



Superior product line

# MotionProtect S

Jeweller

Wireless indoor IR motion detector



2  
GRADE  
EN 50131

PD 6662  
2017

SOON  
INCERT

SOON  
SSF

SOON  
NFA2P

## What's new

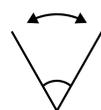
Baseline <b>MotionProtect Jeweller</b>	Superior <b>MotionProtect S Jeweller</b>
SmartBracket mounting panel without screw	<b>SmartBracket mounting panel with screw</b>
Common battery	<b>Enhanced battery</b>
Glossy enclosure	<b>Matte enclosure</b>
Available for all PROs	<b>Available only for accredited partners</b>

This is the device of the **Superior product line**. Superior products are advanced versions of the Jeweller devices. This product line is developed for projects. Only accredited Ajax Systems partners can sell, install, and administer Superior products.

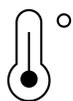
# Key features



Detection range of up to 12 m<sup>1</sup>



88.5° horizontal angle



Temperature compensation



Pet immunity



SmartDetect algorithm to prevent false alarms



Effortless installation and replacement



Remote control and configuration in the app



Pairing with a hub via QR code



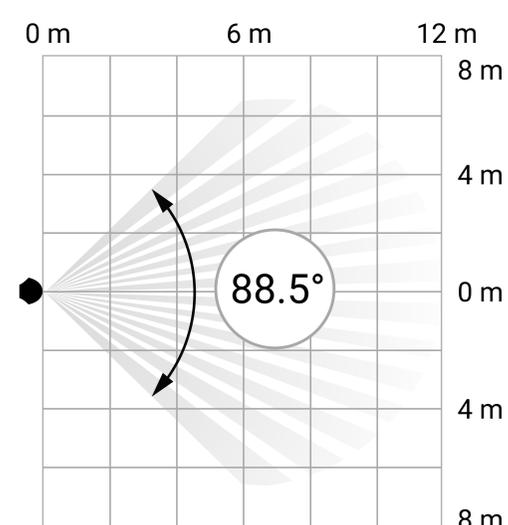
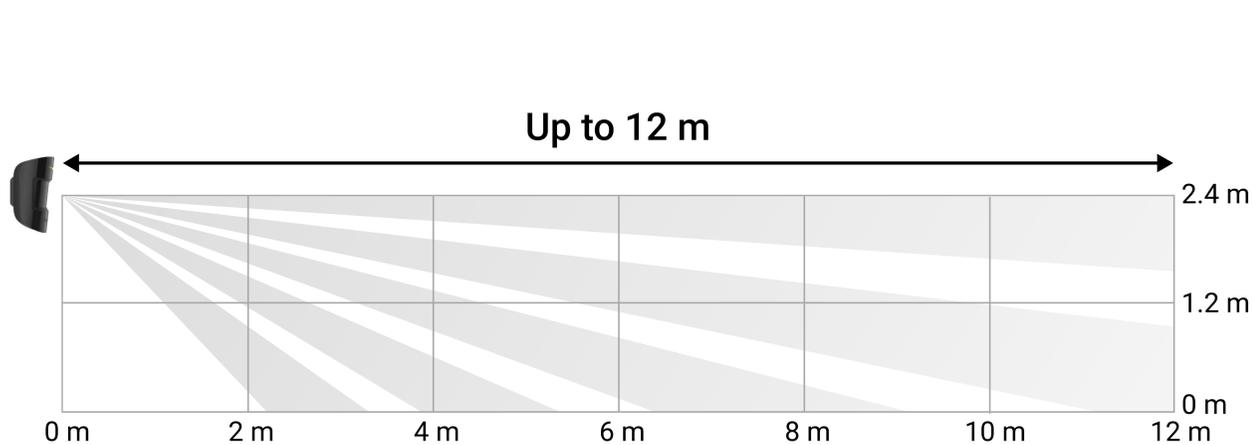
Up to 5 years of operation with pre-installed Panasonic battery

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

[ajax.systems/support/devices/motionprotect-s/](https://ajax.systems/support/devices/motionprotect-s/)

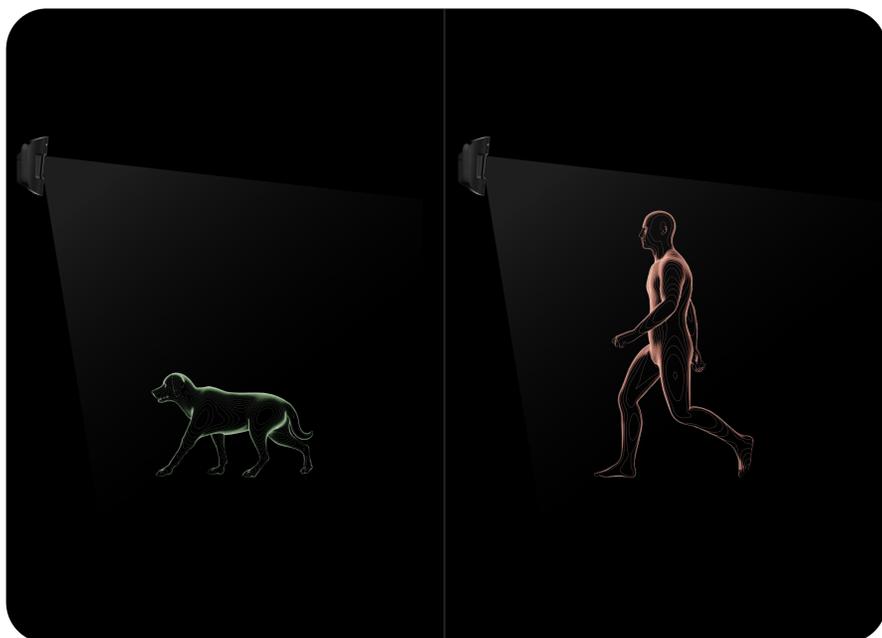


## Motion detection range<sup>1</sup> and viewing angles



<sup>1</sup> – according to INCERT certification, detection range is up to 10 m (high sensitivity).

# False alarm prevention

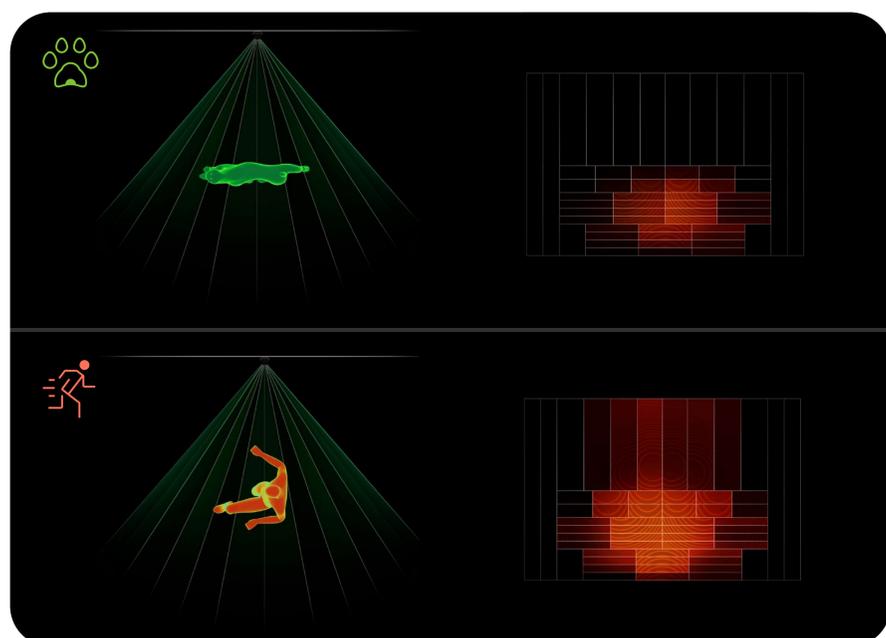


## Optics

The detector lens is highly sensitive to human motion, cutting off false alarms caused by other sources of IR radiation. The lens is designed so that potential IR radiation from pets and other interferences affect only the small lens sections. Large sections, on the contrary, are focused on the most likely places of burglar motion.

## Installation

When properly installed and configured, the detector does not react to common sources of false alarms and pets weighing up to 20 kg and below 50 cm in height. For seamless installation, it has pre-installed Panasonic battery and the SmartBracket mounting panel with a screw on the bottom. So, installers don't need to disassemble the detector, and electronics will not be damaged during installation.



## Software

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

# Flawless autonomy

MotionProtect S Jeweller is entirely autonomous, as it works on the pre-installed Panasonic battery. The Panasonic company proves to be an expert and professional in batteries that can significantly enhance the devices' reliability and overall battery life. Thanks to that, the device works for up to 5 years. The app will notify the installer a few months before the battery is fully discharged, so you have time to change it.



Up to 5 years of battery life



Notifications on low battery

# Encrypted two-way communication



Jeweller radio protocol provides **fast and reliable** two-way communication between the hub and connected 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 spoofing, and **polling** to monitor devices' statuses. Supporting up to 1,200 m of wireless connectivity, Jeweller is ready to protect facilities and deliver the **best user experience** for both system owners and installers.

# Sabotage resistance



Tamper alarm



Device authentication to prevent spoofing



Jamming detection



Holding screw to secure the device on SmartBracket

# Quick installation and start-up



## Easy to mount

Installing MotionProtect S Jeweller won't take much time. Using the SmartBracket panel, an installer can securely mount the device on the wall or in a corner without disassembling the detector's enclosure. An installer won't damage the hardware during installation, and the screw on the bottom of the device helps to make it safe.

## Quick pairing process

To pair MotionProtect S Jeweller with the hub, scan the QR code or enter the device ID manually using the desktop or mobile PRO app. An installer only needs to name the detector and assign it to the room and security group.



## Remote configuration

Intuitive Ajax apps provide remote set-up and all detector information from anywhere the Internet is available, on a smartphone or PC. An installer can remotely change the settings and provide services in time. No need to visit the facility.

Superior, Fibra, and Baseline product lines are mutually compatible. This opens up numerous possibilities for building systems of any configuration.

## Technical specifications

<p>Compliance with standards</p> <p><b>EN 50131-2-2 (Grade 2)</b>  <b>PD 6662:2017</b>  <b>INCERT</b> (coming soon)  <b>SSF</b> (coming soon)  <b>NFA2P</b> (coming soon)</p>	<p>Compatibility</p> <p><b>Hubs</b>  <b>Hub Plus</b>  <b>Hub 2 (2G)</b>  <b>Hub 2 (4G)</b>  <b>Hub 2 Plus</b>  <b>Hub Hybrid (2G)</b>  <b>Hub Hybrid (4G)</b></p> <p><b>Range extenders</b>  <b>ReX</b>  <b>ReX 2</b></p>
<p>Communication with control panel</p> <p> <b>Jeweller communication technology</b></p> <p><b>Frequency bands</b>  868,0 – 868,6 MHz</p> <p><b>Maximum effective radiated power (ERP)</b>  ≤ 20 mW</p> <p><b>Communication range</b>  up to 1,200 m  In an open space</p> <p><b>Polling interval</b>  <b>12–300 s</b>  Adjusted by PRO or user with admin rights in the Ajax app</p> <p><b>Protection against spoofing</b>  <b>Device authentication</b></p>	<p>Motion detection</p> <p><b>Sensitive element</b>  1 × PIR sensor</p> <p><b>Detection distance</b>  <b>up to 12 m<sup>1</sup></b>  When installed at a height of 2.4 m</p> <p><b>Detection angles</b>  <b>horizontal – 88.5°</b></p> <p><b>Motion detection speed</b>  <b>from 0.3 to 2.0 m/s</b>  The direction of the detector lens should be perpendicular to an alleged intrusion path into the facility</p> <p><b>Temperature compensation</b></p> <p><b>Sensitivity</b>  <b>3 levels</b>  Adjusted by PRO or user with admin rights in the Ajax app</p> <p><b>Pet immunity</b>  <b>weight: up to 20 kg</b>  <b>height: up to 50 cm</b></p>

1 – according to INCERT certification, detection range is up to 10 m (high sensitivity).

<p>Power supply</p> <p><b>Battery</b> 1 x CR123A Pre-installed</p> <p><b>Battery life</b> up to 5 years</p> <p><b>Manufacturer</b> Panasonic</p>	<p>Installation</p> <p><b>Recommended installation height</b> 2.4 m</p> <p><b>Operating temperature range</b> from -10°C to +40°C</p> <p><b>Operating humidity</b> up to 75%</p> <p><b>Protection class</b> IP50</p>
<p>Enclosure</p> <p><b>Colour</b> white black</p> <p><b>Dimensions</b> 110 × 65 × 50 mm</p> <p><b>Weight</b> 97 g</p> <p><b>Tamper alarm</b></p>	<p>Complete set</p> <p><b>MotionProtect S Jeweller</b> 1 x CR123A (pre-installed) <b>SmartBracket</b> <b>Installation kit</b> <b>Quick start guide</b></p>