

# Passive Infrared Motion Detector 2GIG-PIR1-345 2gig

## Operating Instructions

The 2GIG-PIR1-345 Passive Infrared Motion Detector is a wall-mounted unit with wide angle motion protection. The device has a range of 30 ft. depth x 50 ft. wide and is pet immune up to 55 lbs.

## Installation/Mounting & Programming Guidelines

To setup the motion detector:

1. Remove the screw from the bottom of the case and open the PIR (see *Figure 2*).
2. Install the recommended battery, making sure to observe the correct polarity.
3. Set the left jumper (PET IMMUNITY) to either 33 lbs. (15 kg; default) or 55 lbs (25 kg). (see *Figure 1*)
4. Set the right jumper (SENSITIVITY) to either HI (default) or LO (see *Figure 1*).
5. Press and release the tamper switch to begin the power up process.
6. Wait 10 seconds for the power up delay.
7. Enter the programming mode for a wireless device on the 2GIG alarm control panel.
8. Enroll the PIR by pressing and holding the tamper switch (see *Figure 1*) on the PIR for 2 seconds (while 2GIG alarm control panel is in learn mode).

To mount the motion detector, with or without the bracket, following the corresponding guidelines:

### With Bracket (see *Figure 2*)

1. Use short Phillip's head screws to screw part **A** in to part **B**.
2. Select either the corner mount (part **C**) or flat wall mount (part **D**).
3. Mount the selected bracket (**C** or **D**) at a height of 7.5 ft (2.3 m) on the wall using the supplied long screws with anchors.
4. Place the assembly of parts **A** and **B** on the shaft of bracket **C** or **D**.
5. Screw a Phillip's head screw with washer into the top of part **B** to hold the assembly to the shaft of bracket **C** or **D**.
6. Attach the main body of the PIR to the mounted back with the screw at the bottom of the case.

### Without Bracket (see *Figure 3*)

1. For corner mounting use the supplied long screws with anchors and mount the PIR case back using either the right two corner mount screw holes (A) or the left two corner mount screw holes and mount the PIR back at a height of 7.5 ft (2.3 m). Attach the main body of the PIR to the mounted back 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 case back using the 2 wall mount screw holes in the center of the back and mount the back at a height of 7.5 ft (2.3 m). Attach the main body of the PIR to the mounted back with the screw at the bottom of the PIR.

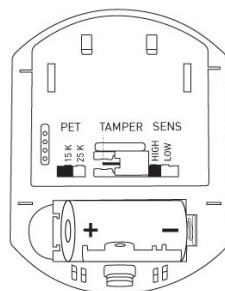
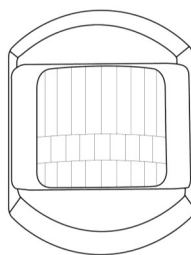


Figure 1

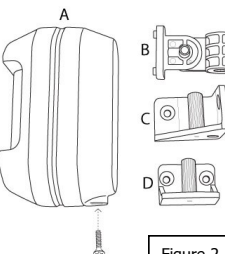


Figure 2

A. Corner mounting screw holes  
B. Flat wall mounting screw holes  
C. Bracket screw holes

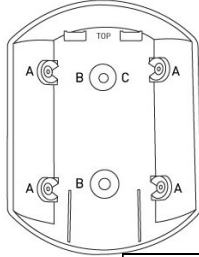


Figure 3

## Testing

Before placing the sensor in Walk or RF Test mode, make sure the 2GIG alarm control panel is in Install or User Walk Test mode.

### Walk/RF Test

1. Place the supplied magnet over the arrow on the left side of the PIR, (the LED will light to indicate the magnet has been detected) and then remove the magnet.
2. Move in the area that is to be covered by the PIR and make sure that the LED on the PIR flashes every time you move. This will continue for one minute to allow you to check the coverage of the PIR beam. **NOTE: There is a 3 second delay between flashes.**

**NOTE: The following can cause a false alarm while testing:**

- (1) Leaving the cover off;
- (2) Removing jumpers;
- (3) Positioning the PIR in direct sunlight or close proximity to a heating or A/C duct.

## Battery Installation & Replacement

Remove back cover by unscrewing bottom screw and pull back cover from bottom to top. Use only the recommended replacement batteries (see *Specifications*). Be sure to observe the polarity.

**WARNING! The polarity of the battery must be observed, as shown (see *Figure 1*). Improper handling of lithium batteries may result in heat generation, explosion or fire, which may lead to personal injuries. Replace only with the same or equivalent type of battery as recommended by the manufacturer. (see *Specifications*)**

**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.

**California Only:** This Perchlorate warning applies only to Manganese Dioxide Lithium cells sold or distributed ONLY in California, USA. Perchlorate Material-special handling may apply. See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate).

## Specifications

Wireless Signal Range	700 ft., open air, with 2GIG Wireless Alarm Control Panel
Code Outputs	Alarm; Alarm Restore; Tamper; Tamper Restore; Supervisory; Low Battery
Transmitter Frequency	345.000 MHz (crystal controlled)
Transmitter Frequency Tolerance	± 15 kHz
Transmitter Bandwidth	24 kHz
Modulation Type	Amplitude Shift Keying—On/Off Keying (ASK-OOK)
Unique ID Codes	Over one (1) million different code combinations
Supervisory Interval	70 minutes
Peak Field Strength	Typical 50,000 uV/m at 3m
Sensor Type	Quad element
Pet Immunity	Selectable: 15 kg (33 lbs.; default) or 25 kg (55 lbs.)
Sensitivity Jumper	Selectable: High (default) or Low
Suggested Mounting Height	7.5 ft. (2.3 m)
Sensor Range	30 ft. (9.1 m) x 50 ft. (15.2 m)
Maximum Horizontal Sensing Angle	110°
Dimensions (LxWxH)	3.2 x 2.5 x 1.9 in. (8.12 x 6.35 x 4.82 cm)
Weight (including battery & bracket)	3.7 oz. (104.9 g)
Housing Material	ABS plastic and poly-carbonate
Color	White
Operating Temperature	32° to 120°F (0° to 49°C)
Relative Humidity	5-95% Non-Condensing
Battery (included, not installed)	One (1) Panasonic CR123A, 3 VDC, 1550 mAh or equivalent Lithium cylindrical battery
Battery Life	5 years
Regulatory Listing(s)	ETL, FCC Part 15, Industry Canada
Warranty*	Two (2) years
Included Accessories	Mounting brackets, two (2) long Phillip's head screws, two (2) plastic wall anchors, magnet

## FCC COMPLIANCE STATEMENT\*

This device complies with FCC Rules and Regulations as Part 15 devices, as well as Industry Canada Rules and Regulations. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
  2. This device must accept any interference received, including interference that may cause undesired operation.
- Note: Changes or modifications to the device may void FCC compliance.

FCC ID: WDQ-PIR1345

Industry Canada ID: 7794A-PIR1345

\*For more warranty and compliance information, visit our website ([www.2gig.com](http://www.2gig.com)).

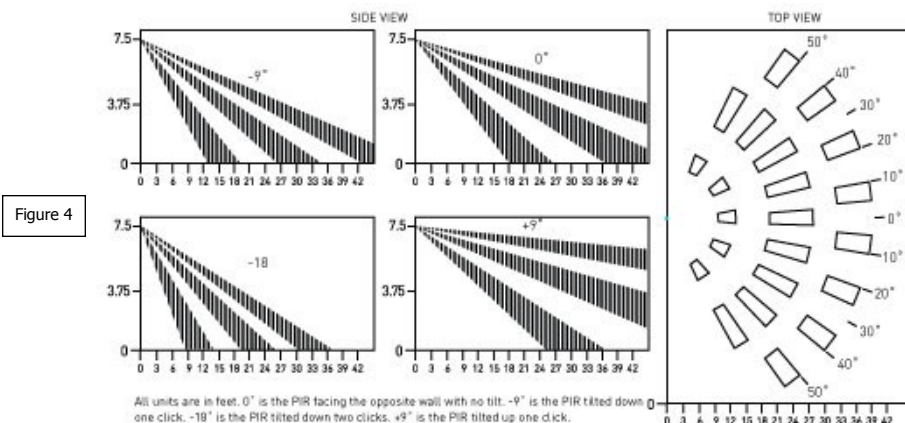


Figure 4

All units are in feet. 0° is the PIR facing the opposite wall with no tilt. -9° is the PIR tilted down one click. -18° is the PIR tilted down two clicks. +9° is the PIR tilted up one click.



Technical Support:  
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