

macealert™ solo

wireless alarm system **433 MHz**



User Guide

Model: **MAS-WA-SYS**

mace[®]
SECURITY PRODUCTS

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SECTION 1: GETTING STARTED

1.1 GENERAL SYSTEM OVERVIEW

CAUTION!

The 9V battery in the Wireless Alarm Panel is for power back-up purposes only, and the unit should be supplied with main power (through the AC adaptor) at all times. Difficulty in disarming the Wireless Alarm Panel in **ALARM** mode may occur when it is powered by the back-up battery alone. This is not a malfunction, and can be resolved by the use of a fresh 9V battery and main power supplied through the included AC adaptor.

IMPORTANT!

Due to the signal strength of the alarm, we advise that you change the House Security Code settings (explained in Section 4.3) if you suspect that one of your in-range neighbors may also be using the MaceAlert™ Solo Wireless Alarm System.

Alarm system limitations

Even the most advanced alarm systems cannot guarantee 100% protection against burglary or environmental problems. All alarm systems are subject to possible compromise or failure-to-warn for a variety of reasons.

* Please note that you may encounter problems with your system if:

- The siren is not placed within hearing range or is in a remote part of the premises.
- The sensors are placed behind doors or other obstacles.
- Intruders gain access through unprotected points of entry (where sensors are not located).
- Intruders have the technical means of bypassing, jamming, or disconnecting all or part of the system.
- The power to the sensors is inadequate or disconnected.
- The sensors are not located in acceptable operating areas e.g. too close to a heat source.
- Inadequate maintenance is the most common cause of alarm failure. Therefore, test your system at least once per month to ensure the sensors and siren(s) are working properly.

WARNING: Security system devices cannot compensate for loss of life or property.

1.2 INTRODUCTION TO THE MACEALERT™ SOLO WIRELESS ALARM SYSTEM

The MaceAlert™ Solo Wireless Alarm System is a quality security system with a wide range of user-friendly features. The system is controlled by a Wireless Alarm Panel, which gathers information from wireless sensors placed inside and at the entry points of your home or office. If the Wireless Alarm Panel detects a security breach, the LCD display will flash and the siren will sound. Details of how to correctly install and operate the system are contained within this User Guide.

1.3 ITEMS INCLUDED WITH THE SYSTEM

Please check that all of the following items were included in the package before installing the system:

- Wireless Alarm Panel
- Keychain Remote Controls
- Door/Window Sensors
- AC adaptor for Wireless Alarm Panel
- Double-sided adhesive strips for Door/Window Sensors
- Screws, wall plugs, tamper proof magnet with double-sided adhesive strip for panel
- Mounting template, Quick Start Guide, User Guide



1.4 INTRODUCTION TO THE WIRELESS ALARM PANEL

LCD Screen:



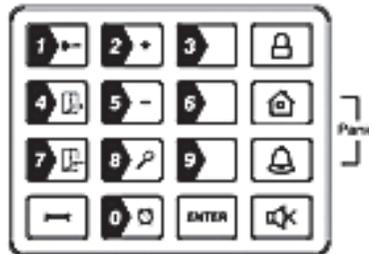
Function Buttons:



Programming Buttons:



Keypad



Numeric Buttons



Other:

9V DC INPUT port	For AC/DC adaptor
Siren output	120dB
Battery compartment:	For 9V Alkaline back-up battery
4 x Pin header, 4 x Jumper	For House Security Code setting
8 x Pin header, 1 x Jumper	For Zone Code setting
"RESET" button	If you forget the 4-digit PIN, press the "RESET" button located in the battery compartment and enter factory default PIN "1-2-3-4" followed by  to restore factory settings.

1.5 INTRODUCTION TO THE PANEL SOUND ALERT & BACKLIGHT

	Operating Mode	Situation	Sound Alert and Backlight Indication
1	ARM	Zone triggered under ARM status	Alarm duration: Adjustable between 1 - 6 minutes (siren). Default is 1 minute Panel – flashes RED every 1.5 seconds with triggered zone indicated (to stop - enter 4-digit PIN and press ENTER)
		Alarm set under ARM status	No siren. Panel – flashes RED every 5 seconds providing an intruder deterrent (different from when an intrusion occurs and the panel rapidly and continuously flashes RED).
2	HOME	Zone triggered under ARM status	Alarm duration: Adjustable between 1 - 6 minutes (siren). Default is 1 minute Panel – flashes RED every 1.5 seconds with triggered zone indicated (to stop - enter 4-digit PIN and press ENTER)
		Zone triggered under ALERT status	Sound output: Chime (ding-dong) Panel – flashes GREEN every 1.5 seconds with triggered zone indicated (to stop panel flashes-press OK)
3	ALERT	Zone triggered under ALERT status	Sound output: Chime (ding-dong) Panel – flashes GREEN every 1.5 seconds with triggered zone indicated (to stop panel flashes press OK)
4	STANDBY	Silent	Panel – YELLOW backlight remains ON for 10 seconds after entering into STANDBY mode

SECTION 2: INSTALLING THE WIRELESS ALARM SYSTEM

2.1 INSTALLING THE WIRELESS ALARM PANEL

WARNING:

The Wireless Alarm Panel has a built-in tamper proof switch to prevent the system being disabled by an intruder. When fixing the Wireless Alarm Panel to a wall, first ensure that it is in **STANDBY** mode to avoid the alarm sounding.

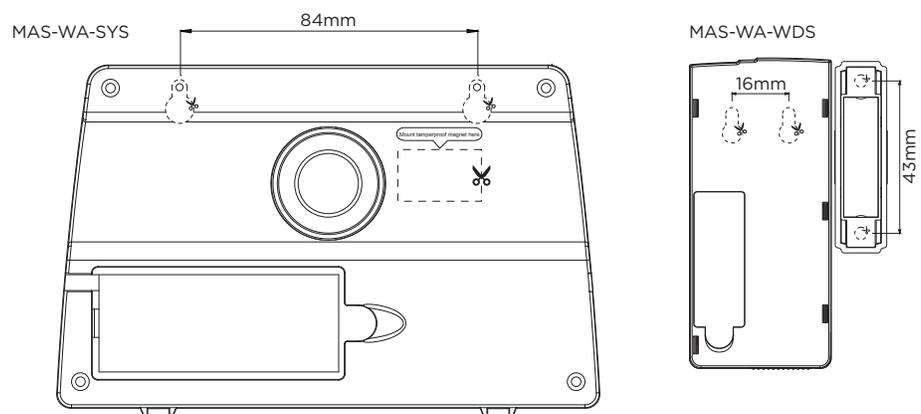
2.1.1 LOCATING THE WIRELESS ALARM PANEL & TAMPER PROOF SWITCH

The Wireless Alarm Panel should be placed:

- Within a few feet of an electrical outlet
- Where it is easily accessible
- Away from doors or windows that could be accessed by intruders
- Away from extreme temperature sources (radiators, ovens, stoves etc.) and large metal objects that could interfere with the wireless performance

2.1.2 WALL-MOUNTING THE WIRELESS ALARM PANEL & TAMPER PROOF SWITCH

- First cut out the mounting template for the Wireless Alarm Panel along with the area which is marked out for the position of the tamper proof magnet.

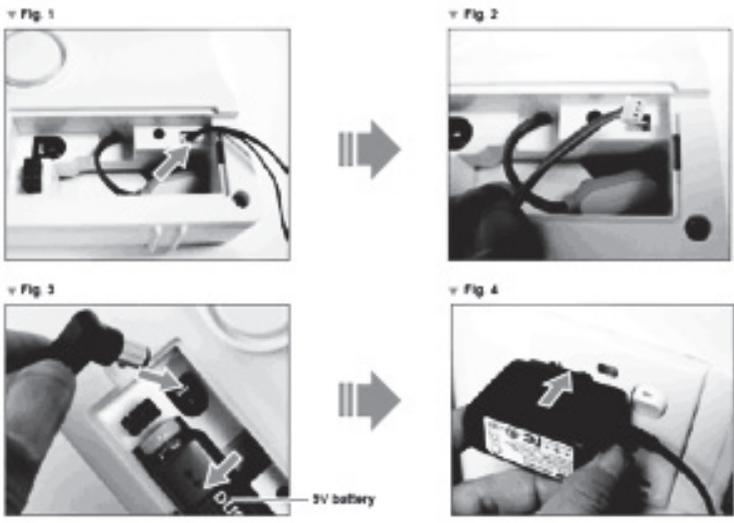


- Tape the template onto the wall, in the position you wish to install the Wireless Alarm Panel.
- Mark on the wall the points for drilling holes for the wall plugs and mounting screws, and the position for mounting the tamper proof magnet.
- Drill the holes, insert wall plugs and locate the mounting screws for the Wireless Alarm Panel.
- Ensure the mounting surface for the tamper proof magnet is clean.
- Peel back one layer of the protective film on the double-sided adhesive strip and attach it to the magnet.
- Peel back the remaining layer of protective film and press the magnet firmly in the marked position against the mounting surface until firmly attached.
- Mount the Wireless Alarm Panel onto the wall.
- Once the Wireless Alarm Panel has been installed the system can be powered up.
The tamper proof system is enabled once the Wireless Alarm Panel is switched to **HOME, ALERT** or **ARM** mode.

2.2 POWERING UP THE WIRELESS ALARM PANEL

Note: The Wireless Alarm Panel may have been supplied with an optional demonstration switch to show the LCD display panel working while in its packaging. Before powering up the Wireless Alarm Panel, the wire for this switch must be removed as described below (See Figs 1 & 2):

- Unscrew the battery compartment and remove the cover.
- Remove and discard the LED demo socket, if fitted (Fig.2)
- Insert a new back-up battery (noting the polarity) and plug the AC adaptor into the Wireless Alarm Panel (Fig. 3)
- Replace the cover and screw, and connect the AC adaptor to a wall socket.(Fig. 4)



Step	Description	Note
1	Insert 9V Alkaline backup battery	<p>One beep will sound and the backlight will blink within 1 second (Yellow » Red » Green » Yellow) The panel will display the below image:</p> <p>The panel will enter “STANDBY” mode after the automatic self-checking is complete. Then will appear on the LCD screen. Enter the default 4-digit PIN “1234”</p>
2	Plug in AC adaptor to the DC socket in the back of the panel	The main power supply (with AC adaptor) must be plugged in at all times. The 9V battery functions as a back-up power supply only, when the main power supply is interrupted.

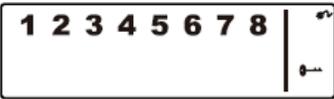
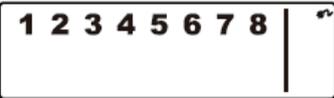
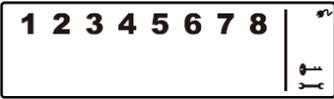
2.3 UNDERSTANDING THE BATTERY & AC ADAPTOR ICON

<p>Battery icon shows power status:</p> <p>FULL </p> <p>HIGH </p> <p>MIDDLE </p> <p>LOW </p>	<p>Battery icon shows when the AC power supply is unplugged or interrupted. 9V battery functions as BACK-UP only and the  symbol means LOW BATTERY.</p> <p>The LCD backlight flashes YELLOW for 30 seconds and  will blink until the new battery is replaced or the mains power supply (with AC adaptor) is plugged in.</p>
<p>AC Adaptor icon</p> 	<p>When the AC adaptor to the Wireless Alarm Panel is connected to a wall socket, the AC symbol  will appear.</p> <p>The backlight will be 'ON' for 10 seconds while the AC adapter connects to the power supply.</p>

SECTION 3: USING THE WIRELESS ALARM SYSTEM

3.1 PROGRAMMING YOUR NEW 4-DIGIT PIN

The Wireless Alarm Panel is supplied with a default PIN of "1234". This can be changed to your own personalized PIN, or your own personalized PIN can be changed, as follows:

	Keys	Description	Note
1	(1234 or 4-digit PIN) + 	You must be in STANDBY mode before programming your new 4-digit PIN	<p>*To make sure you are in STANDBY mode:</p> <ul style="list-style-type: none"> - Enter the default PIN "1-2-3-4" - Press  - The panel will display the image below when you are in STANDBY mode:  <p>(One beep indicates that you entered a valid PIN, three beeps indicate that an invalid operation was performed).</p>
2	(1234 or 4-digit PIN) + 	Enter the default PIN "1-2-3-4" OR your new 4-digit PIN followed by 	<p>The panel will display the below image:</p> 
3	 + 	Press  followed by 	<ul style="list-style-type: none"> - Press  then "1" to set the new PIN - The panel will display the below image : 
4	New 4-digit PIN + 	Enter the new 4-digit PIN followed by 	<ul style="list-style-type: none"> - LCD display  flashes with "1" - Enter the new 4-digit PIN - Press  to confirm
5	New 4-digit PIN + 	Re-enter new PIN for followed by  for final confirmation	<ul style="list-style-type: none"> - LCD display  flashes with "2" - Re-enter the new 4-digit PIN - Press  for final confirmation <p>(One beep indicates that you entered a valid PIN, two beeps indicate that an invalid operation was performed).</p>

3.2 TRANSMITTING AN EMERGENCY (PANIC) ALARM

3.2.1 USING THE PANIC ALARM

Pressing  &  buttons together on the Keypad or Keychain Remote Control will immediately transmit an alarm signal to the Wireless Alarm Panel, activating the siren, and transmitting an alarm signal to any optional response devices.

To disarm the Panic alarm

On the Wireless Alarm Panel: Enter your 4-digit PIN followed by  to exit from the Panic alarm.
On the Keychain Remote Control: Press  to exit from the Panic alarm.

3.2.2 USING THE PANIC ALARM WITHOUT ACTIVATING THE SIREN

If you are forced to disarm the system, enter the Duress Password to stop the siren from sounding. The Wireless Alarm Panel will then silently transmit an alarm signal to the optional response devices.

Duress Password:

Enter the default 4-digit PIN + "1" (    + ) + 

OR

Enter your personalized 4-digit PIN +  + 

3.3 OPERATING DIFFERENT MODES

The system has 4 operating modes (**STANDBY**, **ARM**, **ALERT**, and **HOME**) to suit individual requirements. These modes can be set as follows:

3.3.1 STANDBY MODE

If in **STANDBY** mode, the Wireless Alarm Panel is prepared for mode selection.

	Keys	Description	Note
1	(1234 or 4-digit PIN) + 	You must be in STANDBY mode before turning to ARM mode	<p>*To make sure you are in STANDBY mode:</p> <ul style="list-style-type: none"> - Enter the default PIN "1-2-3-4" OR your new 4-digit PIN - Press . - The panel will display the below image while you are in STANDBY mode:  <p>(One beep indicates that you entered a valid PIN, three beeps indicate that an invalid operation was performed).</p>

3.3.2 ARM MODE

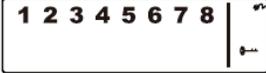
When in **ARM** mode, the Wireless Alarm Panel siren will sound and the panel display flashes RED every 1.5 seconds when the system is triggered.

ARM mode default setting:

Sensor	Zone	Status (MODE)
• Door/Window Sensor	1	ARM
• Door/Window Sensor	2	ARM
• Motion Sensor	8	ARM

A. ADJUSTING EXIT DELAY

The default setting of the Wireless Alarm Panel allows the user 20 seconds to exit the property before the alarm is ARMED. However, this Exit Delay can be adjusted to between 10 – 60 seconds as follows:

	Keys	Description	Note
1	(1234 or 4-digit PIN) + 	You must be in STANDBY mode before adjusting the Exit Delay	<p>*To make sure you are in STANDBY mode:</p> <ul style="list-style-type: none"> - Enter the default PIN “ 1-2-3-4 ” OR your new 4-digit PIN - Press  - The panel will display the image below when you are in STANDBY mode:  <p>(One beep indicates that you entered a valid PIN, three beeps indicate that an invalid operation was performed).</p>
2	(1234 or 4-digit PIN) + 	Enter the default PIN “ 1-2-3-4 ” OR your new 4-digit PIN for setting followed by 	<p>The panel will display the below image:</p> 
3	 + 	Press  then  (as many times as required) to set the new Exit Delay	<ul style="list-style-type: none"> • When  is pressed the first time the panel flashes with the number of seconds currently set for the Exit Delay (The factory default setting is 20 seconds) • Each time  is pressed the Exit Delay is increased by a further 10 seconds between the adjustable range of 10 to 60 seconds • The Exit Delay time on the LCD display will flash until the setting is completed
4		Press  to complete the setting	Confirm the setting and return the panel to STANDBY by pressing 

B. ADJUSTING ENTRY DELAY

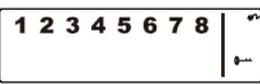
The default setting of the Wireless Alarm Panel allows the user 30 seconds to enter the property and DISARM the alarm before it is triggered. However, this Entry Delay can be adjusted to between 10–60 seconds as follows:

	Keys	Description	Note
1	(1234 or 4-digit PIN) + 	You must be in STANDBY mode before adjusting the Entry Delay	<p>*To make sure you are in STANDBY mode:</p> <ul style="list-style-type: none"> - Enter the default PIN “ 1-2-3-4 ” OR your new 4-digit PIN - Press  - The panel will display the image below when you are in STANDBY mode:  <p>(One beep indicates that you entered a valid PIN, three beeps indicate that an invalid operation was performed).</p>
2	(1234 or 4-digit PIN) + 	Enter the default PIN “ 1-2-3-4 ” OR your new 4-digit PIN for setting followed by 	<p>The panel will display the below image:</p> 

3	 + 	Press  then  (as many times as required) to set the new Entry Delay	<ul style="list-style-type: none"> When  is pressed the first time the panel flashes with the number of seconds currently set for the Entry Delay (The factory default setting is 30 seconds) Each time  is pressed the Entry Delay is increased by a further 10 seconds between the adjustable range of 10 – 60 seconds The Entry Delay time on the LCD display will flash until the setting is completed
4		Press  to complete the setting	Confirm the setting and return the panel to STANDBY by pressing 

C. ADJUSTING THE ALARM DURATION

The default setting of the Wireless Alarm Panel gives an alarm duration of 1 minute after being triggered. However, this alarm duration can be increased up to 6 minutes:

	Keys	Description	Note
1	(1234 or 4-digit PIN) + 	You must be in STANDBY mode before adjusting the Alarm Duration	<p>*To make sure you are in STANDBY mode:</p> <ul style="list-style-type: none"> - Enter the default PIN “1-2-3-4” OR your new 4-digit PIN - Press  - The panel will display the image below when you are in STANDBY mode:  <p>(One beep indicates that you entered a valid PIN, three beeps indicate that an invalid operation was performed).</p>
2	(1234 or 4-digit PIN) + 	Enter the default PIN “1-2-3-4” OR your new 4-digit PIN for setting followed by 	<p>The panel will display the below image:</p> 
3	 + 	Press  then  (as many times as required) to set the new Alarm Duration	<ul style="list-style-type: none"> When  is pressed the first time the panel flashes with the number of minutes currently set for the Alarm Duration (The factory default setting is 1 minute) Each time  is pressed the alarm duration is increased by a further minute up to a maximum of 6 minutes The Alarm Duration on the LCD display will flash until the setting is completed
4		Press  to complete the setting	Confirm the setting and return the panel to STANDBY by pressing 

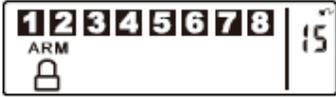
D. MUTING THE AUDIBLE COUNTDOWN

When the Wireless Alarm Panel is ARMED the audible countdown (beeper) can be silenced by pressing the MUTE button, during the countdown. To reactivate the audible countdown (beeper) simply press the MUTE button again.

E. ARMING THE SYSTEM

On the Keychain Remote Control: Press  to **ARM** the system.

On the Wireless Alarm Panel: First make sure the panel is in **STANDBY** mode, and then **ARM** the system by taking the following steps:

	Keys	Description	Note
1	(1234 or 4-digit PIN) + 	You must be in STANDBY mode before turning to ARM mode	<p>*To make sure you are in STANDBY mode:</p> <ul style="list-style-type: none"> - Enter the default PIN "1-2-3-4" OR your new 4-digit PIN - Press . - The panel will display the below image while you are in STANDBY mode:  <p>(One beep indicates that you entered a valid PIN, three beeps indicate that an invalid operation was performed).</p>
2	(1234 or 4-digit PIN) +  + 	Enter 4-digit PIN, press  and  for ARM mode	<p>Exit delay: Up to 15 seconds</p> <ul style="list-style-type: none"> - There is a 15 second exit delay time with a visual and audible (beeping) countdown before the system is armed. (Press MUTE to disable the beeping countdown, press MUTE again to resume the beeping) - If the Zone is enabled, a number will appear as displayed in the image below:  <p>- The system will then enter ARM mode after 15 seconds.</p>

When in **ARM** mode, the Wireless Alarm Panel flashes RED every 5 seconds, acting as a deterrent to potential intruders. However, if an intruder is detected the panel continuously and rapidly flashes RED. Once an intrusion has occurred (with the zone triggered under **ARM** status), the alarm siren will sound and the panel flashes RED every 1.5 seconds with the triggered zone indicated. After the initial triggering, the alarm will immediately sound, without delay, if any other sensors are triggered.

F. DISARMING THE SYSTEM

- On the Wireless Alarm Panel: Enter your 4-digit PIN followed by  to disarm the system.
- On the Keychain Remote Control: Press  to disarm the system

G. ZONE SETTINGS

Programming each zone in **ARM** mode:

	Keys	Description	Note
1	(1234 or 4-digit PIN) + 	You must be in STANDBY mode before turning to ARM mode	<p>*To make sure you are in STANDBY mode:</p> <ul style="list-style-type: none"> - Enter the default PIN "1-2-3-4" OR your new 4-digit PIN - Press . - The panel will display the below image while you are in STANDBY mode:  <p>(One beep indicates that you entered a valid PIN, three beeps indicate that an invalid operation was performed).</p>

2	(1234 or 4-digit PIN) +	Enter 4-digit PIN for setting followed by	The panel will display the below image:
3	 + 	Press then to set the ARM mode	- Toggle 1, 2, 3, 4, 5, 6, 7, 8 to turn each zone ON or OFF - If no number appears, the zone is turned OFF - The panel will display the below image:
4		Press to complete the setting	Confirm the setting and return the panel to STANDBY by pressing

H. TRIGGERS IN ARM MODE

Example: Zone 1 trigger

Step	Description	Note
1	Under the “ ARM ” Mode	The panel will display the below image:
2	System trigger	 One beep indicates that the system is triggered.
3	Entry delay 30 seconds	There are 30 seconds of entry delay time with a visual countdown for disarming. Once an intrusion has occurred (zone triggered under ARM status), the alarm siren will sound for 1 minute and the panel display flashes RED every 1.5 seconds with the triggered zone indicated, until the system is disarmed. *To disarm the system, enter the 4-Digit PIN or press on the remote control.
4	Return to ARM mode after the initial triggering	After the initial triggering, the alarm will immediately sound, without delay, if any other sensors are triggered.

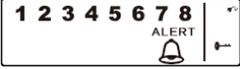
3.3.3 ALERT MODE

If in **ALERT** mode, the Wireless Alarm Panel chime will sound and the Wireless Alarm Panel flashes GREEN every 1.5 seconds with the triggered zone indicated, when the system detects a visitor in the protected area. **ALERT** mode default settings:

Sensor	Zone	Status (MODE)
• Door/Window Sensor	1	ALERT
• Door/Window Sensor	2	ALERT
• Motion Sensor	8	ALERT

A. ENTERING ALERT MODE

- On the Keychain Remote: Press  to activate.
- On the Wireless Alarm Panel: First make sure the panel is in **STANDBY** mode, and then enter into **ALERT** mode by taking the following steps:

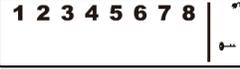
	Keys	Description	Note
1	(1234 or 4-digit PIN) + 	You must be in STANDBY mode before turning to ALERT mode	<p>*To make sure you are in STANDBY mode:</p> <ul style="list-style-type: none"> - Enter the default PIN “ 1-2-3-4 ” OR your new 4-digit PIN - Press . - The panel will display the below image while you are in STANDBY mode:  <p>(One beep indicates that you entered a valid PIN, three beeps indicate that an invalid operation was performed).</p>
2	(1234 or 4-digit PIN) +  + 	Enter 4-digit PIN, press  and  for ALERT mode	<ul style="list-style-type: none"> - The system will then enter ALERT mode - If the Zone is enabled, a number will appear as displayed in the image below: 

B. EXITING ALERT MODE

- On the Wireless Alarm Panel: Enter your 4-digit PIN followed by  to exit **ALERT** mode.
- On the Keychain Remote Control: Press  to exit **ALERT** mode.

C. ZONE SETTINGS

Programming each zone in **ALERT** mode:

	Keys	Description	Note
1	(1234 or 4-digit PIN) + 	You must be in STANDBY mode before turning to ALERT mode	<p>*To make sure you are in STANDBY mode:</p> <ul style="list-style-type: none"> - Enter the default PIN “ 1-2-3-4 ” OR your new 4-digit PIN - Press . - The panel displays the below image while in STANDBY mode:  <p>(One beep indicates that you entered a valid PIN, three beeps indicate that an invalid operation was performed).</p>
2	4-digit PIN + 	Enter 4-digit PIN for setting followed by 	<p>The panel will display the below image:</p>  <p>(One beep indicates that you entered a valid PIN, three beeps indicate that an invalid operation was performed).</p>
3	 + 	Press  then  to set the ALERT Mode	<p>Toggle 1, 2, 3, 4, 5, 6, 7, 8 to turn each zone ON or OFF</p> <ul style="list-style-type: none"> - If no number appears, the zone is turned OFF. <p>The panel will display the below image:</p> 
4		Press  to complete the setting	Confirm the setting and return the panel to STANDBY by pressing 

3.3.4 HOME MODE

There are default settings that allow the system to operate after opening the package. These settings can be adjusted to suit your individual requirements. The **HOME** mode allows the system to operate in both the **ARM** and **ALERT** modes in different zones.

HOME mode default setting:

Sensor	Zone	Status (MODE)
• Door/Window Sensor	1	ALERT
• Door/Window Sensor	2	ALERT
• Motion Sensor	8	ARM

A. ENTERING THE HOME MODE

- On the Keychain Remote Control: Press  to activate.
- On the Wireless Alarm Panel: First make sure the panel is in **STANDBY** mode, and then enter **HOME** mode by taking the following steps:

	Keys	Description	Note
1	(1234 or 4-digit PIN) + 	You must be in STANDBY mode before turning to HOME mode	<p>*To make sure you are in STANDBY mode:</p> <ul style="list-style-type: none"> - Enter the default PIN "1-2-3-4" OR your new 4-digit PIN - Press  - The panel will display the below image while you are in STANDBY mode:  <p>(One beep indicates that you entered a valid PIN, three beeps indicate that an invalid operation was performed).</p>
2	4-digit PIN +  + 	Enter 4-digit PIN, press  and  for HOME mode	<ul style="list-style-type: none"> - Then system will enter HOME mode - If the Zone is enabled, a number will appear as displayed in the image below: 

B. EXITING THE HOME MODE

- On the Wireless Alarm Panel: Enter your 4-digit PIN followed by  to exit **HOME** mode.
- On the Keychain Remote Control: Press  to exit **HOME** mode.

C. ZONE SETTINGS

Programming each zone in **HOME** mode:

	Keys	Description	Note
1	(1234 or 4-digit PIN) + 	You must be in STANDBY mode before turning to HOME mode	<p>*To make sure you are in STANDBY mode:</p> <ul style="list-style-type: none"> - Enter the default PIN "1-2-3-4" OR your new 4-digit PIN - Press  - The panel will display the below image while you are in STANDBY mode:  <p>(One beep indicates that you entered a valid PIN, three beeps indicate that an invalid operation was performed).</p>

2	4-digit PIN + 	Enter 4-digit PIN for setting followed by 	<p>The panel will display the below image:</p>  <p>(One beep indicates that you entered a valid PIN, three beeps indicate that an invalid operation was performed).</p>
3	 + 	Press  then  to set the HOME mode	<p>Toggle 1, 2, 3, 4, 5, 6, 7, 8 to turn each zone in different mode</p> <p> Indicates ALERT mode for a zone</p> <p> Indicates ARM mode for a zone</p> <p><input type="checkbox"/> Indicates the zone is turned OFF, number will not appear</p> <p>The panel will display the below image:</p> 
4		Press  to complete the setting	Confirm the setting and return the panel to STANDBY by pressing 

SECTION 4: INSTALLING THE SENSORS

4.1 INTRODUCTION TO THE SENSORS

This package includes 2 wireless sensors which have a pre-programmed default setting that begins working immediately once the battery is activated (the Keychain Remote Control needs to be enrolled onto the system before it can operate – see Section 4.2.3). It is advisable to install the main package first and then personalize the settings once the system is functioning properly. This section should help you to change the system settings in order to create a more personal home environment.

4.2 INSTALLING THE SENSORS

First, determine the location of the sensors.

***Note:** The sensors should be placed:

- Where they are not easily accessible.
- In the most vulnerable rooms or near key entry points.
- Away from extreme temperature sources (radiators, ovens, stoves etc.) and large metal objects that could interfere with the wireless performance.
- Where better RF performance can be achieved (if necessary).

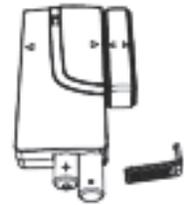
Once you have selected a location for the sensors, the system can be powered up.

4.2.1 INSTALLING THE DOOR/WINDOW SENSORS

The Door/Window Sensors consists of two parts, a transmitter and a magnet. Once the sensors are installed, and the two parts are fastened onto the door or window, the sensor will trigger and transmit a message to the Wireless Alarm Panel when the door or window is opened. One Door/Window Sensor is pre-programmed in Zone 1 and the other one is set in Zone 2; however, these settings can be adjusted according to your requirements. (See 3.3 & 4.4 Zone Settings)

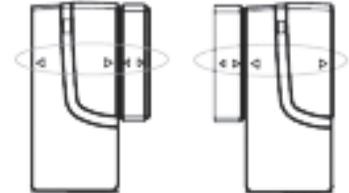
A. POWERING UP THE DOOR/WINDOW SENSORS

- Remove the battery cover; insert new batteries noting the polarity as shown in the diagram below and replace the cover. (Requires 2 x AAA batteries)
- Low battery indication: If the batteries need to be replaced, the RED LED on the transmitter will flash slowly.



B. INSTALLING THE DOOR/WINDOW SENSORS

- Mount the transmitter on a fixed surface such as a door or a window frame.
- Mount the magnet on a movable surface such as a door or a window.
- Ensure the >|< marks on the sides of the transmitter and magnet match up as shown in the diagram.
- The transmitter and the magnet must be no more than 5mm apart

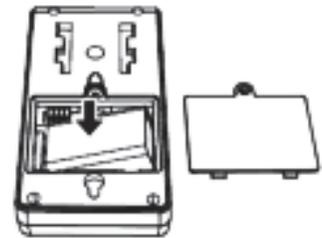


C. MOUNTING WITH THE DOUBLE-SIDED ADHESIVE PAD

- Ensure the mounting surface is clean.
- Peel back one layer of the protective film and attach it to the transmitter.
- Peel back the remaining layer of protective film and press the transmitter firmly in place against the mounting surface until firmly attached.
- Repeat to attach the magnet.

4.2.2 INSTALLING THE MOTION SENSOR (optional accessory)

The Motion Sensor is designed to sense movement in a given area.
Note: It is best if pets are not allowed onto higher surfaces so that the sensors are not triggered unnecessarily (no more than 3 feet high).



A. POWERING UP THE MOTION SENSOR

- Remove the battery cover, insert and connect a 9V battery as shown in diagram below and replace the cover. (Requires 1 x 9V battery)
- Low battery indication: If the batteries need to be replaced, the RED LED will flash (not including entry/exit delay flashing).

B. INSTALLING THE MOTION SENSOR

First, determine the location of the Motion Sensor.

***Note:** The Sensor should be placed:

- In the most vulnerable rooms or near key entry points.
- On a solid surface between 6 ft to 8 ft (1.8m to 2.4m) from the floor.
- Away from extreme temperature sources (radiators, ovens, stoves etc.)
- Away from direct sunlight.
- Indoors only and not behind partitions
- Where better RF performance can be achieved (if necessary)

C. SENSOR SENSITIVITY

IMPORTANT!

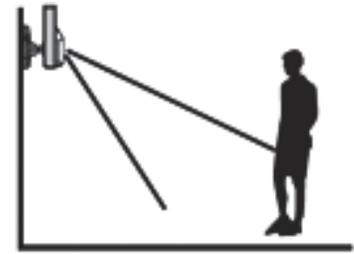
The Motion Sensor is designed with a power saving program and will remain inactive for 3 minutes after each detection. Please bear this in mind during system set up.

The sensitivity of the Motion sensor is adjustable and can be changed by setting the connector, found in the battery compartment, on either the 'High', 'Middle' or 'Low' position. When the sensitivity is set to "Low", more movement is required to trigger the sensor. It is recommended to set the sensitivity to "Low" and perform a "Walk Test" (Described in part D). If the walk test result is satisfactory, the sensitivity does not require further adjustment. If the walk test result shows the sensitivity is too low, then the sensitivity can be set to "Middle" or "High" as required. It is recommended that a walk test be conducted after each change in sensitivity setting.

D. WALK TEST

After mounting the sensor at the desired location, it is important to perform a walk test in order to determine if the sensor is detecting the correct area.

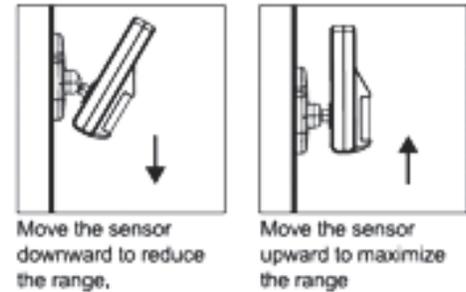
The distance at which the sensor can detect motion can be adjusted by altering the angle of the sensor. To reduce the detection range, simply move the sensor downward and move the sensor upward to maximize the range.



Note:

Enter into **ALERT** mode before you perform the walk test, so that the alarm is not triggered.

You should walk in the area that you would like the sensor to monitor. If movement is detected the red light inside the unit will appear. If the red light does not appear, adjust the mounting angle accordingly. Perform the walk test again after 3 minutes. Repeat this procedure until motion is detected. While you are carrying out the test, there should be no movement in the detection area during the 3 minute interval.



***TIP:** The sensor should not face towards direct sunlight, be placed near heat or cold producing devices (i.e. air conditioning, radiators, fans, ovens, heaters etc.) that may cause false triggers. Also perform the walk test in areas where the sensor is not intended to cover, to ensure movement cannot be detected.

E. MOUNTING USING SCREWS

- Hold the enclosed mounting template against the wall at the selected location and mark the points for drilling.
- Drill the holes and insert wall plugs.
- Attach the bracket to the mounting surface with the screws provided.
- Attach the Motion Sensor to the mounting bracket.

4.2.3 KEYCHAIN REMOTE CONTROL

A. INTRODUCTION

The Keychain Remote Control allows you to operate the systems Wireless Alarm Panel remotely, from inside or outside the property. Using the control the system can be armed or disarmed and the siren can be activated instantly if required (using the Panic function).

B. OPERATION

I. POWERING UP THE KEYCHAIN REMOTE CONTROL

The Remote Control includes a 12V alkaline battery. To activate, unscrew and remove the back of the Remote Control, and carefully remove the clear plastic insulation tab from the battery. If the battery is dislodged, replace it noting the correct polarity as shown inside the battery compartment. Replace the battery cover.

II. ENROLLING THE REMOTE CONTROL ONTO THE WIRELESS ALARM PANEL

Note:

Before being able to use the Keychain Remote Control supplied with the system, or any additional Remote Controls, they first need to be enrolled (added onto the system) as follows:

	Keys	Description	Note
1	(1234 or 4-digit PIN) +	You must be in STANDBY mode before enrolling a new Remote Control onto the Wireless Alarm Panel	<p>*To make sure you are in STANDBY mode:</p> <ul style="list-style-type: none"> - Enter the default PIN "1-2-3-4" OR your new 4-digit PIN - Press - The panel will display the below image while you are in STANDBY mode:  <p>(One beep indicates that you entered a valid PIN, three beeps indicate that an invalid operation was performed).</p>
2	(1234 or 4-digit PIN) +	Enter the default PIN "1-2-3-4" OR your new 4-digit PIN for setting followed by	The panel will display the below image:
3	+	Press then to enter the Remote Control Enroll mode. Then press any key on the new Remote Control to enroll it onto the system.	<p>LCD display flashes the ID no. of the remote to be enrolled e.g. when enrolling the first remote ID no. "01" will flash. Once the first remote is enrolled the "02" will flash ready for a second remote to be enrolled (One beep indicates that the remote was enrolled to the panel successfully)</p> <p>Note: It is recommended that the ID No. is marked on the remote in case it needs to be deleted at a later stage</p>
4		Press to complete the setting	Confirm the setting and return the panel to STANDBY by pressing

III. OPERATING THE KEYCHAIN REMOTE CONTROL

The remote can be used to arm, disarm, and operate the system instantly.

ARM:

Pressing the **ARM** button on the remote will arm the system, triggering the preset exit delay. When triggered the Wireless Alarm Panel's LCD display will flash Red and indicate the triggered zone.

DISARM:

Pressing the DISARM button on the remote will disarm the system instantly and the system will return to **STANDBY** mode.

ALERT:

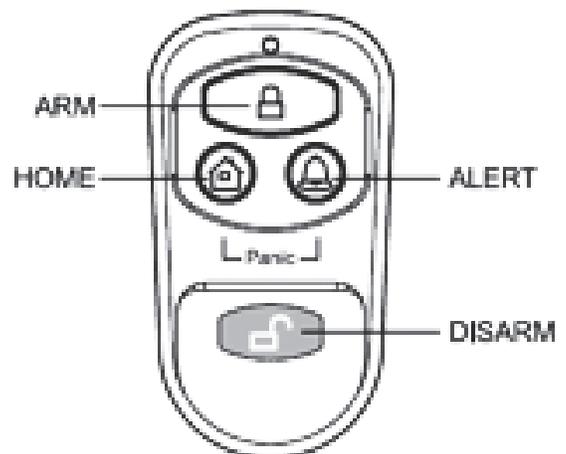
Pressing the ALERT button on the remote will put the system into **ALERT** mode and a chime will sound if any of the sensors are triggered. The LCD display will flash Green and indicate the triggered zone.

HOME:

Pressing the HOME button on the remote will set the system in **HOME** mode which will operate the system in both **ARM** and **ALERT** modes in different preset zones.

PANIC:

If the HOME and ALERT buttons are pressed together the systems alarm is immediately activated.



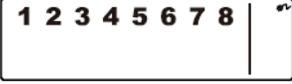
IV. DELETING A REMOTE CONTROL FROM THE WIRELESS ALARM PANEL

If a Remote Control device is damaged or lost, it can be deleted from the system as follows:

	Keys	Description	Note
1	(1234 or 4-digit PIN) + 	You must be in STANDBY mode before deleting a Remote Control from the Wireless Alarm Panel	<p>*To make sure you are in STANDBY mode:</p> <ul style="list-style-type: none"> - Enter the default PIN "1-2-3-4" OR your new 4-digit PIN - Press  - The panel will display the below image while you are in STANDBY mode:  <p>(One beep indicates that you entered a valid PIN, three beeps indicate that an invalid operation was performed).</p>
2	(1234 or 4-digit PIN) + 	Enter the default PIN "1-2-3-4" OR your new 4-digit PIN for setting followed by 	<p>The panel will display the below image:</p> 
3	 + 	Press  then  to enter the Remote Control Deleting mode. Then input the ID no. of the Remote Control you wish to delete from the system	<ul style="list-style-type: none"> • LCD display flashes the total number of remote currently enrolled to the system (e.g. If the panel has 3 remotes enrolled the LCD display will flash "03") • Input the remote ID no. (e.g. "02") for the remote you wish to delete (Inputting "00" will delete all remote controls) • LCD display will then flash the total number of remotes enrolled after deletion (One beep indicates that the remote was successfully deleted from the panel)
4		Press  to complete the setting	Confirm the setting and return the panel to STANDBY by pressing 

V. QUERYING THE ID NUMBER OF A REMOTE CONTROL

The ID number of a Remote Control device can be identified as follows:

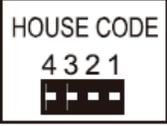
	Keys	Description	Note
1	(1234 or 4-digit PIN) + 	You must be in STANDBY mode before querying the ID number of a Remote Control from the Wireless Alarm Panel	<p>*To make sure you are in STANDBY mode:</p> <ul style="list-style-type: none"> - Enter the default PIN "1-2-3-4" OR your new 4-digit PIN - Press  - The panel will display the below image while you are in STANDBY mode:  <p>(One beep indicates that you entered a valid PIN, three beeps indicate that an invalid operation was performed).</p>
2	(1234 or 4-digit PIN) + 	Enter the default PIN "1-2-3-4" OR your new 4-digit PIN for setting followed by 	<p>The panel will display the below image:</p> 

3		Press  then  to go into Remote Querying mode, and then press any key on the remote to check its ID.	- After entering into Remote Querying mode, the LCD display will flash the total number of remote controls currently enrolled to the system (e.g. If 3 remotes are enrolled the LCD display will flash "03") - The ID No. of the Remote can then be checked by pressing any key on the remote (e.g, if the LCD display flashes "02" then that is the ID of the remote)
4		Press  to complete the query	Complete the query and return the panel to STANDBY by pressing 

4.3 HOUSE SECURITY CODE SETTINGS

In most cases the factory settings of the House Security Code will NOT need to be changed. However, if the Wireless Alarm Panel and Sensors activate intermittently or do not work at all, this may be due to interference with other systems, which can be avoided by changing the House Security Code. To change this code, take the following steps with each system module:

1. There are 4 Jumpers/Dip-switches on each device. To locate these remove the battery compartment cover.
2. Set the Jumpers as shown below (Push in for ON / Pull out for OFF) to change the House Security Code setting. Make sure the Jumper/Dip-switch settings on all devices match each other exactly.

ON = Pushed in; OFF = Pulled out		
Jumpers: House Security Code		- Wireless Alarm Panel - Sensors Default Code: 1: ON, 2: ON, 3: ON, 4: ON
Dip-switches: House Security Code		- Keychain Remote Controls Default Code: 1: ON, 2: ON, 3: ON, 4: ON

4.4 ZONE CODE SETTINGS

Sensors are supplied with pre-assigned Zone settings to make setup easy - the Door/Window Sensors are pre-assigned to Zones 1 & 2 and the Motion Sensor to Zone 8. To assign a Sensor to a different zone, the Zone Code on the Sensor needs to be changed. To change this code, take the following steps:

1. There is a Zone Code Jumper on each Sensor which can be located by removing the Jumper compartment cover.
2. Then pull out the Jumper and reassign it to the new Zone (Zones 1 to 8) as shown in the diagram below.
3. Replace and screw back the cover to complete the Zone Code setting.

Jumper for Zone Code		Default zone code: Door/Window sensor - Zone 1 Door/Window sensor - Zone 2 Motion sensor - Zone 8
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SECTION 5: TROUBLESHOOTING

5.1 FAQs

Q1: What is the best way to set up my system?

Where should I put my Wireless Alarm Panel and the sensors?

A1: We recommend that you take some time in advance to think about the placement of the Wireless Alarm Panel and Sensors. The best location for the panel is usually by the main entry/exit point, in a hallway, or in another central location in your home. However, it must be plugged into a power socket, which may dictate where it can be placed.

***Please note** that the alarm is pre-programmed with default settings, allowing you a pre-determined amount of time to enter (30 seconds) and time to exit (20 seconds) before the alarm sounds. You can either change the default delay setting to allow more time to enter/exit your home or, alternatively use the Keychain Remote Control to disarm the system.

Q2: How many Sensors can the Wireless Alarm Panel support?

A2: An unlimited number of sensors can be supported by the system, added to different zones in your house, as you see fit.

Q3: What wireless range should I expect from Sensors?

A3: The range will vary depending on the type of structure; however, in an open space, the sensors should be capable of transmitting a signal up to 450 feet from the panel. Determine the location of the sensors first and change to a different location for better RF performance.

Q4: How do I attach my Sensors?

A4: Adhesive tape and screws are provided for the purpose of securely mounting these items. Please refer to the User Guide for more information about mounting the Wireless Alarm Panel and the wireless sensors.

Q5: Do I have to program the Wireless Alarm Panel?

A5: The system is designed for easy installation. This means that the wireless sensors are in a default setting already registered to the panel and will therefore function immediately after the sensors are powered up. If you choose to buy additional accessories, these will need to be added to your system using the easy to follow instructions.

***Note:** Due to the strong signal of the alarm, we advise that you change the House Security Code settings following section 4.3 of this manual, if you suspect that one of your in-range neighbors may also be using this alarm system.

Q6: Can I still use the same system if I move?

A6: The system is completely portable. If you move, you can remove your panel and wireless accessories and re-install them in your new property.

Q7: What if I forget my PIN?

A7: If you forget your PIN, you may press the [Reset] button inside the battery compartment of the Wireless Alarm Panel and the PIN will be reset to the factory default PIN 1234.

Q8: Why does my Motion Sensor not respond to movement?

A8: Motion Sensors are very sensitive so to preserve battery life the sensor will go to "Sleep" after an event has been identified and reported to the panel. This "Sleep" period lasts 3 minutes, after which, if no activity is detected, the Motion Sensor will again become active and ready to detect other events.

Q9: Why does my Motion Sensor keep generating false alarms?

A9: If you have a pet, make sure they have not triggered the system. Remember, sensitivity to pets increases in certain circumstances (e.g. the nearer the pet gets to the Sensor)

5.2 TROUBLESHOOTING

AC power failure:

This may occur if your security system is accidentally unplugged or if there has been a main power cut. If a full power failure occurs, please contact your electric company to find out the source of the problem. The back-up battery will continue to run the system for approximately 6 hours.

System battery failure:

This may occur if the emergency back-up battery has been drained and needs to be replaced. If AC power is not restored, the low battery symbol will flash indicating that the panel back-up battery is running low. The back-up battery should be replaced once the low battery symbol appears.

Sensor failure:

This may occur if a sensor is not communicating with the panel. It is necessary for you to ensure the House Security Code dip-switch and jumpers of the sensors are set correctly to the panel.

SECTION 6: GENERAL INFORMATION

6.1 PRODUCT INFORMATION

Wireless systems are reliable and tested to high standards; however, it is important to consider that there are some limitations due to their transmitting power and range:

- Receivers may be blocked by radio signals occurring on or near operating frequencies, regardless of the code selected.
- A receiver can only respond to one transmitted signal at a time.
- Wireless equipment should be tested regularly to determine whether there are sources of interference and to protect against faults.

6.2 SPECIFICATIONS

6.2.1 WIRELESS ALARM PANEL

Power source:	AC adaptor
Back up power:	9V alkaline battery x 1
Sensor numbers:	Unlimited
House Code:	4 Jumpers
Operating frequencies:	433.92 MHz +/-0.5 MHz
Siren output:	120dB (Duration-adjustable)

6.2.2 KEYCHAIN REMOTE CONTROL

Power source:	12V alkaline battery x 1
RF working transmission frequency:	433.92 MHz +/-0.5 MHz
House Code:	4 Jumpers
Wireless range to Wireless Alarm Panel:	< 200 feet (open area)

6.2.3 DOOR/WINDOW SENSOR

Power source:	AAA alkaline battery 1.5V x 2
RF working transmission frequency:	433.92 MHz +/-0.5 MHz
House Code:	4 Jumpers
Zone Code: Pin header:	8 pin
Wireless range to Wireless Alarm Panel:	< 450 feet (open area)

6.2.4 MOTION SENSOR

Power source: 9V alkaline battery x 1
RF working transmission frequency: 433.92 MHz +/-0.5 MHz
PIR detection angle: < 120°
PIR detection range: H: < 49 ft, M: < 19.5 ft, L: < 13 ft
House Code: 4 Jumpers
Zone Code: Pin header: 8 pin
Wireless range to Wireless Alarm Panel: < 450 feet (open area)
Power saving timer: 3 minutes

6.3 MAINTENANCE

The product may be cleaned with a soft damp cloth and then wiped dry. Do not use abrasive, solvent-based or aerosol cleaners as this may damage and/or discolor the product. Do not allow water to enter or attempt to clean the inside of the unit.

6.4 BATTERIES

- Do not allow batteries to corrode and leak as this may cause permanent damage to the product.
- Take care to insert the batteries with the correct polarity as shown inside the battery compartments.
- Do not mix new and old batteries or different types of batteries.
- Do not use rechargeable batteries.
- At the end of their useful life the batteries should be disposed of via a suitable Recycling Center. Do not dispose of with your normal household waste.
DO NOT BURN.

⚠ WARNING— Risk of Personal Injury Prolonged exposure to alarm siren may cause permanent hearing damage or loss.

FCC COMPLIANCE

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. (2) This device must accept any interference received including interference that may cause undesired operation.

* Federal Communications Commission (FCC) Statement

WARNING: 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.

* You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.