Secure Wireless

PIR-REC3 : Secure Wireless Pet Immune PIR
Compatible with REC3 Receivers

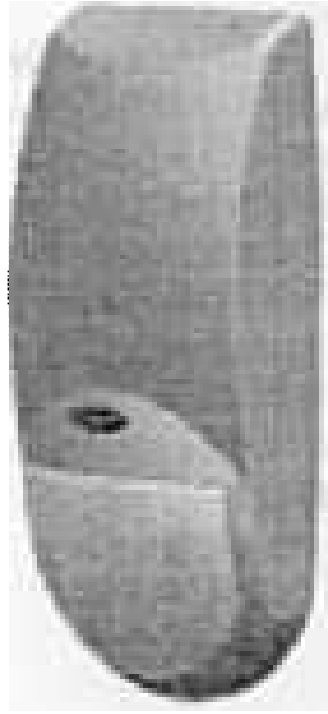
USER MANUAL

INTRODUCTION

The PIR-REC3 was designed to operate with the REC3 receiver and has a unique Alarm Power Saver (APS) mechanism which enables transmitter activation only 2 minutes after the last movement has been detected.

FEATURES

- 60 Lbs Pet Immune
- High White Light Immunity
- 50 x 50 Coverage
- Quad Element PIR
- Wall or Ceiling Mount Included
- Long Range Curtain (Optional)
- Ultra High White Light Immunity Lens (Optional)
- Calibration Free Installation
- State-of-the-art wireless PIR
- Low current ASIC PIR Technology
- Powered by a 3Volt Lithium battery
- Battery life : up to 4 years
- Built in Automatic Power Saver (APS)
- Low Battery condition signal transmission
- Test mode for PIR coverage and RF signal



OPERATION

The Wireless PIR transmits the following event data:

SUPERVISION - a periodical transmission.
Every 60 minutes indicates detector's presence.

ALARM - alarm transmission triggered by PIR intrusion detection.

LOW BAT - Whenever the battery reaches a pre-set low level (2.4V) Battery Low signal will be sent with the next message (Supervision, Alarm, etc.)

TAMPER - Whenever the PIR-REC3 cover is removed or the unit's cover is put back, a message will be transmitted with "Tamper" signal.

APS - The unique APS (Automatic Power Saver) function built in the detector enables a battery life span up to four years. The detector will transmit only when the last event has occurred more than 2 minutes prior to the current one.

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 from PIR sophisticated operation, 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 metal wall.

The PIR-REC3 performs better when provided with a constant and stable environment.

MOUNTING THE DETECTOR

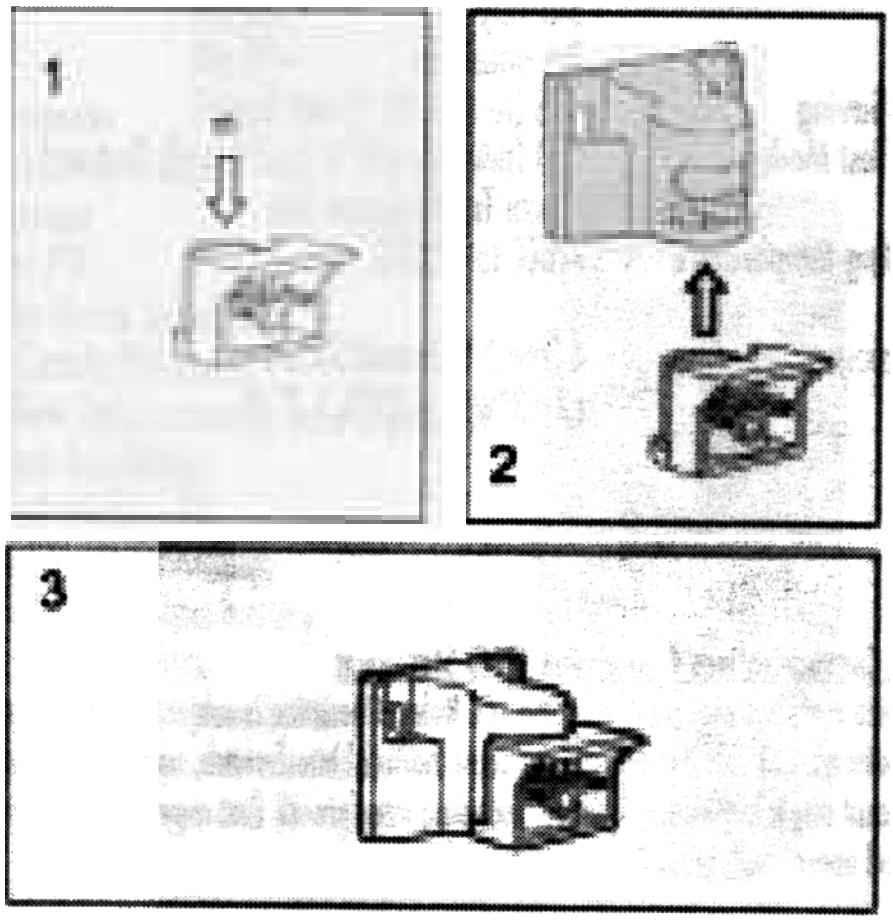
The Secure Wireless Pet Immune PIR can be mounted in a corner like standard PIR's or by installing the included hardware can be easily mounted to a wall or ceiling.

Standard Corner Mounting

1) Remove the screw at the bottom of the case and open the PIR.
2) Carefully mount using the screw guides for flat surface mounting or corner mounting. It is acceptable to bend the antenna slightly in order to mount the case to the wall or desired surface

Wall or Ceiling Mount

We have supplied hardware to attach the PIR as a wall or ceiling mount. See below diagram if desired mounting is needed.



MOUNTING THE DETECTOR continued

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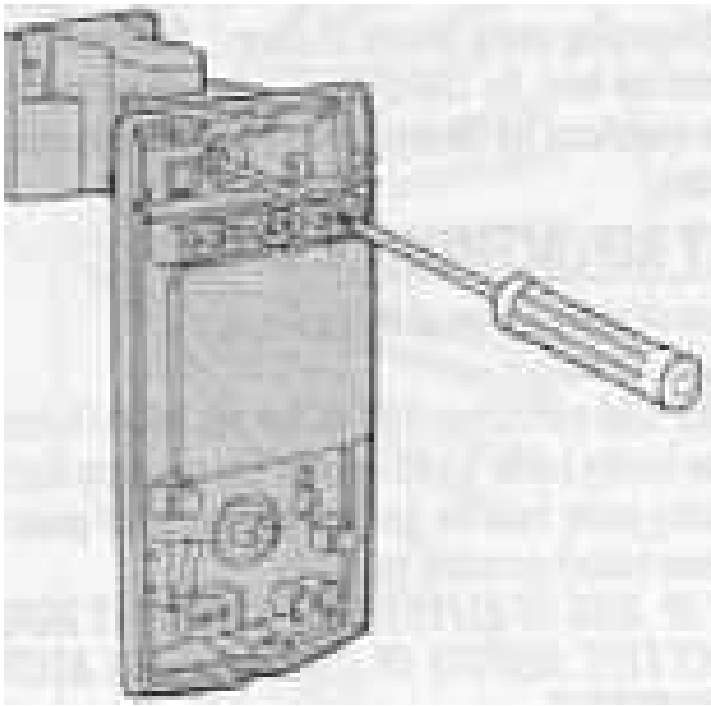


NOTE: We do not mount the back bracket in case a corner mount is desired. If we did mount the back bracket in production and a corner mount was desired the back bracket would need to be removed and 2 holes would then exist. There should never be a hole where insects can enter as they can cause false alarms.

SETTING UP THE DETECTOR

The sensitivity adjustment switch sets up the detector for normal or harsh environment condition.

Setting the Sensitivity Adjustment (Pulse Width) Jumper

- Position 1= Normal
- Position AUTO = Harsh

The "1" position setting is for normal operation.
The "AUTO" position setting is for harsh environment locations with air drafts or small animals.

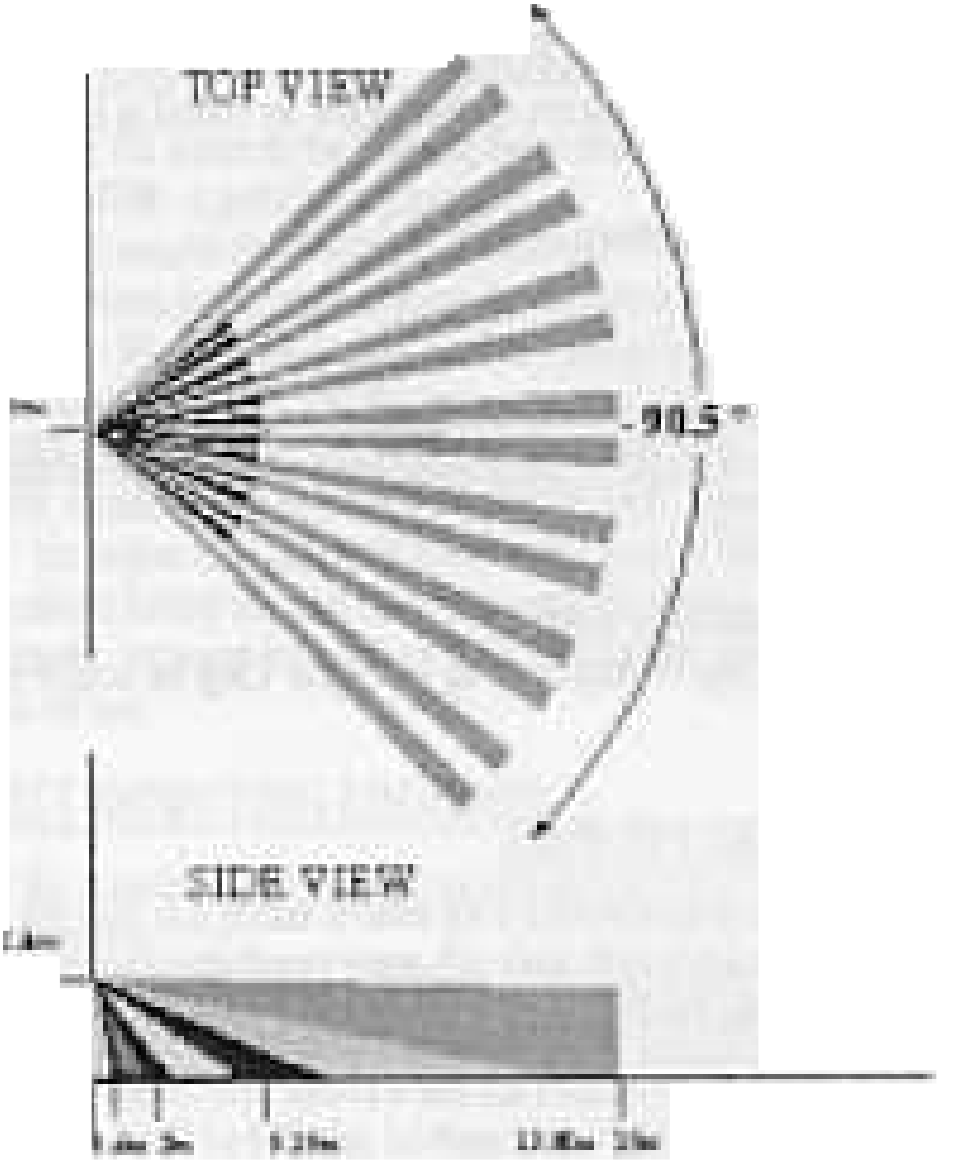
Setting the Pet Immunity Level
Slide the switch to 25Kgs for larger pets up to 60lbs or 15kgs for smaller pets under 30lbs

ENROLLING THE PIR-REC3

The enrolling process of the PIR-REC3 is the same as adding any other PIR. Although the REC3 will eventually work with every manufacturer lets assume you desire to make the PIR-REC3 work with an Ademco panel. The process is similar as enrolling a 5890PI.

1) Enter Ademco Programming
2) Go to the Zone you desire
3) When the keypad asks you to 'Learn Serial Number' Press and HOLD the program button located on the PIR board for 2 seconds. The PIR will then send a series of 'test transmissions.
4) Verify the loop is set to '2'.

If you teach the serial number by pressing the tamper switch, loop 4 will be displayed. You must then manually change the loop number to 2 from the keypad.



LENS PATTERN

BATTERY

A 3 V lithium battery powers the unit. Thanks to the exclusive APS (Automatic Power Saver) characteristics, the battery provides about 4 years of continuous operation (depending on the amount of alarms). If the battery reaches a factory preset low level, the LOW BATTERY signal will be sent and the detector will remain operational for 30 days giving enough time to replace the 3V lithium battery.

BATTERY REPLACEMENT

- Remove screw at the bottom of the case to open.
- Take out the old battery.
- Using a flat head screwdriver short the two pins located behind the positive side of the battery holder for 10 seconds. This monetary short will discharge all remaining power from the circuits allowing a 'fresh' power up.
- Install a new battery according to polarity.

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

TECHNICAL SPECIFICATIONS

Data Protocol	Secure Wireless
Modulation Type	ASK
Event Transmission	Alarm, Tamper, Test, Supervision, Low Bat
Supervision Timing	60 minutes
Detection Method	Quad Element
Detection Speed	0.3 ~ 1.5 m/sec
Lens Type	Spherical Hard Lens
Detection Coverage	90.5 (50 x 50)
Environment Condition	Jumper for Normal or Harsh selection
Battery	Lithium. 3V Type: CR123A
Current Consumption	
	Standby ~10 mA
	Transmission ~16 mA
Power Saving	APS (Automatic Power Saver)
Install Test Modes	LED Indicator (RF & Optic) Walk Test and Alarm Transmission Test
Operating temperature Range	-10(C to +50(C
Dimensions	61mmX120mmX50mm (2.43"w X 4.25"h X 2"d)

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

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.