



Document Number: 47I00-2, Rev B
Installation Instructions

47A00-2

Description:

The 47A00-2 is a Wireless Quad Element PIR (Passive Infrared) Motion Detector that works with the HAI 45A00-1 Wireless Receiver. It has pet immune settings for both 33lbs. and 55lbs. The 47A00-2 also has a sensitivity setting making it a perfect detector for both security and occupancy detection applications.

Features:

- 33lbs. and 55lbs. Pet Immune Settings
- High White Light Immunity
- 30' x 50' Coverage
- Quad Element PIR
- Wall or Ceiling Mount Included
- Calibration Free Installation
- State-of-the-art Wireless PIR
- Powered by a 3 Volt Lithium Battery
- Battery Life up to 3 Years
- Low Battery Condition Signal Transmission
- Test Mode for PIR Coverage and RF Signal



Notes:

1. During normal operation, when the PIR trips (because it senses motion), it will not trip again for 3 minutes.
2. During normal operation, the LED will never illuminate. The LED only illuminates during test mode.
3. The test mode serves two purposes:
 - a) Walk Test: allows you to check the coverage of the PIR
 - b) RF Test: allows you to verify signal strength between the PIR and the wireless receiver
4. To enter the test mode, with the backplate installed on the PIR, place the supplied magnet over the arrow on the left side of the PIR for 2 seconds and then remove it. The PIR will remain in test mode for 1 minute. While in test mode, each time you walk in the coverage path of the PIR, the LED will flash to indicate that it senses motion and the PIR will send an RF transmission. **Note:** There is a 3 second delay between each trip while in test mode.
5. You cannot manually exit enroll or test mode. The PIR will exit enroll and test mode automatically after 1 minute. Do not attempt to enroll another wireless device until the PIR exits enroll mode.

Select Mounting Location:

Select the mounting location so that an intruder will cross the beams of the selected pattern. As the detector is a wireless transmitter, and in order to take full advantage of the sophisticated operation of the PIR, do not install the detector in areas where large metal objects could interfere with the transmission of signals. It is also advisable to avoid the following locations:

- Facing direct sunlight
- Facing areas that may change temperature rapidly
- Areas where there are air ducts or substantial airflows
- Installation on a metal wall

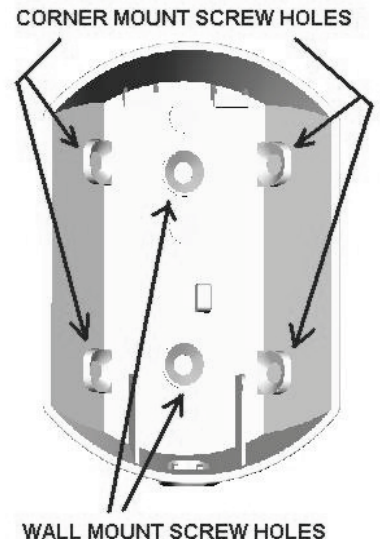
The 47A00-2 performs best in a constant and stable environment.

Mounting the Detector:

The 47A00-2 can be mounted in a corner like any standard PIR or can be easily mounted to a wall or ceiling by using the supplied bracket. To mount, remove the screw at the bottom of the PIR and remove the backplate.

Standard Corner and Wall Mounting

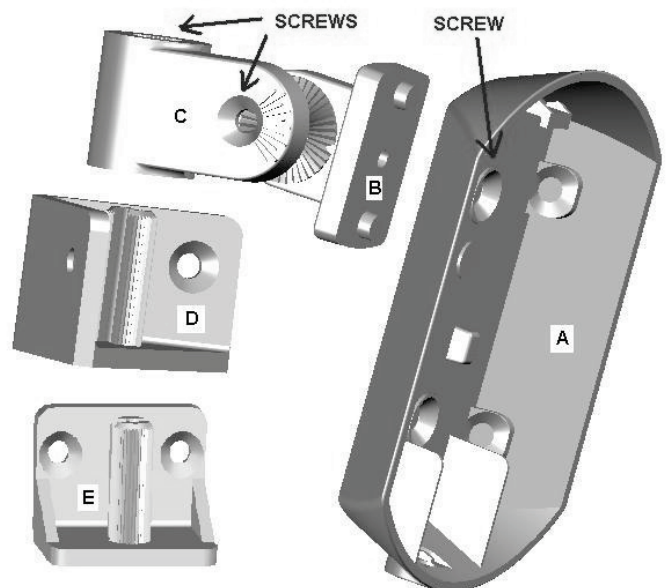
- 1) For corner mounting, use the supplied long screws with anchors and mount the PIR backplate using either the 2 upper corner mount screw holes or the 2 lower corner mount screw holes and mount the backplate at a height of 2.3 meters. Attach the PIR to the mounted backplate with the screw at the bottom of the PIR.
- 2) For mounting the PIR on a flat wall, use the supplied long screws with anchors and mount the PIR backplate using the 2 wall mount screw holes in the center of the back and mount the backplate at a height of 2.3 meters. Attach the PIR to the mounted backplate with the screw at the bottom of the PIR.

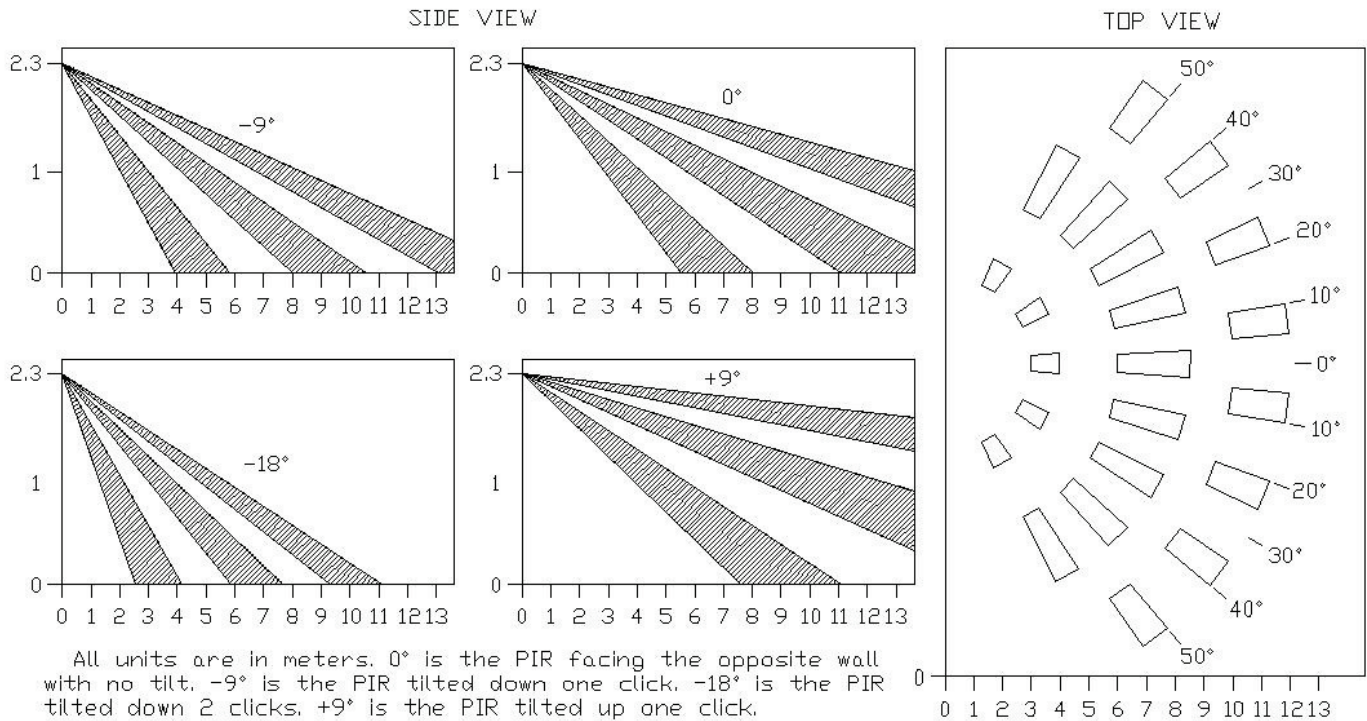


Bracket Mounting

The PIR can be mounted to a wall or ceiling using the supplied bracket.

- 1) Screw part **A** to part **B**, and then screw part **B** to part **C**.
- 2) Select either the corner mount (part **D**) or flat wall mount (part **E**).
- 3) Mount the selected bracket (**D** or **E**) at a height of 2.3 meters on the wall using the supplied long screws with anchors.
- 4) Place the assembly of parts **A**, **B**, and **C** on the shaft of the bracket.
- 5) Insert a screw from the top of part **C** to hold the assembly to the shaft of the bracket.
- 6) Attach the PIR to the mounted backplate with the screw at the bottom of the PIR.



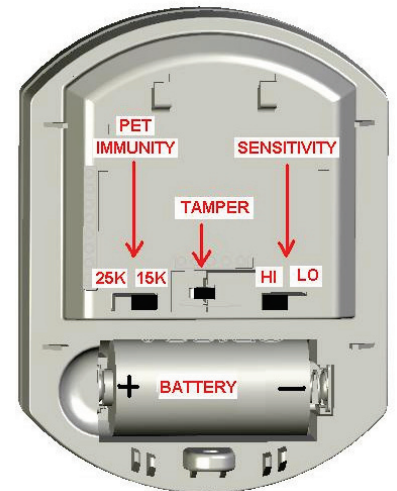


LENS PATTERN

Configuring the Detector:

- 1) Remove the screw from the bottom of the PIR and remove the PIR from the backplate.
- 2) Set the left jumper (**PET IMMUNITY**) to either **25K** (55lbs.) for larger pets or **15K** (33lbs.) for pets less than 30 lbs.
- 3) Set the right jumper (**SENSITIVITY**) to either **HI** or **LOW**. The sensitivity adjustment switch is used to set the detector for security (**LOW**) or occupancy (**HIGH**) detection applications.
- 4) Install the **CR123A** battery making sure to observe the correct polarity.

Note: after installing the battery and reinstalling the backplate, wait 10 seconds for the power up delay.



Enrolling the 47A00-2:

The 47A00-2 can be enrolled while installed in its mounting location. To enroll the 47A00-2, put the 45A00-1 Wireless Receiver in to Setup mode and advance to an unused address location. Place the supplied magnet over the arrow on the left side of the PIR for 2 seconds and then remove it. The 47A00-2 will then send a series of transmissions to enroll the transmitter.

The PIR will exit enroll mode automatically after 1 minute. Do not attempt to enroll another wireless device until the PIR exits enroll mode.

Refer to the Installation Instructions for the 45A00-1 for additional information.

Operation:

The 47A00-2 transmits the following event data:

Supervision: A periodic transmission at least once every 60 minutes to indicate detector is operational.

Alarm: Alarm transmission triggered by PIR motion detection.

Battery Low: Whenever the battery reaches a preset low level, a “Battery Low” signal will be sent with the next message (i.e. Supervision, Alarm, etc.).

Tamper: Whenever the 47A00-2 is removed from the backplate, a “Tamper” signal will be transmitted.

Battery:

A 3V Lithium Battery powers the unit. The battery provides 3 years of continuous operation under normal operation. If the battery reaches a factory preset low level, the “Battery Low” signal will be transmitted.

CAUTION:

THERE IS A RISK OF EXPLOSION IF THE BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF THE USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Federal Communications Commission (FCC) Statement:

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Technical Specifications:

Data Protocol:	HAI
Operating Frequency:	433.92 MHz
Event Transmission:	Alarm, Tamper, Test, Supervision, and Battery Low
Install Test Modes:	LED Indicator (RF & Optic) Walk Test / RF Test
Detection Method:	Quad Element
Maximum Horizontal Angle:	110°
Maximum Detection Range:	50’
Battery:	3V Type: CR123A 3V, Panasonic lithium battery only
Typical Battery Life:	3 Years
Operating Temperature:	32°F to 120°F (0°C to 49°C)
Dimensions:	3.2”L x 2.5”W x 1.9”H
Weight:	3.5 oz. (with battery and bracket)

Home Automation, Inc.

4330 Michoud Blvd. | New Orleans, LA 70129 | 800-229-7256 | 504-736-9810 | www.homeauto.com

