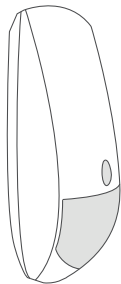


# 1122 WIRELESS PIR MOTION DETECTOR

## Installation Guide



**Figure 1: 1122 Wireless PIR Motion Detector**

### DESCRIPTION

The 1122 Wireless PIR Motion Detector uses passive infrared technology to detect motion in a wide-angle lens pattern.

The 1122 also features a wall tamper, internal case tamper, survey LED, low battery indicator, adjustable sensitivity, and pulse count.

Disarm/disable and pet immunity up to 55 pounds are available for panels with firmware Version 172 and higher.

To extend battery life, the 1122 includes a 30-second sleep timer that restarts on every motion detection. This functionality allows the 1122 to wake up after 30 seconds when no motion detected unless disarm/disable is active.

### What is Included?

- One 1122 Wireless PIR Motion Detector
- One 3.0 V lithium CR123A battery

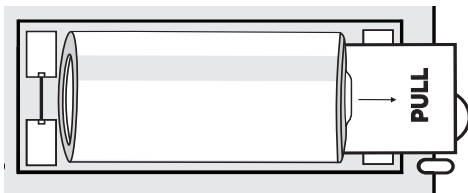
## 1 PROGRAM THE PANEL

To program the 1122 in the panel, complete the following steps:

1. In **ZONE INFORMATION**, enter the wireless zone number.
2. Enter the zone name.
3. At **ZONE TYPE**, select **NT** (Night).
4. Select the **AREA**.
5. At **NEXT ZN?**, select **NO**.
6. At **WIRELESS?**, select **YES**.
7. Enter the eight-digit **SERIAL#** and press **CMD**.
8. Enter the **SUPRVSN TIME** and press **CMD**.
9. Choose if you want to enable **DISARM DISABLE** (panel firmware Version 172 and higher only). Select **YES** to allow the 1122 to be disabled for Night and Exit zone types while the area is disarmed.
10. At **PULSE COUNT**, select **2** or **4**. The pulse count is the number of pulse inputs (trips) the 1122 senses before going into alarm.
11. At **SENSITIVITY**, select **LOW** or **HIGH**. Selecting **LOW** sensitivity may reduce false alarms for installations in harsh environments.
12. Choose if you want to enable **PET IMMUNITY** (panel firmware version 172 and higher only).
13. At **NEXT ZN?**, select **YES** if you are finished programming the zone. Select **NO** if you would like to access additional programming options.

## 2 REMOVE THE BATTERY ISOLATION TAB

The 1122 comes pre-installed with one 3.0 V CR123A battery. To activate the battery, firmly grasp the battery pull-tab on the battery compartment and remove it. See Figure 2.



**Figure 2: Battery Pull Tab**

## 3 SELECT A LOCATION

The 1122 provides a survey capability to allow one person to confirm communication with the wireless receiver or panel while the cover is removed. This allows you to easily determine the best location for the 1122.

### Location Dos

- Do locate on a rigid vibration-free surface
- Do locate so that the expected intruder's movement will be across the detection pattern
- Do locate between 4.9 and 8.2 feet high

### Location Don'ts

- Don't locate on a surface exposed to moisture
- Don't locate on any area containing excessive metallic surfaces
- Don't locate with direct sunlight, heat sources (heaters, radiators, etc.), or strong air drafts (fans, air conditioner, etc.) in the field of view

### Survey LED

The 1122 provides a Survey LED capability to allow one person to confirm communication with the wireless receiver or panel while the cover is removed.

1. With the top housing removed, hold the 1122 in the exact desired location.
2. Press the tamper switch to send data to the receiver and determine if communication is confirmed or faulty. See Figure 2 for tamper switch and LED locations.

✓ **Confirmed:** If communication is confirmed, the survey LED turns on when data is sent to the receiver and off when acknowledgement is received. Repeat this test to confirm five separate consecutive LED blinks. Any indication otherwise means proper communication has not been established.

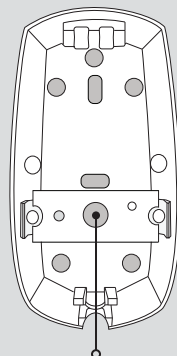
✗ **Faulty:** If communication is faulty, the LED remains on for about 8 seconds or flashes multiple times in quick succession. Relocate the detector or receiver until the LED confirms clear communication.

## 4 MOUNT THE 1122

Prior to permanently mounting the 1122, check that it is properly communicating with the panel.

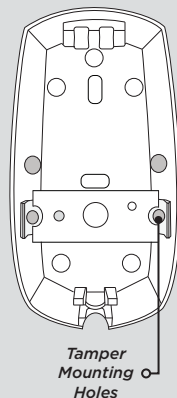
1. Loosen the screw located on PCB and slide the PCB out of the unit.
2. Place the 1122 against the wall and screw through the appropriate mounting holes.
3. For flat wall installations, choose from the mounting hole locations shown in Figure 3. For corner installations, choose from the mounting hole locations shown in Figure 4. Insert screws in the tamper mounting holes.
4. Reinstall the PCB back into the unit. Tighten the PCB screw to secure it into place.
5. Place the cover back onto the 1122 and tighten the holding screw back into place.

### MOUNTING HOLES



Tamper Mounting Hole

Figure 3: Flat Mounting Hole Locations



Tamper Mounting Holes

Figure 4: Corner Mounting Hole Locations

## 5 TEST THE MOTION DETECTOR

Before performing the following tests, ensure the 1122 is programmed in the panel. After the 1122 has been installed, test to confirm that it is communicating reliably with the panel. Complete the following steps to perform a Wireless Check-in Test from a keypad that is connected to the panel:

### PIR Walk Test

Complete the following steps to perform a PIR Walk Test to confirm the 1122 is detecting motion in the necessary areas:

1. At the keypad, enter **8144** (WALK) and select **PIR**.



**Note:** The 1122 can take up to 3 minutes to begin the PIR Walk Test. If the transmitter fails to check in at the keypad, ensure that it is wired properly and check for sources of interference such as metal objects and electronic equipment.

2. The LED illuminates steadily for 1 second when it detects motion. Walk test the unit to verify the PIR coverage.
3. To manually end the test, reset the panel. The test expires on its own after 30 minutes.

### Wireless Check-in Test

Perform a Wireless Check-in Test to confirm that the 1122 is communicating clearly with the panel.

At the keypad, enter **8144** (WALK) and select **WLS**. If the transmitter fails to check in at the keypad, ensure that it is wired properly and check for sources of interference such as metal objects and electronic equipment.

When this test is initiated, the panel automatically tests the communication between itself and each wireless zone. Wireless zones should not be manually tripped during this test. Manually tripping zones during this test could lead to a false failure.

## 6 REPLACE THE BATTERY

Complete the following steps to replace the battery:

1. Remove the holding screw at the lower end of the 1122 case and gently lift off the cover.
2. Remove the old battery and dispose of it properly. See Figure 2 for the battery location.
3. Observing polarity, place the new 3.0 V Lithium CR123 battery in the holder and press into place.
4. Place the cover back onto the 1122 and tighten the holding screw back into place.

### Sensor Reset to Clear LOBAT

When the battery needs to be replaced, a **LOBAT** message displays on the keypad. Once the battery is replaced, a sensor reset is required at the system keypad to clear the **LOBAT** message.

1. On a Thinline keypad, press and hold **2** for two seconds. On a touchscreen keypad, press **RESET**.
2. If required, enter your user code.
3. The keypad displays **SENSORS OFF** followed by **SENSORS ON**.

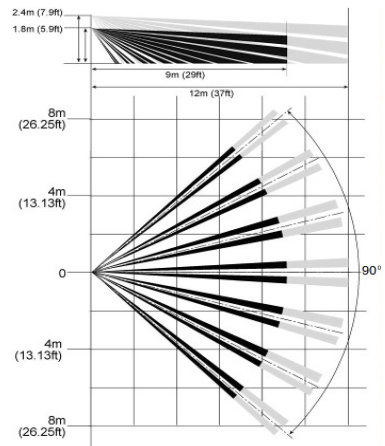


Figure 5: Detection Pattern

## ADDITIONAL INFORMATION

### Detection Pattern

The 1122 detects motion crossing the beam. The detector is more sensitive when detecting motion crossing the beam than motion moving directly towards the detector. See Figure 5.

# FCC INFORMATION

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.

The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm (7.874 in.) from all persons. It must not be located or operated in conjunction with any other antenna or transmitter.

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



**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Industry Canada Information

This device complies with Industry Canada Licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. l'appareil ne doit pas produire de brouillage, et
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This system has been evaluated for RF Exposure per RSS-102 and is in compliance with the limits specified by Health Canada Safety Code 6. The system must be installed at a minimum separation distance from the antenna to a general bystander of 7.87 inches (20 cm) to maintain compliance with the General Population limits.

L'exposition aux radiofréquences de ce système a été évaluée selon la norme RSS-102 et est jugée conforme aux limites établies par le Code de sécurité 6 de Santé Canada. Le système doit être installé à une distance minimale de 7.87 pouces (20 cm) séparant l'antenne d'une personne présente en conformité avec les limites permises d'exposition du grand public.

## 1122 WIRELESS PIR MOTION DETECTOR



### Specifications

Battery	
Life Expectancy	3 Years (normal operation)
Type	3.0 V Lithium CR123A
Frequency Range	905-924 MHz
Detection	
Range	90° 40 x 40 feet
Speed	1 to 5 feet/second
Mounting Height	4.9 to 8.2 feet
Transmit Condition	Alarm, Low Battery, Tamper
Color	White
Housing Material	Flame retardant ABS
Dimensions	5" L X 2.6" W X 1.5" D

### Compatibility

XT75 Control Panels

XT30/XT50, XTLplus, and XR Series Control Panels with firmware Version 171 and lower provide basic functionality with the addition of adjustable sensitivity and pulse count.

XT30/XT50, XTLplus, and XR Series Control Panels with Version 172 and higher firmware provide basic functionality with the addition of adjustable sensitivity, pulse count, pet immunity, and disarm/disable.

### 1122 Version 1.0.0.6 and lower

1100 Series Wireless Receivers and Transmitters  
Firmware Version 106 and higher

### 1122 Version 2.0.0.1 and higher

All 1100 Series Wireless Receivers and Transmitters



**Note:** If the 3rd digit of the transmitter's serial number is greater than 0, it will be v106 or higher. If the 3rd digit is equal to zero, that transmitter must be removed or replaced with a newer transmitter for the 1122 to function properly.

### Certifications

FCC Part 15 Registration ID CCK1122  
Industry Canada Registration ID 5251A-1122

### Patents

U.S. Patent No. 7,239,236



Designed, engineered, and  
manufactured in Springfield, MO  
using U.S. and global components.

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2500 North Partnership Boulevard  
Springfield, Missouri 65803-8877  
866-266-2826 | DMP.com