

## 1126 Ceiling Mount PIR Motion Detector

### Description

The 1126 PIR (Passive Infrared) Motion Detector is a compact, wireless, 360° PIR designed for a variety of ceiling mount applications.

### Compatibility

All DMP 1100 Series Wireless Receivers and Panels

### Features

- Compact Design provides the smallest ceiling mount infrared sensor
- Remote configuration from panel
- Excellent R.F.I. and noise immunity
- Adjustable sensitivity from panel programming
- Pulse count selection allows multiple triggers before an alarm is initiated
- Walk Test mode initiated from panel
- Disarm Disable operation to save battery life
- Installs up to 18' ceiling height

### What is Included

The 1126 PIR Motion Detector includes the following:

- One PIR detector with DMP wireless transmitter
- Two CR123 batteries
- Zone name and number label
- Serial number label

### 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.

### 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. The PIR transmitter PCB Red Survey LED turns on whenever the processor turns on to send data to the receiver then immediately turns off when the receiver acknowledgement is received and the processor shuts off. While in Walk Test mode, waving your hand in front of the PIR 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 communication.

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.

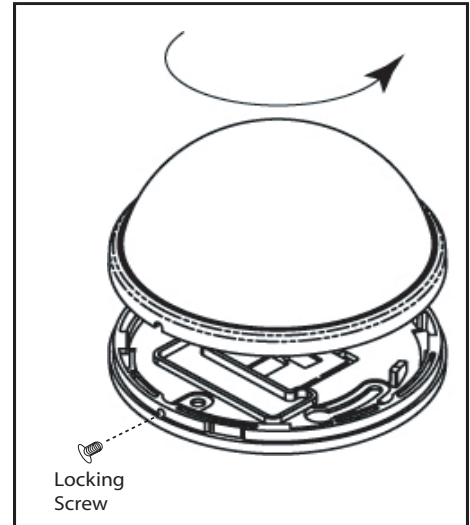


Figure 1: Remove the Base for Installation

## Mounting Location Considerations

Mount the unit:

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

Do not locate the unit:

- 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.)
- Facing areas that may change temperature rapidly
- In any area containing excessive metallic surfaces

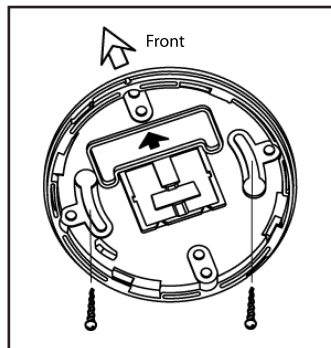


Figure 2: Mounting Holes

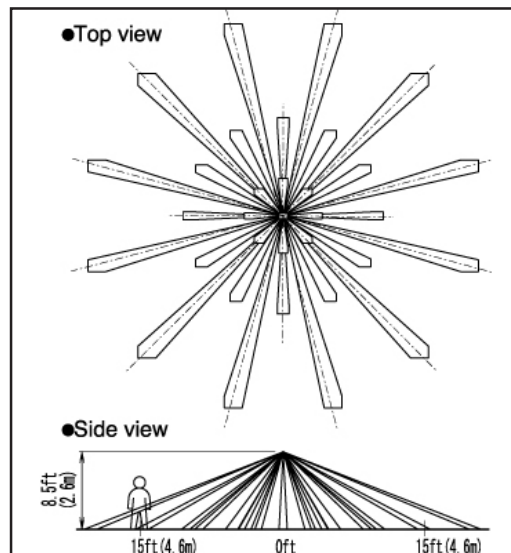


Figure 3: 1126R Detection Pattern

## Mounting Height Considerations

For 1126R 360° installations on ceilings under 12', refer to Figures 4 and 5 shown below.

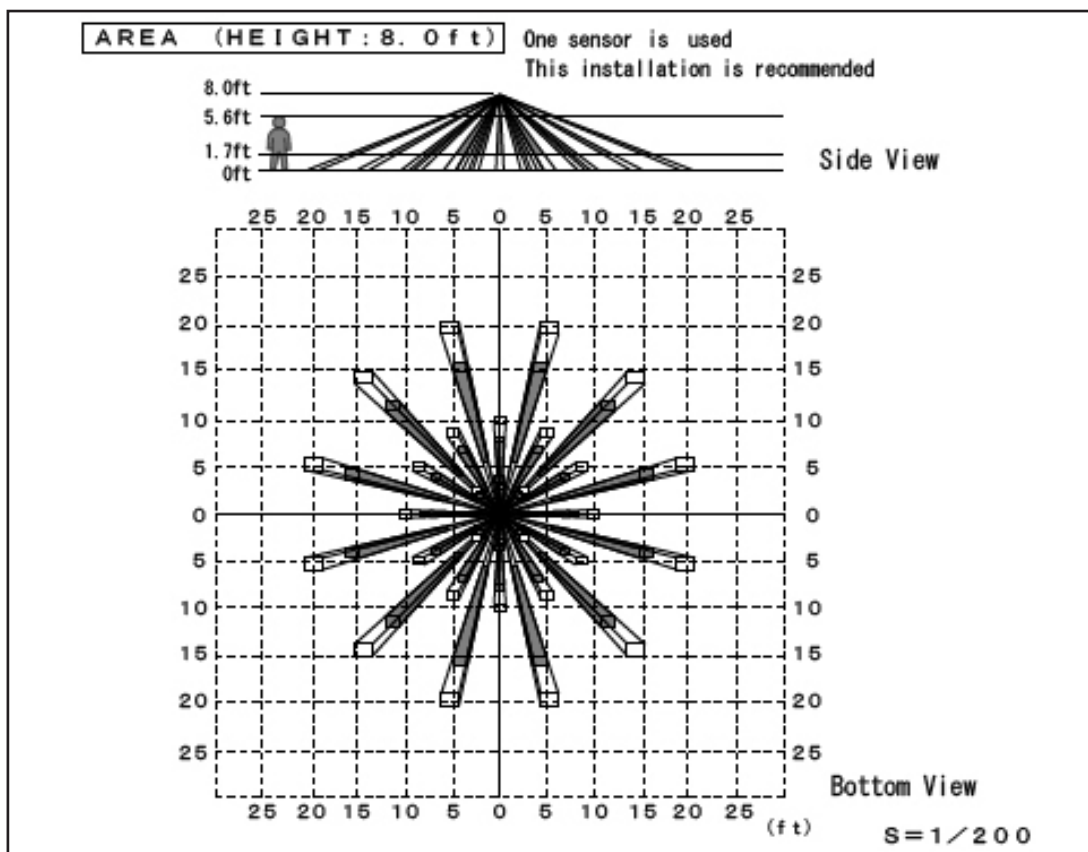


Figure 4: 1126R 8' Detection Pattern

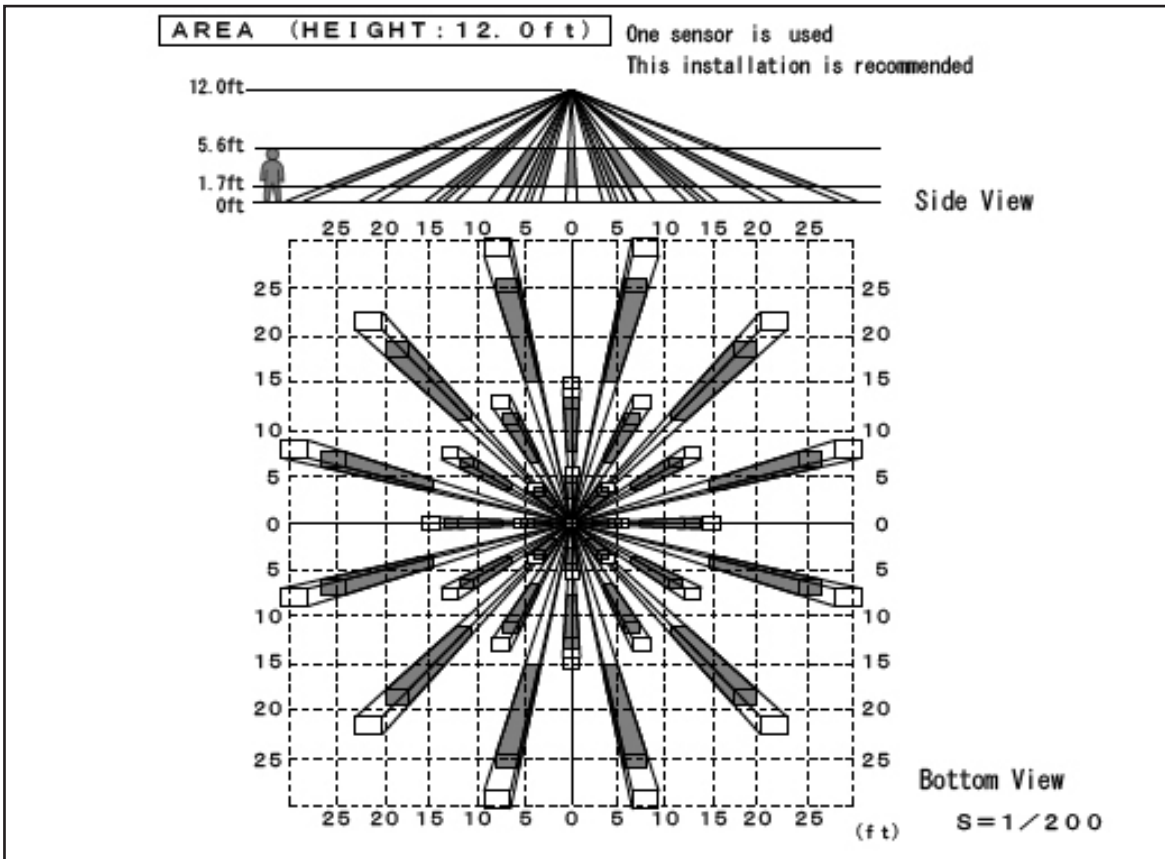


Figure 5: 1126R 12' Detection Pattern

**Mounting Height Considerations**

For 1126R 360° installations on ceilings over 12' up to 18', refer to Figure 6 shown below.

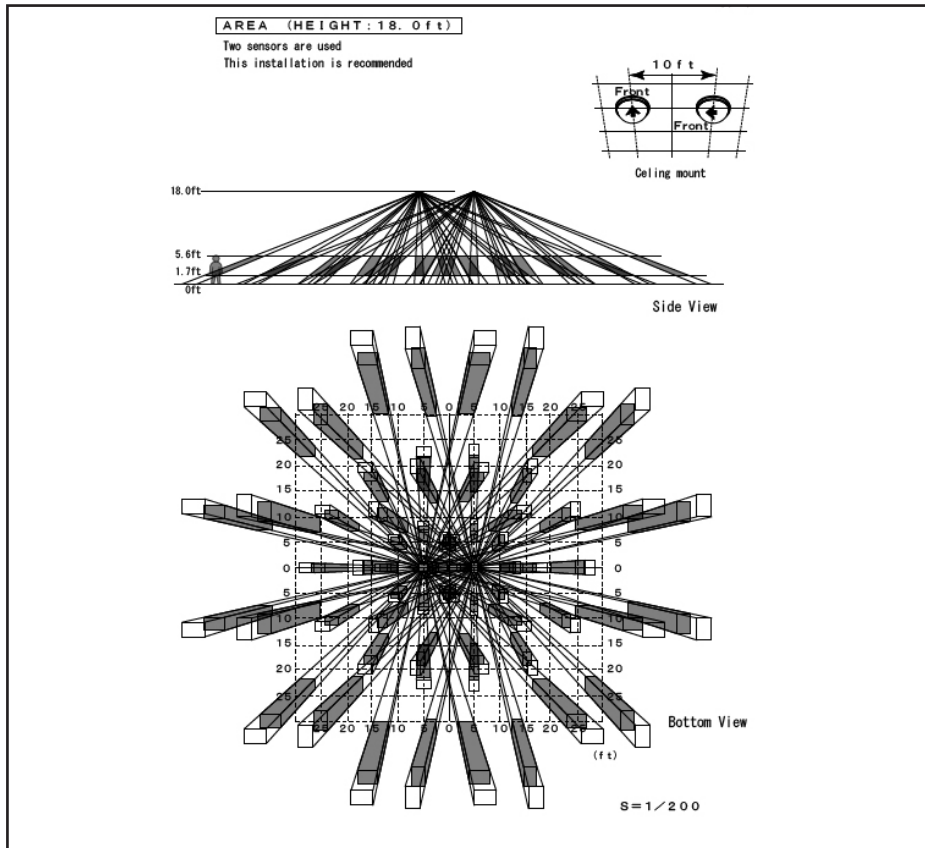


Figure 6: 1126R 18' Detection Pattern

## Programming the PIR in the Panel

Refer to the panel programming guide. 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.

The 1126 Series PIR programming offers some unique features:

- Disarm-Disable operation to save battery life. Selecting YES for Disarm Disable in Zone Programming allows the 1126 PIR to be disabled for Night and Exit type zones while the area is disarmed. Default is YES.
- Pulse count selection allows multiple triggers before an alarm is initiated. The pulse count is the number of pulse inputs (trips) the 1126 PIR motion detector needs to sense before going into alarm. The pulse count for an 1126 in a high-security installation may be programmed to 2, ensuring that the detector sends an alarm more quickly than a pulse count of 4.
- Adjustable sensitivity from panel programming. Programming the 1126 with a sensitivity of HIGH operates the PIR at maximum sensitivity. A sensitivity of LOW operates the PIR at 75% of maximum sensitivity. Programming a LOW sensitivity for 1126 installations in harsh environments may reduce false alarms.
- Walk Test mode initiated from panel. The Wireless PIR Walk Test is a 30-minute test allowing the installer to verify proper operation of 1126 PIR motion detectors in a system. During the Wireless PIR Test, the LED's on all 1126 PIR's are enabled to flash within one minute after the sensors detect motion. The PIR LED flashes upon motion detection for up to 30 minutes.

## Testing

### Walk Test

1. From the Walk Test menu of the panel, select the PIR Walk Test to place the 1126 PIR in walk test mode (enable the LED) for 30 minutes. After 30 minutes, the Walk Test automatically exits and the 1126 PIR returns to normal. Any 1126 Series PIR Transmitters that have DISARM DISABLE set to YES are temporarily enabled when the Walk Test is selected. Upon completion of Walk Test, the transmitter is disabled again.
2. After entering the walk test mode, thoroughly test the installation to insure proper protection pattern of the installed units. The walk test is a local test only and no results are sent to the Central Station.

### Transmission Test

1. After programming the unit, snap the plastic housing onto the mounting base to initiate the tamper switch.
2. Verify that the keypad display indicates a signal received from the detector.

## Installing or Replacing Batteries

Observe polarity when installing the batteries. Use only 3.0V lithium batteries 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. Remove the front cover. See Figure 1.
2. Remove the batteries (if installed) before installing new batteries.



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

3. Observe polarity and insert the lithium batteries into the battery holder.

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

### Battery Life Expectancy

Typical battery life expectancy for a DMP Model 1126 Series wireless PIR is five years, based on 300 trips per day. Battery life can be increased 40% to seven years by programming the Disarm Disable feature at YES. See the panel programming guide for additional battery life information. DMP wireless equipment uses two-way communication to extend battery life.

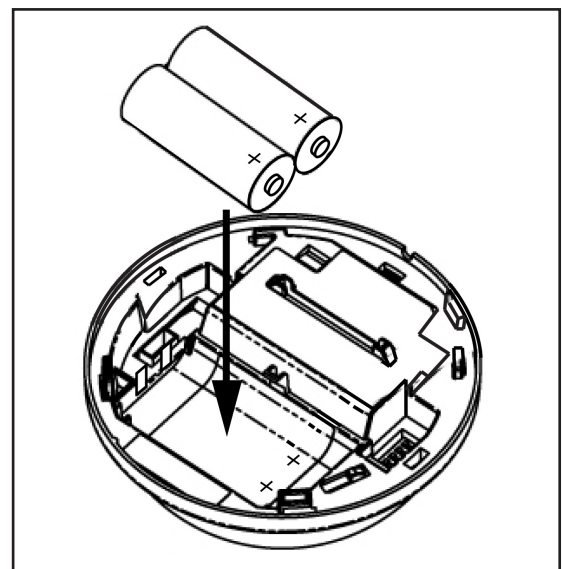


Figure 7: Battery Replacement

The following situation can extend battery life expectancy:

- Enabling the Disarm Disable feature in Zone Programming allows the 1126 PIR to be disabled while the area is disarmed. This eliminates frequent motion from being detected in a high traffic area during the disarmed period.
- Extend transmitter supervision time in panel programming.

The following situations can reduce battery life expectancy:

- If a receiver is unplugged, 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.
- Programming the Disarm Disable feature as NO where frequent transmissions, in areas of high traffic, cause messages to be sent every time movement is detected.
- 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, perform unit testing annually as described. 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.

## 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.

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.

**Note:** The 1100 Series wireless system is a two-way supervised wireless design. It is compliant with FCC rules as they pertain to 900 MHz Spread Spectrum devices. In rare instances it has been observed that certain 900 MHz cordless telephones may occasionally experience a clicking sound on the telephone while in use. If this occurs, it may be resolved by selecting a different channel on the cordless telephone, or replacing the cordless phone with a different brand or model of 900 MHz telephone or other cordless telephone.

To comply with RF exposure requirements, a minimum distance of 20cm must be maintained between the antenna and all persons.

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

## Industry Canada Information

(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.

## Specifications

CR123 Battery  
Life Expectancy 5 to 7 years  
Type 3.0V Lithium CR123A  
See Battery Life Expectancy for details.  
Transmit condition Alarm, Low Battery  
Mounting height 6.5 to 18 feet  
Frequency Range 905-924 MHz  
Dimensions 4.0" Diameter x 2" Height  
Color White

## Patents

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

## Ordering Information

1126R-W 1126 PIR Motion Detector - 360°  
CR17450 3.0V Lithium battery  
CR123 3.0V battery

## Compatibility

XT30/XT50 Series panels using Version 102 or higher  
XR100/XR500 Series panels using Version 201 or higher  
XR150/XR350/XR550 Series panels  
1100D Version 104  
1100DI/1100DH Version 105 Wireless Receivers  
1100X Version 104  
1100XH Version 105 Wireless Receivers

## Certifications

FCC Part 15: CCKPC0152  
Industry Canada: 5251A-PC0152



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