

## Motion Detectors



The interior motion detector is an essential element of your security system, because it's the main device that detects when someone is in your home when they shouldn't be. A motion sensor uses smart technology to detect movement in an area. If a sensor is tripped, a signal is sent to your security system's control panel, which connects to your monitoring center, alerting you and the monitoring center to a potential threat in your home.

### Passive Infrared (PIR)

The PIR motion detector detects body heat (infrared energy). Passive infrared sensors are the most widely used motion in home security systems. When your system is armed, your motion sensors are activated. Once the sensor warms up, it can detect heat and movement in the surrounding areas, creating a protective "grid." If a moving object blocks too many grid zones and the infrared energy levels change rapidly, the sensors are tripped.



### Dual Technology Motion Sensors:

Motion sensors can have combined features in an attempt to reduce false alarms. For example, a passive infrared (PIR) sensor could be combined with a microwave sensor. Since each operates in different areas of the spectrum, and one is passive and one is active, Dual Technology motion sensors are not as likely as other types to cause false alarms, because in order for the alarm to be triggered, both sensors have to be tripped. However, this does not mean that they never cause false alarms.

