1 minute.

Zone Alert ON/OFF (SM-80 and SM-8088T alarm host)

Zone Alert ON:

Press **PRGM + Password + ENT + 92 + ENT + XX + ENT** [XX means input zone 11-15]

Zone Alert OFF (Default):

Press **PRGM + Password + ENT + 93 + ENT + XX + ENT** [XX means input zone 11-15]

**Zone Alert can be turn ON or OFF in any specific zones from 11 through 15.

**In alarm Disarm mode, when PIR sensor picked up motion, the alarm host will beep 5 times each time the PIR senses motion.

Adding and Canceling PIR Motion Sensor:

To Add:

Step 1: Press **PRGM + Password + ENT + 70 + ENT+ XX + ENT** → The "↔" light will appear solid blue.

[The XX indicate zone number of the 2nd defense line, including zones 11 through 15].

Step 2: Press the "Learning Emitting Switch" twice consecutively to trigger PIR sensor, the alarm host will beep in series, and the "↔" light flash 5 times and then turn off to indicate the PIR motion sensor has been successfully added.

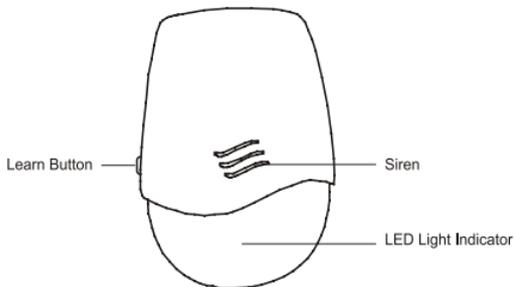
To Cancel:

Press **PRGM+ Password + ENT + 71 + ENT+ XX + ENT** → The alarm host will beep twice then the "↔" light flash once and then turn off to indicate the PIR motion sensor has been successfully cancelled.

[The XX indicate zone number of the 2nd defense line including zones 11 through 15]

Note: The alarm host can only learn 1 wireless device (Magnet Smart Door/Window Sensor) at a time, a total of 4 wireless devices (magnetic sensors) to a zone can be added. For example; for the 1st defense line, if 4 sensors were to be added to zone 06 through zone 10, there would be a total of 20 sensors in all. If 1 device is removed from a zone that contain 4 devices, then all 4 devices in the zone will be removed, and each device will have to be added again by following the “To Add” procedures above.

Wireless Indoor Siren (SM-103W)



Functions/ Features:

- Wireless receiving indoor alarm siren, spot alarm sound and flashes
- Plugs into wall outlets, for indoor use only.

Specifications:

- Operating Power: 100—240VAC
- Wireless Receiving distance: ≥210 ft (In open area)
- Siren Sound 105dB

Installation and Usage:

Plug the wireless indoor siren into an electrical power outlet and wait 30 seconds. By default the indoor siren is already paired with the alarm host unit. Recommended to install 4-5ft high from the ground. If the siren does not perform normal or do not siren, please reference the “To Add:” procedures below to program the siren to the alarm host.

After installation and setup, the siren will sound when the alarm host is triggered by the inputting sensor(s). To disable the siren sound please disarm the alarm host unit with a remote control by pressing on the unlock icon or use ESC + Password + ENT by keypad. If the alarm host is not disarm, the siren will sound off for 3 minutes and then automatically turns off after 3 minutes of alarming.

Adding and Canceling Indoor Siren:

To Add:

Step 1: Connect the siren to an electrical power outlet and wait for 30 seconds.

Step 2: Press the "Learning" button located on the left side of the siren and the siren light will come on.

Step 3: Press the "🏠" button on the alarm host (remote control not applicable) to sound off the sirens and allow the alarm to siren for 12 seconds.

Step 4: Disarm the alarm siren by using the alarm host keypad by pressing **ESC/Disarm + programming password + ENT**

Step 5: The alarm host will beep twice to indicate the indoor siren has been successfully disarmed and the light on the siren will flash 5 times to indicate the indoor siren has been successfully added.

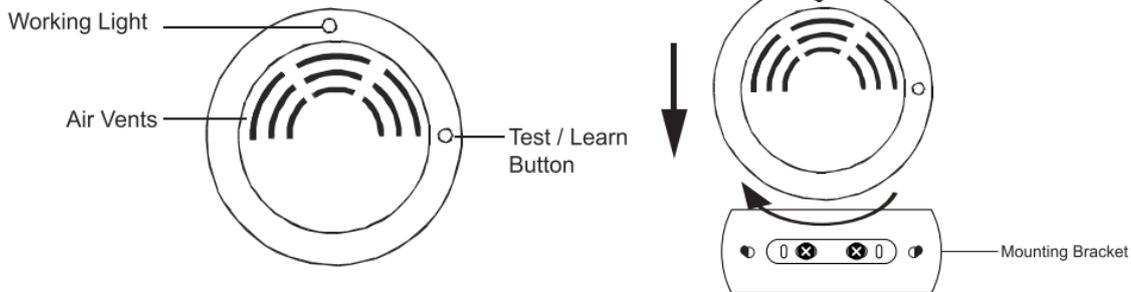
To Cancel:

Step 1: Connect the siren to an electrical power outlet and wait for 30 seconds.

Step 2: Press and hold the "Learning" button located on the left side of the siren for 5 seconds, the light on the siren will flash once to indicate the indoor siren has been successfully cancelled.

Note: The alarm host can only learn 1 wireless device (Indoor Siren) at a time, multiple wireless sirens can be added to the host. When adding wireless sirens, only operates using the alarm host keypad; do not use the remote controllers to disarm in the process of adding the siren.

Wireless Smoke Alarm (SM-93)



* Please use screw (F) for mounting bracket (see page26)

Functions/Features:

- Monitor and control indoor fire risks, for indoor use only, generally set as a 24 hour Defense Line.
- Replace the battery every 2 years (varies on usage).
- Usually installed to ceilings of living room, hallways, aisles, etc.
- Functions as a standalone smoke alarm

Specifications:

- Operating power: 9V Battery (Recommend: alkaline battery)
- Wireless Transmitting distance: ≥ 300 ft (in open area)
- Service life: ≤ 2 years
- Monitor volume: 480ft³
- Alarm sound: 70dB (built-in)

Installation and Usage:

Smoke sensor may not be part of the standard package for Air-Alarm series and may need to be added to the alarm host. To add the Smoke sensor to the host, please follow the "To Add:" procedures below. After pairing the sensor, find a suitable location to mount the mounting bracket with the two screws provided. Recommended location to mount on room ceiling, aisles ceiling or entry ceiling areas. Next, match the socket grooves of the Smoke sensor to the mounted bracket and turn clockwise to secure.

After pairing and installing the smoke sensor, the sensor will detect smoke covering an area of 480 cubic feet. The smoke sensor can then set off the alarm when smokes filled the photo electric cylinder chamber that is built inside the smoke sensor. Once the chamber is filled with certain volumes of smokes, the sensor will send the alarming signal to the alarm host to sound off the siren(s) to warn there is smoke in the premise.

Adding and Cancelling Smoke Alarm:

To Add:

Step 1: Press **PRGM + Password + ENT + 70 + ENT+ XX + ENT**  The "↔" light will appear solid blue.
[The XX indicate zone number of the 24 hour defense line, including zones 01 through 05].

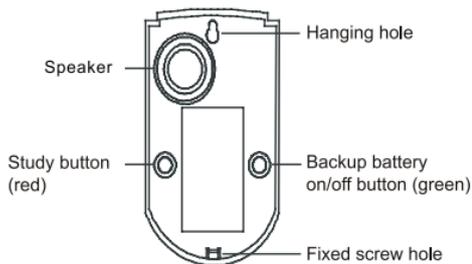
Step 2: Press the "Test Button" twice consecutively to trigger the smoke alarm sensor, the alarm host will beep in series, the "↔" light will flash 5 times and then turn off to indicate the smoke alarm sensor has been successfully added.

To Cancel:

Press **PRGM + Password + ENT+71 + ENT+ XX + ENT**  The alarm host will beep twice, the "↔" light flash once and then turn off to indicate the smoke alarm sensor has been successfully cancelled.

Note: The alarm host can only learn 1 wireless device (Smoke Alarm Sensor) at a time, a total of 4 wireless devices (Sensors) to a zone. If 1 device is removed from a zone that has 4 devices, then all 4 devices in the zone will be removed, and each device will have to be added again by following the "To Add:" procedure above.

Wireless Outdoor Siren (SM-103, optional)



• Please use screw **(G)** to mount. (see page26)

Functions/Features:

- Nice, exquisite, and weatherproof.
- Micro-computer controller, steady performance and quality.
- Study up to 10 pieces to a host.
- Built-in rechargeable battery for backup, automatic switches between AC powers to DC power in cases of emergency outage.
- Low standby power consumption, low battery voltage LED detection, resumes charging automatically.
- Wall mount installation

Specifications:

- Operating power: 110-240VAC_50Hz
- Static power consumption: ≤ 40 mA
- Working power consumption: ≤ 450 mA
- The maximum alarm sound duration with flash: 3 Minutes
- Receiving distance: ≥ 300 ft (in open area)
- Built-in Rechargeable battery 6VDC 1300mA (up to 100 hours stand-by)
- Alarm Siren Sound ≥ 120 dB
- IP51

Installation and usage:

Plug the AC cord into to an electrical power outlet and leave it plugged in to charge the internal rechargeable battery for several hours (20 hrs to fully charge). Next, press the green button to enable the backup battery located on the back side of the outdoor siren. Study the siren to the alarm host according to "To Activate:" instructions below. Unplug the siren from the electrical outlet after finish pairing to the alarm host and then find a proper location

(Outdoor/indoor) to secure the outdoor siren with the mounting screw provided and finally plug in the power cord to an electrical power outlet.

After pairing the siren to the alarm host and securing it to a fixed location, the siren is ready to received alarming signal from the Air-Alarm host. This siren is rated at 120dB, an ear piercing loud sound that could be heard blocks away. When the siren triggered, the alarm will siren off at 120dB and at the same time the red LED light on the siren will flash to alert the premise of intrusion. Disable the alarm host by pressing on the Disarm button on the remote control or by pressing on ESC + Password + ENT and the siren will turn off. The alarm sound will lasts up to 3 minutes if the alarm host is not disarmed after the 3 minutes. When the backup battery has a voltage that is equal to or less than 5VDC, the charging indicator (solid red) light will light up to represent charging. The internal rechargeable battery takes approximately 20 hours to charge.

Activating and Deactivating Outdoor Siren:

To Activate:

Step 1: Connect the siren to an electrical power outlet.

Step 2: Press the red Study button located on the back of the siren (the red siren lights will turn ON).

Step 3: Press “🏠” emergency button on the alarm host to sound off the alarm for 12 seconds.

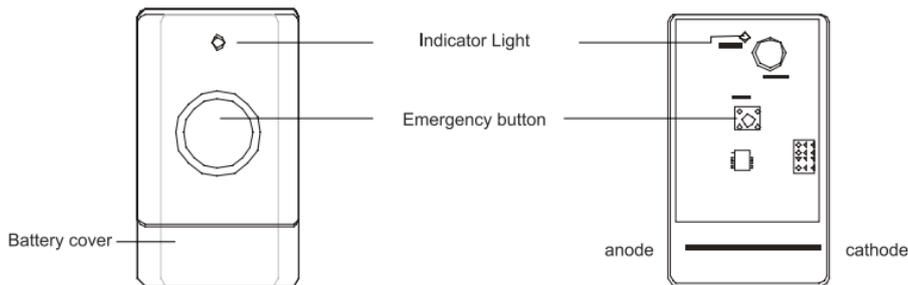
Step 4: Disarm the alarm by pressing **ESC/Disarm + programming password + ENT**, the alarm host will beep twice to indicate the outdoor siren has been successfully disarmed. The light on the siren will then flash 5 times to indicate the outdoor siren has been successfully added. When disarming the alarm, **DO NOT** use the remote controls to disarm in the “To Activate:” process.

Note: One siren can be study at a time, up to 10 wireless alarm sirens to a host.

To Deactivate:

Press and hold the Study red button for 10 seconds, the siren will flash once to indicate the outdoor siren has been successfully deactivated.

Wireless Panic Button (SM-89, optional)



• To mount, please remove the back cover and use screw (H). (see page 26)

Functions/Features:

- Used for emergency panic, generally set as a 24 hour Defense Line.
- Placed under tables, beside bed whenever panic is needed.
- Replace battery every 2 years (varies on usage).

Specifications:

- Operating power: 23A 12V Battery (Recommend: alkaline battery)
- Wireless Transmitting distance > 450ft (in open area)
- Service life: < 2 year

Installation and Usage:

Install in living rooms, bedrooms, carry along, etc. For emergency use, scared away intruders; sends out emergency signal to alarm host to sound off the siren(s). This is a 24 hour standby device for emergency use only. Please replace the battery when the signal distance becomes weak or replace them every 2 years.

Adding and Cancelling Panic Button:

To Add:

Step 1: Press **PRGM + Password + ENT + 70 + ENT+ XX + ENT**  The "☞" light will appear solid blue.
[The XX indicate zone number of the 24 hour defense line, including zones 01 through 05].

Step 2: Press the "Alarm" button twice consecutively, the alarm host will beep in series, the "☞" light will flash 5 times and then turn off to indicate the panic button has been successfully added.

To Cancel:

Press **PRGM + Password + ENT+ 71 + ENT+ XX + ENT**  The alarm host will beep twice, the "☞" light will flash once and then turn off to indicate the panic button has been successfully cancelled.

Note: The alarm host can only learn 1 wireless device (Panic Button) at a time, a total of 4 wireless devices (Panic Buttons) to a zone. If 1 device is removed from a zone that has 4 devices, then all 4 devices in the zone will be removed, and each device will have to be added again by following the "To Add:" procedure above.

Air-AlarmII/B (Standard Kit) Defense Zone Code Chart:

Defense Zone Code	Defense Zone Type	Bypass Zone	Delay Time to Alarm	Compatible Accessories	Remark
00	---	No	No	Wireless Remote Controller & Wireless Remote Control Keypad	Up to 10 RC
1 to 5	24-hour Defense Line	No	No	Wireless Smoke Alarm, Wireless Gas Alarm, & Panic button.	Each defense zone supports up to 4 wireless devices.
6 to 10	1st Defense Line	Yes (zone 11 to 15)	Yes	Wireless Door Magnet & Wireless Curtain PIR Sensor	
11 to 15	2nd Defense Line	Yes (zone 6 to 10)	Yes	Wireless Wide-Angle PIR Motion Sensor	

Manufacturer Wireless Default Setting:

Wireless Sensor Type	Remote Control	Wireless Smart Door/Window Sensor	Wireless Wide-Angle PIR Motion Sensor	Wireless Doorbell Button	Wireless Curtain 10 PIR Sensor (N/A)	Wireless Smoke Alarm	Panic Button
The default Defense Zone Code	00	06	11	10	---	---	---

Note: If after setup the alarm system becomes uncontrollable or abnormal; please remove or cancel all of the default setting of the wireless devices such as the remote control, door/window sensor, wide-angle PIR motion sensor, smoke alarm, doorbell, and then add (re-program) them back into to their defense zone.

Common Problems and Solutions

Problems	Possible Cause	Solutions
The alarm host sounded off immediately after connecting the power	The telephone incoming line has not been connected, poor connection or short circuit.	Double check, test and secure the incoming telephone line or use a standard phone to test the line to ensure working status.
The alarm host cannot record or partially records	The Record buttons not pressed down and held while attempting to record, or not held down all the way.	Securely press and hold down the RECORD button during recording. Speak up close to the rear speaker of the host.
Repeatedly receiving the alarm telephone	No one picked up the alarm calls or failure to press the * star button to end/drop the call.	After answering the alarm phone calls and hearing the recorded message: please advanced to page 7 (Telephone Alarm) of this user's manual as a reference to try to resolve this problem, or simply press the * star button to end the call.
The alarm host does not sound the alarm after the detector triggered the alarm in armed mode.	<ol style="list-style-type: none"> 1. The wireless devices may not have synchronized with the alarm host. 2. The dwell time for Entry Delay or Exit Delay has not been reached. 	<ol style="list-style-type: none"> 1. In "Home" mode, make sure the sensor or wireless devices triggering is not in the 2nd Defense Line. Simply cancel the wireless devices and add them in again to synchronize with the host. 2. Ensure the sensor detectors are not active within the system setup Entry Delay Time or Exit Delay Time, default delay time is 40 seconds
The PIR motion sensor does not work	Weak battery power, not switched on, or the PIR motion detector is in the power-down mode	Open the sensor shell to install the battery and slide the power switch to "On". Power down mode may be in affect: "5S":detectonceevery5seconds"5MIN":detectonceevery5 minutes, please refers to the user's manual for PIR setup.

<p>The detecting distance of PIR motion sensor gets shorter</p>	<p>The ambient temperature in the detecting area is too high.</p>	<p>When the ambient temperature in the detecting area exceeds the human body temperature, the detecting distance will get shorter, it's normal.</p>
<p>The alarm host does not alarm after the new added wireless detector is triggered.</p>	<p>Failed to follow the operation instruction of "Adding and Cancelling" sensors/ devices of newly added wireless sensor(s)</p>	<p>Follow the operation instruction of "Adding and Cancelling" to activate the new wireless sensor(s)</p>
<p>The PIR motion sensor flashes frequently in green.</p>	<p>Battery is drained or low.</p>	<p>Replace with new battery of the same voltage specification.</p>
<p>The door/window sensor indicator flashes frequently in green after alarming.</p>	<p>Battery is drained or low.</p>	<p>Replace with new battery of the same voltage specification.</p>
<p>The distance of the remote controller gets shorter.</p>	<p>Battery is drained or low.</p>	<p>Replace with new batter of the same voltage specification.</p>

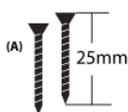
Daily Maintenance and Care

This alarm system is hi-tech with outstanding design functionality and sophisticated product features which should be used carefully. To make the alarm system operable long term and prolong the service life; the following are strongly recommended:

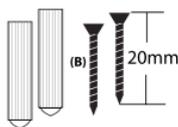
1. Install the alarm system and alarm host in dry and well ventilated locations.
2. Do not put the alarm host or any wireless sensors in extreme cold, extreme heat or excessively dusty places. This is to prevent shortened lifetime of the products, including the internal electronic parts and the plastic housings from being exposed to harsh conditions.
3. Do not install the wireless alarm system in low, easy to reach, and exposed places to prevent the children from tampering with or thieves easy access.
4. Regular scheduled testing is necessary to help prevent system failures and resolve problems in time.
5. Check batteries in all wireless sensors and replace them as needed to ensure normal operation.
6. Power off and remove all batteries from all wireless system before storing them on shelves.

Accessories

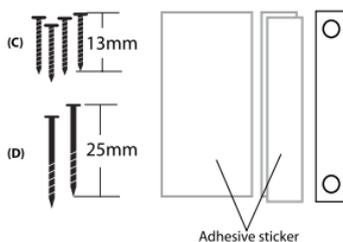
For the warning sign



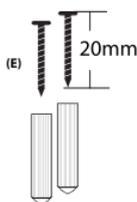
For the alarm host



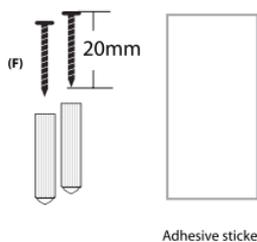
For the Smart Door/Window Sensor



For the PIR

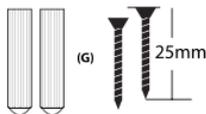


For the Doorbell Button

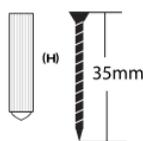


Add-on(optional):

For the smoke sensor



For the outdoor siren



For the panic button



Frequently Asked Questions

Q1: If I have an answering machine turned on will I be able to call in to arm/disarm the host?

A1: No, please be sure to turn off the answering machine on the telephone for the alarm host to be able to receive incoming calls. The fact that most answering machines will answer within 6 or 7 rings and our Air-Alarm system requires about 15 seconds in order to receive incoming signals and allow arm/disarm, the answering machine will pick up the signal before Air-Alarm host if the answering machine is not turned off while away from home.

Q2: How can I tell if my Air-Alarm is correctly armed before leaving home?

A2: Please make sure to arm the alarm host and check to see if the blue LED light comes on armed, once certain then leave home. From the moment it is armed, there will be 40 seconds to 1 minute delay time to leave home depending on the dwell time setup.

Q3: My siren is not loud enough; I could barely hear them when I am standing outside?

A3: Install the siren closer to the windows, open space, add more indoor sirens or add an outdoor siren for louder siren sound.

Q4: Do the antennas on the Air-Alarm system have to be extended outward for normal use?

A4: No, extending the antennas outward may not be necessary if the area of installation has adequate reception. However, in an area with weak reception, extending the antenna will provide maximum performance.

Q5: Does the Air-Alarm support dial-in to arm/disarm if it is installed behind a multiple line digital phone system?

A5: No. Currently Air-AlarmII series can only function through a dedicated phone line, such as; a PSTN (Public Switched Telephone Line), home phone line (aka. POTS - plain old telephone service). Air-Alarm do not support VOIP (Voice Over Internet Protocol) digital telephone service.

Q6: My Air-Alarm Host intermittently sounds off the alarm during disarm mode?

A6: Please switch the power on the left side of the Alarm Host to the OFF position and disconnect the power jack from the Host. Wait for several minutes and then plug the power jack back into the Alarm Host and switch the power to the ON position.

Q7: The Air-Alarm was working and now the wireless devices will not trigger the Alarm Host?

A7: Please follow the "To Add:" instructions for each device and add all the wireless devices back to allow synchronization with the Alarm Host.

Q8: When I switch on my PIR motion sensor it continuously triggers the Alarm Host even when the Host is not armed?

A8: Turn OFF the PIR sensor, open the cover of the PIR sensor, place the PIR sensor towards a wall to avoid fault triggering, reference pg12 of the manual "To Add:" the PIR sensor again to zone 11 (default zone for PIR sensor).

Q9: Do I need to add each of the wireless devices that comes with the kit to the Alarm Host?

A9: No, each wireless device inside each Air-Alarm kits is already added by default.

Q10: How can I clear the enlisted telephone numbers from the list?

A10: To clear the enlisted telephone numbers press PRGM+password+ENT+01 (01-05 group no.)+ENT+ENT Or simply add the enlisted telephone numbers to the same group to override the old.

Q11: My Alarm Host keeps on triggering during in coming and out going calls?

A11: Please disable the "Telephone Disconnection Alarm" by entering the following command
PRGM+password+ENT+60+ENT

Q12: How does SM-80 PIR Motion Sensor work and why is it not sensitive enough?

Q12: SM-80 PIR Motion Sensor areas of detection is 110 degree, 30x30ft. It is immune to animals that are equal to or less than 10kgs in weight, ie. dogs, cats, etc.

- 1) SM-80 can become less sensitive if the battery becomes weak; replace new 9VDC battery.
- 2) Try removing the sensor by following the "To Cancel" procedure in the user's manual and then follow the "To Add" and add it into another zone of the Alarm Host.
- 3) Power cycle both PIR motion sensor and Alarm Host.

Here is some examples of testing methods that is not recommended for SM-80 PIR Motion Sensor:

- Shaking one hand in the front of the PIR Motion Sensor. It might not sense well because the IR radiation from one hand may be too small to detect.
- Moving an object (none temperature object), like a stick in the front of the PIR Motion Sensor. It may not sense because sticks in general does not emit IR radiation.
- Moving out of the detection areas.

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