

# EE1265 EchoStream® 360° Passive InfraRed Motion Detector

## Installation and Operation Manual

### 1 Overview

The EE1265 is a wireless, ceiling-mounted, four-element passive infrared (PIR) intrusion detector providing protection from intruders by pyro-sensor array. Micro-controller signal analysis with special technology for pulse processing increases immunity to interference, vibration, static, lightning, ambient temperature changes, and other common causes of false alarms.

**Caution:** The EE1265 needs one minute for stabilization after power up. During the stabilization period, the LED will blink twice per second, and the EE1265 will not be operational.

#### 1.1 Inovonics Contact Information

For product and installation videos visit us at [www.inovonics.com/videos](http://www.inovonics.com/videos) or use the QR code below.



If you have any problems with this procedure, contact Inovonics technical services:

- E-mail: [support@inovonics.com](mailto:support@inovonics.com).
- Phone: (800) 782-2709; (303) 939-9336.

#### 1.2 EE1265 Internal Components

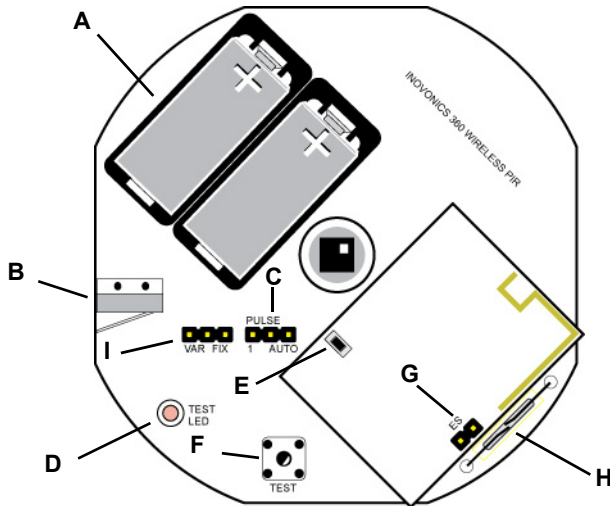


Figure 1 EE1265 internal components

- |                            |                           |   |
|----------------------------|---------------------------|---|
| <b>A</b> Batteries         | <b>B</b> Tamper switch    | <b>C</b> Pulse count selection pins               |
| <b>D</b> Test LED          | <b>E</b> Reset button     | <b>F</b> Test button                              |
| <b>G</b> ES selection pins | <b>H</b> Test reed switch | <b>I</b> Fixed/variable sleep time selection pins |

#### 1.3 What's in the Carton

- Four drywall mounting anchors.
- Four mounting screws.
- Two selection jumper.
- Two 3.0V lithium batteries.

## 2 Installation and Startup

### 2.1 Installation Notes

- These products are designed to be maintained by professional security technicians.
- Products are tested for indoor use.
- All products should be manually tested weekly.

### 2.2 Install the Batteries

The EE1265 can accommodate two batteries for extra battery life, but only one is required for operation.

**Note:** When installing batteries, it is recommended that batteries are replaced in new pairs from the same manufacturer.

To install batteries:

1. Loosen the housing tamper lock screw.

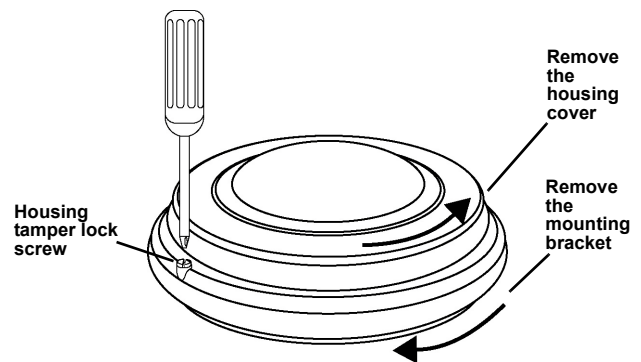


Figure 2 Remove the housing cover and mounting bracket

2. Install the battery included with the unit.
3. Install an optional second battery.
4. Press the **Reset** button to initialize the transmitter.

**Note:** You must press the **Reset** button each time a new battery is installed.

### 2.3 Enable EchoStream Select

To meet ETSI requirements, Inovonics has developed a new line of EE 868MHz-only products. These new 868MHz-only products are compatible with older systems that include EchoStream Select products. If you are not using any ES products in your current system, skip to 2.4, "Select PIR Sensitivity"; if you are using ES products in your current system, you will need to configure the transmitter.

To enable EchoStream Select compatibility:

5. To enable compatibility with ES products, place a selection jumper on the ES selection pins.

**Note:** The selection jumper is included in the EE1265 hardware packet.

6. Press the **Reset** button to initialize the transmitter.

**Caution:** When pressing the **Reset** button, make sure you don't also touch the ES selection pins. Touching the ES selection pins while pressing the **Reset** button can inadvertently set the EE1265 to the wrong frequency band.

### 2.4 Select PIR Sensitivity

The pulse count selection pins provide control for difficult operating environments. Automatic pulse count is recommended for reliable operation in environments subject to temperature fluctuation that can cause false alarms. The single pulse count mode is more sensitive to minor temperature variations, and should be used in sites where variant heat sources will not cause alarms. Automatic pulse count is the factory default because it allows more reliable operation in environments subject to temperature fluctuation. If you are using automatic pulse count, skip to 2.5, "Select Fixed/Variable Sleep Time"; if you are using single pulse count mode, you will need to configure the transmitter.

To select PIR sensitivity:

7. Place the jumper on the left two pins to select a single pulse count.

## 2.5 Select Fixed/Variable Sleep Time

The sleep time jumper setting provides control for normal or high-traffic operating environments. When set to fixed, if the EE1265 senses motion, it will transmit an alarm, then enter sleep mode for 180 seconds; if motion is sensed when the sleep time has expired, the EE1265 will transmit another alarm. Fixed sleep time is recommended for normal operating environments. When set to variable, if the EE1265 senses motion, it will transmit an alarm, then enter sleep mode for 180 seconds; if motion is sensed before the sleep time has expired, the EE1265 will restart the 180 second interval. Variable sleep time is recommended for high-traffic operating environments.

8. Place a selection jumper on the appropriate sleep countselection pins.
  - Place the jumper on the left two pins to select variable sleep time.
  - Place the jumper on the right two pins to select fixed sleep time.
9. Install the battery.
10. Press the **Reset** button.

## 2.6 Register the PIR

The EE1265 must be registered.

11. Refer to receiver, network coordinator, or control panel installation instructions to register the EE1265. Press **Reset** when prompted to register the transmitter.

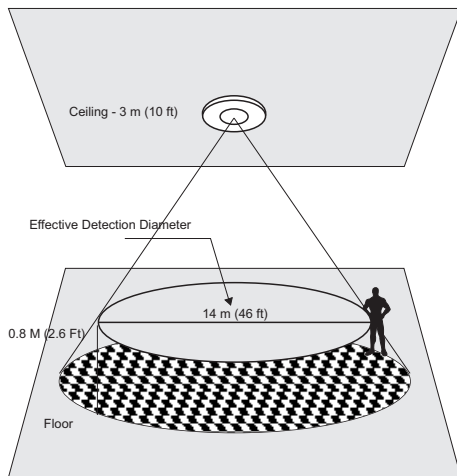
**Caution:** The EE1265 should be tested after registration to ensure operation. To test the EE1265, activate each of the conditions and ensure an appropriate response.

## 2.7 Mount the EE1265

12. Install the housing cover and housing tamper lock screw.

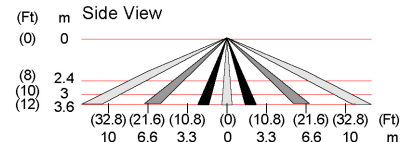
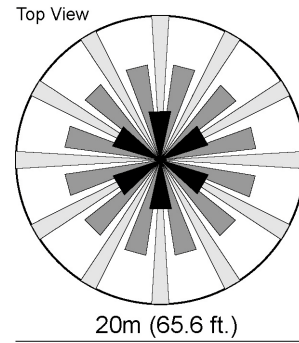
**Note:** Ensure the housing tamper lock screw is tightened sufficiently to depress the tamper switch. If the housing tamper lock screw is not sufficiently tightened, the EN1265 will remain in a state of tamper.

13. Remove the mounting bracket.
14. Use the provided anchors and screws to mount the EE1265 housing base to the ceiling.
  - The EE1265 can be mounted to a maximum height of approximately 12 feet (3.6 meters). As mounting height increases, distance between detection zones also increases toward the perimeter, and the effects of factors such as floor surface temperature and intruder direction and speed are intensified. This can contribute to reducing the speed of detection. Every installation should include a walk test of detection zones, including intrusion paths crossing the edges of the zones. See Figure 3 and Figure 4 for more information.



**Figure 3** EE1265 detection diameter

**Note:** The ACC689 long range lens allows for an install height of up to 25 feet.



**Figure 4** EE1265 lens pattern

15. When the housing base has been attached to the ceiling, install the PIR on the mounting bracket.

## 3 Test the EE1265

### 3.1 Walk Test

When in walk test mode the test LED will light every time the EE1265 senses motion. The unit will not transmit alarm signals during this test period. There are two ways to initiate a walk test. Once initiated, the walk test will last for one minute. To initiate a walk test:

1. With the cover off the unit, pass a magnet near the walk test reed switch for one second, or press the test button for one second.

**Note:** The test LED only lights during the walk test and the transmission test.

### 3.2 Transmission Test

When in transmission test mode the unit will transmit alarm and restoral cycles at regular intervals for approximately one minute. The LED will light every time the unit transmits. To initiate a transmission test:

1. With the cover off the unit, hold a magnet near the walk test reed switch for at least three seconds, or press the test button for at least three seconds.

## 4 Operation

The EE1265 contains a tamper switch on the board to alert the user if the housing cover is removed. The EE1265 also contains tamper contacts in the mounting bracket to alert the user if the unit is removed from the wall.

## 5 Specifications

Dimensions: 131mm x 57mm (5.2" x 2.25").

Weight: 185g (6.52 oz.).

Detection method: 4-element PIR.

Operating temperature: 0°C to 49°C (32°F to 120°F).

Humidity: 10% to 90% non-condensing.

Battery: Inovonics BAT604 (3.0V lithium Duracell DL123A).

**Note:** Battery is supervised.

Typical battery life: 2 years in location with low to moderate activity.

Visible light protection: Stable against halogen light 8 feet (2.4m) or reflected light.

Temperature compensation: Yes.

Pulse count: Selectable single pulse or multiple pulse.

Operating frequency: 868-869 MHz.

Output power: 25mW.

Firmware revision: 90484, v3.01.

Countries in which Inovonics European products can be distributed:  
Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia,  
Finland, France, Greece, Hungary, Ireland, Italy, Latvia, Lithuania,  
Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania,  
Slovakia, Slovenia, Spain, Sweden, United Kingdom.

---

**Note:** Specifications and data are subject to change without notice.

---

**Note:** Changes or modifications to this unit not expressly approved by  
Inovonics may void the installer's authority to operate the equipment as  
well as the product warranty.

---

## **6 Simplified Declaration of Conformity**

Hereby, Inovonics declares that the radio equipment type EE1265 is in  
compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following  
Internet address: [www.inovonics.com](http://www.inovonics.com)

## **7 US Patent Numbers**

- 7,154,866.
- 7,554,932.
- 7,746,804.
- Other patents pending.