

Superior product line

MotionProtect S

 Jeweller

Wireless indoor IR motion detector



2
GRADE
EN 50131

PD 6662
2017

INCERT

SSF


NFA2P

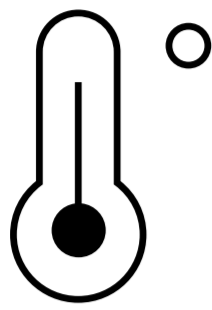
What's new


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


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.

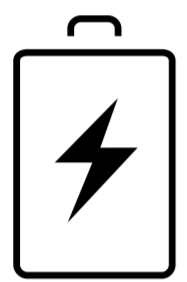
Key features

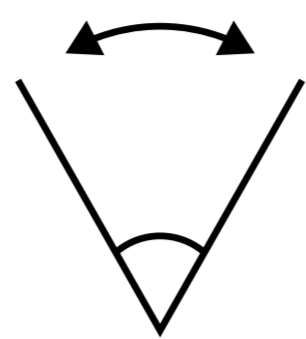
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Detection range of up to 12 m¹
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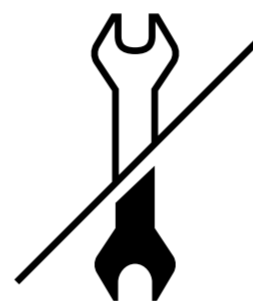
Temperature compensation
- 

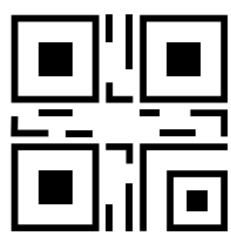
SmartDetect algorithm to prevent false alarms
- 

Remote control and configuration in the app
- 

Up to 5 years of operation with pre-installed Panasonic battery
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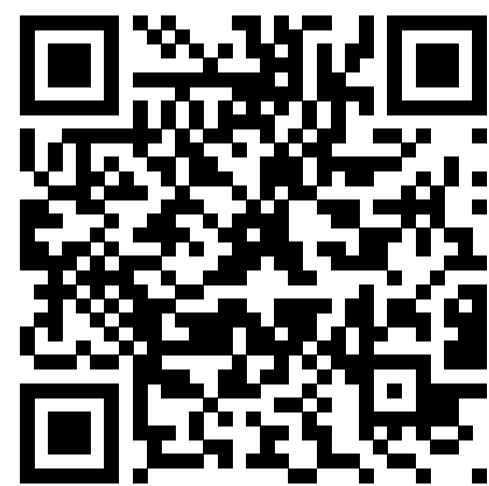
88.5° horizontal angle
- 

Pet immunity
- 

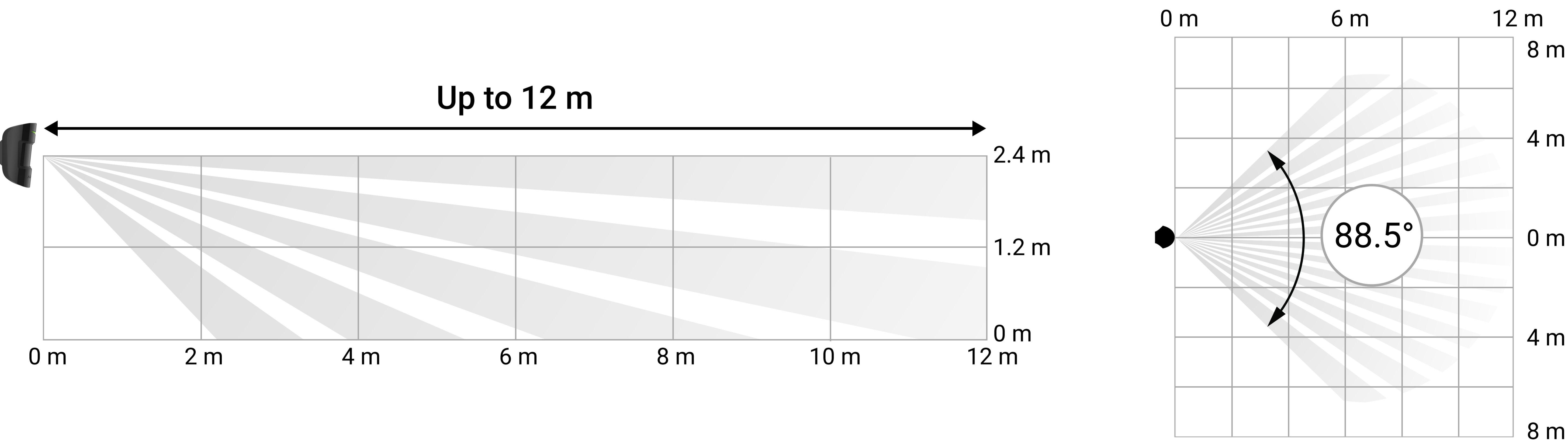
Effortless installation and replacement
- 

Pairing with a hub via QR code

An Ajax hub is required for operation. Find the detailed information on the device by the link: ajax.systems/support/devices/motionprotect-s/

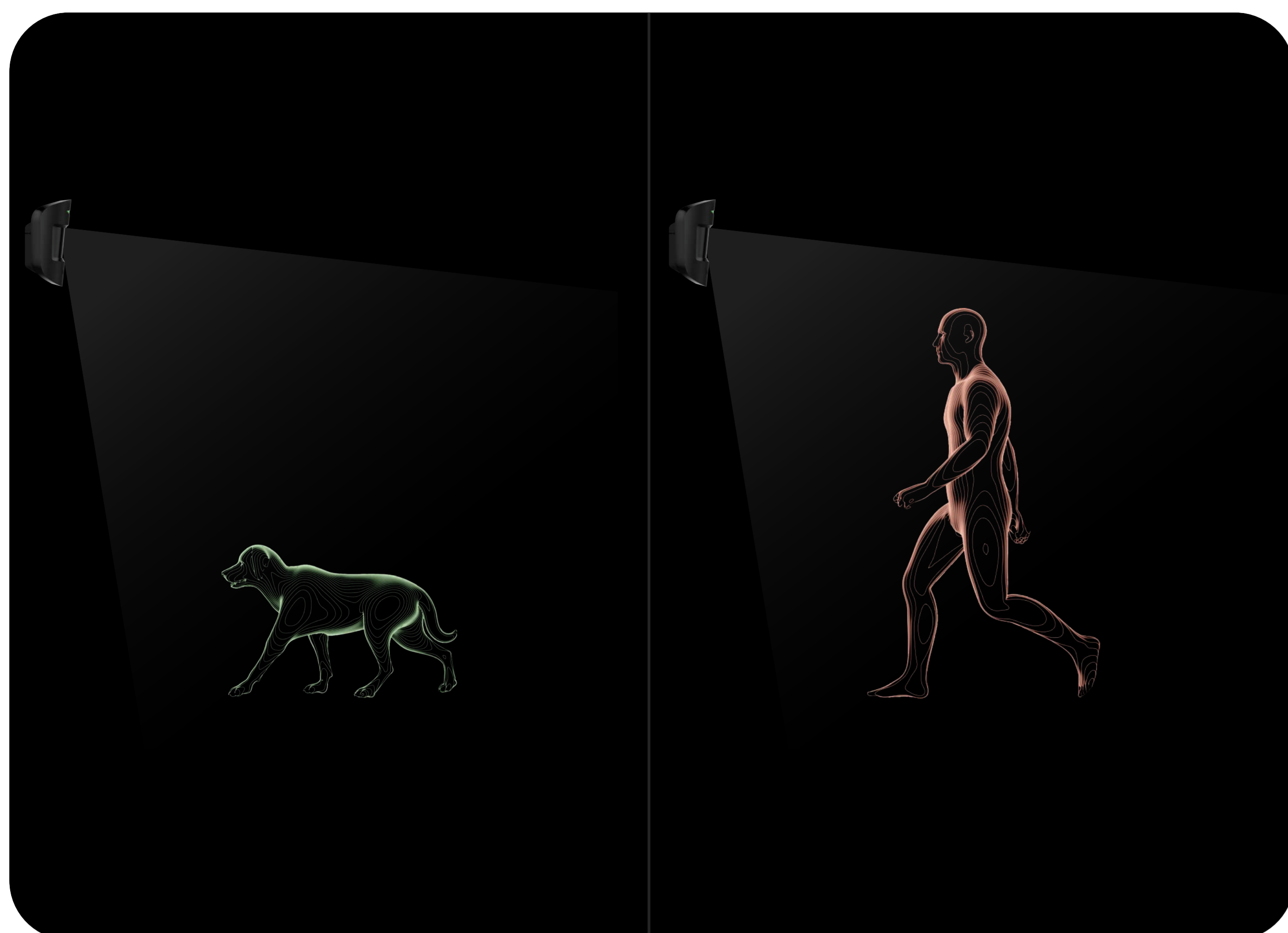


Motion detection range¹ and viewing angles



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

False alarm prevention

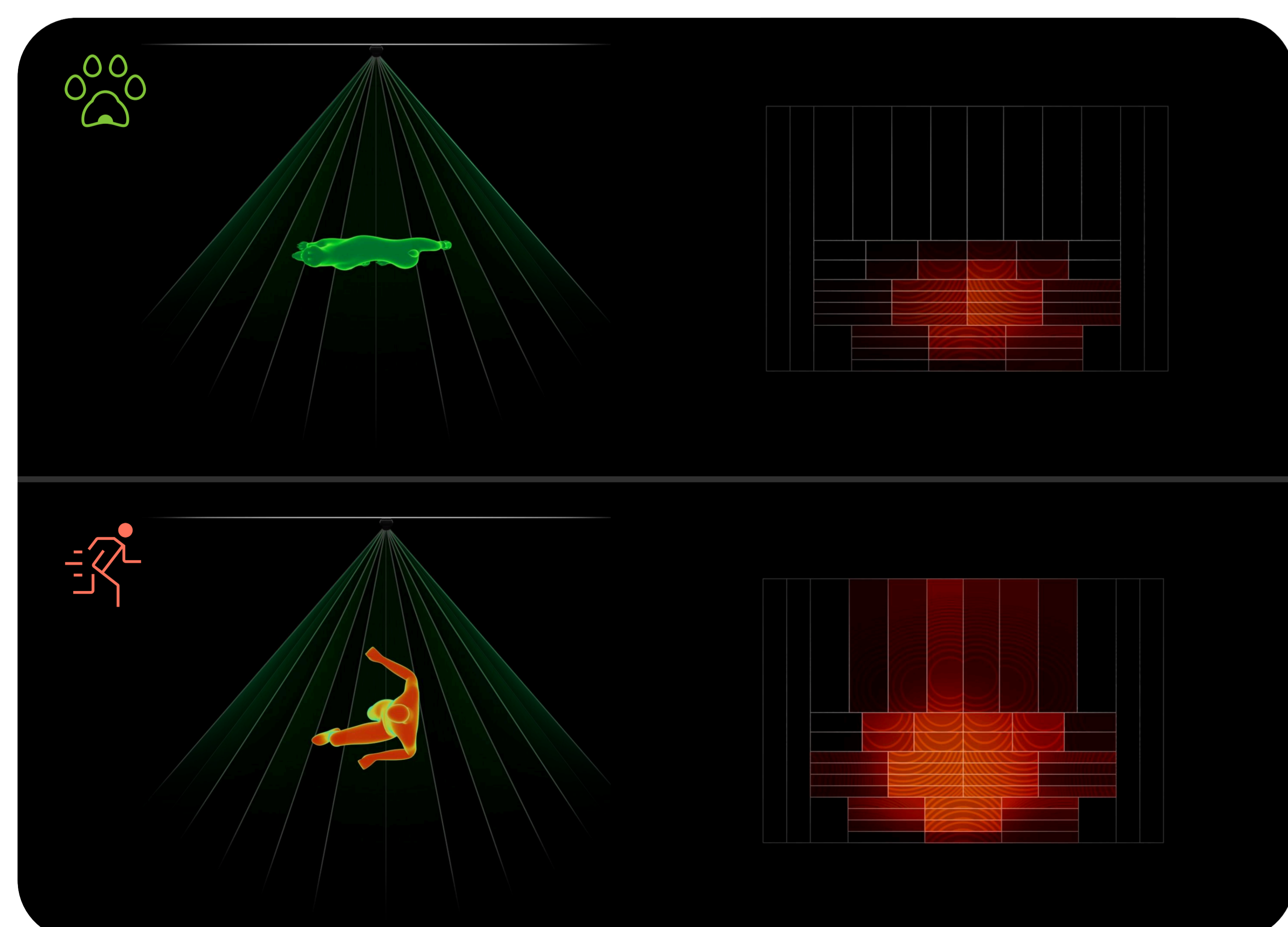


Optics

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.

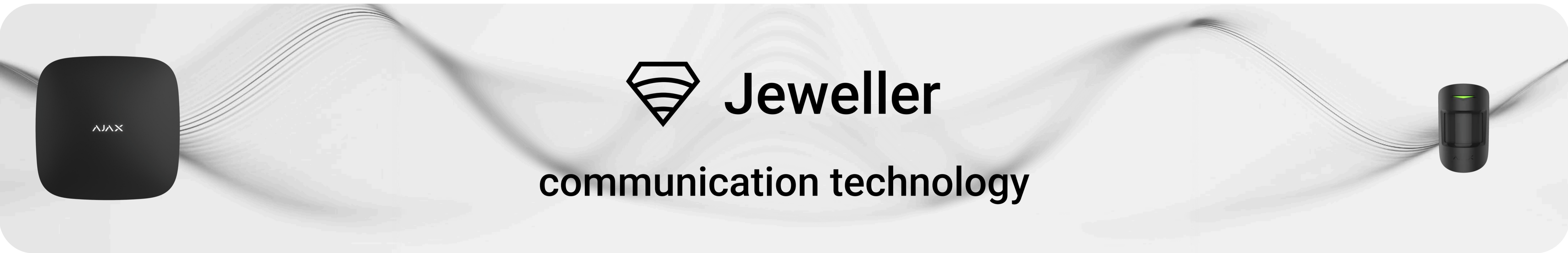
Flawless autonomy

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

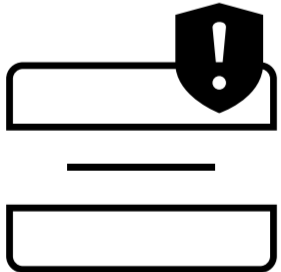
Encrypted two-way communication





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.

Technical specifications

Compliance with standards	<div>EN 50131-2-2 (Grade 2)</div> <div>PD 6662:2017</div> <div>INCERT</div> <div>SSF</div> <div>NFA2P</div>	Compatibility	<div>Hubs</div> <div>Hub Plus</div> <div>Hub 2 (2G)</div> <div>Hub 2 (4G)</div> <div>Hub 2 Plus</div> <div>Hub Hybrid (2G)</div> <div>Hub Hybrid (4G)</div> <div>Range extenders</div> <div>ReX</div> <div>ReX 2</div>
Communication with control panel	<div> Jeweller communication technology</div> <div>Frequency bands</div> <div>868,0 – 868,6 MHz</div> <div>Maximum effective radiated power (ERP)</div> <div>≤ 20 mW</div> <div>Communication range</div> <div>up to 1,200 m</div> <div>In an open space</div> <div>Polling interval</div> <div>12–300 s</div> <div>Adjusted by PRO or user with admin rights in the Ajax app</div> <div>Protection against spoofing</div> <div>Device authentication</div>	Motion detection	<div>Sensitive element</div> <div>1 × PIR sensor</div> <div>Detection distance</div> <div>up to 12 m¹</div> <div>When installed at a height of 2.4 m</div> <div>Detection angle</div> <div>horizontal – 88.5°</div> <div>Motion detection speed</div> <div>from 0.3 to 2.0 m/s</div> <div>The direction of the detector lens should be perpendicular to an alleged intrusion path into the facility</div> <div>Temperature compensation</div> <div>Sensitivity</div> <div>3 levels</div> <div>Adjusted by PRO or user with admin rights in the Ajax app</div> <div>Pet immunity</div> <div>weight: up to 20 kg</div> <div>height: up to 50 cm</div>

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

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