



Ajax MotionProtect Plus

Pet immune motion PIR detector with microwave sensor

Ajax MotionProtect Plus detects the first step of a human on the premises but ignores pets, drafts and noise from an air conditioner. Radio frequency scanning filters interference created by thermal radiation combined with curtain movement, trembling blinds or a strong sun glare.

Tech specs

- Detector type: Wireless
- Detecting element: PIR-sensor and microwave sensor (24 GHz)
- Use: Indoor
- Movement detection distance: Up to 12 m (39.4 ft)
- Sensitivity: 3 levels adjustable (low, medium, high)
- Detection angle: 88.5° horizontal / 80° vertical
- Installation height suggested: 2.4 m (7.9 ft)
- Pet ignoring option: Weight up to 20 kg (44 lb), height up to 50 cm (19.7 in)
- Additional protection: Microwave sensor to filter composite false alarms sources
- Tampering alarm: Available
- Radio signal power: 20 mW
- Communication protocol: Jeweller (868.0-868.6 MHz)
- Maximum distance between detector and central unit: Up 2,000 m (6,552 ft) (in open area)
- Power supply: CR123A battery
- Power supply voltage: 3 V
- Battery life: Up to 5 years
- Operating temperature range: From 0°C (+32°F) to +50°C (+122°F)
- Operating humidity: Up to 80%
- Dimensions: 110x65x50 mm (4.33x2.55x1.96 in)



Maximum performance

Works up to 2,000 meters from Ajax Hub in open space or across several floors of a business center
Avoids false alarms even in rooms or warehouses with active air conditioners and fireplaces
Detects motion up to 12 meters away
Detects the first step of an intruder
Processes signals digitally



Effortless operation

Adjustable to three different sensitivity levels
Uses our SmartMotion algorithm to avoid false alarms from animals weighing less than 20kg
Eliminates false alarms from gear and electromagnetic interference using a FresnelTech optical component, made from POLY IR4 material and an Excelitas PIR sensor
Filters interference with radio frequency scanning
Works under most conditions due to digital temperature compensation
Two-way communication with Ajax Hub allows for periodic testing and customization

Has a battery life of up to 5 years



Protection from intruders and failure

Uses authentication to protect against fraud
Tampering alarm
Adjustable polling period from 12 seconds
Jamming detection, frequency-hopping
Uses an encrypted connection



Simple professional-level installation

No need to disassemble the body when installing using SmartBracket mounts
The quality of the connection and detection area can be tested remotely
Connects to Ajax Hub with a single click
Can be used with third-party security systems using the uartBridge and ocBridge Plus modules