

7. General Reminders

- 7.1 If the alarm system is temporarily not in use, keep it in a proper area to avoid the following conditions:
 - a. Direct exposure to sunlight
 - b. Very high or low temperature areas
 - c. Away from very humid and dusty areas
 - d. Disconnect the batteries of the Control Panel and other accessories.
- 7.2 When in use, the Control Panel, switches, sensors and detectors must be placed or installed under stable conditions.
- 7.3 The Control Panel, switches, sensors and detectors are not advisable to be placed or installed at the area with heavy magnetic interference.
- 7.4 To maximize the signal transmission, accuracy, and extend the life span of the batteries, all antennas should be extended to the maximum.
- 7.5 Do not try to repair the alarm system. It will affect the validity of your warranty. Consult your local authorized dealer.



User Manual

Wireless Intelligent Alarm System

HM2078



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Acknowledgement:

Thank you for choosing our Home/Commercial Wireless Intelligent Alarm System.
To achieve optimum performance of the system, kindly read the manual.

Item	Issues	Possible Cause	Solution
12	Unable to activate Long Distance Remote Control the Control Panel via Telephone	Key in wrong Password	Key in password again.
		Password keyed in too fast	Key in password slowly.
13	Additional detector unable to match the coding with Control Panel	The frequency of the detector is different from Control Panel	Make sure both detector and Control Panel is same frequency
		The coding chips of detector is not compatible with Control Panel	Make sure the coding chips of detector is compatible.
14	Control Panel disarm automatically	Control Panel accidentally saved signal that can cause interference	Erase it and reset
		The disarm button of Keychain Remote Control has been depressed.	Release the depressed disarm button
15	Control Panel occasionally trigger false alarm	Motion Sensor located at the area near to pets activities.	Re-adjust the motion sensor location.
		Motion Sensor located at the area near to window that is heavy in air circulation.	Re-adjust the motion sensor location
16	Unable disarm by Keychain Remote Control or need to shorten the distance to disarm	The Control Panel is in the process of auto-dialing	Wait till it finishes auto-dial then you may disarm
		Keychain Remote Control battery is low energy	Change the battery

Item	Issues	Possible Cause	Solution
6	Alarm is triggered but the alarm LED light is not on	Telephone line to Control Panel may not be connected properly	Ensure the telephone line to Control Panel is well connected
		The preset auto-dial number is not programmed	Program the preset auto-dial numbers
7	Control Panel can auto-dial to preset mobile phone numbers, but the success calls rate is inconsistent	The telephone line connected to Control Panel is over loaded with too much extension lines	Change to a non extension telephone line.
		The reception signal of the mobile phone set is not stable.	Change it to fixed telephone line or new mobile phone set.
8	Control Panel can auto-dial to preset mobile phone numbers, but the success calls rate is inconsistent	The telephone line connected to Control Panel is over loaded with too much extension lines	Change to a non extension telephone line.
		The reception signal of the mobile phone set is not stable.	Change it to fixed telephone line or new mobile phone set.
9	Control Panel can auto-dial preset telephone number but cannot activate the siren	Activated the Silent Alarm feature. (For Model 2088 series onward)	Deactivate the Silent Alarm feature.
		The siren jack not plug-in properly	Plug the siren jack properly.
10	Alarming LED light always on	Control Panel not disarmed properly	Disarm again.
11	No voice message when receive telephone call.	The telephone line connected to Control Panel is over loaded	Use a non-extension telephone line

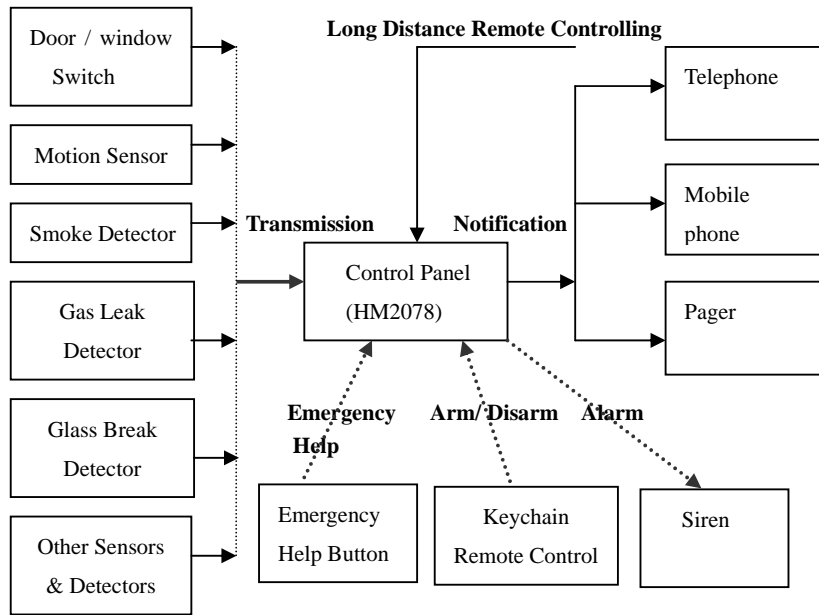
1. System Overview

The newly developed alarm series, Homes/Commercial Digital Wireless Intelligent Alarm System Model HM2078 has a Micro-Processor Chip and Wireless RF Control Technology to ensure the reliabilities, easy installation and operation of the system.

The system consists of a Control Panel that can be installed inside any hidden area of the office or home, and the monitoring sensors such as Wireless Infrared Motion Sensor, Wireless Door/Window Magnetic Switch, Wireless Smoke Detector and Wireless Gas Leak Detector etc. are mounted on the spots that require monitoring. When the system is armed, any of the sensors/switches/detectors detects a signal will wirelessly transmit signal to the Control Panel. It will then trigger the siren and immediately autodial the preset phone numbers and transmits the pre-recorded alarm voice message to the phone owner. When the alarm signal received, the owner can take the appropriate actions or report to the police accordingly. All processes will only take a few tens of seconds.

The additional feature is in case of an emergency at home for the aged persons or children, the Emergency Help Button can be pressed to activate the autodialing pre-set telephone to ask for help. The Alarm System will guard your home when you are away or resting.

2. System Workflow



3. Functions and Features

3.1 Functions

- 3.1.1 Arming & disarming by Keychain Remote Control
- 3.1.2 Long distance remote control by any telephone
- 3.1.3 Alarm siren buzzing to warn for illegal intrusion or possible intrusion
- 3.1.4 Alarm reporting on illegal entries by PIR Motion Sensor and Magnetic Door / window Switches
- 3.1.5 Smoke & fire alarm
- 3.1.6 Toxic gas leaking alarm
- 3.1.7 Auto dialing to preset phone numbers for alarm notification

3.2 Features

- 3.2.1 Easy installation and simple operation
- 3.2.2 Tamper proof system on telephone line being cut
- 3.2.3 Priority calling when alarm triggered
- 3.2.4 Data input will be retained when power failure
- 3.2.5 Accessories expandable up to a maximum 99 points and paired with fixed code

6. Trouble Shooting

Item	Issues	Possible Cause	Solution
1	Telephone line is in working condition, but unable to make call to preset telephone numbers when alarm is triggered.	Telephone line to Control Panel may not be connected properly	Ensure the telephone line to Control Panel is well connected
		Pre-set auto-dial numbers is not properly programmed.	Program the preset auto-dial numbers in accordance to the user manual.
2	Control Panel trigger siren immediately while enter arming status, but no auto-dial was made.	Telephone line to Control Panel may not be connected properly. (Activated the anti-cut function)	Ensure the telephone line to Control Panel is well connected
3	Control Panel is in working condition, but the detector has no response	The batteries energy of detector is low.	Change batteries
		Interference of external signals	Test the Control Panel and detector in close range
		The battery is not well connected	Reinstall the battery or clean the battery contact point
4	During the disarming status, siren triggered and auto-dial the preset telephone numbers	One of the detectors might coded with Emergency Mode coding	Reset the coding of the detector according to the type of detector
		Control Panel saved signal that can cause interference	Delete the saved signal of the Control Panel and reset the coding of detectors
5	No response from Control Panel when power is on	The power supply is not well connected or not in working condition,	Reconnect the power supply and make sure it plug-in to right port or change the new adapter.

5.3.6 Notification (when away from premise)

When the alarm is triggered, the user (pre-set number) will receive a call with the pre recorded voice message. The option/ next course of action are:

- Press the “#” key of your phone to stop the siren.
- Ignored it, the siren will continue and the Control Panel will auto dial the next pre-set numbers according to priority.
- The process of auto-dialing will continue until someone acknowledges it with “#” key.

Reminder: Should you be away for long period of time and cannot be reached, it is advisable to set numbers based on your other priority of pre-set number.

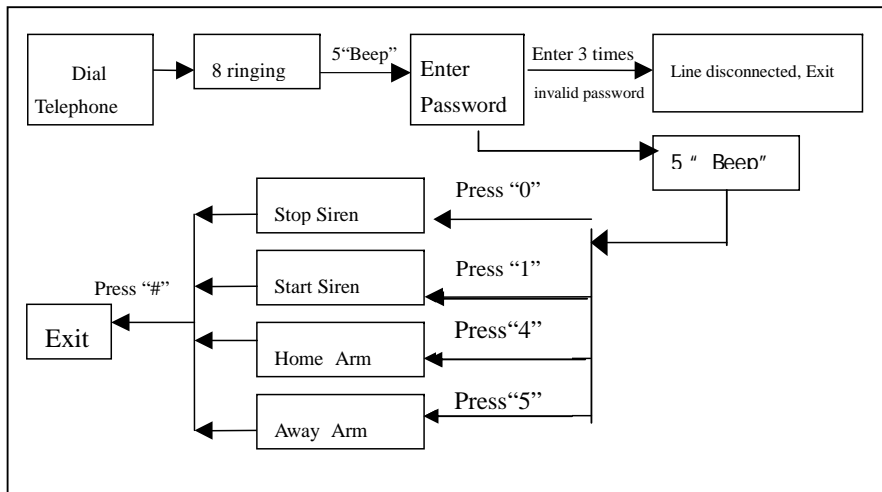
5.3.7 Identifying Alarm Message by Incoming Call

- Double “Beep” every 2 seconds means Smoke alarm
- Single “Beep” every 2 seconds means Gas Leakage alarm
- No sound (except for voice message announcement) indicates that the alarm is triggered by Door Switch, Motion Sensor or Emergency Help Button to confirm password.

5.3.8 Long Distance Remote Control

- Dial the Telephone number connected with the Control Panel.
- After 8 ringing tones, a five beeping sound will be heard
- Enter the Password. Another five beeping sound will be heard to confirm password.
- Press “0” to stop siren, Press “1” to start siren, Press “4” for Disarm/ Home Arm or Press “5” for Away Arm.
- Press “#” to exit from program.

Reminder: It will not work if someone picks up the telephone immediately. If you key in wrong password (3 times), the line will be disconnected automatically.



4. Unit Descriptions

4.1 Standard Accessories:

4.1.1 Control Panel

Control Panel is the device to receive signal from sensors, switches and detectors. Once a signal is being received, it will immediately trigger the alarm via the siren and call the preset telephone line simultaneously for alarm notification.

a. Panel Board illustration



b. LED indicator light on Control Panel Board (from left to right)

- **Arm:** Away Arm – the LED is lighted
Home Arm – the LED light will flash
- **Alarm:** The LED light is on when alarm is triggered
- **Low Voltage:** The LED light is on, when voltage is low, need to change the back-up battery
- **Power:** The light is on, when power on

c. Back-Up Batteries





Slide off the cover at the back of the Control Panel. Place the battery into the battery compartment, then close the cover plate. Do not make any short connection of the battery terminals under any circumstances. The battery can provide about 36 hours of power to the Control Panel when the power down.

4.1.2 Keychain Remote Control

The Keychain Remote Control can be used to operate the Control Panel.

Functions are as following:



-  - Away Arm
-  - Home Arm (for Smoke & Gas Leak Detector only)
-  - Disarm
-  - Emergency Help

4.1.3 Indoor Wired Siren

When alarm system is in alarm mode, the siren will emit a loud sound of 110db. It can be installed on any location with enclosed adhesive tape or screws and connect it to siren port of Control Panel.

Note: The duration of the alarm sound from Siren is approximately 12 minutes to ensure this duration of siren, you must program 6 sets of pre-set telephone numbers.

4.1.4 Wireless Magnetic Door/Window Switch

It consists of 2-piece unit. You can locate the switch unit and magnet bar onto two frames of the door or window. When the door or window frames are separated, i.e. the switch unit and the magnet bar are separated, the switch unit will send the signal to the Control Panel to trigger the alarm siren and then auto dial the pre-set phone numbers.

4.1.5 Wireless Motion Sensor (PIR)

The wireless Motion Sensor adopts wireless digital and microprocessor technology with low energy consumption design. The core technology of the infrared detector, the operational amplifier chip, employs specially designed mask (three sets of built-in operational amplifier, capable of processing digital and analog signals simultaneously), which makes it a highly intelligent detector with wireless transmission of digital signals combined with low energy consumption.

4.2 Optional Accessories

4.2.1 Wireless Smoke Detector

The Wireless Smoke Detector is widely used in professional security & protection alarm system. It will send RF signal to the Control Panel when it detects smoke. It is recommended to locate this unit at a less or non-smoke area.


4.2.2 Wireless Gas Leak Detector

The Wireless Gas Leak Detector is widely used in professional security & protection alarm system. It will send RF signal to the Control Panel when it detects natural gas, piping coal gas and liquefied petroleum gas etc.

4.2.3 Wireless Emergency Help Button

The Wireless Emergency Help Button is a wireless Remote Control Unit. In the event of emergency, just press the Emergency Help Button.

5.2.3 Voice Message Recording

- Step 1: Press “” key of the Keychain Remote Control
- Step 2: Press and Hold the Program Key
- Step 3: Start recording when alarming LED is light
- Step 4: Record 10 second voice message into “Record” port of the control Panel (Bottom right) Sample of message: “Help! Help! Help! Alarm is triggered at No 86, Jalan SS2/33, Petaling Jaya, please help!”
- Step 5: Release the Program key

Note: The message can be re-recorded anytime by following the above steps. Any languages can be used to suit your practicality, as long as the voice projection are loud and clear.


5.3 Operations

5.3.1 Away Arm:


Press  of the Keychain Remote Control, a “beep” sound will acknowledge successful of fully arming.

- a. Smoke and Gas Leak Detector will be on arming mode instantly.
- b. Magnetic Door/Window Switch and Motion Sensor need approximately 30 second to enter arming mode. This is to allow the user to have enough time to leave the monitored or detected area.
- c. The Arm LED will light after 30 seconds.


5.3.2 Home Arm

Press  of the Keychain Remote Control, a “beep, beep” sound will acknowledge successful of partial arming. In the partial arming, the Control Panel will not receive any signal from Magnetic Door/Window Switch and Motion Sensor. However it will receive signal from the Smoke and Gas Leak Detector which are still in arming status.


5.3.3 Disarm

Press “” key of Keychain Remote Control to enter disarming status, a “beep, beep” sound will acknowledge successful disarming and the Control Panel will not receive any signal from Magnetic Door/Window Switch, sensors and detectors, except signal from Emergency Help Button.

5.3.4 Emergency Help

Press  Key of the Keychain Remote Control, the Control Panel will automatically trigger the siren and immediately autodial to the pre-set telephone numbers.

Note:

When the alarm is triggered, the siren cannot be stopped immediately by pressing “” key of the Keychain Remote Control. It is because our intelligent alarm system will stop all functions and give priority to call the pre set telephone numbers. The siren can be disarmed after 5 – 10 seconds.

5.3.5 Anti-cut

During armed status, if the telephone line is cut, the Control Panel will automatically trigger the siren.


Note: This feature will not be practical if your telephone is unstable.

- Step 4: Lift up the handset of Telephone unit
- Step 5: Press 0128881234*1# on the keypad of telephone unit
- Step 6: The control Panel will emit 3 Beeping sound to confirm successfully programming
- Step 7: Repeat the same steps for the balances 2nd, 3rd, 4th, 5th & 6th set of telephone numbers.

b. **To Program Telephone Number on extension line**


Just by adding “0” or “9” (depend on telephone system setting) in front of each telephone number.

Example: To set 0128881234 as 1st set of Telephone Number on telephone system that need press 9

- Step 1: Press the “” key of the Keychain Remote Control
- Step 2: Press Program Key on the Control Panel
- Step 3: Alarming LED will light
- Step 4: Lift up the handset of Telephone unit
- Step 5: Press 90128881234*1# on the keypad of Telephone unit
- Step 6: The control Panel will emit 3 Beeping sound to confirm successfully programming
- Step 7: Repeat the same steps for the balances 2nd, 3rd, 4th, 5th & 6th set of telephone numbers.

c. **To delete the Stored Telephone Number**


Example: To delete 0128881234 as 1st set of Telephone Number.

- Step 1: Press the “” key of the Keychain Remote Control
- Step 2: Press Program Key on the Control Panel
- Step 3: Alarming LED will light
- Step 4: Lift up the handset of Telephone unit
- Step 5: Press *1# on the keypad of Telephone unit
- Step 6: The control Panel will emit 3 Beeping sound to confirm successfully programming.

Note: When there is an error during entry of telephone number, press “#” to exit and reset.

5.2.2 Password setting

The default password is “1234”, you may change this password according to the following steps.

- Step 1: Press “” key of the Keychain Remote Control
- Step 2: Lift up the handset of Telephone unit
- Step 3: Press Program Key on the Control Panel
- Step 4: Alarming LED will light
- Step 5: Key in your “new password” (total 4 digitals) and follow by “*0#” on the keypad of telephone unit
- Step 6: The control Panel will emit 3 Beeping sound to confirm successfully programming.

Note: The password can be reset anytime.

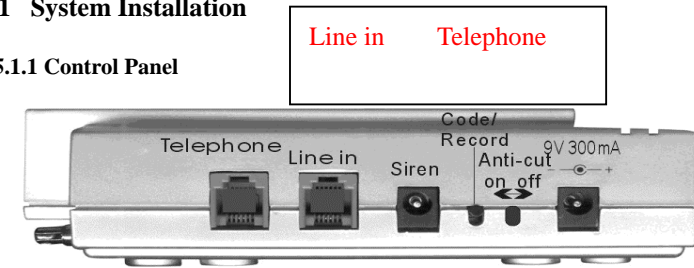
4.2.4 Wireless Glass Break Detector

The Glass Break Detector delivers effective coverage in the presence of plate, tampered, and laminated glass, with easy sensitivity adjustment. The optimal performance is dependent on the secured and vibration-free mountings. The Glass Break Detector can be used in most protected areas, including glass display panel and rooms with blinds, curtains, or multiple windows, as long as careful coverage tests are conducted.

5. System installation, Settings and Operations

5.1 System Installation

5.1.1 Control Panel



The Control Panel can be placed or install on desk or on the wall (preferably a hidden spot but easily accessible)

- Step 1: Connect the AC adapter. Insert the adapter jack to the “9V 300mA” port of the Control Panel. Then plug in the AC adapter into an electrical source
- Step 2: Connect an incoming Telephone line to “Line in” port
- Step 3: Connect desktop telephone set to “Telephone” port
- Step 4: Insert the Siren jack into the “Siren” port.

Reminder:

In order to ensure the alarm system operate properly, all the above cables must be well connected.

5.1.2 Wireless Magnetic Door/Window Switch

The Wireless Magnetic Door/Window Switch is equipped with a magnet bar (movement of the magnet triggers an internal sensor in the switch). We recommend locating the switch unit on the wall at the frame of the door or window, with the magnet bar on the moving part of the door or window.

- Step 1: Open the switch’s cover by screwdriver
- Step 2: Install the switch to the desired location, using the two screws or adhesive tape
- Step 3: Ensure the antenna is vertical (pointing up or down).

- Step 4: Attach the magnet bar using the screws or adhesive tape to the moving part of the door or window. The gap between the switch and magnet bar should not be wider than 1.5cm when the door is closed.
- Step 5: Opening and closing of the door/window will be confirmed by the switch's LED.

Reminder:

If the switch or magnetic bar is fix directly on a metal surface, one is advisable to pre-attach an insulator (plastic piece) in order not to affect the signal transmission strength of the units.

5.1.3 Wireless Motion Sensor (PIR)

- Step 1: Pry off the back plate with a small screwdriver, and install the provided battery into the back of PIR detector.
- Step 2: Mount the bracket with screws provided at any place you think has the best coverage by the PIR sensor. Recommended height is about 2.1 meters above the floor.
- Step 3: Mount the PIR sensor onto the bracket. The maximum distance coverage area is up to 12 meters, and it has a detection angle of: 120 degree horizontally, 60 degree vertically.

Reminder:

Do not place the detector close to any heating/cooling vents or near any other object that often changes temperature.

The PIR detector should not be placed near any item that generates a strong electromagnetic signal. (transmitters, electronic regulators etc.). Avoid locations that have intense air circulation.

5.1.4 Wireless Smoke Detector

- Step 1: Install the detector to the desired location.
- Step 2: Drill two holes on the wall or ceiling per the whole sizes of the mounting Bracket.
- Step 3: Fix the mounting bracket on the wall or ceiling with the screws.
- Step 4: Twist and lock the detector with the mounting bracket.
- Step 5: Do not try to open the unit by yourself. You should only pry off the back plate and install the battery.
- Step 6: Press the test button to confirm that the installation is successful.

5.1.5 Wireless Gas Leak Detector

- a. Install the detector per the density of gas.
- For the Natural gas and piping coal gases lighter than air, install it close to the ceiling (lower 0.3~1.2 meters).
 - For the liquefied petroleum gases (LPG) which is heavier than air, install it close to the floor (higher than 0.3 to 1.2 meters and inside the range of gas source with direct 1.5 meters).

- b. The detector should not be located near any areas that emit gas (cooking area).
- c. The detector should not be located close to any obstacles (curtain or cabinet etc.)
- d. The detector should not be located in the bathroom or any area with too much vapor.

5.1.6 Coding/ Pairing

The accessories have been coded with the Control Panel and it is ready to be used directly. The Coding/pairing function is only applicable for additional or new Keychain Remote control, Magnetic Door/Window Switches, Motion Sensors and other accessories.

a. Keychain Remote Control

- Step 1: Open the cover of the existing unit
- Step 2: Open the cover of the new unit
- Step 3: Solder the new remote control based on the codes from the existing remote control

b. Wireless Magnetic Door/Window Switch

- Step 1: Open the cover of the existing unit
- Step 2: Open the cover of the new unit
- Step 3: Make the coding at new unit according to the code from existing unit


c. Sensor or other detectors

- Step 1: Open the cover of the existing unit
- Step 2: Open the cover of the new unit
- Step 3: Ensure the codes are the same as the existing one, by adjusting the code to the new one

Reminder:


Should you face any difficulties, please refer to your local supplier.

5.2 System Settings (all functions settings must be under Disarming Status)**5.2.1 To Program Telephone Numbers** (maximum 6 sets of numbers)

Press the “” key of the Keychain Remote Control to enter disarming status, then press Program Key on the Control Panel. When the arming LED light appear, pick up the telephone handset and input the designated telephone numbers follow by input *1#, repeat same process for the 2nd set pre-set number and end with *2#. The rest are the same except for signing off with *3#, *4#, *5# and *6# respectively after each entry. *1# is memory No 1, *2# is memory No 2 and so on.

Note: With the completing program the 6 set of numbers will maximize the duration of Alarm Buzzing to approximately 12 minutes.

a. To Program Telephone Number

- Example: To set 0128881234 as 1st set of Telephone Number
- Step 1: Press the “” key of the Keychain Remote Control
- Step 2: Press Program Key on the Control Panel
- Step 3: Alarming LED will light