

MotionProtect Plus Jeweller

Wireless indoor IR motion detector with additional K-band microwave sensor to filter thermal interferences



An Ajax hub is required for operation. Find the detailed information on the device by the link:

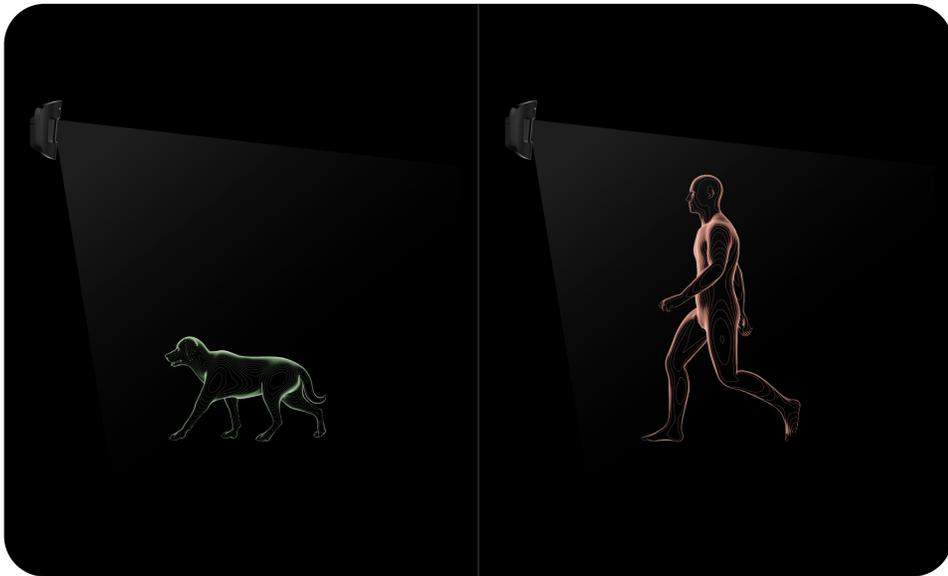
<http://ajax.systems/support/devices/motionprotect-plus/>

Key features

- Up to 12 m detection distance with 88.5°/80° viewing angles
- Temperature compensation
- False alarms prevention algorithm
- Remote control and setup via the app
- Up to 5 years of operation on pre-installed battery
- Pet immunity
- Thermal interference filter with additional K-band microwave sensor
- Effortless installation and replacement
- Connecting via QR code
- Up to 1,700 m of two-way encrypted wireless communication between hub or range extender and detector

False alarm prevention

MotionProtect Plus Jeweller combines special optics, additional K-band microwave sensor, and software to filter false alarms. When professionally installed, the detector ignores pets and doesn't react to the most common sources of false alarms.

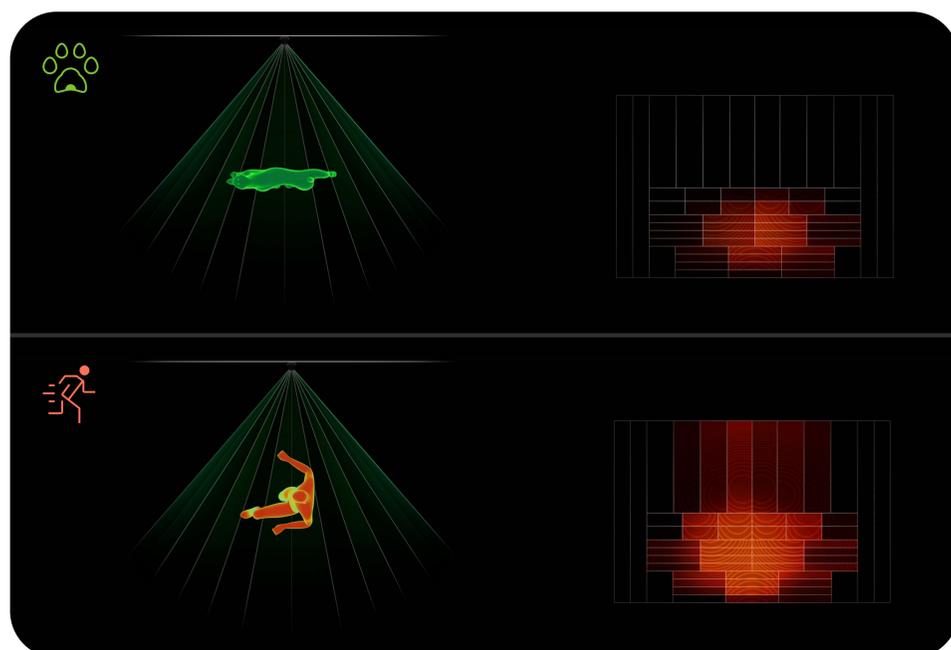


Optics

The detector lens increases sensitivity to human motion, cutting off false alarms to other sources of IR radiation. It is designed so that potential IR radiation from pets and other interferences affect only the small lens sections. Large sections, on the contrary, are aimed at the most likely places of burglar motion.

Hardware

MotionProtect Plus Jeweller features an additional K-band microwave sensor. When the device detects motion, it conducts an RF scan of the facility to eliminate false alarms due to thermal interference: air flows, heated by the sun curtains and blinds, fans, fireplaces, air conditioners, and other likely sources of false alarms.

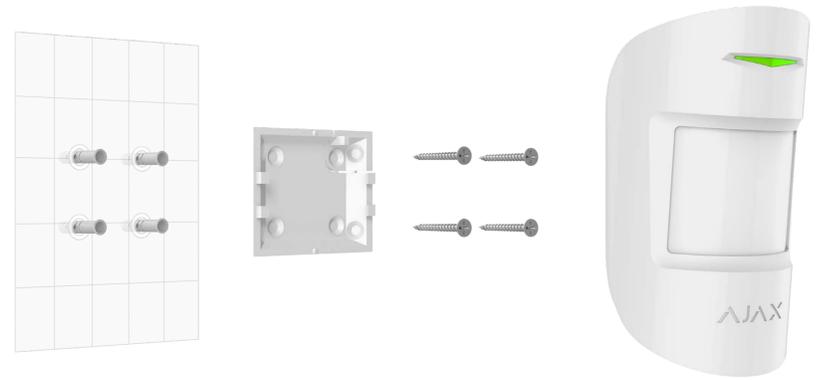


Software

For additional protection against false alarms, the detector uses the SmartDetect algorithm. The armed detector constantly analyses the thermal diagram from the PIR sensor: the intensity of IR radiation, the size of the thermal spots, the speed of movement and other parameters.

Installation

When properly installed and configured, the detector does not react to common sources of false alarms and animals under 50 cm tall and 20 kg in weight. For seamless installation, it has pre-installed batteries and the SmartBracket mounting panel. So, installers don't need to disassemble the detector and won't damage the electronics during installation.



Jeweller

communication technology



Jeweller is a **two-way wireless data transfer protocol** that provides fast and reliable communication between hubs and devices. The protocol delivers instant data-rich alarms: security companies and users know which device was triggered, when and where it happened.

Jeweller features **encryption** and **authentication** to prevent forgery, and **polling** to display devices' status in real time. Supporting **up to 1,200 m** of wireless connectivity, Jeweller is ready to protect facilities and deliver **the best user experience** for both end users and installers.

Technical specifications

Communication with control panel	EN 50131 (Grade 2) PD 6662:2017 UL369, ULC S306	Compatibility	Hubs all Ajax hubs Range extenders all Ajax radio signal range extenders
Communication with control panel	 Jeweller communication technology	Motion detection	Sensitive element 1 × PIR sensor 1 × K-band microwave sensor

<p>Communication with control panel</p> <p>Frequency bands 866.0 – 866.5 MHz 868.0 – 868.6 MHz 868.7 – 869.2 MHz 905.0 – 926.5 MHz 915.85 – 926.5 MHz 921.0 – 922.0 MHz Depends on the region of sales</p> <p>Maximum effective radiated power (ERP) ≤ 20 mW</p> <p>Communication range up to 1,200 m In an open space</p> <p>Polling interval 12–300 s Adjusted by PRO or user with admin rights in the Ajax app</p> <p>Protection against forgery Device authentication</p>	<p>Motion detection</p> <p>Detection distance up to 12 m When installed at 2.4 meters height</p> <p>Detection angles horizontal – 88.5° vertical – 80°</p> <p>Motion detection speed from 0.3 to 2.0 m/s The direction of the detector lens should be perpendicular to an alleged intrusion path into the facility.</p> <p>Temperature compensation</p> <p>Sensitivity 3 levels Adjusted by PRO or user with admin rights in the Ajax app</p> <p>Pet immunity weight: up to 20 kg height: up to 50 cm SmartDetect software algorithm filtering false alarms</p>
<p>Power supply</p> <p>Battery 1 x CR123A, 3 V (pre-installed)</p> <p>Battery life up to 5 years</p>	<p>Installation</p> <p>Recommended installation height 2.4 m</p> <p>Operating temperature range from –10°C to +40°C</p> <p>Operating humidity up to 75%</p> <p>Protection class IP50</p>

Casing	Colour white, black Dimensions 110 × 65 × 50 mm Weight 96 g Tampering alarm	Complete set	MotionProtect Plus Jeweller 1 x CR123A (pre-installed) SmartBracket Installation kit Quick Start Guide
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