

# User Manual

## GP11



CREATING SECURITY SOLUTION

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## *Specifications*

- 32 wireless zones and 2 wired zones
- Periodic supervision for wireless PIR and magnetic switch
- App(available in Google play and Apple store) control
- Window/door open remind
- User account / zone naming
- GSM/SMS alarm selectable
- Built-in rear tampers for control panel
- 200 event logs with time indication
- Built-in siren (85dB), compatible with wired external siren and 3 wireless sirens
- Alarm linkage output: PGM x1
- AUX power output x1
- 4 for private phones Numbers(or mobiles)
- 8codes: 1 for installer, 1 for master, 1 for temporary, 1 for duress and 4 for users
- Support 6 keyfobs
- Support 6 RFID Tags

## *Introduction*

### *General System Overview*

Thank you for choosing our wireless alarm kit, which offers an innovative all-in-one solution with all aspects of security and connectivity covering a full range of wireless accessories.

### *Window / Door Open Remind*

The Control Panel can recognize and record the door contact condition. Users can set as forbid arm or allow arm but with remind system problem. Also can choose to close the "Window / Door Open Remind"

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## *User Account / Zone Naming*

Each Wireless Zone / Code can be given a 16 character name. Names can be given either when first adding a Zone / Code or by editing them later. All names can be deleted only in "Initialize All". The name will be show in event log or SMS.

## *APP Control*

After install the APP software, users can use smart phone to control some function of panel, like: Arm, disarm, bypass, turn on / turn off siren etc. each processing in APP, mobile phone will send one charge SMS to control panel.

## *Number Of Devices*

Users can install up to 32 wireless devices to the system. including door/window contacts, PIRs and smoke detectors, up to 2 wired detectors, 6 keyfobs, 6 RFID Tag, 3 wireless sirens, 1 wired siren and 1 PGM.

## **GSM / SMS**

Featuring GSM dialing or SMS send optional, it offers multiple performance options and the flexibility.

## *Supervision For Accessories*

Activating periodic supervision for accessories, it ensures system safety.

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1 、 Easy Install

2 、 Using System

3 、 Using System - More Details

4、 Menu System in Detail

5、 Troubleshooting

6 、 Parameters

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## 1: Easy Install

After unpacking the kit and making sure that you have all the necessary equipments, it is recommended that you install the system as following:

### Step 1: Open the housing

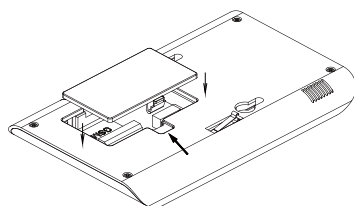


Figure -1-

### Step 2: Insert the SIM

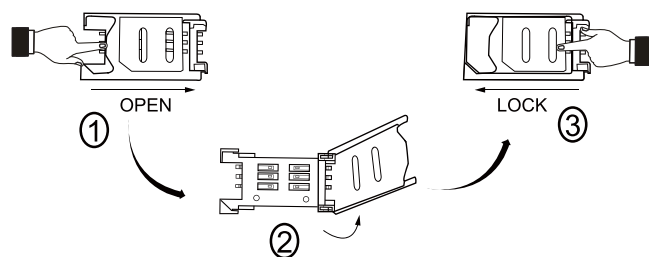


Figure -2-

### Step 3: Connect external devices

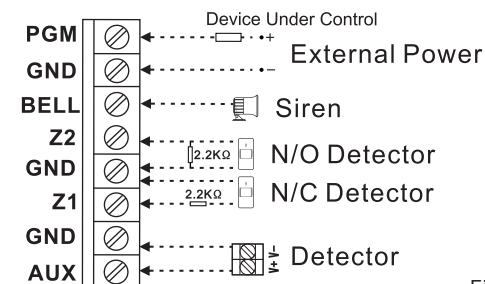


Figure -3-

#### Wired Siren Connection

The max drive of BELL terminal is 400mA / 12VDC. Connect the bell power line to "BELL" and "GND". Users can try to program via keypad to set if the siren beeps and how long it beeps.

**Note:** The wired siren is invalid only with backup battery.

#### AUX Power Output Terminal

AUX supplies power output for wired detectors (AC Operated: 10-12V, Battery Operated: 6-8V, max current: 100mA. It may cause abnormal working for wired detector under low battery).

#### Alarm Linkage Output: PGM

- The maxload of PGM output is DC25V/500mA. Boolean value is output with PGM on connected with GND of PCB board.
- PGM can connect to wired siren, indicator, electronic lock(Figure 4-1), and it also connect CCTV camera and DVR for alarm input(Figure 4-2).

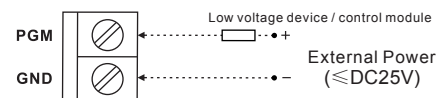


Figure -4-1-

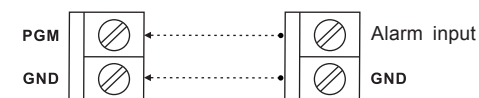


Figure -4-2-

- Setting PGM triggered by programming setting, when meet triggered condition, PGM connected, see pages related to PGM

**Note** PGM only compatible with low voltage (DC) control board. It shall not be connected with city power (AC) directly.

## Wired Devices Connection

The system supports different kinds of wired detectors with EOL resistance. Please connect as following:



Figure -5-

## Step 4: Power on the control panel

Re-check the wiring and make sure all connection is correct. Connect the AC power adaptor and turn the backup battery on.

Parameters of power adaptor: Input: 100V-240VAC 50/60Hz 0.5A, Output: 12VDC 1.5A.  
Backup battery: 7.2V 800mAh Li rechargeable, 24 hours is required for full recharge which can last around 8 hours for this system under standby situation. After low battery warning, it can work for around 30 minutes.

The system will keep the time and date with time chip powered. If the power of time chip runs out, users need to re-set the time manually. The icon will move to next automatically after each input. Press “\*” to exit. After complete input, press “#” to confirm. If the input is not finished, and meanwhile “\*” is pressed, it will display on the LCD “Invalid Set!”. Pls press “\*” to re-input it.

**Note** There will not alarm when anti-tamper was triggered, only flashing remind, In three hours power on.

## Step 5: Register Transmitters

Transmitters refer to wireless devices such as detector, magnetic contact, siren and keyfob, etc. Only after enrolling can transmitters be recognized by the control panel.

### To register a device:

1. During disarm, press “⚙”. With voice guide “Enter password before setting parameters!” Input the installer code with “#”.
2. For specific register process, pls refer to Device Set/Zone/WL.Register.

**Note** Please take off the battery before enrolling, and then enroll one by one with battery connected. While users register with battery on for all devices, there may come wireless signal interference and make enroll fail.

## Step 6: Testing the Chosen Mounting Location

Once all of the transmitters are registered, it is recommended that users test the chosen mounting locations before permanently mounting the control panel and wireless devices. Users can test the transmitter signal strength using the TX Test feature.

### Transmitter Test:

1. During disarm, press “⚙”, with voice guide “Enter password before setting parameters!”. Input the installer code with “#” to enter.
2. Select “8.Aided Test” → “#” → “3.Transmitter test” → “#”.
3. Trigger the desired devices, and the info about them will display on the LCD.
4. After all test, press “\*” to exit.

### Walk Test:

1. Enter Menu.
2. Select "8.Aided Test" → "# " → "2.Walk Test" → "# ".
3. Trigger the desired devices, and the info about them will disappear on the LCD.
4. After all test, press "\*" to exit.

### Test GSM signal:

The communication signal strength should be tested to confirm if GSM module work well.

#### To test GSM signal:

1. Enter Menu.
  2. Select "8.Aided Test" → "# " → "4.GSM Test" → "# ".
- 0-31 means for the signal strength. 31 means the strongest. To make sure normal communication, pls use over 12.

## Step 7: Permanently Installing

In order to optimize wireless communication, consider the following guidelines:

1. Whenever possible, mount the panel centrally in relation to wireless sensors.
2. Avoid installation in close proximity to sources of high noise or radio frequency interference. For example, air conditioner, heater or circuit breaker boxes.
3. Minimize the distance between the panel and transmitters.
4. Minimize the number of obstacles between the panel and transmitters.
5. Metal based construction materials, such as steel reinforced concrete walls, will reduce the range of radio transmissions

Having chosen and tested the mounting location of the control panel and each transmitter, it is ready to permanently install the panel.

At first, stick "Installing Hole Drawing" on the location for control panel. Drive 2 screws on the fixed position , and then hang the control panel directly on the screws. While driving the screws, pls pay strict attention to the depth of screws to make sure easy hang and tamper switch work normally. There are one tamper switches: rear tamper. Compress the tamper switch while installing. If the control panel is removed or opened, tamper will be triggered.

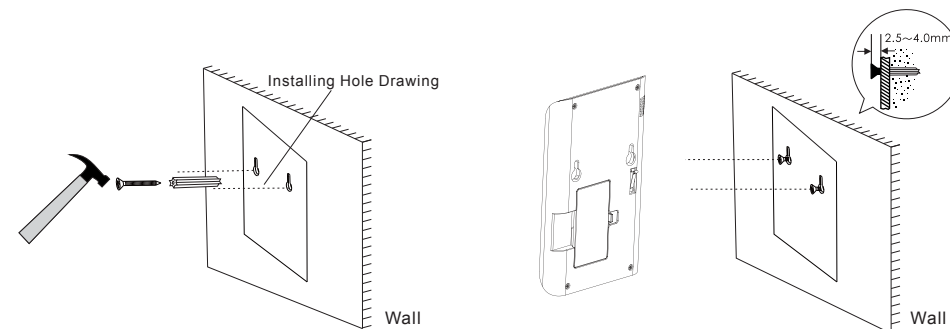


Figure -6-

Figure -7-

**!** While hanging the control panel, please don't shake the product to avoid breaking the tamper switch

## 2: Using System

Arm and disarm the system and practice using it. Trigger the alarm by arming the system and opening protected door/windows and walking past PIRs.



Figure -8-

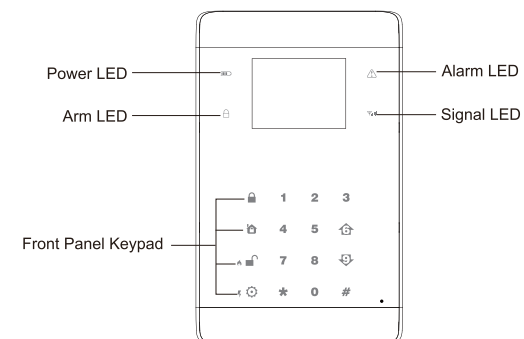










Figure -9-


## Front Panel Keypad



	For arm away
	For arm stay
	For disarm, and also for fire alarm(press for 2s)
	For programming, and also for panic alarm(press for 2s)
	Figure or navigation key for up turn, for menu operation or query
	Figure or navigation key for down turn, for menu operation or query
	It means "delete" while inputting figures or quit for menu operation.
	For enter

## Arm/Disarm via keypad or keyfob

Users can arm away, arm stay, disarm or emergence via keypad or keyfob. Arm or disarm is not available during programming or trouble query. Via keypad requires master / user code, while via keyfob requires no code.


### (1) Arm Away


When the system is under disarm, press “” on keypad or keyfob, the status LED turns from Green into Red with the voice guide “Arm away, close door and window, exit delay”, with the music. When the exit delay ends, the voice guide will sound “Armed away!”


If during zone alarm, press “” on keypad, or keyfob, the voice will guide “Disarm before arm!” If under arm situation, press “” on keypad or keyfob, the voice will guide “Armed away!”


### (2) Arm Stay

It enables users not to alarm in active zone but alarm in other zones.


If under disarm, press “” on keypad or keyfob, the status LED turns from Green into Red, the voice will guide “Arm stay”.

If under arm away, and with no alarm, press “” on keypad, the voice will guide “Enter password!” Users can enter arm stay status with code input or direct keyfob operation.

If under zone alarm, press “” on keypad or keyfob, the voice will guide “Disarm before arm!”

If under arm stay, press “” on keypad or keyfob, the voice will guide “Arm stay”.

### (3) Disarm


Press “” on keypad or keyfob, the voice will guide “Enter password, / add 0 to delete the event log”.

#### Disarm with alarm list cleared:

Input the code(except installer code) ending with “ 0 ”, and “ # ”, the arm LED turns from Red to Green with the voice guide “Disarmed, alarm log eliminated!”

#### Disarm with alarm list saved:

Input the code (except installer code) ending with just “ # ”, the arm LED turns from Red to Green, with voice guide “Disarmed!”

 Note: If disarm by keyfob, the alarm list will be saved.

### (4) Window/Door open remind

When magnetic contacts are registered with control panel, if the panel don't collect the close signal from them, and it will cause failure when arm away (arm-stay) the system. This failure will be indicated with voice “ Window or door is open, Arm failed.” and SMS message will send as long as it is selected.



- a) The interfering will cause the signal failure of wireless signal, then Arm failure. At that situation, please separate and close the magnetic contacts again to make sure Arm successful. For security reasons, it is strongly suggested to make sure every arm successful. This can be audio confirmed by internal siren sound and SMS message. To set the internal siren, refer to page 24 “Call Back When Arm/Disarm”.
- b) If users want to ignore the open area remind, please refer to page 27 to turn off this function.

## Arm/Disarm via RFID Tag

Users can only arm away or disarm via RFID Tag.

Arm or disarm is not available during programming or trouble query or Zone alarming.

## Trigger alarm via keypad

It enables users to trigger alarm via keypad or keyfob in emergency.

### Trigger panic alarm:

Press “⚙️” on keypad or “🔑” on keyfob for 2s.

**Trigger fire alarm:**

Press “🔥” on keypad for 2s.

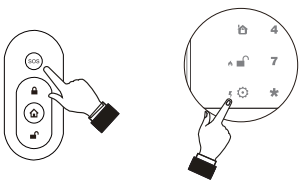


Figure -10-

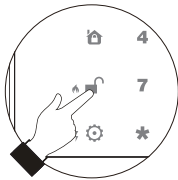



Figure -11-

*Tele-control via phone*

Users can remote control the control panel via telephone, such as arm-away, arm-stay, disarm, repeat alarm voice, and turn on / off site siren, etc. Users can call the phone number set in the control panel. After ring attempts set, it will pick up with voice guide to input password ending with “#”: “For arm- away, press 1, For arm-stay, press 2, For disarm, press 3, For alarm repeat, press 5, turn-on siren, press 6, turn-off siren, press 7, Hang up, press 0”.



**Note**

Pressing any key on control panel or phone during voice play may cause communication error. It is suggest to operate after voice. If the system is under programming, remote controlling is not available. There should be no voice indication during remote controlling.

*Dial to alarm via panel*

The control panel will call pre-set phone numbers when alarm triggered. Users will hear voice alarm after pick-up and voice alarm will repeat after 5s stop. It will totally repeat 5 times. The control panel will automatically hung up in 5s after the 5th alarm. If there is no voice alarm after pick-up or users don't want to wait, users can press “5” on your mobile and the control panel will start playing voice alarm. Users can operate the control panel during voice alarm stopping time, before the panel automatically hung up.

**See following:**

**Disarm:** press “3”.

**Arm-away:** press “3” to disarm and then “1” to arm away.

**Arm-stay:** press “3” to disarm and then “2” to arm stay.

**Repeat alarm:** press “5” to repeat the alarm. Note: Alarm is not available to repeat after disarm.

**Turn on siren:** press “6”.

**Turn off siren:** press “7”.

**Hang up:** press “0” to hang up directly and the system will not dial any phone number.

*SMS Operation*

Users can proceed arm-away/arm-stay/disarm/status enquiry operation by sending SMS to control panel. Please check below two ways of operation:

**Method 1: Edit SMS manually, then send to control panel**

Suppose xxxx is user password. Users send SMS (passwordxxxxarmaway) to control panel, can realize arm-away; send SMS (passwordxxxxarmstay) to control panel, can realize arm-stay; send SMS. (passowrdxxxxdisarm) to control panel, can realize disarm.

**For example:** suppose user password is 0808, then the exact operation is as follow:

➤ **Arm-away SMS**

password0808armaway	ID: 1234 Prog: Arm away Act:OK	ID: 1234 Prog: Arm away Act:ERR
---------------------	--------------------------------------	---------------------------------------

Operation succeeded or failed reply:

➤ **Arm-stay SMS**

password0808armstay	ID: 1234 Prog: Arm stay Act:OK	ID: 1234 Prog: Arm stay Act:ERR
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Operation succeeded or failed reply:

➤ **Disarm SMS**

password0808disarm	ID: 1234 Prog: Disarm Act:OK	ID: 1234 Prog: Disarm Act:ERR
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Operation succeeded or failed reply:



## ➤ Arm/disarm status check:

password0808status

Reply format:

ID: 1234  
STAT: Arm away  
Act:OK

ID: 1234  
STAT: Arm stay  
Act:OK

ID: 1234  
STAT: Disarm  
Act:OK



Note

Arm & disarm is not allowed when programming; when zone alarm, it will not arm, meanwhile it will fail and return back.

## Method 2: By using application to send SMS.

Users need to install Android or IOS APP correctly. Then operate the alarm system as to the operation hints in the interface. Every operation will send a message to the panel.

App Setting Steps:

### 1) Add control panel



① Click “ALARM SETTINGS”

② Click “Create New Profile”

③ Enter the Profile Name, any character name can be input, this name will appear in the panel list; Enter the alarm phone number, must be SIM number in the control panel; Enter the User code, can be master or user or temporary code.

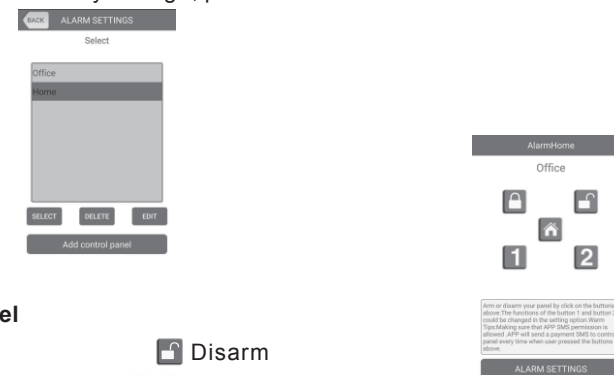
④ Set the function of **1** **2**. Function can select as below.



⑤ Click “SAVE SETTINGS”. Click “SAVE SETTINGS” to finish setting.

### 2) Choose profile

In control panel list, click control panel's name, then click “Select” button to enter the main interface. If users need any change, please click “Edit”.



### 3) Operate control panel

Arm away

Arm Stay

Disarm

**1** **2** Will proceed the function set above.



Note

Each time operates a button, it will send out a paid SMS. We suggest wait for 30 seconds to proceed next operation after one operation.

## Send SMS for Alarm / Arm / Disarm

It enables the control panel to send SMS message to the set phone number or SMS center for alarm, or arm / disarm. For example, the control panel ID is 1234, when zone 2 (Hall) fire alarm, it will send SMS as following:

ID:1234  
ZONE: 002 hall  
EVENT: FIRE ALARM  
2017 - 02 - 01 17:12

### 3: Using System –More Details

#### Display Interface

Users may meet following symbols or marks:

	Selected for Multiple-choice
	Unselected for Multiple-choice
... ..	Counting down
>>>	Confirm to enter for details
System Trb.	System trouble
Alarm List	Display of alarm events
Trb. List	Display of trouble
Untreated	It means not disarmed after alarm.
Treated	It means disarmed after alarm.

#### Alarm Display

The alarm will display with voice guide in the Alarm List. Press “ / ” to select with “ # ” to query the event. Press “ \* ” to quit.

```
----- Alarm List -----  
Kitchen Untreated
```

```
Alarm ----- Untreated  
Zone: 01 kitchen  
Type: Panic  
Time: 01/02/2017  
10:35
```

#### Alarm Type and Way

There are two alarm type: instant alarm and delay alarm.

Trigger 24-hour zones, instant alarm will occur.

24-hour zones include: fire zone, gas zone, panic zone, duress zone, and tamper zone.

Note : For 24-hour zone, whether it is armed or disarmed, once triggered, it will alarm immediately.

Alarm delay occurs with voice indication as “Alarm, please disarm!” when the entry delay zone is triggered. Before the music ends, please disarm, Or if users disarm after the music, the message will be sent. Entry delay happens for entry/exit zone and active zone only.

Note

1. For entry/exit zone, only during arm away and arm stay, the zone will be triggered with alarm delay.
2. For active zone, only during arm away, the zone will be triggered with alarm delay.
3. When alarm already happens in other zone, and with this zone triggered again, the panel will alarm immediately with no indication of entry delay.

Table 1: Different alarm type and zone type determines different alarm way

Alarm type	Dial phone	Send SMS	LED	Siren
Fire zone	Yes	Yes	ON	Ring(cut-off adjustable)
Gas zone	Yes	Yes	ON	Ring(cut-off adjustable)
Panic zone	Yes	Yes	ON	Ring(cut-off adjustable)
Perimeter zone	Yes	Yes	ON	Ring(cut-off adjustable)
Active zone	Yes	Yes	ON	Ring(cut-off adjustable)
Entry/Exit zone	Yes	Yes	ON	Ring(cut-off adjustable)
Duress zone	Yes	Yes	/	Not ring
Tamper zone	Yes	Yes	ON	Ring(cut-off adjustable)
AC loss	No	Yes	/	Not ring
Low battery	No	Yes	/	Not ring
WL. loss	No	Yes	/	Not ring
Low battery for WL.	No	Yes	/	Not ring

## Keypad Lock and Unlock

If the code is input wrong, the voice will guide “ Wrong password, please re-input! ”

And if the code is input wrong for 5 times,the voice will indicate “Access locked, please try later! ”。

After the code is locked, and operate any step which requires code, the voice will guide “ Access locked, please try later! ”

If the code is locked when there is no alarm, but alarm occurs after the code lock, the system will auto release the code lock. While if the code is locked after alarm, auto release must be available after system re-initialization, or within 30 minutes.

## Codes Access

There are 5 types of codes: master code, installer code, duress code, temporary code, and user code (4). Different authorizations are appointed for different codes.

(“√”means for authority):

Code Type	Arm&disarm	Enter Menu	Code Set	“Programming” in menu	Editable	Clearable
Master Code	✓	✓	✓①		✓	
Installer Code		✓	✓②	✓	✓	
Duress Code	✓				✓	
Temp Code	✓				✓	✓
User code 1	✓				✓	✓
User code 2	✓				✓	✓
User code 3	✓				✓	✓
User code 4	✓				✓	✓

Remark: ① Enter ⚙ by master code, users can set all codes except installer code.

② Enter ⚙ by installer code, users can only set installer code.

## Code Restore

If users forget code, it need power off the panel, open the panel back, turn jumper to “default” mode, restart the panel to restore code to factory default setting. Then users should turn jumper to another side, or the panel will restore code when restarting panel next time.

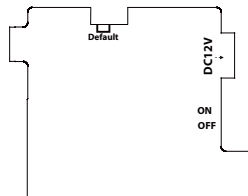


Figure -12-

## Zone Description

- There are 8 types of zones: entry/exit zone, active zone, perimeter zone, panic zone, fire zone, gas zone, tamper zone and duress zone.
- There are 38 zones: zone 1-16/31~46 is wireless. Zone 17 is panic. Zone 18 is duress. Zone 19 is fire. Zone 21-22 is wired. Zone 30 is tamper. Different zone type alarms in different ways. Tamper alarm is valid with 24 hours for wireless zone 1-16/31~46. with tamper alarm indication.

Table 2: Zone Type

Zone Type	Valid or not when disarm	Valid or not when away	Valid or not when stay	Exit Delay	Entry Delay	Sound and flash	Mount position or detector	Type number
Entry/Exit	Invalid	Valid	Valid	Yes	Yes	Yes	Gate	01
Active	Invalid	Valid	Invalid	Yes	Yes	Yes	Indoor	02
Perimeter	Invalid	Valid	Valid	No	No	Yes	Veranda window	03
Panic	Valid	Valid	Valid	No	No	Yes	Panic button	04
Fire	Valid	Valid	Valid	No	No	Yes	Fire detector	05
Gas	Valid	Valid	Valid	No	No	Yes	Gas detector	06
Tamper	Valid	Valid	Valid	No	No	Yes	Tamper switch	07
Duress	Valid	Valid	Valid	No	No	No	Emergency button	08

Table 3: Zone Number

Zone Number	Bypass or not	Type	Remark
1~16/31~46	Applicable	Applicable	wireless
17	Applicable	N/A	panic
18	N/A	N/A	duress
19	N/A	N/A	fire
21~22	Applicable	Applicable	wired
30	Applicable	N/A	panel tamper

## Chime Zone

It enables the panel with alarm with entry delay during arm, or issue “ Ding Dong!”under disarm.



Note : The chime zone function only works for entry/exit zone.

## 4: Menu System in Detail

### Enter Programming

To configure the system, or make any changes to the pre-set functions.

During disarm, press “ ⚙ ” on keypad, Input master code or installer code to enter main menu. Press the “ [6]/[9] ” to select what users desire to set and confirm with “ # ”. or Press “ \* ” to exit.

Default installer code: 1234  
Default master code: 0808

### Quit Programming

Press “ \* ” to quit programming to previous menu. Or it will return to previous automatically with no operation within 1 minute.

### Programming Items

🔧 Available with installer code  
🔑 Available with master code

#### 🔧 1. Stop. Comm.

Through this operation, all communication buffers are cleared and all pending messages are canceled.

#### 🔧 2. Zone Bypass

When a zone is bypassed, it is ignored by the system and does not generate an alarm when triggered. It enables users bypass one zone or more zones, or all zones.

##### To bypass one by one

1. Select “ Bypass one by one ”, press “ # ”.
2. Press “ [6]/[9] ” to select the zone number, ending with “ # ”.
3. And then select “ ON ” or “ OFF ”, ending with “ # ”.
4. Press “ \* ” to quit.

##### To bypass all

Select “ Bypass All ”, press “ # ”.

It will remind “ Bypass All ”, press “ # ” to confirm, or press “ \* ” to give up

#### 🔧 3. Code Set

Code is available as 4-6 digits. If the code is set 5 or 6 digits, the last one cannot be 0. The code must be different.

##### Master Code

The Master code is the highest user authorization level. It enables users to enter main menu, which can be edited. With the Master code, users can edit all other user codes except the installer code.

### To set master code

1. From the menu, select “ Code set ”, press “ # ”, select “ Master code ”, press “ # ”.
2. Press “ # ” to edit, Input the new master code ending with “ # ”.
3. The LCD will remind if it is edited or not. Press “ # ” to confirm. Or “ \* ” to quit.



Note : The default master code is 0808, which is strongly recommended to change after installation.

### User Account Naming

Each Code has a user account which can be named within 16 letters. Names can be given either when first adding a code or by editing them later.

When the “Enter New Name” screen is displayed the numeric keyboard can be used to enter text. Simply find the corresponding numeric key with the required character and press repeatedly until the wanted character appears .Release the key and the cursor automatically jumps to the next position for users to continue with the next character by the same method.

#### The keys have the following functions:

1 # / .	2 abc	3 def
4 ghi	5 jkl	6 mno
7 pqrs	8 tuv	9 wxyz
* Back	0 <space>	# Enter



Note: Once the name is added, it can be edited but not deleted. If really needed, please delete by initialization.

### Installer Code

The Installer code grants access to the “ Aided Test ” menu.

To set installer code: Same as Master code set.



Note: The default installer code is 1234, which is strongly recommended to edit after installation.

### Temp. Code

The temp. code is just for temporary use which is only valid for 24 hours. It will auto clear and must be reset for next time. Or after initialization or re-power on, it will be cleared.

#### To edit/delete Temp. code


1. From the menu, select “Code set”, press “#”, select “Temp. code”, press “#”.
2. If any temp. code is set before, it will display with “ \* ”, press “#” to edit; If not, the icon flashes on LCD.

3. Input the new code, Press “#” to confirm. With no code input, press “#” to delete it.
4. The LCD will remind if it is edited or not. Press any key to exit.
5. The LCD will remind if need change the name. Press “#” to confirm. Or “\*” to quit.

### Duress Code

While users disarm with duress code, it will indicate “Disarm” on site but will send alarm info.

To set duress code: Same as Master code set.

 Note: The default duress code is 0809, which is strongly recommended to edit after installation.

### User Code 1~4

The user code enables users to arm or disarm.

To set/delete user code: Same as “Temp. Code Set”.

### 4. Phone Set


Phone can be personal phone for voice or for SMS. The system will dial the phone or send SMS when alarm occurs.

#### Voice phone set

It enables users to edit or delete the number users set before.

#### To set voice phone

1. Select one telephone group number, press “#” to set.
2. If any phone is set before, it will display. Press “#” to edit. If no phone is set before, input directly.
3. The phone number can be 16 digits utmost. Press “#” to finish. Or if no figure is input, and “#” is pressed directly, the number will be deleted.

 Note: When users disarm the system with the duress code, the panel doesn't call the first and second telephone number. And the panel just call the third and fourth telephone number. So we suggest that don't set the third and the fourth telephone number with personal phone number.

### SMS Phone

Same as voice phone set.

### SMS Option

users can select if SMS message will be sent or not for alarm, arm or disarm to save SMS cost.

To set SMS option:

1. Select the phone group number, press “#” to enter.
2. Select parameters users desire to set ending with “#”.
3. Select “ON” or “OFF”.

### Panel ID

ID can be set for each control panel so that the Panel can be identified. Different ID must be set for different control panels, which is 4 digits utmost with default as 1234.

### Call Attempts

The Call attempts option determines the number of times the system tries to call a telephone number before moving on to the next number in sequence. It will not dial again if it exceeds the attempts. Attempts range can be set 1~30 times.

- “7” is the factory default.

### Ring Attempts

The Ring attempts means the ring times before the phone hangs up. If it is set as “0”, it means no remote control by call for the system. It can be set from 1 to 9.

- “6” is the factory default.

### GSM Option

It includes SMS Ack, SMS Confirm and SMS Send. If SMS Ack is turned off, then it is not available for control panel. If SMS confirm is turned off, then SMS receipt is not available. If SMS Send is turned off, then SMS Send is not available.

- On as default.

### 5. Device Set

For the system to recognize individual devices, each device must be registered. For example, if the device is a wireless transmitter, registration enables the system to identify the source of a received transmission. Each device has an individual ID code. Registering the device to the system familiarizes the system with this code.

### WL. Register

There are two ways of register: by code learn or input.

#### To register by code learn

1. Select the zone number ending with “#”. If registered before, it will remind users to re-register. Press “#” to continue, or “\*” to quit. If not registered before, the voice will remind “Start enrolling, transmit now!” with counting down for 60s.

2. Trigger the wireless asap to avoid any interference.
3. The system will remind to save after receiving the signal. Press “ # ” to save, or “ \* ” to re-register.



Note

During register, if the signal is received for registered code, it will indicate as registered. If the code is in wrong format, it will indicate as wrong. If no code is received within 60s, the system indicate “Enrolling failed!”.

### To register by code input

1. If the code is input before, it will remind if users want to re-register, press “#” to continue, or “ \* ” to exit.
2. Input the ID, ending with “ # ”.
3. The LCD will remind if need change the name. Press “ # ” to confirm. Or “ \* ” to quit.
4. Press “ \* ” to quit.

### Zone Naming

Details refer to the page “User Account Naming”

### Clear WL

This enables users to remove the wireless devices by clearance. For the supervision function, If the device is removed without clearance, the system will remind trouble for device loss.

### To Clear WL

1. Select “ Clear WL.”, press “ # ”, select “ Clear single ” or “ Clear All ”.
2. If “Clear single”, select the zone number ending with “#”. While “Clear all” means to clear all enrolled wireless transmitters.

### Set Zone Type

#### To set zone type

Select “Set zone type”, press “ # ”.

1. Press the navigation key to select the zone users desire to set ending with “ # ”, and then select the zone type for it ending with “ # ” to save it.
2. Press “ \* ” to exit.

### Entry Delay

Entry delay means a period for user to enter detection area, activate the delay zone and disarm before the system alarms. Times can be set from 0 seconds (no delay) up to 300 seconds in 1 second increments.

- 100 seconds is the factory default.

### Exit Delay

A period for user to leave detecting area once the system armed. Zones with exit delay will not alarm during this period. Times can be set from 0 seconds (no delay) up to 300 seconds in 1 second increments.

- 100 seconds is the factory default.

### Zone Siren Set

It enables the user to active or mute external siren for some zone.“ ON ” enables the siren to buzzer during alarm, while “ OFF ” enables the siren dummy. This function is available for Zones No. 1-16,31-46 (wireless zones), 21-22(wired zones), No.17 and 19.

### Chime Zone Set

It is only available for entry/exit zones to enable the “Chime zone Function”. During disarm, trigger the zone, the voice of “ Ding Dong! ” will be given off.

### Wireless Zone Supervision

Wireless devices will transmit supervision signal to the control panel at intervals. If the system does not receive any signal, then the transmitter is regarded as loss. The max loss period is called supervision time. If no signal is transmitted during this period, wireless zone trouble appears in the list of system trouble. Times can be set from 2 hours to 99 hours.

- 24 hours is the factory default.
- The period supervision function is closed of all the zones as the factory default.

### Max Alarm Times

Users can set one zone with max continuous alarm attempts, default will be 3. After disarm, the device will restart counting.

### Zone Trouble Indication

This option enables users to select whether zone trouble will be indicated in the system trouble list. If this function is turned off, it will not display.

### Keyfob Register

Same as wireless zones, pls refer to that.

### Clear Keyfob

Same as wireless zones, pls refer to that.

### Wireless Siren Register

Same as wireless zones, pls refer to that.

### Clear Wireless Siren

Same as wireless zones, pls refer to that.

### Activate/Mute Siren


It enables the siren (built-in siren, external wired siren or wireless siren) to be on or off.

### Siren Cut-off

Siren cut-off is the period of time the sirens are activated after an alarm has occurred, which can be set from 0 to 30 minutes.

### Call Back When Arm/Disarm

With this function, the siren will beep when users arm or disarm to remind operation success.

1. Press “/” to select “ON” or “OFF”, press “#”.
2. Press “\*” to quit when finished.



Note

Using keyfob to operate the control panel. When arm-away, the built-in siren and wired siren will ring 3 times; when arm-stay, 2 times; when disarm, one sound.

### PGM

The PGM is a programmable output that is triggered according to specific system status conditions. The Output Trigger option determines the conditions that activate and deactivate the PGM output.

#### To trigger PGM output

1. Select “PGM”, press “#”.
2. Press the navigation key to select one of Output trigger and press “\*” to exit.



Note

PGM only compatible with low voltage(DC) control board. It shall not be connected with city power(AC) directly.

See following table:

PGM Trigger	Activated by.....	Disactivated.....
Zone 1 Alarm	Instant Trigger	Disarm or PGM cut-off
Zone 2 Alarm	See above	See above
.....	.....	.....
Zone 15 Alarm	See above	See above
Zone 16 Alarm	See above	See above
Zone 17 Alarm	See above	See above
Zone 18 Alarm	See above	See above
Zone 19 Alarm	See above	See above
Zone 21 Alarm	See above	See above
Zone 22 Alarm	See above	See above
Zone 30 Alarm	See above	See above
Zone 31 Alarm	See above	See above
Zone 32 Alarm	See above	See above
.....	.....	.....
Zone 45 Alarm	See above	See above
Zone 46 Alarm	See above	See above
Arm away	Instant Activate	Any arm status change
Arm Stay	Instant Activate	Any arm status change
Disarm	Instant Activate	Any arm status change
Siren follow	Siren follower	Siren follower
Entry/Exit	Activate	Until disarm or after PGM cut-off
Active	See above	See above
Perimeter	See above	See above
Panic	See above	See above
Fire	See above	See above
Gas	See above	See above
Tamper	See above	See above
Duress	See above	See above

With all conditions satisfied, PGM will output. The PGM under “arm away, arm stay, disarm or siren follow” is not determined by “PGM cut-off” time, while PGM under other situations will switch to disactivated after PGM cut-off. The PGM cut-off can be set by programming.

#### To set PGM cut-off:

1. Select “PGM Cut-off”, press “#”.
2. Press “#” to edit with icon indication.
3. Enter a PGM cut-off time(0-300s, 000 means continuous activation until disarm)
4. Press “#” to exit when the desired setting is displayed.

## RFID Register

Same as wireless zones, pls refer to that.



## Clear RFID

Same as wireless zones, pls refer to that.

## 6. Event Log

This system can save 200 event logs, including alarm and operation issues. When it exceeds 200, it will substitute the earliest event

### To query event

1. From the menu, select “ Event log ”, press “ # ” to enter. The earliest event will display.
2. Press “  /  ” to query.
3. Press “ \* ” to quit when finished.

## 7. System Option

### Set Time/Date

Time and date must be set, or else the event log will be recorded with no time, arm or disarm may not be realized, or system trouble will happen, voice guide will not work.

#### To set time and date:

1. Input time and date, ending with “ # ”.  
During input, press “ \* ” to quit. When finished, press “#” to confirm. Or if the time is not input completely, but with “ # ” ending. It will indicate “Invalid set!” Then pres “ \* ” to re-input.



### Auto Arm/Disarm Time

It enables users to set auto arm/disarm time which is set in 24-hr system. Before this, the function of auto arm/disarm must be turned on.

#### To set auto arm/disarm time

1. Select “ Arm time ” or “ Disarm Time ”, press “ # ” to enter, input time, and press “#” to save.

#### To turn on/off the function of auto arm/disarm:

1. Select “ Auto ON/OFF ”, press “ # ”.
2. Press “  /  ” to select “ON” or “ OFF ”, ending with “ # ”. Press “ \* ” to quit when finished.



Note

Time and date must be set, or else the auto arm or disarm function will be recorded with no time. With no time set, auto arm/diarm function may be not available.

## Volume

It enables users to activate or mute the speaker and meanwhile adjust the volume.

## Supplementary Entry Delay

The Supplementary Entry Delay is a pre-alarm feature that is employed in the event that the system is not disarmed during the entry delay. And the period is set as 5s. While this function is turned off, the system will alarm immediately after entry delay.

## Window/Door open remind

This option enables users to turn ON/OFF the function of window/door open remind. The panel will detect the situation of Magnet and remind users “Door or Window is Open” when users arm the system. If Zone malfunction is allowed to display, the system will remind and display “system trouble” . It will disappear after users close the window.

## Arm with open Doors

User is allowed to set if the system can be armed while window/door is open. If setting is “ON”, Arm with open doors is allowed. Otherwise it will be prohibited.



Note

This function only works with “Window / Door open remind” is “ON”.

## Initialize All

The Initialization function clears programming of the whole system and restore factory defaults.

## 8. Aided Test

### Siren Test

Siren test is strongly recommended periodic for safety, which includes wired siren, wireless siren and built-in siren. Select the type of siren ending with “ # ” to test. After test, press “ # ” to continue another test. Or “ \* ” to finish.

### Walk Test

It enables users to make sure if the detectors work normally, which is strongly recommended to do periodically.

#### To set walk test

1. Select “ Walk test ”, press “ # ”, All registered detectors will display on LCD with the voice guide as “Walk test starts, transmit wireless signal!”



2. Once the correspondent signal is transmit, the detector display will disappear on LCD. If it will not disappear, it indicates trouble occurs.
3. When all detectors disappear out of LCD, the voice will guide "Walk test over!" meanwhile with "No device!" indicating on LCD.
4. Press " \* " to quit when test is finished.

### Transmitter

It includes TX list (all registered TX and status report), and TX test under this menu. TX test is to test and identify wireless signal. With signal received from registered transmitter, it will display info of it, including ID. With signal received from unregistered transmitter, it will indicate as unknown signal.

#### To Test TX

1. Select " Transmitter test ", press " # ", The voice will guide " Transmitter test starts, transmit wireless signal!"
2. Trigger the transmitter, if it is registered, the info will display on LCD. If it isn't registered, it will indicate as unknown signal.
3. Press " \* " to quit after test finish.

### GSM Test

To ensure the validity of GSM communication, please test the signal network at the installing position.

#### To test GSM signal

From the menu, select " 8.Aided Test "→ " # " → " GSM test " → " # " .

### Send TEST SMS Interval

The control panel could be set to send a message at the needed time of each week for testing. This testing message will be sent to all the numbers set before.

## 5: Troubleshooting

- "T" will display on LCD if there is. Users can press " 9 " to enter the trouble list, and then press " 9 " or " 6 " to check. If the trouble is solved, it will disappear out of the list.
- Users can clean the display of system trouble remind by disarm the system, but system trouble information will still be saved in the system trouble list.
- If the time is unset, the voice guide of trouble will not sound. System trouble voice indication will not be available from 10:00PM to 7:00AM. During trouble query, the zone will not alarm with it trigger.

For detailed system trouble and solution, please refer to following table:

Table 4: Trouble & Solutions

Trouble		Solutions
Low Battery		Check the power connection timely
Low GSM signal		Weak signal of GSM communication, Choose a better position for installation
WL. Trouble	Low Battery	Low power of transmitters, Change battery
	Transmitter Loss	No signal is received during supervision period, Check if the transmitter is moved or broken
AC failure		Power is cut off, Check the power connection timely
No SIM card		Loose contact of SIM card, Please re-insert the card after re-powering off the panel
No GSM signal		No signal received from mobile phone, SIM card is invalid; Or re-choose a suitable position for installation
Time Unset		Re-set the system time correctly
Commu- nication Trouble	SMS Trouble	Failure of SMS send, Check if there is no balance for SIM card
	Dialling Trouble	1. Refuse or power off of receiving phone, Pick up the phone in time 2. Overdue of the SIM card, Check if there is no balance for SIM card
No call for alarm		Set correct voice telephone number, Set more than two voice telephone numbers.
The system has no feedback when the zone is triggered		The zone is bypassed, Un-bypass the zone
		When disarm, zone type 1,2,3 do not alarm; arm-stay zone type 2 does not alarm. Operate normally
False alarm for wireless zones Abnormal work for		Different wireless zones use the same code. Delete this wireless zone; change the code learn and try again

## *6: Parameters*

### *General Parameters:*

- **Wireless zones:** 32
- **Wired zones:** 2
- **EOL resistance:** 2K~2.4K
- **Wireless frequency:** 433MHz / 868MHz
- **Detector / Magnetic contact / Keyfob wireless distance:**  $\geq 100\text{m}$  (with no obstacle)
- **Siren wireless distance:**  $\geq 50\text{m}$  (with no obstacle)

### *Electric Parameters:*

- **Power adaptor:** Input 100V-240VAC 50/60HZ, Output: 12VDC 1.5A
- **Backup battery capacity:** 7.2V/800mAh
- **Working voltage:** 12VDC
- **Static current:**  $< 90\text{mA}@12\text{V}$  (not including wired detectors and GSM module)
- **AUX power output:** AC10-12V, DC6-8V,  $\leq 100\text{mA}$
- **Siren output:**  $\leq 400\text{mA}$
- **PGM output max load:** DC 25V/500mA
- **Built-in siren:** 85dB
- **Working temperature:**  $-10^{\circ}\text{C}\sim+55^{\circ}\text{C}$

### *GSM Module:*

- **GSM working frequency:** 850/900/1800/1900MHz
- **RX sensitivity:**  $< -106\text{dB}$
- **Current: Standby:**  $< 25\text{mA}$     **RX:**  $< 75\text{mA}$

## *7: Appendix*

### *Warranty and Limitations*

Although it is an advanced and reliable security system, it does not offer absolute guaranteed protection against burglary, fire, or other troubles. The limitations are as follows:

1. Intruders may get access to unprotected openings or have technical sophistication to invalidate the system.
2. The system will disable without power.
3. Alarm warning devices such as bells may not alert people if they are installed in an improper position. If the alarm bell is installed outside, there are less likely to waken or alert people inside the bedrooms.
4. Unsuitable installation position of detectors. If smoke detector is installed in an improper position, it is not easy for smoke to enter the detecting area. Because of doors or walls, it is hard for the detector to detect fires in other rooms, e.g. the detector in the first floor cannot sense fires in the second floor.
5. Lack of maintenance may lead to the system disabled. Weekly testing is necessary to ensure the system work normally.

## Term Definitions

**Detector:** A facility that detects intrusion and abnormal state automatically via some electric or physical methods and output switch signals or wireless signals to the system for disposal, then output signals, such as infrared detector, smoke detector, etc.

**Zone:** An area of the detection range of one or group of detectors.

**Bypass:** Close one of the zones temporarily, so that it cannot alarm while act in the zone.

**Arm Away:** The armed status while going out. All the zones without bypass are in armed status.

**Arm Stay:** Alarm status while you are at home. All the zones are in armed status except active zones.

**Disarm:** Close the entry/exit zones, active zones, perimeter zones. Other zones are still in arm status.

**24-Hour Zone:** No matter armed or disarmed, it is in valid detecting status. It is usually used in fire alarm, duress alarm and other emergent alarm which can be canceled only by password holder.

**Entry Delay:** A period for user to enter detection area, activate the delay zone and disarm before the system alarms. During the period, user can activate several specified zones (entry zone) without alarm immediately. While exceeding the time, the system alarms if not disarmed. Zones with entry delay are the exit/entry zone and active zone.

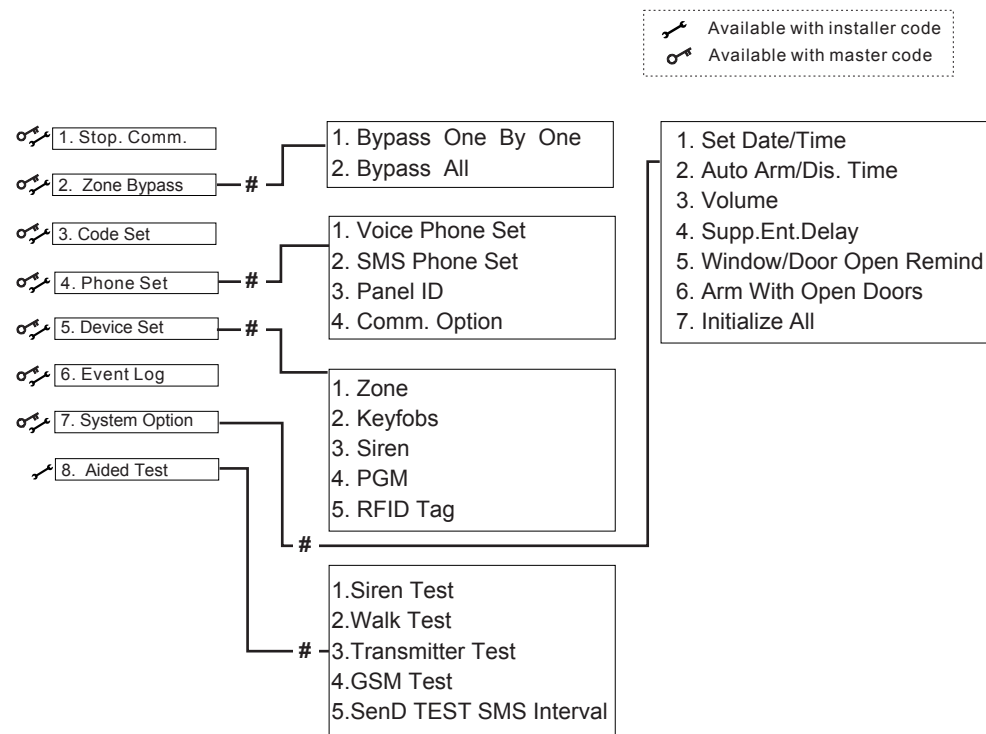
**Exit Delay:** A period for user to leave detecting area once the system armed. Zones with exit delay will not alarm during this period. The zones with exit delay are the exit/entry zone and the active zone.

**Supplementary Entry Delay:** The Supplementary Entry Delay is a pre-alarm feature that is employed in the event that the system is not disarmed during the entry delay.

**Duress Code:** When user is forced to disarm the control panel by burglar, user inputs duress password, the control panel is disarmed but sends alarm information to the center stations or receiver. The duress password can be used to disarm but set parameters.

**Chime Zone:** During disarm, while the zone is triggered, the panel will sound “Ding Dong!”

## Menu Structure



## Warning:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

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

NOTE: This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.