



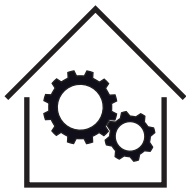
Private
Locally Managed
Secure

Privé
Géré localement
Sécurisé

virage

Home Automation
Systems

Systèmes
domotiques



Virage Motion Sensor

Installation and Setup
Manual

Model MS-001

laboratories inc.



WARNING - ATTENTION

There are many sources of radio frequency noise in the environment, including other devices operating at the same frequency as the Virage Motion Sensor.

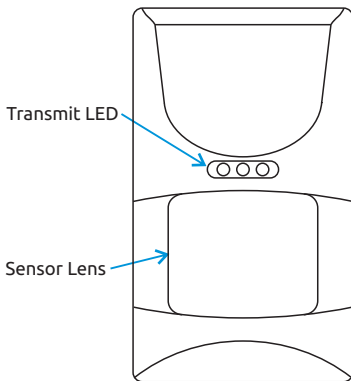
Due to the risk of false signals and/or interference with legitimate signals it is not recommended to rely on the Virage Motion Sensor for critical safety or security applications.

Before you install, some things to check:

1. This device transmits 433 MHz radio signals. As with all such devices, performance may be limited by:
 - Proximity to metal objects, including ductwork, metal framing, or metal posts and beams in walls
 - Other sources of radio frequency emissions including televisions, microwave ovens, computer equipment or other devices
2. A VirageBridge or similar device is required to use the Virage Motion Sensor.
3. Depending on the radio transparency of the building, it may be necessary to use multiple VirageBridges or relocate them to optimize signal reception.
4. The Virage Motion Sensor requires two AA batteries (included). The power switch inside the motion sensor is shipped in the off position, and must be turned on prior to use.

Get to know your new sensor

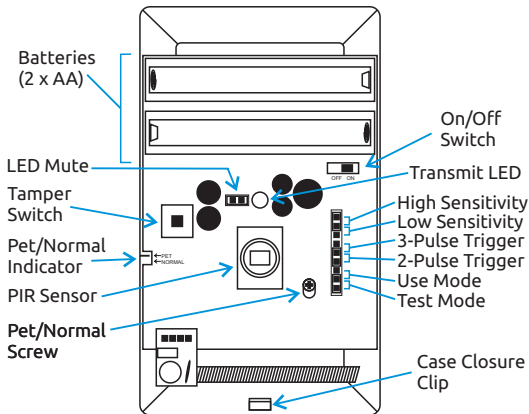
The Virage Motion Sensor works by sensing motion through a PIR (passive infra red) sensor element. As a source of heat moves through the field of view of the sensor, a signal is generated indicating motion. It is important to locate the Virage Motion Sensor in a spot that can 'see' the entire area you want to monitor.



LED	State	Meaning
Motion	Flashing Red	Transmitting (Motion detected)

Get to know your new sensor

The Virage Motion Sensor has a number of settings that can be customized by moving jumpers inside the sensor case. These include muting the LED, the sensitivity of the device, and the operation mode (Test vs Use).

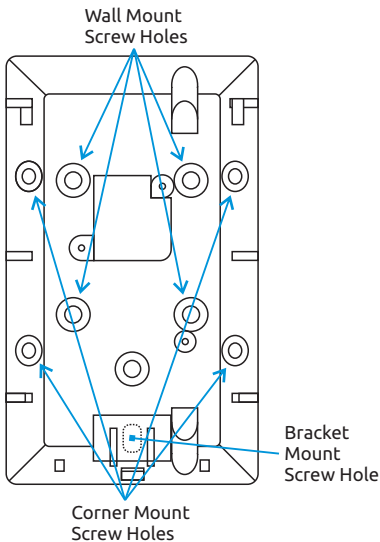


To change the battery or modify any of the jumper settings, depress the Case Closure Clip with a small screwdriver or similar object to open the case.

Installation

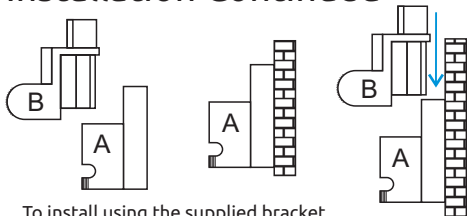
1. Note that in order to use Virage Motion Sensor a VirageBridge or other compatible receiver must be used, in conjunction with a home automation hub.
2. Ensure that your VirageBridge is installed and functional before installing your Virage Motion Sensor
3. It is recommended that you configure each Virage Motion Sensor within your hub software prior to installing it.
4. Set the jumpers in the Motion Sensor as needed:
 - 2-Pulse triggers the sensor only after two successive motion events, while 3-Pulse requires three.
 - In Test mode the sensor will trigger each time the set number of motion events is detected. Use mode allows the sensor to trigger only every 5 minutes, which can conserve battery life.
4. Choose an installation location that overlooks the area in which you want to detect motion, such that there are no obstructions between the sensor and the area.
5. Prior to installation, it can be useful to hold the Motion Sensor in the location you plan to install it and have someone walk through the area, in order to test the effectiveness of the location and installation angle.
5. Once you have verified the location and angle of the installation, install the Motion Sensor using either the supplied bracket or by directly attaching it using the screw holes in the back of the case (see next page).

Installation Continued

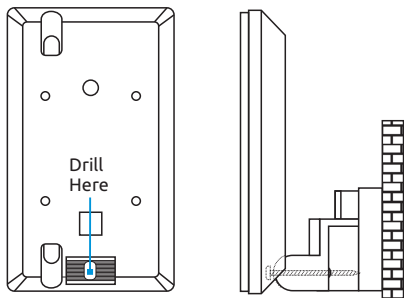


To install directly on a surface such as a wall, use the screw holes in the back of the case (note circuit board must be removed). There is a thin layer of plastic covering the holes, which can be easily pierced by a screw or nail.

Installation Continued



To install using the supplied bracket, attach piece A of the bracket to the wall (fasteners not included), then slide piece B downward into piece A.



Drill a small hole through the back of the case in the location indicated, align the case back, then using the supplied screw attach the case back to pieces A and B.

Using your Motion Sensor

Virage Motion Sensors must be used in conjunction with a Virage Bridge or other compatible receiver, along with a home automation hub (such as Home Assistant, Domoticz or OpenHAB).

Virage Motion Sensors transmit 433.92 MHz radio frequency signals to indicate motion has been detected, or if the case has been opened. They will also send a signal if the battery is running low.

Once set up in your home automation software, there is nothing to control on the Virage Motion Sensor itself other than periodically changing the batteries.

For instructions on how to set up radio-frequency devices in your home automation hub, follow the instructions provided by the makers of your hub or refer to the Virage website.

Troubleshooting

Issue	Solution
Transmit LED does not light with motion	Ensure the batteries are fresh and installed correctly, and that the power switch is in the On position Check the jumper settings: <ul style="list-style-type: none">- The transmit LED is enabled- The mode is set to Use (which inserts a 5 minute delay between trigger events)- The required number of motion events have occurred
Transmit LED lights but signal is not received	Ensure that your VirageBridge or other receiver is functioning properly. Verify that there is nothing blocking the signal between the Motion Sensor and the VirageBridge (e.g. metal objects, ductwork, etc.). Try relocating the VirageBridge or adding an additional one if this is a problem.
Color of Motion Sensor does not match mounting location	The housing of the Motion Sensor can be painted as needed. Be careful not to get paint on the Sensor Lens as this will prevent the sensor from working properly. It is possible to remove the lens assembly from the housing if needed.

Specifications

Model: MS-001

Rated Power: 3V DC (2 AA Battery)

Wireless Frequency: 433.92 Mhz

Minimum voltage: Low Battery notification at $< 2.2V$

Country of Origin: Hardware manufactured in China