

1121-WINT PIR Motion Detector

Description

The 1121-WINT PIR (Passive Infrared) Motion Detector is a wireless, low current sensor that can be used in a variety of motion detector applications. With a built-in tamper switch and switch-selectable high/low sensitivity and pet immunity, the 1121-WINT is very flexible. For added convenience, the 1121-WINT is designed to mount directly on the wall or with the optional corner/ceiling mounting bracket.

Features

- Low current technology
- Low battery reporting capability
- Two Minute Walk test for testing coverage
- Calibration free height installation from 4.9 to 8.2 feet (1.5 to 2.5 meters) high
- Pet immunity selectable from 33 lbs. up to 60 lbs (15 kg up to 27.2 kg)
- Auto-Power Save (APS) mode
- Sensitivity adjustment

Compatibility

1100 Series International Wireless Receivers

What is Included

The 1121-WINT PIR Motion Detector includes the following:

- One 1121-WINT PIR detector with DMP wireless transmitter
- One CR123A battery
- Zone name and number label
- Serial number label
- One optional corner/ceiling mounting bracket with hardware

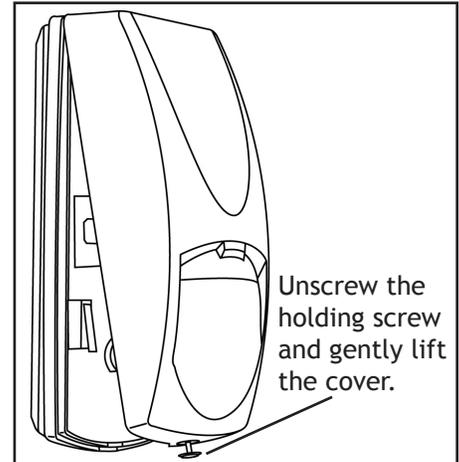


Figure 1: Remove the Cover

Installation

For your convenience, an additional pre-printed serial number label is included. Prior to installing the device, record the serial number or place the pre-printed serial number label on the panel programming sheet. This number is required during programming. As needed, use the zone name and number label to identify a specific transmitter.

Programming the PIR in the Panel

Program the device as a zone in **Zone Information** during panel programming. At the Serial Number: prompt, enter the eight-digit serial number. Continue to program the zone as directed in the panel programming guide.

Note: When a receiver is installed, powered up, or the panel is reset, the supervision time for transmitters is reset. If the receiver has been powered down for more than one hour, wireless transmitters may take up to an additional hour to send a supervision message unless tripped, tampered, or powered up. This operation extends battery life for transmitters. A missing message may display on the keypad until the transmitter sends a supervision message.

Selecting the Best Location (LED Survey Operation)

The PIR transmitter provides a survey capability to allow one person to confirm transmitter communication with the receiver while the cover is removed. Refer to Figure 1 to remove the PIR front cover. The PIR transmitter PCB Red Survey LED turns on whenever data is sent to the receiver then immediately turns off when the receiver acknowledgement is received. Pressing the PIR tamper switch is a convenient way to send data to the receiver to confirm operation. The PIR circuit board LED lights to indicate motion and the Survey LED briefly lights to confirm operation. See Figure 3 for LED locations. See Installing or Replacing Batteries.

When the transmitter does not receive an acknowledgement from the receiver, the transmitter Survey LED remains on for about 8 seconds to let you know communication is not established. Relocate the transmitter or receiver until the Survey LED immediately turns off indicating the transmitter and receiver are communicating properly. If the transmitter is not programmed into the panel, it does not operate properly.

Mounting Location Considerations

Mount the unit:

- On a rigid vibration-free surface
- So the expected intruder movement is across the detection pattern fields, see Figure 2

Do not locate the unit:

- Facing areas that may change temperature rapidly
- In any area containing excessive metallic surfaces
- Where it may be exposed to false alarm sources such as: direct sunlight, heat sources (heater, radiators, etc.) in the field of view or strong air drafts (fans, air conditioner, etc.)

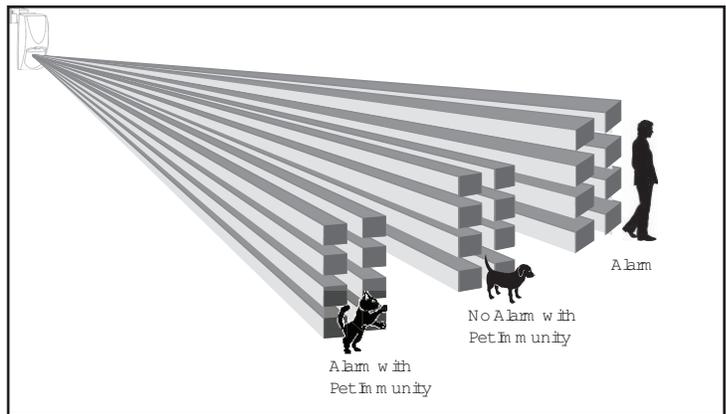


Figure 2: Detection Pattern

Setting the Sensitivity and Range Switches

Use the switches and dial located on the unit PCB to set sensitivity and pet immunity as shown in Figure 3. Use the following to determine the appropriate switch settings for an application.

Pulse Width Sensitivity Adjustment

Position 1 is for normal operating conditions and operation.

Position AUTO is used for harsh environment or locations with air drafts.

Pet Immunity Adjustment

Position 33 lbs (15 kg) is for locations with pets up to 33 lbs in weight.

Position 60 lbs (27.2 kg) is used for locations with pets between 33 lbs and up to 60 lbs in weight.

Auto Power Save (APS) Feature

In order to extend the battery life, the 1121-WINT is equipped with a two-minute sleep timer that is restarted on every motion detection. This means the unit will awaken after two minutes with no motion detected. This allows the 1121-WINT to be used for busy lobbies or areas that have lots of traffic during the disarmed period.

Testing

The test push button is located below the tamper switch. Use this button to activate the detector Walk Test and RF transmission test modes. Perform the steps following each test option to verify operation. Refer to Figure 3 to identify the test push button location. Before performing any of the tests, ensure the 1121-WINT PIR is currently programmed in the panel.

Walk Test

1. Lift the unit front cover.
2. Press the test push button for one second. The LED will flash three times indicating it is in Walk Test mode. This activates the device for two minutes in Walk Test mode. Replace the front cover. At the end of the Walk Test mode, the LED will flash six times.
3. Walk test the unit to verify the PIR coverage.

Note: This is for IR detection only and does not send an RF transmission.

Alarm Transmission Test

1. Lift the unit front cover.
2. Press the test push button for more than four seconds. The LED will flash three times and then stay lit for one second. This immediately activates the alarm RF transmission. Replace the front cover.
3. To check this function, verify that the keypad display indicates a signal received from the detector. The detector sends 11 transmissions to the control panel during the one minute test period.

Tamper Transmission Test

1. Lift the unit front cover to fault the tamper and initiate a tamper trouble message.
2. Verify that the keypad display indicates a tamper message. Replace the front cover.

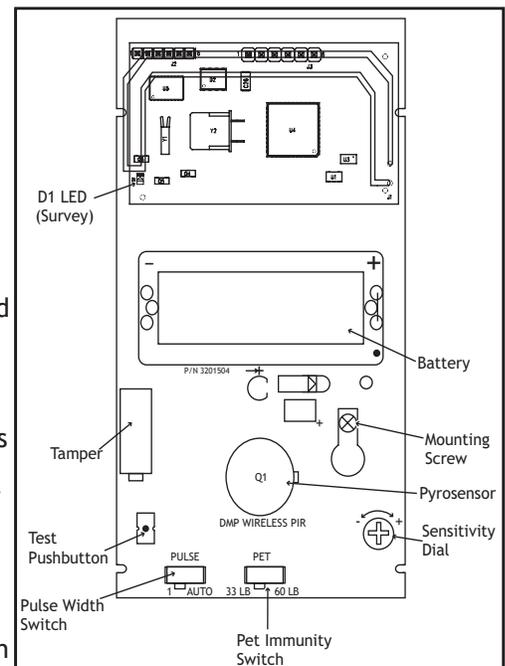


Figure 3: 1121-WINT PIR Circuit Layout

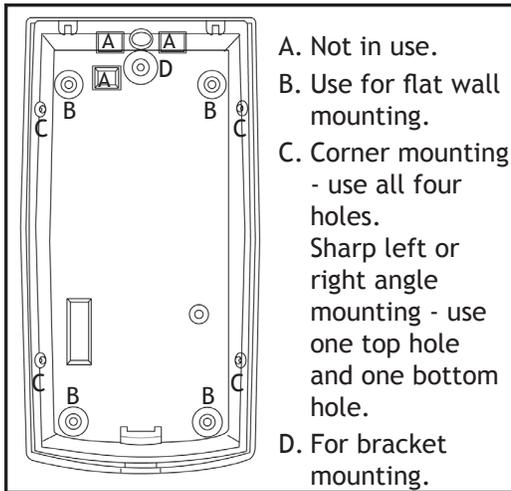


Figure 4: Knockout Hole Locations

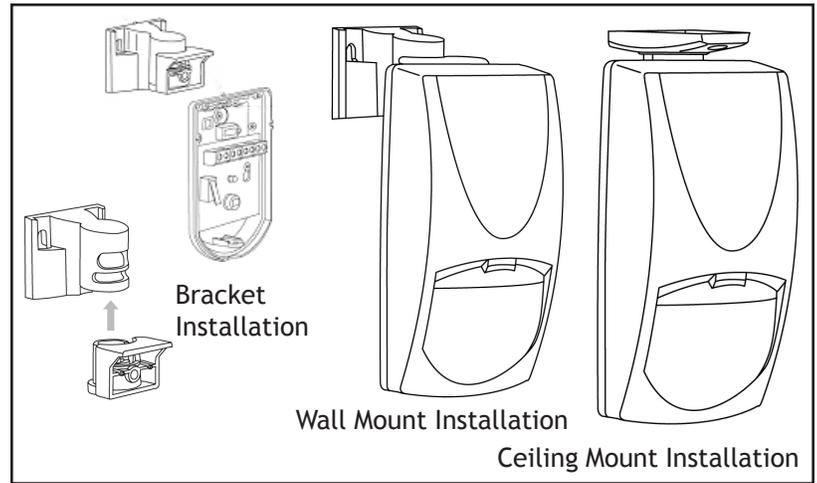


Figure 5: Optional Bracket Mounting

Mounting the Unit

Prior to permanently mounting the 1121-WINT PIR, check that the PIR to control panel communication is working. See the Unit Testing section.

1. Use a Phillips head screwdriver to unscrew the holding screw at the lower end of the 1121-WINT case, gently raise the front cover, and slide the cover out of the closing pins. Refer to Figure 1.
2. Use a Phillips head screwdriver to loosen the mounting screw located on the PIR printed circuit board (PCB) and slide the PCB out of the unit. See Figure 3 for the mounting screw location.
3. Select and open the appropriate knockout mounting holes on the mounting bracket for the best mounting location. See Figure 4.
4. Use screws and wall anchors, if necessary, to mount the detector base to the wall in a corner.
5. Reinstall the PCB back into the unit. Tighten the PCB mounting screw to secure it into place.
6. Install the battery. See Installing or Replacing Batteries later in this document.
7. Insert the cover back into the appropriate closing pins and tighten the holding screw back into place.

Optional Corner/Ceiling Mounting Bracket

The 1121-WINT PIR can optionally be attached to a corner/ceiling mounting bracket. The bracket can be mounted to the ceiling or a wall location. Refer to Mounting the Unit, Figure 1 and Figure 5 as needed.

1. Open the PIR and remove the battery and PCB.
2. Open the required bracket mounting knockout holes.
3. Reinstall the PCB and the battery.
4. Install the bracket on the wall or ceiling using the included screws.
5. Slide the assembled 1121-WINT PIR onto the mounting bracket.

Installing or Replacing Batteries

Note: If the battery reaches the factory preset low level, a Low Battery signal is sent to the panel. The 1121-WINT PIR remains operational for approximately 30 days to allow adequate time to replace the battery.

Observe polarity when installing the battery. Use only 3.0V lithium batteries, DMP Model CR123, or the equivalent battery from a local retail outlet.

Note: When setting up a wireless system, it is recommended to program zones and connect the receiver before installing batteries in the transmitters.

1. If necessary, remove from the wall mounting bracket. See Optional Corner/Ceiling Mounting Bracket or Mounting the Unit.
2. Remove the front cover. See Figure 1.
3. Remove the battery (if installed) before installing a new battery.



Caution: Risk of fire, explosion, and burns. Do not recharge, disassemble, heat above 212° F (100° C), or incinerate. Properly dispose of used batteries.

4. Observe polarity and insert the lithium battery into the battery holder where indicated in Figure 3.

Battery Life Expectancy

Typical battery life expectancy for DMP Model 1121-WINT wireless PIR is three years. DMP wireless equipment uses two-way communication to extend battery life.

The following situation can extend battery life expectancy:

- Extend transmitter supervision time in panel programming.
- Infrequent transmission trips, such as a low traffic area where messages are rarely sent.

The following situations can reduce battery life expectancy:

- If a receiver is unplugged, too far away, or not installed.
Note: Transmitters continue to send supervision messages until a receiver returns an acknowledgement. After an hour the transmitter only attempts a supervision message every 60 minutes.
- Frequent transmissions, such as constant motion where messages are sent every time the movement is detected.

Note: To compensate for frequent motion, the 1121-WINT PIR automatically rests until no motion is detected for two minutes. After two minutes of no activity, the 1121-WINT PIR is ready to respond to any motion detected. Because of this operation, do not program a wireless PIR for cross zone operation unless other zones are also programmed to provide cross zone operation.

- When installed in extreme hot or cold environments.

Maintenance

When installed and used properly, the unit provides years of service with minimal maintenance. To ensure proper operation, you should perform unit testing annually as described above. Clean the cover and optional bracket with a water dampened cloth as needed to keep it free of dust and dirt. Always test the unit after cleaning.

<p>Specifications</p> <p>Battery Life Expectancy 3 years (normal operation) Type 3.0V Lithium CR123 See Battery Life Expectancy for details.</p> <p>Frequency Range 863-869 MHz</p> <p>Transmit condition Alarm, Low Battery</p> <p>Detection Range 90° 50 x 50 feet /15.24 x 15.24 meter</p> <p>Speed 1 to 5 feet/second .3 to 1.5 meter/second</p> <p>Mounting height 4.9 to 8.2 feet 1.5 to 2.5 meters</p> <p>Dimensions 4.8" H X 2.5" W X 1.45" D 12.2 H x 6.4 W x 3.7 D cm</p> <p>Color White</p>	<p>Patents U. S. Patent No. 7,239,236</p> <p>Compatibility 1100X-WINT Wireless Receiver 1100D-WINT Wireless Receiver XT30INT Series panel XR150INT/XR550INT Series panels</p> <p>International Certifications EN 61000-6-3 EMC Generic Standards - Emission standard for Residential, Commercial and Light-industrial Environments EN-50130-4 EMC Product Family Standard: Immunity Requirements For Components of Fire, Intruder and Social Alarm Systems</p>	
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