

Passive Infrared Motion Detector

(V-PIR2-345)

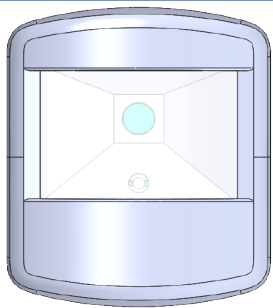
Quick Reference

The Vivint Passive Infrared Motion Detector (PIR2) is a wall-mounted wireless device that provides wide-angle motion detection as part of the overall Vivint security system. The PIR2 device can be mounted on a flat wall or in a corner.

When set to high sensitivity, the PIR2 has a maximum protection area of 40 feet (12.2 m) deep by 50 feet (15.2) wide. For best coverage, mount the PIR2 device so that the likely direction of intruder motion is *across* the protected area.

The PIR2 device is tamper-protected; it will transmit a signal to the control panel if the cover is taken off or if the device is removed from its mounting location. The PIR2 also provides false alarm protection by being pet immune for animals up to 80 pounds (36.3 kg). For more information, see the "Settings for Pet Immunity" section below.

This document includes installation, usage, and test instructions, as well as technical specifications and regulatory declarations.



Installation Instructions

(For more details about adding wireless sensors to the system, go to the Support page at: [Vivint.com](https://www.vivint.com), and the Knowledge In Motion site at: corp.vivint.com/sites/KIM/)

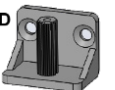
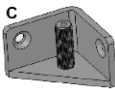
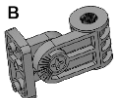
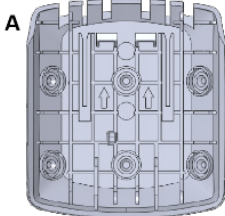
Mounting without a bracket (recommended):

1. Mount the PIR2 back plate (part A) 7.5 feet (2.3 m) above the floor with arrows pointing up. The PIR2 can be mounted on a flat wall or in a 90-degree corner. To mount on a flat wall, secure the PIR2 back plate to the wall using the two supplied long screws in the center two holes of the PIR2 back plate. To mount in a corner, secure the device by using the two provided screws on one side of the back plate.
2. Replace the front part of the device onto the back plate by sliding it down into place.

Mounting with a bracket:

NOTE: The PIR2 lens is designed to work best when mounted flat against the wall at 7.5 feet (2.3 m). If the mounting angle is changed, the protected area, pet immunity, and sensitivity can be greatly affected.

1. Use the supplied short screw to secure the PIR2 back plate (part A) to the angle adjuster (part B).
2. Mount the selected bracket — the corner mount (part C) or the flat wall mount (part D) — at a height of 7.5 feet (2.3 m) using the supplied long screws and anchors.
3. Place the assembly of parts A and B on the shaft of bracket C or D.
4. Screw the head screw with washer into the top of part B to hold the assembly to the shaft of C or D.
5. Attach the main body of the PIR2 to the mounted back by sliding it down onto the back plate.



INSTALLATION TIPS:

- Mount so that the likely direction of intruder motion is across the protected area.
- Use **High** sensitivity when it is anticipated an intruder may only cover a small portion of the protected area.
- **Low** sensitivity is recommended for settings with pets when intruders are expected to cover a larger portion of the protected area.
- Do not install where the detector is exposed to direct sunlight or above strong sources of heat.
- Ensure the detection area does not have obstructions (curtains, screens, large pieces of furniture, plants, etc.) that may block the coverage pattern.
- Avoid mounting locations that contain objects likely to produce a rapid change in temperature such as central heating, ducts, open flames, etc.
- Do not mount in the middle of the end of a hallway. It is better to mount in the corner of the hallway.
- If pet immunity is desired, mount where animals cannot come within six feet of the detectors by climbing on furniture or other objects. Also, do not aim the detector at a stairway or furniture or other objects that can be climbed by an animal.

Settings for Pet Immunity

Small Pet Immunity:

Used in environments where small animals may be present in the monitored area while the system is armed. Do not use this setting if any given animal weighs more than 40 pounds (18.1 kg). On this setting, the PIR2 coverage area is 50 feet (15.2 m) wide by 40 feet deep (12.2 m). (Note: Set the jumper to the small pet icon.)

Large Pet Immunity:

Used in environments where larger animals may be present while the system is armed. This setting is generally acceptable for animals up to 80 pounds (36.3 kg). On this setting, the PIR2 coverage area is 20 feet (6.1 m) wide by 20 feet (6.1 m) deep. (Note: Set the jumper to the large pet icon.)

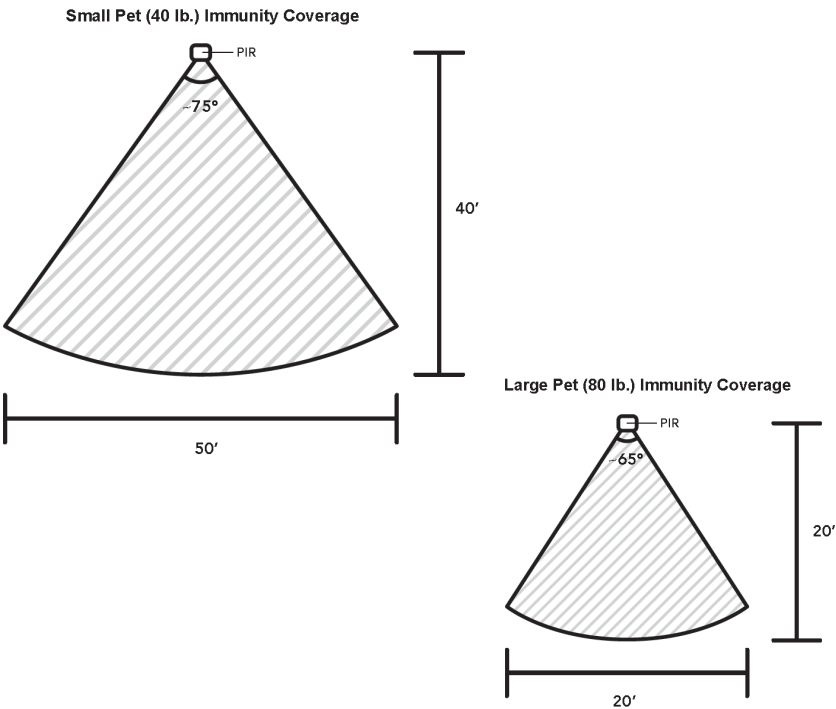
NOTE: Many factors can influence the pet immunity abilities of PIR motion detectors:

- Short-haired animals generally put off more heat causing the detector to alarm easier than it would with a longer-haired animal.
- If animals jump onto a piece of furniture or climb stairs it may cause the detector to believe the animal is larger than it really is.
- If multiple animals are close together the detector may see them as one, larger animal.

Sensitivity Settings:

High — recommended when a possible intruder is expected to cover only a small portion of the protected area. (Set the jumper to **HI**.)

Low — recommended when a possible intruder is expected to cover a larger portion of the protected area, and/or to help reduce false alarms when pets are present. (Set the jumper to **LO**.)



Installer Test

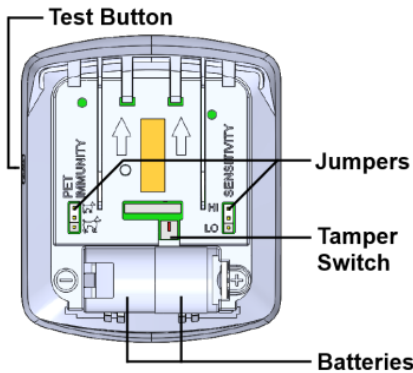
Hold the test button for 2 seconds to send test signals to the control panel.

User Test

- 1. Press and hold the test button on the side of the device. The red LED should turn on as soon as the button is pressed. After 2 seconds, the red LED will blink once to indicate the device has entered test mode.
- 2. The red LED will briefly turn on every few seconds that motion is detected. The PIR2 will also transmit to the panel while motion is detected. **NOTE:** Test mode lasts for 90 seconds, after which the device returns to normal operation.

Specifications

Wireless Signal Range	350 feet (106.7 m), open air
Batteries	2 X Panasonic CR123A or equivalent
Battery Life	3-5 years under normal usage
Transmitter Frequency	345 MHz
Code Outputs	Alarm, Alarm Restore, Supervisory, Low Battery, Tamper
Supervisory Interval	70 minutes per signal (12 hours for panel to report supervision failure)
Operating Temperature Limits	32° to 120°F (0° to 49°C)
Relative Humidity	5-95% Non-Condensing



Battery Installation

If the battery is low, a low battery notification will be indicated on the panel. Use only the recommended replacement batteries (see Specifications). To replace the batteries:

- 1. Slide the main body of the PIR2 up off the back plate (part A).
- 2. Pull battery ribbon to remove batteries.
- 3. Insert the replacement batteries while observing the correct polarity. Ensure the battery ribbon runs up underneath the batteries so they can easily be removed.

WARNING! The polarity of the battery must be observed (as shown in the image). Improper handling of lithium batteries may result in heat generation, explosion, or fire, which may lead to personal injury. Replace only with the same or equivalent battery type as recommended by the manufacturer.

AVERTISSEMENT! La polarité de la batterie doit être observée (comme indiqué dans l'image). Une mauvaise manipulation des piles au lithium peut conduire à la production de chaleur, une explosion ou un incendie, ce qui peut entraîner des blessures. Remplacez-le par le même type ou équivalent de la batterie tel que recommandé par le fabricant.

Batteries must not be recharged, disassembled or disposed of in fire. Disposal of used batteries must be made in accordance with the waste recovery and recycling regulations in your area. Keep away from small children. If batteries are swallowed, promptly see a doctor.

Wireless Product Notice

Wireless communications hardware provides reliable communication; however, there are some limitations which must be observed.

- The transmitters are required to comply with all applicable wireless rules and regulations. As such, they have limited transmitter power and limited range.
- Wireless signals may be blocked by radio signals that occur on or near the wireless operating frequencies.

FCC and Industry Canada Regulatory Declarations*

CAUTION! Unauthorized changes or modifications could void the user’s authority to operate the equipment.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules and Industry Canada license-exempt RSS standard(s). 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 of the device.

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 the 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/television technician for help.

PRUDENCE! Changements ou modifications pourraient annuler le droit de l'utilisateur à utiliser l'équipement non autorisées.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles dans une installation résidentielle. Cet équipement génère, utilise et peut émettre une énergie de radiofréquence et, s'il n'est pas installé et utilisé conformément aux instructions, il peut causer des interférences nuisibles aux communications radio. Cependant, il n'existe aucune garantie que des interférences ne se produiront pas dans une installation particulière. Si cet équipement provoque des interférences nuisibles à la réception radio ou télévision, ce qui peut être déterminé en mettant l'équipement hors et sous tension, l'utilisateur est encouragé à essayer de corriger l'interférence par une ou plusieurs des mesures suivantes:

- Réorienter ou déplacer l'antenne de réception.
- Augmentez la distance entre l'équipement et le récepteur.
- Connecter l'équipement à une sortie sur un circuit différent de celui sur lequel le récepteur est branché.
- Consulter le revendeur ou un technicien radio / télévision expérimenté pour de l'aide.

FCC ID: 2AAAS-MD01

IC ID: 10941A-MD01

*For more compliance and warranty information, visit: www.vivint.com