

# Keypad PIR Alarm

SW351-KCH



## Operating Instructions

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## Package Contents

- PIR Alarm Unit
- Mounting Hardware
- Mounting bracket

## IMPORTANT - Read Before Installing

- **Do not** expose any part of the alarm unit to any sudden shocks (such as being dropped or struck).
- **Do not** install the passive infrared (PIR) alarm unit near any device which emits heat or cold, such as air conditioners, refrigerators, ovens, heaters, microwaves or other electronic equipment which generates heat as a by-product of operation.
- **Do not** install any the PIR alarm unit in direct sunlight.
- **Use only alkaline batteries.**
- **All components are for indoor use only.** Do not install outdoors.
- **Replace the batteries in the unit every six months.**
- **Test the alarm periodically** (every 1 - 2 months and each time you change the batteries) to ensure it is working properly.
- Keep this operating instruction booklet in a safe place.
- **This alarm system is designed to be, and acts as, a theft deterrent. This system, like any other, cannot offer complete protection for your home or business - it is simply an alarm system.** Like all practical systems, it has limitations and it could be disabled by a skilled intruder. We suggest that you avoid relying solely on the Keypad PIR Alarm to protect your property, but use it as part of a comprehensive security solution. You can increase your level of protection through the use of high-quality locks, stronger doors, guards for your windows and a CCTV system and recording devices.

# Overview

Congratulations on your purchase on this passive infrared motion alarm unit from *Swann*! This stand-alone alarm unit will help you protect and safeguard almost any indoor location you want. It's easy to install and totally wireless.

Passive infrared technology is a popular in the security industry, and can detect a person in motion at more than a dozen feet away. They're great for monitoring small to mid-sized rooms, and don't suffer from the limitations that some other sensors do (such as only being able to monitor a single door or window).

We'd just like to stress that this device is a *deterrent*. Like all physical systems, it can be circumvented, fooled or disabled (doing so is difficult, but not impossible). Thus, we recommend that this alarm be used as part of a larger and more comprehensive security solution, possibly involving other alarm units, and perhaps a CCTV system.



## How it works:

The PIR sensor is a *passive* infrared motion sensor, meaning it detects infrared radiation rather than projecting it (unlike a security camera with infrared night vision, which is *active* infrared). All objects emit this "black-body" radiation (we commonly call it "heat") and the infrared sensor looks for any of this radiation which moves.

The passive sensor is not infallible – in particular, it cannot detect objects/people which are the same temperature as their background. So a human being moving about on an extremely hot day might go unnoticed. Also, a security camera with active infrared night vision in the same vicinity as the infrared sensor may give false alarms (particularly if it is a moving PTZ system).

# Mounting the PIR Alarm Unit

## Mounting

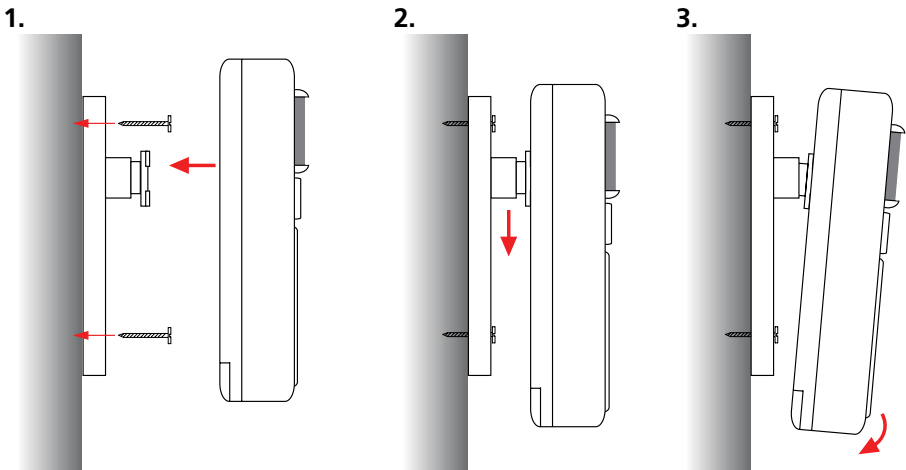
To mount the PIR alarm unit, you'll need the following tools:

- A screwdriver
- A drill (for hardwood or masonry)

The alarm unit should be mounted between 5ft/1.8m and 7ft/2.6m high, and be angled a few degrees towards the ground (see the coverage diagram, below). Of course, your situation is unique, and you may need to alter the height and angle of the sensor to meet your particular needs (such as looking up a flight of stairs).

### To mount the alarm unit:

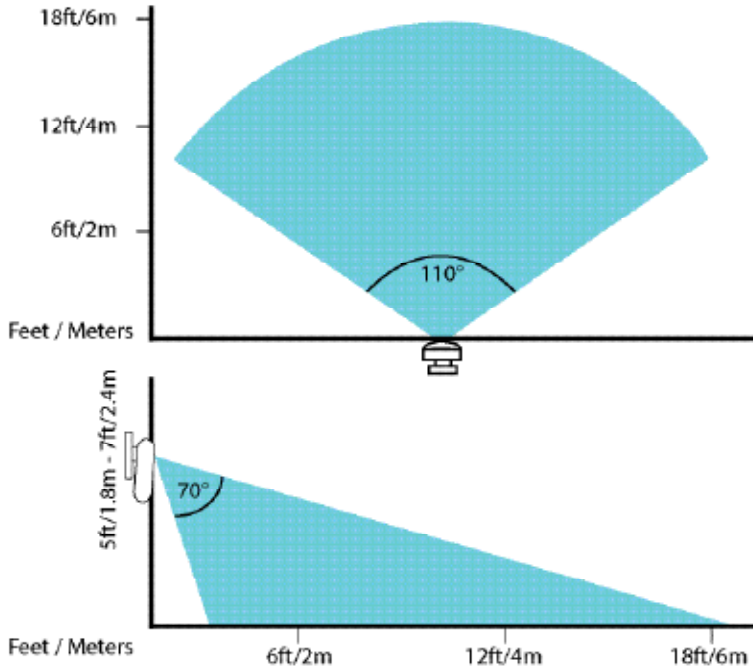
1. First, attach the mounting bracket to a wall or ceiling, using the supplied screws. If mounting on hardwood, you may need to drill guide holes. If mounting onto masonry (brick, concrete and so on) you'll need a drill with a masonry drill bit, and use the wall plugs included with the alarm unit.
2. Then, simply insert the locking tabs on the mounting bracket into the grooves on the back of the sensor. Move the alarm unit down to lock it into place.
3. Angle the PIR sensor aiming slightly downwards (see the Detection Area diagram on page 5 for more information).



# Detection Area

## Detection Area:

The PIR sensor has a range of approximately 110 degrees horizontally, and approximately 70 degrees vertically (see diagram).



You can test the functionality of the motion sensor as well as the detection area by setting up the sensor, setting it to **chime mode** and then moving about in the area you want to protect. It will chime each time it detects movement, allowing you to obtain a very accurate impression of the field of view.

### Important:

- Any obstructions in the environment will reduce the sensors effectiveness. It can't see through walls! Even a thin sheet of glass will significantly impair the range of the sensor, as glass blocks more infrared radiation than visible light.
- Small animals (such as a cat or similar) can, under some circumstances, trigger the PIR sensors. Therefore, we suggest that the PIR sensors are not suited to areas where pets are routinely kept.

# Operating the Alarm Unit

## Alarm / Chime Mode

The switch to select the mode the sensor operates in can be found in the battery compartment. You can access it by removing the sensor from its mounted position, and opening the battery compartment.

**Alarm Mode:** When the sensor detects movement whilst the unit is in alarm mode, it will not activate immediately. There is a thirty second delay, to allow you (or other persons who know the passcode) to disarm the sensor before it goes off. If the correct passcode isn't entered in this thirty second delay, then the alarm will sound at full volume. The alarm can still be disarmed whilst the alarm is sounding by entering the correct disarm code.

**Chime Mode:** When the sensor detects movement when in chime mode, it will sound a chime instantly. There is no arming required, nor is there an entry or exit delay. After the chime sounds, there is a short (a few seconds) delay before it can be sounded again to prevent it sounding constantly if, for example, someone were to be standing in the detection range.

## Arming and Disarming the System

To arm the system whilst it is in Alarm Mode, simply type your passcode.

Whilst in Chime Mode, the system is always armed and does not require any further configuration.

## Entry and Exit Delays

Once you've entered the code to arm the alarm unit, it will enter the arming delay. This period consists of forty-five seconds, during which time the LED on the front face of the alarm unit will flash. After the arming delay has elapsed, the LED will stop flashing and the alarm unit will beep once, indicating that it is armed.

Should the alarm be tripped (that is, it detects something) it will not sound instantly. Rather, there is a further thirty second delay, to give you time to disarm the system before the siren sounds. If the wrong code is entered, the alarm unit will emit a higher pitched beep.

Entering the wrong code has no effect on the unit - it will remain in the state it was in previously, the alarm still sounding when the delay elapses.

# Maintenance and Technical Specifications

## Passcode

Your passcode must be four digits long, and should be something that you will remember. Try to avoid obvious combinations (such as 1234 or similar).

### To set your passcode:

- If you've already mounted the alarm unit, remove it from its mounting bracket.
- Open the battery compartment on the rear of the alarm.
- Locate the button labeled LEARN.
- Press this button.
- Then, enter your four digit passcode. When entering the passcode, press buttons slowly and deliberately, waiting for the alarm unit to beep quickly to confirm each button press.
- A louder, longer beep will confirm that a new passcode has been set.

## Low Battery Indicator

When the batteries in the alarm unit are running out, the LED on the front of the alarm unit will flash slowly (more slowly than during the arming delay). If the LED starts flashing in this way, change the batteries immediately.

## Replacing Batteries

The batteries in the alarm system should be replaced every six months. If you're using the sensor in chime mode and get a lot of visitors, you may need to change them more often.

- Remove the sensor from its mounting bracket.
- On the rear side of the sensor, locate the battery compartment.

## Technical Specifications: PIR Motion Sensor

Power Requirements	3 x Alkaline AAA Batteries (4.5V DC)
Modes	2 (Alarm and Chime)
PIR Detection Range	> 7m (Typical – varies by environment)

### Alarm Mode

Passcode Protected	Yes (4-digit numerical code)
Passcode Learning Duration	15s
Siren Volume	> 110dB
Siren Duration	30s
Entry Delay	30s
Exit Delay	45s
Re-Trigger Delay	3s

### Chime Mode

Chime Volume	> 90dB
Chime Duration	Approx. 2s
Re-Trigger Delay	3s

# Helpdesk / Technical Support Details

## Swann Technical Support

All Countries E-mail: [tech@swannsecurity.com](mailto:tech@swannsecurity.com)  
Telephone Helpdesk

**USA** toll free

1-800-627-2799

(Su, 2pm-10pm US PT)

(M-Th, 6am-10pm US PT)

(F 6am-2pm US PT)

**USA Exchange & Repairs**

1-800-627-2799 (Option 1)

(M-F, 9am-5pm US PT)

**AUSTRALIA** toll free

1300 138 324

(M 9am-5pm AUS ET)

(Tu-F 1am-5pm AUS ET)

(Sa 1am-9am AUS ET)

**NEW ZEALAND** toll free

0800 479 266

**UK**

0203 027 0979

See <http://www.worldtimeserver.com> for information on time zones and the current time in Melbourne, Australia compared to your local time.

## Warranty Information

Swann Communications USA Inc.  
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USA

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Port Melbourne Vic 3207

Swann Communications LTD.  
Stag Gates House  
63/64 The Avenue  
SO171XS  
United Kingdom

Swann Communications warrants this product against defects in workmanship and material for a period of one (1) year from it's original purchase date. You must present your receipt as proof of date of purchase for warranty validation. Any unit which proves defective during the stated period will be repaired without charge for parts or labour or replaced at the sole discretion of Swann. The end user is responsible for all freight charges incurred to send the product to Swann's repair centres. The end user is responsible for all shipping costs incurred when shipping from and to any country other than the country of origin.

The warranty does not cover any incidental, accidental or consequential damages arising from the use of or the inability to use this product. Any costs associated with the fitting or removal of this product by a tradesman or other person or any other costs associated with its use are the responsibility of the end user. This warranty applies to the original purchaser of the product only and is not transferable to any third party. Unauthorized end user or third party modifications to any component or evidence of misuse or abuse of the device will render all warranties void.

By law some countries do not allow limitations on certain exclusions in this warranty. Where applicable by local laws, regulations and legal rights will take precedence.



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