



Wire-Free Home Alarm System with Phone Dialer









Patent Pending





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User Guide

Model # WS-98X-01

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SECTION 1 – GETTING STARTED

1.1 General system overview

CAUTION! The 9V battery in the Smart Halo Panel is for power back-up purposes only, and the unit should be supplied with mains power (through the AC adaptor) at all times.

Difficulty in disarming the Smart Halo Panel in ARM 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 mains power supplied through the AC adaptor included.



Due to the strong signal 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 neighbours may also be using this type of 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 week ensure the sensors and siren(s) are working properly.
- *Although having an alarm system may make you eligible for reduced insurance premiums, the system is no substitute for insurance.

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

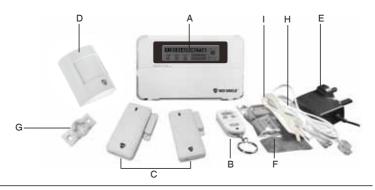
1.2 Introduction to the system

The SMART HALO Home Protection System is a high quality security system combined with a range of user-friendly features. The system is controlled by a Smart Halo Panel, which gathers information from wireless sensors placed inside and at the entry points of your home or office. If the Smart Halo Panel detects a security breach, indicator lights will flash and the siren(s) will sound. Details of how to correctly install and operate the system are contained within this User Guide.

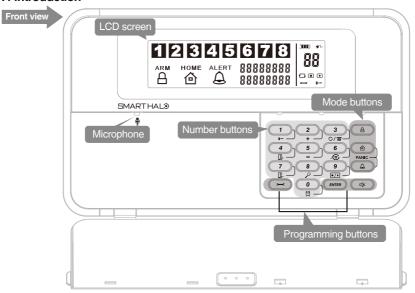
1.3 Items included with the system

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

- A. Smart Halo Panel
- B. Key Fob Remote Control
- C. Door/Window Sensors
- D. Motion Sensor
- E. AC adaptor for Smart Halo Panel
- F. Double-sided adhesive strips for Door/Window Sensor, Screws and wall plugs
- G. Mounting bracket for Motion Sensor
- H. Telephone wire
- I. Audio Cable
 - User Guide



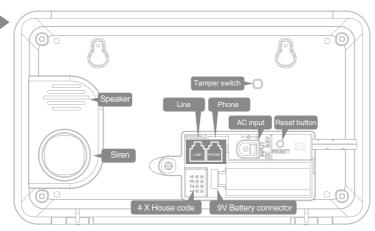
1.4 Introduction



Key Pad Icon	Brief descriptions
1	PIN setting
2	Add additional keychain remote or additional keypad control
3 0/ T	Dialing cycle or add recipient numbers
4	Exit delay timer setting
5	Remove additional keychain remote or keypad control
	Inquiry recipient number
7	Entry delay timer setting
8	Querying the ID number of a remote control or keypad control
9	Record or playback
(O)	Alarm duration setting
→ c	Setting mode
ENTER	Enter
4.	1. Stop panel flashes when the zone is triggered under ALERT status
\Psi	Disable the beeping countdown under entry/exit delay
	ARM mode
<u></u>	HOME mode
₽	ALERT mode (Chime)
PANIC	

LCD Icon	Brief descriptions
•	Play
•	Record
-	Dialing cycle
1	AC power
III)	Battery power
88	Timer counter
12345678	Zones
88888888 88888888	Recipient telephone numbers





1.5 Introduction to the Smart Halo Panel sound alert and backlight

Operating Mode	Situation	Sound alert and backlight indication
ARM	Zone triggered under ARM status	Alarm duration: Adjustable between 1 – 6 minutes (siren). Default is 1 minute Smart Halo- 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 Smart Halo - flashes RED every 5 seconds providing an intruder deterrent (different from when an intrusion occurs and the panel rapidly and continuously flashes RED).
HOME	Zone triggered under ARM status	 Alarm duration: Adjustable between 1 – 6 minutes (siren). Default is 1 minute Smart Halo - 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) Smart Halo – flashes WHITE every 1.5 seconds with triggered zone indicated (To stop panel flashes - press
ALERT	Zone triggered under ALERT status	Sound output: Chime (ding-dong) Smart Halo – flashes GREEN every 1.5 seconds with triggered zone indicated (To stop panel flashes press
STANDBY	Silent	Smart Halo – WHITE backlight remains ON for 10 seconds after entering into STANDBY mode

SECTION 2

- INSTALLING THE SMART HALO HOME PROTECTION SYSTEM

2.1 Installing the Smart Halo Panel

WARNING: The Red Shield Smart Halo Panel has a built-in tamper-proof switch to prevent the system being disabled by an intruder. When fixing the Smart Halo Panel to a wall, first ensure that it is in Standby mode to avoid the alarm sounding.

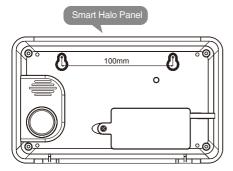
2.1.1 Locating the Smart Halo Panel

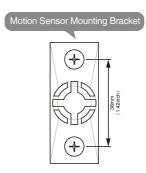
Determine the location of the Smart Halo Panel, which should be placed:

- Within a few feet of an electrical outlet and Telephone socket
- 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 Smart Halo Panel

· Measure up the Smart Halo Panel for position for screws





- Mark on the wall the points for drilling holes for the wall plugs and mounting screws.
- Drill the holes, insert wall plugs and locate the mounting screws for the Smart Halo Panel
- Once the Smart Halo Panel has been installed the system can be powered up. The tamperproof switch is enabled once the Smart Halo Panel is switched to HOME. ALERT or ARM mode

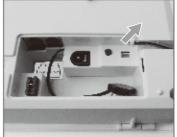
2.2 Connecting the telephone line and powering up the Smart Halo Panel

Note: The Smart Halo Panel is supplied with a demonstration switch to show the LCD display panel working whilst the unit is in its packaging.

- Before powering up the Smart Halo Panel the wire for this switch must be removed as describe below (See Figs 1&2).
- This device must be connected to a public switched telephone network (PSTN) phone line (with an individual phone number) with tone frequency at 450Hz +/-20Hz. This equipment will not function with party lines, coin operated phone lines, ISDN connections or any part of a private or corporate switch board system.
- · Open the battery compartment.
- Connect the telephone network plug to line and the telephone to phone and then power up your Smart Halo Panel
 with 9V battery and AC adaptor (if you find on the display screen CONNECT LINE, please disconnect power supply and
 make sure the telephone line is connected first before powering up the Smart Halo Panel) Fig 3 & 4. To connect phone
 is optional, if your home has only the one wall telephone socket then you must connect to a phone via the Smart
 Halo Panel.
- Once you inserted a new 9V back up battery (Noting the polarity) and plug the AC adaptor into the Smart Halo Panel (Fig 5) replace cover and screw firmly.
- Your telephone will function normally until Auto Dialer is activated. Upon activation the device will take control of the telephone line functions.



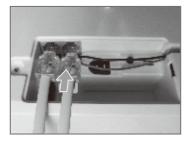




▶ Fig. 1

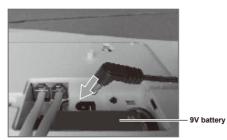
▶ Fig. 2





▶ Fig. 3

▶ Fig. 4



▶ Fig. 5

Description

Note

Insert 9V Alkaline backup battery

- One beep will sound and the backlight will blink within 1 second (White)
- The Smart Halo Panel will display the below image:



• The Smart Halo 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"

Plug in AC adapter to the DC socket in the back of the Smart Halo Panel

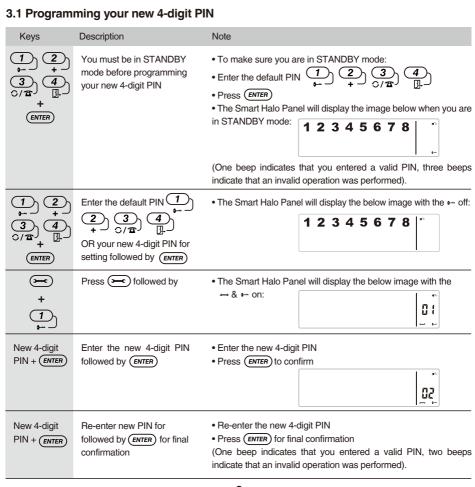
The main power supply (with AC adaptor) must be plugged in at all times, with the 9V battery functioning as back-up power supply only, when the mains power supply is interrupted.

2.3 Understanding the battery and AC adaptor icon

Battery icon shows power status below: Full - III - II	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. 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.
AC Adaptor icon	When the AC adaptor to the Smart Halo Panel is connected to a wall socket, the AC symbol will appear. The backlight will be 'ON' for 10 seconds while the AC adapter connects to the power supply.

SECTION 3

USING THE SMART HALO HOME PROTECTION SYSTEM



3.1.1 Use Smart Halo App to set up or set up with the panel keypad

Smart Halo Set-up Guide

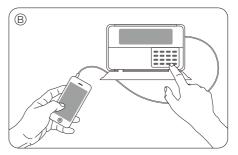
Download "Smart Halo" app on App StoresM or Google Play[™].







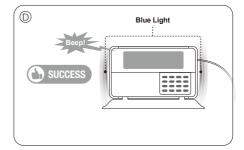
Turn audio volume to maximum



Connect the cable and enter the default PIN #1234, press ENTER



Launch Smart Halo App to start setting up



The panel LED will turn Blue upon successful set-up, retry if no signal

Instructions:

- You can now complete your setting for various modes: Home, Alert, Arm and Standby with the App
- You may also set up your system directly with the panel keypad
- App is used for system setting only. It is not a remote control for system operation
- System alerts will be communicated via PSTN network

3.2 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:

3.2.1 STANDBY mode

If in STANDBY mode, the Smart Halo Panel is prepared for mode selection

Keys	Description	Note
1) 2 + 3) 4 >/TE) + ENTER	You must be in STANDBY mode before turning to ARM mode	• To make sure you are in STANDBY mode: • Enter the default PIN • Enter the default PIN • Press ENTER • The Smart Halo Panel will display the below image while you were in STANDBY mode: 1 2 3 4 5 6 7 8
		(One beep indicates that you entered a valid PIN, three beeps indicate that an invalid operation was performed).

A. Adjusting Exit Delay

The default setting of the Smart Halo 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 and 60 seconds as follows,make sure you are in standby mode before the setting.

Keys	Description	Note	
+ 4	Press then 4 (as many times as required) to set the new Exit Delay	When	
		The Exit Delay time on the LCD display will flash until the setting is completed	
ENTER	Press ENTER to complete the setting	Confirm the setting and return the Smart Halo Panel to STANDBY by pressing	

B. Adjusting Entry Delay

The default setting of the Smart Halo 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 and 60 seconds as follows, make sure you are in standby mode before the setting.

Keys	Description	Note
+ 7) II-	Press then 7 (as many times as required) to set the new Entry Delay	When
	• The Entry Dela is completed	• The Entry Delay time on the LCD display will flash until the setting is completed
ENTER	Press ENTER to complete the setting	Confirm the setting and return the Smart Halo Panel to STANDBY by pressing (ENTER)

C. Adjusting the Alarm Duration

The default setting of the Smart Halo Panel gives an alarm duration of 1 minute after being triggered. However, this alarm duration can be increased up to 6 minutes, make sure you are in standby mode before the setting.

Keys	Description	Note
+ • •	Press then (as many times as required) to set the new Alarm Duration	When is pressed the first time the Smart Halo 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 1 2 3 4 5 6 7 8
		• The Alarm Duration on the LCD display will flash until the setting is completed
ENTER	Press ENTER to complete the setting	Confirm the setting and return the Smart Halo Panel to STANDBY by pressing (ENTER)

3.2.2 ALERT mode ()

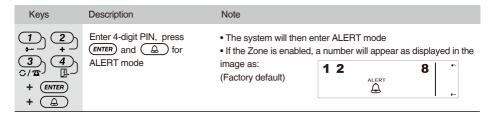
If in Alert mode, the Smart Halo Panel chime will sound and the Smart Halo Panel flashes GREEN every 1.5 seconds with the triggered zone indicated, when the system detects a visitor in the protected area.

ALERT mode default setting:

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

A. Entering ALERT mode

- On the Key Fob Remote: Press () to activate.
- On the Smart Halo Panel: First make sure the Smart Halo Panel is in STANDBY mode, and then enter into ALERT mode by taking the following steps:



B. Exiting the ALERT mode

- On the Smart Halo Panel: Enter your 4-digit PIN followed by (ENTER) to exit ALERT mode.
- On the Key Fob Remote Control: Press 🖒 to exit ALERT mode.

C. Zone settings

Programming each zone in ALERT mode, make sure you are in standby mode before the setting.

Keys	Description	Note
+	Press ENTER then (A) to set the ALERT 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 If all zones are enabled, the Smart Halo Panel will display the image as: 1 2 3 4 5 6 7 8 ALERT ALERT L
ENTER	Press ENTER to complete the setting	Confirm the setting and return the Smart Halo Panel to STANDBY by pressing ENTER

3.2.3 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 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 Key Fob Remote Control: Press () to activate.
- On the Smart Halo Panel: First make sure the Smart Halo Panel is in STANDBY mode, and then enter HOME mode by taking the following steps:

Keys	Description	Note
(1) (2) + (3) (4) 0/25	Enter 4-digit PIN, press (ENTER) and (n) for HOME mode	Then system will enter HOME mode If the Zones are enabled, a number will appear as displayed in the image below: (factory default)
+ ENTER + 🙆		1 2 3 4 5 6 7 8

B. Exiting the HOME mode

- On the Smart Halo Panel: Enter your 4-digit PIN followed by ENTER to exit HOME mode.
- On the Key Fob Remote Control: Press () to exit HOME mode.

C. Zone settings

Programming each zone in HOME mode, make sure you are in standby mode before the setting.

Keys	Description	Note
# #	Press then (a) to set the HOME mode	• Toggle 1, 2, 3, 4, 5, 6, 7, 8 to turn each zone in different mode • 1 Indicates ALERT mode for a zone • 1 Indicates ARM mode for a zone Below image for e.g.: Zone 1 \ 3 \ 4 ALERT Zone 2 \ 6 \ 8 ARMED Zone 5 and 7 is OFF 1 2 3 4 6 8 ADERT
ENTER	Press ENTER to complete the setting	Confirm the setting and return the Smart Halo Panel to STANDBY by pressing (ENTER)

3.2.4 ARM mode

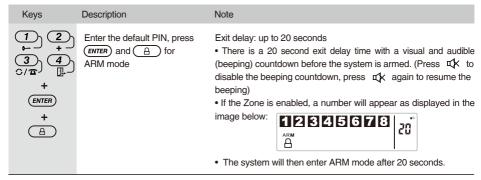
ARM mode default setting:

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

A. Arming the system

On the Key Fob Remote Control: Press (A) to ARM the system.

On the Smart Halo Panel: First make sure the Smart Halo Panel is in STANDBY mode, and then ARM the system by taking the following steps:



When in ARM mode, the Smart Halo 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 Smart Halo 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.

B. Disarming the system

- On the Smart Halo Panel: Enter your 4-digit PIN followed by ENTER to disarm the system.
- On the Key Fob Remote Control: Press 🖒 to disarm the system

C. Zone settings

Programming each zone in ARM mode:

Keys	Description	Note
+ A	Press then (A) 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 If all zones are enabled, the Smart Halo Panel will display the image as: ARM ARM ARM ARM ARM ARM ARM ARM ARM AR
ENTER	Press ENTER to complete the setting	Confirm the setting and return the Smart Halo Panel to STANDBY by pressing $\overbrace{\textit{ENTER}}$

D. Triggers in ARM mode

Example: Zone 1 trigger

Description	Note	
Under the "ARM" Mode	• The Smart Halo Panel will display the below image:	
System trigger	• One beep indicates that the system is triggered.	
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 Smart Halo Panel 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.	
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 Introduction of Key Fob Remote Control

A. Introduction

The Red Shield SMART HALO Home Protection System Remote Control allows you to operate the systems Smart 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 Key Fob 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 Smart Halo Panel

Note: Before being able to use the Key Fob Remote Control supplied with the system, or any additional Remote Controls, they first need to be enrolled (added onto the system) as follows, make sure you are in standby mode before the setting.

Keys	Description	Note
+ 2 +	to enter the Remote Control Enroll mode. Then press any key on the new Remote Control to enrol it onto the system	• 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 Smart Halo Panel successfully) 1 2 3 4 5 6 7 8
		Note: It is recommended that the ID No. is marked on the remote in case it needs to be deleted at a later stage
ENTER	Press ENTER to complete the setting	Confirm the enrolment and return the Smart Halo Panel to STANDBY by pressing (ENTER)

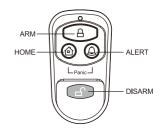
iii. Operating the Key Fob Remote Control

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 Smart Halo Panel's LED light 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 Green light on the Smart Halo Panel LED display will flash 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 Smart Halo Panel

If a Remote Control device is damaged or lost, it can be deleted from the system as follows, make sure you are in standby mode before the setting.

Keys	Description	Note
+ 5)	Press then 5 to enter the Remote Control Deleting mode.	 LCD display flashes the total number of remote currently enrolled to the system(e.g. If the Smart Halo Panel has 3 remotes enrolled the LCD display will flash "03")
<u></u>	Then input the ID no. of the Remote Control you wish to delete from the system	1 2 3 4 5 6 7 8
	System	• 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 Smart Halo Panel)

Press (ENTER) to complete Confirm the enrolment and return the Smart Halo Panel to the setting STANDBY by pressing (ENTER)

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
+ 8	Press then by 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)
ENTER	Press ENTER to complete the setting	Complete the query and return the Smart Halo Panel to STANDBY by pressing (ENTER)

3.4 Programming the built in Auto Dialer

3.4.1 Built in Auto Dialer

The Auto-Dialler is designed to allow a pre-recorded message to be transmitted to up to 8 pre-programmed telephone lines when triggered. The device allows limited two way communication to help those in the household to communicate with the alerted individuals. This feature is activated when the Red Shield alarm system is activated.

3.4.2 Telephone number + Dialing cycle

Program mode allows you to change recipient contact numbers (up to 8) as well as change the number of dialing cycles (attempts to call each recipient). To use Program mode please follow the instructions:

- Key in the PIN and press (ENTER)
- = + 3
- Set the recipient contact number keep on setting mode
- Press key 1-8 location recipient and key in the telephone number desired (Up to 15 digits)
- Press ENTER to repeat step to entry number of recipient once all recipient number is done
- To change dialing cycle key in 9 and press any numerical key 1-9
- The default number is 3 but can be from 1 to 9 times, press (ENTER)
- Press ENTER to exit in standby mode

3.4.3 Query Mode

Query mode allows you to inspect which recipient lines correspond to which number.

A.To inspect numbers in the memory enter Query mode and look:

- Key in the PIN and press (ENTER
- Press SETTINGS and (Query mode)
- Select 8 to observe "look"
- Press numbers 1-8 to see which numbers are stored in memory

• Press (ENTER) to exit in standby mode

B.To delete an entry you will need to enter the same mode and select delete:

Enter PIN and (ENTER)

• Press SETTINGS and 6 (Query mode)

• Press 5 to delete

• Pressing numbers 1-8 will delete that entry. Ensure that you are sure that the corresponding number is the number you wish to remove

Press (ENTER) to exit in standby mode

3.4.4 Record + Playback Mode

To prerecord a message for the intended recipients please enter the following:

• Key in the PIN and (ENTER)

• Press and 9 (Playback mode)
• Press 2

• Press 2 again to start recording for up to 20 seconds

• You may press during this recording to stop recording

• Press 5 to hear the voice recording

• Press (ENTER) to exit in standby mode

3.4.5 Instructions for Recipients of Emergency Auto Dialer

It is important that recipients of the Auto Dialler are informed on the correct procedures to follow when they receive a recorded message.

- After having full listened to the recorded message, press the hash key (#) to confirm that the message is NOT merely delivered to a voicemail. This will terminate the connection for all existing call and the remaining calls in the recipient list
- The recipient can then activate the listening in function by keying '1' within 10 seconds of the end of the recorded message or '#'. This will last up to 60 seconds.
- The recipient can also activate the speaker function by keying in '3' within 10 seconds of the end of the recorded message or '#'. This will last up to 60 seconds.

By alternating between '1' and '3' the recipient can interact with any individual near the Auto Dialler. As long these keys are repeatedly keyed in within a 60 second interval the connection will remain active. The line will disconnect if no keys have been pressed within 60 seconds.

3.4.6 Inactivating the Auto Dialer after an Alarm

The Auto dialer will continue dialing the numbers until the call is answered.

The recipient can stop the Auto dialer by waiting until the message has finished, and pressing (#) this will stop the auto dialer from calling all remaining phone numbers

As this termination stops the Auto dialer from calling anymore phone numbers, the recipient must know the exact situation before terminating it.

If the recipient is unable to cancel the alarm the alternative to deactivate the Auto Dialler is to cut off the mains power as well as removal of the back-up battery in the device.

3.4.7 Muting the Audible Countdown

When the Smart Halo Panel is ARMED the audible countdown (beeper) can be silenced by pressing the description. during the countdown. To reactivate the audible countdown (beeper) simply press the 🕟 button again.

3.5 Transmitting an emergency (Panic) alarm

3.5.1 Using the Panic alarm

Pressing (a) & (a) buttons together on the Keypad or Key Fob Remote Control will immediately transmit an alarm signal to the Smart Halo Panel, activating the siren, and transmitting an alarm signal to any optional response devices (Auto Dialer & Outdoor Bell Box), to request emergency assistance

To disarm the Panic alarm

On the Smart Halo Panel: Enter your 4-digit PIN followed by (ENTER) to exit from the Panic alarm. On the Key Fob Remote Control: Press (五) to exit from the Panic alarm.

3.5.2 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 Smart Halo Panel will then silently transmit an alarm signal to the optional response devices (Auto Dialer & Outdoor Bell Box) to request emergency assistance.

Duress Password:

Enter the default 4-digit PIN + $\frac{1}{0}$ (+ $\frac{1}{0}$ $\frac{2}{0}$ $\frac{3}{0}$ $\frac{4}{0}$ + $\frac{1}{0}$) + $\frac{ENTER}{0}$

OR

Enter your personalised 4-digit PIN + 1 + ENTER

SECTION 4 - INSTALLING THE SENSORS

4.1 Introduction to the Sensors

This package includes 3 wireless sensors which have a pre-programmed default setting that begins working immediately once the battery is activated. It is advisable to install the main package first and then personalise 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 Sensor

The Door/Window Sensor consists of two parts, a transmitter and a magnet. Once this sensor is installed, and the two parts are fastened onto the door or window, the sensor will trigger and transmit a message to the Smart Halo 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.

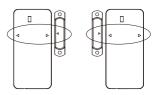
A. Powering up the the Door/Window Sensor

- 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 Sensor

- 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

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 1 metre high).

A. Powering up the Motion Sensor

- Remove the battery cover, insert and connect a 3V (CR123A) battery as shown in diagram below and replace the cover. Requires 1 x 3V (CR123A) 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 1.8m to 2.4mm (6ft to 8ft) 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)

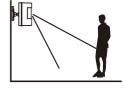
C. Sensor sensitivity

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. Test the Motion Sensor by pressing the test button inside the battery compartment.

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



Move the sensor downward to reduce the range.



Move the sensor upward to maximize the range

angle accordingly. Perform the walk test again after 3 minutes. Repeat this procedure until motion is detected. Whilst carrying out the test, there should be no movement in the detection area during the 3 minute interval.

* Tips: 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 which 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.

4.3 House Security Code settings

In most cases the factory settings of the House Security Code will NOT need to be changed. However, if the Smart Halo 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) Then set the Jumpers as shown below (ON-Push in / OFF –Pull out) to change the House Security Code setting. Make sure the Jumpers on the Smart Halo Panel and its Sensors exactly match each other AND the Dip-switch setting on the Key Fob Remote Control.

Jumpers for House Security Cod



- Smart Halo Panel
- Each sensor
- Default House Security Code:
 - 1: ON, 2: ON, 3: ON, 4: ON
- *Jumper: ON = Pushed in, OFF = Pulled out

Dip-switches for House Security Code



- Key Fob Remote Control
- Default House Security: 1: ON, 2: ON,
 3: ON, 4: ON

4.4 Zone Code settings

In most cases the factory settings of the House Security Code will NOT need to be changed. However, if the Smart Halo 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) Then set the Jumpers as shown below (ON-Push in / OFF –Pull out) to change the House Security Code setting. Make sure the Jumpers on the Smart Halo Panel and its Sensors exactly match each other AND the Dip-switch setting on the Key Fob Remote Control.

Jumper for Zone Code

ZONE CODE
· · · · ·
87654321

ZONE CODE
ZONE CODE I
700
87654321 I
01004021

ZONE CODE 87654321 Default zone code:
Door/Window sensor – Zone 1
Door/Window sensor – Zone 2
Motion sensor – Zone 8

SECTION 5 – TROUBLESHOOTING

5.1 FAQs

- Q.1: What is the best way to set up my system? Where should I put my Smart Halo Panel and the sensors?
- A.1: We recommend that you take some time in advance to think about the placement of the Smart Halo Panel and Sensors. The best location for the Smart Halo 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. front door you can either change the default setting to allow more time to enter/exit your home or, alternatively use the Key Fob to disarm the system.
- Q.2: How many Sensors can the Smart Halo Panel support?
- A.2. An unlimited number of sensors can be supported by the system, added to different zones in your house, as you see fit.
- Q.3: What wireless range should I expect from Sensors?
- A.3: 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 150 meters from the Smart Halo Panel. Determine the location of the sensors first and change to a different location for better RF performance.
- Q.4: How do I attach my Sensors?
- A.4: 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 Smart Halo Panel and the wireless sensors.
- Q.5: Do I have to programme the Smart Halo Panel?
- A.5: The SMART HALO Home Protection System is designed for easy installation. This means that the wireless sensors are in a default setting already registered to the Smart Halo 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 neighbours may also be using this alarm system.
- Q.6: Can I still use the same system if I move?
- A.6. The SMART HALO Home Protection System is completely portable. If you move, you can remove your Smart Halo Panel and wireless accessories and re-install them in your new property.
- Q.7: What if I forget my PIN?
- A.7: If you forget your PIN, you may press the "Reset" button inside the battery compartment of the Smart Halo Panel

and the PIN will be reset to the factory default PIN 1234.

Q.8: Why does my Motion Sensor not respond to movement?

A.8: Motion Sensor 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.

Q.9: Why does my Motion Sensor keep generating false alarms?

A 9: 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 to the Sensor.

Q.10: How can I synchronize my smartphone clock with the Smart Panel clock?

A.10: When you start setting up your phone number, your smartphone app will not start to synchronize the clock with the panel. The clock synchronization will only be done during basic set-up and zone set-up sections with the smartphone app.

5.2 Troubleshooting

AC power failure:

This may occur if your security system is accidentally unplugged or if there has been a mains 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 Smart Halo 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 Smart Halo Panel. It is necessary for you to ensure the House Security Code dipswitch and jumpers of the sensors are set correctly to the Smart Halo Panel.

Smart Halo Panel power saving:

In order to save battery power, the blue light surrounding Smart Halo Panel will not turn on if a battery is used. The blue light will only be turn on if the AC adaptor is connected to Smart Halo 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 Smart Halo Panel

Power source: AC adaptor
Back up power: 9V battery x 1pc
Sensor numbers: Unlimited
House Code: 4 Jumpers

Operating frequencies: 433.92MHz +/-0.5MHz
Siren output:: 120dB (Duration-adjustable)

6.2.2 Key Fob Remote Control

Power source: 12V alkaline battery x 1pc RF working transmission frequency: 433.92MHz +/-0.5MHz

House Code: 4 Jumpers

Wireless range to Smart Halo Panel: <65 meters (open area)

6.2.3 Door/Window Sensor

Power source: AAA alkaline battery 1.5V x 2pcs each

RF working transmission frequency: 433.92MHz +/-0.5MHz

House Code: 4 Jumpers
Zone Code: Pin header: 8 pin

Wireless range to Smart Halo Panel: ≥100 metres (open area)

6.2.4 Motion Sensor

Power source: CR123A battery x 1pc RF working transmission frequency: 433.92MHz +/-0.5MHz PIR detection angle: >100 Degree (@3VDC) PIR detection range: "H": \geq 13M "M": \geq 8M "L": \geq 5M

House Code: 4 Jumpers
Zone Code: Pin header: 8 pin
Wireless range to Smart Halo Panel: ≥100 metres
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 discolour 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 fit rechargeable batteries.
- At the end of their useful life the batteries should be disposed of via a suitable Recycling Centre. Do not dispose of with your normal household waste. DO NOT BURN.



SMART HAL

Wire-Free Home Alarm System with Phone Dialer



Smart Halo Home Alarm System guarantees peace of mind. Compatible with a wide range of sensors and accessories from **Red Shield**, the system can work under various conditions protecting your home anytime.

