



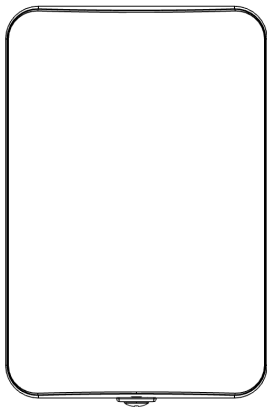
2GIG-PIR100-345

Passive Infrared Motion Detector with Enhanced Security

General Information

The 2GIG Passive Infrared Motion Detector (2GIG-PIR100-345) is a wall mounted unit with wide-angle motion protection and enhanced wireless range with encrypted communications to the control panel using the 345Mhz frequency. The PIR has a maximum range of 30 ft deep x 50 ft wide (9.1 m x 15.2 m). The Pet-immune feature can be set to tolerate animals up to 85 lbs (38 kg).

Figure 1 Passive Infrared Motion Detector



Box Contents

Verify that the package includes the following (see *Figure 3 PIR and Mounting Bracket Detail* on page 2, *Figure 3*):

- (1) Passive Infrared Motion Detector (Part A)
- (1) Plastic Mounting Bracket (Part B)
- (1) Plastic Wall Mount (Part C)
- (1) Plastic Corner Mount (Part D)
- (2) Plastic Wall Anchors With Screws (not pictured)
- (1) Short Phillips Head Screw with Fender (not pictured)
- (1) Short Phillips Head Screw (not pictured)
- (1) Lithium CR123A Battery (not pictured)

Battery Installation and Replacement

To insert or replace the battery:

- 1 Remove the front cover using a bottom-to-top lifting motion.
- 2 Insert the battery. Please make sure to follow correct polarity for proper functioning (positive side to the right).
- 3 Replace the PIR cover.

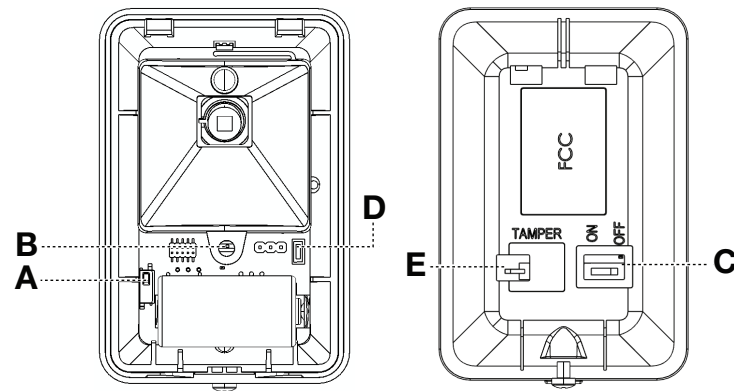
WARNING: Failure to follow these warnings and instructions can lead to heat generation, rupture, leakage, explosion, fire, or other injury, or damage. Do not insert the battery into the compartment in the wrong direction. Always replace the battery with the same or equivalent type (see **Specifications** on page 4). Never recharge or disassemble the battery. Never place the battery in fire or water. Always keep batteries away from small children. If batteries are swallowed, promptly see a doctor.

- Always dispose and/or recycle used batteries in accordance with the hazardous waste recovery and recycling regulations for your location. Your city, state, or country may also require you to comply with additional handling, recycling, and disposal requirements.

Configuring the PIR Features

Configure the features as follows:

Figure 2 PIR Pet Immune and Sensitivity Features



- A Tamper Switch:** Sends a Tamper message when the sensor's housing is opened.
- B Encrypted/Non-encrypted Mode Switch:** **ON** setting indicates *Encrypted*, and **1** setting is *Non-encrypted* mode.
- C Pet:** This is the pet-immune tolerance setting. Setting it to **ON** enables pet immunity up to 85 lbs. **OFF** position (default) disables pet immunity.
- D Test Button:** Initiates local Test mode.
- E Backplate Tamper**

Setting the Pet Immune Feature

To set the pet immune feature:

NOTE: Do not aim the PIR at stairs, furniture, or other surfaces that a pet may climb on. The PIR provides immunity when the room temperature is above 50° F (10° C) and below 90° F (32° C). When mounting the PIR with the plastic mounting bracket, for best protection ensure the PIR is mounted to the wall or corner with NO tilt (see *Lens Pattern and Tilt Angles* on page 3).

- 1 Remove the sensor from mounting plate, locate the right switch on the bottom right (see Figure 2, C). The default position is OFF. See *Figure 2 PIR Pet Immune and Sensitivity Features*.
- 2 Gently move the switch to ON position to enable pet-immune setting.

Encryption Mode Switch

The sensor is capable of transmitting signals in *Encrypted mode* or *Non-encrypted mode*. The mode is set through a switch inside the sensor (See Figure 2).

By default, the factory setting is non-Encrypted mode. To change to Encryption mode, do the following:

- 1 With the front cover off, remove battery from the slot
- 2 Locate the dip switch directly above battery compartment (see A in Figure 2), and note the switch setting: **ON** indicates *encrypted*, and **1** is *non-encrypted* mode. Move the switch position to **ON** for encrypted mode.
- 3 Insert the battery back, and close the housing.
- 4 If the sensor was learned in to a panel in a different mode previously, update sensor class field, and if applicable, sensor equipment code in sensor zone programing.

Programming

The following steps describe general guidelines for programming (Learning) the sensor into the alarm control panel memory. For details, refer to the **2GIG Panel Installation & Programming Instructions**.

- 1 Put the panel in sensor Learn mode.
- 2 Install batteries in the sensor. After the sensor is powered on, tamper the sensor to complete learn-in process.

IMPORTANT: The following can cause a false alarm when testing:

- Leaving the cover off
- Positioning the PIR in direct sunlight or close proximity to a heating or an air conditioning duct.

Local Testing

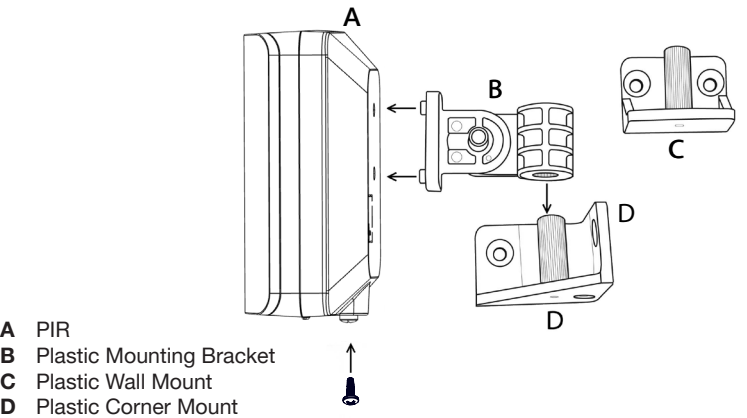
This test ensures that the PIR sees motion in the desired areas. Please note that PIR does not transmit motion trigger events to the panel while in test mode.

- 1 Press the **Test** (Figure 2, D) 5 times in 3 seconds to enter local test mode. The LED will blink twice to acknowledge being in test mode.
- 2 Place the PIR in the preferred mounting location.
- 3 Move something to the area that is to be covered by the PIR, and make sure that the LED on the PIR flashes every time you move. There is a 3 second delay between sensor looking for motion and lighting the LED. The test mode continues for 10 minutes, so you have time to check the PIR beam coverage.
- 4 If you're using the included mounting bracket, adjust the PIR left or right, down 1 or 2 clicks, or up 1 click, to see movement in the desired area(s). Each click represents 9° tilt.
- 5 The PIR will automatically return to normal operation after 10 minutes.

Mounting Guidelines

Before mounting the detector, ensure that the PIR mounting location provides good RF communication to the panel. There are two methods for mounting the PIR: Option A: Bracket Mounting or Option B: Direct-to-Wall Mounting. For both methods, always mount the PIR at a height of 7.5 ft (2.3 m).

Figure 3 PIR and Mounting Bracket Detail



Option A: Bracket Mounting

See *Figure 3 PIR and Mounting Bracket Detail*. If you plan to mount the PIR to either the Plastic Wall Mount or Plastic Corner Mount, you must first attach the Plastic Mounting Bracket to the PIR backplate.

Step 1: Attaching the Plastic Mounting Bracket to the PIR

- 1 Remove the PIR backplate.
- 2 Insert the two stubs on the Plastic Mounting Bracket into the corresponding holes on the exterior side of the PIR backplate.
- 3 On the interior of the PIR backplate (see *Figure 4 PIR Backplate—Direct-to-Wall Mounting Guides*), use the Short Phillips Head Screw (provided) to secure the Plastic Mounting Bracket to the backplate.
- 4 Replace the PIR backplate.
- 5 Reattach the screw that was removed earlier to the bottom of the PIR.

- 6 Continue with either *Step 2a: Wall Mounting Option* or *Step 2b: Corner Mounting Option*.

NOTE: For optimum pet immunity when using the Plastic Mounting Bracket, ensure that the PIR is mounted to the wall or corner with NO tilt (see *Lens Pattern and Tilt Angles* on page 3).

Step 2a: Wall Mounting Option

See *Figure 3 PIR and Mounting Bracket Detail*. If using the Plastic Wall Mount (C), do the following:

NOTE: Ensure that you have attached the bracket to the PIR backplate (see *Step 1: Attaching the Plastic Mounting Bracket to the PIR*).

- 1 On the intended wall, use the two (2) Plastic Wall Anchors to hang the Plastic Wall Mount at a height of 7.5 ft. (2.3 m).
- 2 Locate the barrel end of the Plastic Mounting Bracket. Locate the barrel end of the Plastic Mounting Bracket and carefully set it onto the ribbed pin of the Plastic Wall Mount at the desired angle (see *Lens Pattern and Tilt Angles* on page 3).
- 3 From the topside of the Plastic Wall Mount, use the Short Phillips Head Screw with Fender (provided) to secure the mount to the barrel end of the bracket.

Step 2b: Corner Mounting Option

See *Figure 3 PIR and Mounting Bracket Detail*. If using Plastic Corner Mount, do the following:

NOTE: Ensure that you have attached the bracket to the PIR backplate (see *Step 1: Attaching the Plastic Mounting Bracket to the PIR* on page 2).

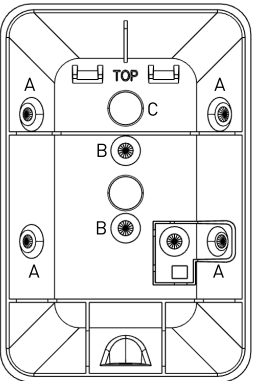
- 1 Use the two (2) Plastic Wall Anchors to hang the Plastic Corner Mount at a height of 7.5 ft (2.3 m).
- 2 Locate the barrel end of the Plastic Mounting Bracket and carefully set it onto the ribbed pin of the Plastic Wall Mount. Ensure that you set it at the desired angle (see *Lens Pattern and Tilt Angles* on page 3).
- 3 From the topside of the Plastic Wall Mount, use the Short Phillips Head Screw with Fender (provided) to secure the mount to the barrel end of the bracket.

Option B: Direct-to-Wall Mounting

If planning to mount the PIR directly to a wall, use the built-in mounting guides on interior of the PIR backplate to screw the backplate into the wall.

- 1 Remove the PIR backplate.
- 2 Use the two (2) Plastic Wall Anchors to screw the PIR backplate into the wall at a height of 7.5 (2.3 m):
 - Use the wall mounting guides (see B below).
 - Corner Mount. Use the left- or right- corner mounting guides (see A below).

Figure 4 PIR Backplate—Direct-to-Wall Mounting Guides



- A** Corner Mounting Guides (For *Option B: Direct-to-Wall Mounting*)
B Wall Mounting Guides (For *Option B: Direct-to-Wall Mounting*)
C Wall Mount Bracket Guide (For *Option A: Bracket Mounting*)

While the PIR is a highly reliable intrusion detection device, it does not guarantee against burglary. Any intrusion device is subject to a “failure to warn” for a variety of reasons. Consider the following when installing and setting up the PIR:

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Code Outputs	Alarm, Alarm Restore, Tamper, Tamper Restore, Supervisory, Low Battery
Transmitter Frequency	345MHz
Supervisory Interval	70 minutes
Sensor Type	Quad element
Pet Immunity Selectable	Dip Switch, up to 85 lbs (38 kg)
Suggested Mounting Height	7.5 ft (2.3 m)
Sensor Range	30 ft (9.1 m) x 50 ft (15.2 m)
Max. Horizontal Sensing Angle	100°
Dimensions (L x W x H)	3.53" x 2.35" x 1.63" (5.4 x 6 x 4.1 cm)
Weight (including battery)	98g
Housing Material	ABS Plastic
Color	White
Operating Temperature	32°-120 F° (0°-49° C)
Relative Humidity	5-90% Non-Condensing
Battery (included)	One (1) CR 123A 3V or equivalent Lithium battery
Certification	ETL, FCC and IC
Panel Programming Sensor Loop	Loop 1
Sensor Equipment Code (encrypted)	2869
Sensor Equipment Code (non-encrypted)	0869

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