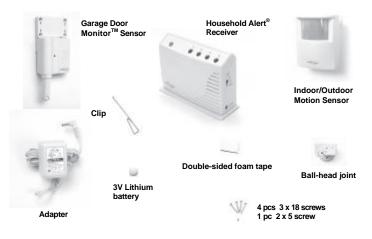# Household Alert®   Model HA-100

1. INTRODUCTION

The Household Alert® is designed to monitor your garage door and movement indoor or outdoor. The Garage Door Monitor sensor can be used to monitor the status of your garage door and advises you if the door is open. By placing the sensor on the door panel, you will be alerted when the door is open.

The Indoor / Outdoor Motion sensor can be used to detect visitors at the front door, detects activity on the driveway, monitors activity inside your house etc.

If these sensors are triggered, they will transmit wireless signal to the receiver which will beep and flash.

In this package, you should find a Garage Door Monitor™ Sensor, an Indoor/ Outdoor Motion Sensor, a Household Alert® Receiver, an adapter, 3V lithium battery, double-sided foam tape, ball-head joint and mounting accessories.
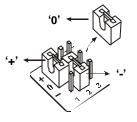

Garage Door Monitor™ Sensor

Household Alert® Receiver

Indoor/Outdoor Motion Sensor

Clip

Double-sided foam tape

Ball-head joint

Adapter

3V Lithium battery

4 pcs 3 x 18 screws
1 pc 2 x 5 screw

Please follow the instructions below to set up these sensors and receiver.
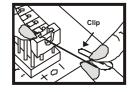
2. SET UP CODE CONNECTORS AND ZONE CONNECTORS

1. CODE CONNECTORS

In order for the sensor to communicate with the receiver properly, the sensor's code must match with the receiver's code.

For Garage Door Monitor™ Sensor, code connectors 1 to 6 can be found by opening the battery cover. Note: Before opening the battery cover, it is necessary to remove the transparent protective cover. Keep it for future use. User is required to set these code connectors randomly. Each position of the code connector can be set to "+", "-" or "0" positions. Refer to the diagrams to set the code connectors properly. If the connector is placed on the top and middle posts, that column is set on " + ". If the connector is placed on the middle and bottom posts, that column is set on " - ". If the connector is removed completely, (not placed on any posts), it is set to " 0 ". (see diagram for examples of how to set a column to the three different positions).

Note: A connector can be removed with the clip, as shown.

Remove transparent protective cover

Code Connectors on garage door sensor

For indoor/ outdoor® motion sensor, code connector 1 to 6 can be found by unscrewing and opening the battery cover (refer to the diagram below for the code connectors location.) The code settings on both sensors must be the same.

2. SET UP CODE CONNECTORS AND ZONE CONNECTORS (CONT)

For the receiver, code connectors 1 to 6 can be found opening the back cover. (refer to the diagram below for the code connectors location.) The code settings on both sensors and the receiver must be the same.

Ensure both motion sensor and receiver are set with the same code. The code connectors can be seen after removing the back cover. Refer to the diagram below for the code connection location.

Put the back cover back onto the receiver.

Code Connectors on motion sensor

Code Connectors on receiver

Note: If you experience interference from a nearby system, which could accidentally trigger your system, please change the code settings on the sensor and receiver. The code setting on the sensor and receiver should still match after changing the code setting.
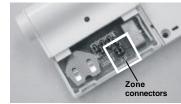
2. ZONE CONNECTORS

Each receiver can work with up to 4 different sensors (to represent 4 different zones on the receiver). There are 2 connectors that determine the zone number 1, 2, 3 or 4. These 2 connectors can be found by opening the battery cover. Please follow table 1 to set the zone.

Garage Door Monitor™ Sensor

Zone connectors

Indoor/Outdoor Motion Sensor

	A	B
Zone 1	+	+
Zone 2	+	-
Zone 3	-	+
Zone 4	-	-

Table 1

Zone connectors

"+" in the table means the connector for that position should be placed on the posts.
"-" in the table means the connector for that position should be removed.

Note: The factory default setting of the garage door sensor is zone 1. The motion sensor is set to zone 2 at the factory.

3. POWER UP THE GARAGE DOOR MONITOR™ SENSOR AND HOUSEHOLD ALERT® RECEIVER

After setting up all the connectors, both units are ready to be powered up.
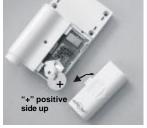
Plug in the adapter to the receiver, the green LED will start flashing indicating the receiver unit is powered up but no sensor is detected. Push the detection rod to it's fully retracted position. Remove the battery cover on the sensor and insert the 3V lithium battery to the sensor as shown in the diagram.

The LED on the sensor will flash 8 times to indicate the unit is properly powered and there is signal transmission to the receiver. The green LED on the receiver will stop flashing and stay on. Make sure to put the transparent protective cover back in place after setting up.

Plug in adapter to the receiver

"+" positive side up

Insert 3V battery to the sensor

3. POWER UP THE GARAGE DOOR MONITOR™ SENSOR AND HOUSEHOLD ALERT® RECEIVER (CONT)

If the green LED on the receiver does not stop flashing, ensure the code setting on the sensor is identical to the receiver. Position the sensor vertically to allow the detection rod to drop. One of the LED on the receiver will flash and the buzzer will also beep. Please put the battery cover and transparent protective cover back in place.

You can install the sensor onto the garage door.

Note: The receiver may not be able to receive the signal from the sensor properly if they are too close to each other. Move the sensor further from the receiver to test again.

Detection rod is fully retracted

Detection rod is fully extended

4. INSTALLATION OF GARAGE DOOR MONITOR™ SENSOR
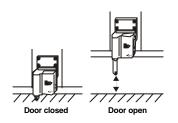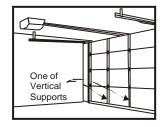
⚠ WARNING	Unplug the power cord of your garage door opener before installation to ensure power is not connected.

Step 1 – Select a spot on your garage door to mount the sensor

Before you install the sensor onto the garage door, make sure the garage door is closed. The sensor assembly should be mounted on one of the vertical supports of your garage door near the bottom.

When the door is closed, the detection rod should be retracted. When the door is open, the detection rod will be extended.

Door closed **Door open**

One of Vertical Supports

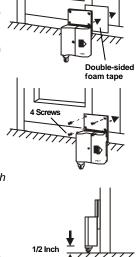Step 2 – Mount the sensor onto your garage door

You can mount the sensor onto your garage door with double-sided foam tape if the surface of your garage door is smooth and clean enough to provide a good adhesive surface, such surface can usually be found on a metal garage door. Please ensure the surface is **smooth and clean. Important: The bottom of the sensor should be 1/2 inch above** the ground. (Refer to Diagram A)

Double-sided foam tape

For wooden garage doors, it is recommended to mount the sensor with screws onto the garage door with 3 x 18 screws provided.

4 Screws

Note:
When the garage door is opening/closing, make sure the sensor does not interfere with the safety reversing sensor or safety beam sensor supplied with your existing garage door opener.

Note: Ensure you straighten up the antenna on the receiver to receive the best possible reception.

1/2 Inch

Diagram A

5. INSTALLATION OF INDOOR/OUTDOOR MOTION SENSOR

1. POWER UP

Insert a 9V alkaline battery (not included) to the motion sensor and its LED will be on for 2 seconds. The receiver will beep and red LED flash. The sensor requires a warm up time of approx. 45 seconds before it can function properly. After powering up the sensor, face it to the wall where no motion will be detected. After 45 seconds, the sensor is ready. Wave your hand in front of the sensor, the receiver will beep and red LED will flash for approx. 15 seconds.

Insert 9V alkaline battery to the motion sensor

2. SENSOR SENSITIVITY

The sensitivity of the motion sensor is adjustable. Change the setting by placing the connector on either the "High" 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" (Read below - "Walk Test"). If the walk test result is satisfied, the sensitivity does not require to be adjusted further. If the walk test result shows the sensitivity is too low, then you can change the sensitivity setting to "High". Please perform the walk test after changing the sensitivity setting.

Sensitivity Connectors on Motion Sensor

3. MOUNTING

A ball-head joint is necessary to mount the sensor at a desire location. A height of 5-6 ft is recommended, depending on your application. Once a location is selected, mount the ball-head joint to this location by screws provided, (see diagram 1). Once the ball-head joint is mounted to the wall, slide the back of the sensor into the ball-head joint (see diagram 2). The mounting angle can be adjusted. Read below - "Walk Test" to determine the best mounting angle.

Diagram 1 **Diagram 2**

4. 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 things you want to detect.
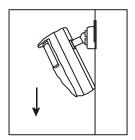
In order to control how far the sensor can "see", this can be done by adjusting the angle of the sensor. To reduce the detection range, simply move the sensor downward. To increase the range, move the sensor up to around 12 degrees. This will give the maximum range. However, this may not be desired if the sensor is placed outdoors, since a false trigger may occur if the sensor is set to detect motion in a distance.
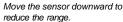
You should walk in the area that you would like the sensor to monitor. The receiver will beep if the sensor detects your movement. If the receiver does not respond, adjust the mounting angle accordingly. Perform the walk test again after 30 seconds. Repeat this procedure until your motion is detected. There should be no movement in the detected area during the 30 seconds.
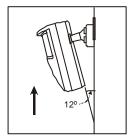
Perform walk test in the undesired area to ensure movement cannot be detected.

Tips: The sensor should not face towards direct sunlight, placing near heat or cold producing devices (i.e. A/C or furnance vents, fans, ovens, heaters etc.) that may cause false triggers.

5. INSTALLATION OF INDOOR/OUTDOOR MOTION SENSOR (CONT)

Move the sensor downward to reduce the range.

Move the sensor up to around 12 º to give maximum range.

6. OPERATION

You may now test the operation of all units. Open the garage door and notice the LED flashing on the receiver. If the transmitter is programmed to zone 1, zone 1 red LED should flash and the buzzer will emit a single "beep"... continuously. After the door is closed, both the red LED and buzzer will be off, the green LED will be on.

Walk in front of the motion sensor, zone 2 (default setting) red LED should flash and the buzzer will emit a "beep beep", pause, "beep beep"... continuously for 15 seconds.

If both sensors are triggered at the same time, both red LED representing 2 zones will flash together, and the buzzer will sound for 2 zones, i.e. if zone 1 and zone 2 are activated, the buzzer will sound: "beep" pause, "beep beep", pause, "beep", pause, "beep beep" etc.

7. BUZZER VOLUME

You can select the buzzer volume by switching the volume switch to "HI" or "LO" position.

The buzzer can be disabled by switching to the "OFF" position.

8. MUTE

When a sensor is triggered for a long period of time, you may stop the buzzer by pressing the mute button. When another signal comes again, you can disable the buzzer for all currently activated sensors by pressing the mute button. The receive will beep again if it receives another signal.

For instance, if you are working on your lawn with the garage door open, you may want to disable the buzzer for this garage door only. Then you can press the "Mute" button after it starts to sound. If any other sensor is triggered, the receiver will sound again.

9. LOSS OF SIGNAL INDICATION

When the battery level on the sensor drops to a certain level, or the sensor is out of the operating range, the receiver will show a "loss of signal" indication. The red LED representing that zone will flash rapidly, i.e. if zone 1 sensor is lost, the zone 1 red LED will flash rapidly.

When the loss of signal indication occurs, move the receiver closer to the corresponding sensor and trigger that sensor. If the red LED stops flashing rapidly, that means the receiver or sensor needs to be relocated. If the "loss of signal" indication persists, replace the battery of that sensor.

10. OTHER HOUSEHOLD ALERT ® SENSORS

The Household Alert® receiver can work with up to 4 different sensors: garage door monitor sensors, door / window sensors, water sensors, indoor/outdoor motion sensors, etc. Please visit www.skylinkhome.com or contact us at support@skylinkhome.com for more information of how to fully utilize your Household Alert® System.

11. FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

WARNING:
Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment dose 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.

12. WARNING

To prevent possible SERIOUS INJURY or DEATH from a closing garage door:
- Activate door ONLY when it can be seen clearly, is properly adjusted, and there are no obstructions to door travel.
- ALWAYS keep garage door in sight until completely closed. NEVER permit anyone to cross path of closing garage door.

13. WARRANTY

If, within one year from date of purchase, this product should become defective (except battery), due to faulty workmanship or materials, it will be repaired or replaced, without charge. Proof of purchase and a Return Authorization are required.

14. CUSTOMER SERVICE

If you would like to order Skylink's products or have difficulty getting them to work, please :
1. visit our FAQ section at www.skylinkhome.com , or
2. email us at support@skylinkhome.com (reply within 24 hrs), or
3. call our toll free at 1-800-304-1187 from Monday to Friday, 9 am to 5 pm EST. Fax +800 286-1320