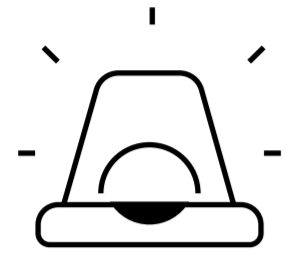
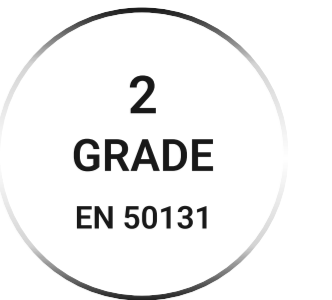




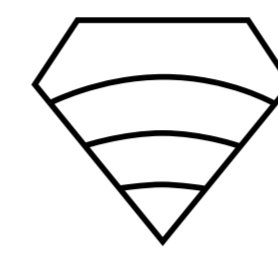
Baseline product line

Hub (2G) Jeweller

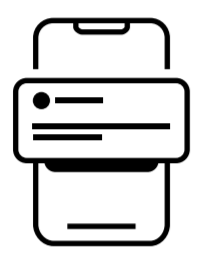
Control panel with Jeweller support (1 × SIM 2G, Ethernet)



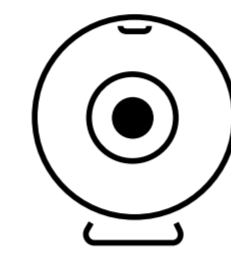
Connection to the security company's CMS



Wireless communication with Ajax devices up to a distance of 2,000 m



Informing users via push notifications, calls, and SMS




Integration with cameras and NVRs

Hub (2G) Jeweller supports 2G networks only. In regions where 2G networks are not available, you can use the Hub (4G) Jeweller control panel, which supports 2G and 4G (LTE) networks.

Instant alarm transmission

To ensure swift alarm transmission to security companies and users, Hub (2G) Jeweller features two communication channels — Ethernet and SIM card on 2G networks. Operating in parallel, these channels seamlessly switch in seconds, providing an always-online assurance for uninterrupted communication.



 **Jeweller**
communication technology



The Ajax system uses secure two-way radio communication based on the Jeweller proprietary protocol. It ensures a communication range of up to 2,000 m between the hub and connected devices, using time frames for synchronization, authentication to prevent spoofing, and encryption for data theft protection.

Jeweller uses polling to display real-time device status in the Ajax apps. Automatic power adjustment ensures energy efficiency by avoiding the constant use of maximum power in system devices' radio transmitters.

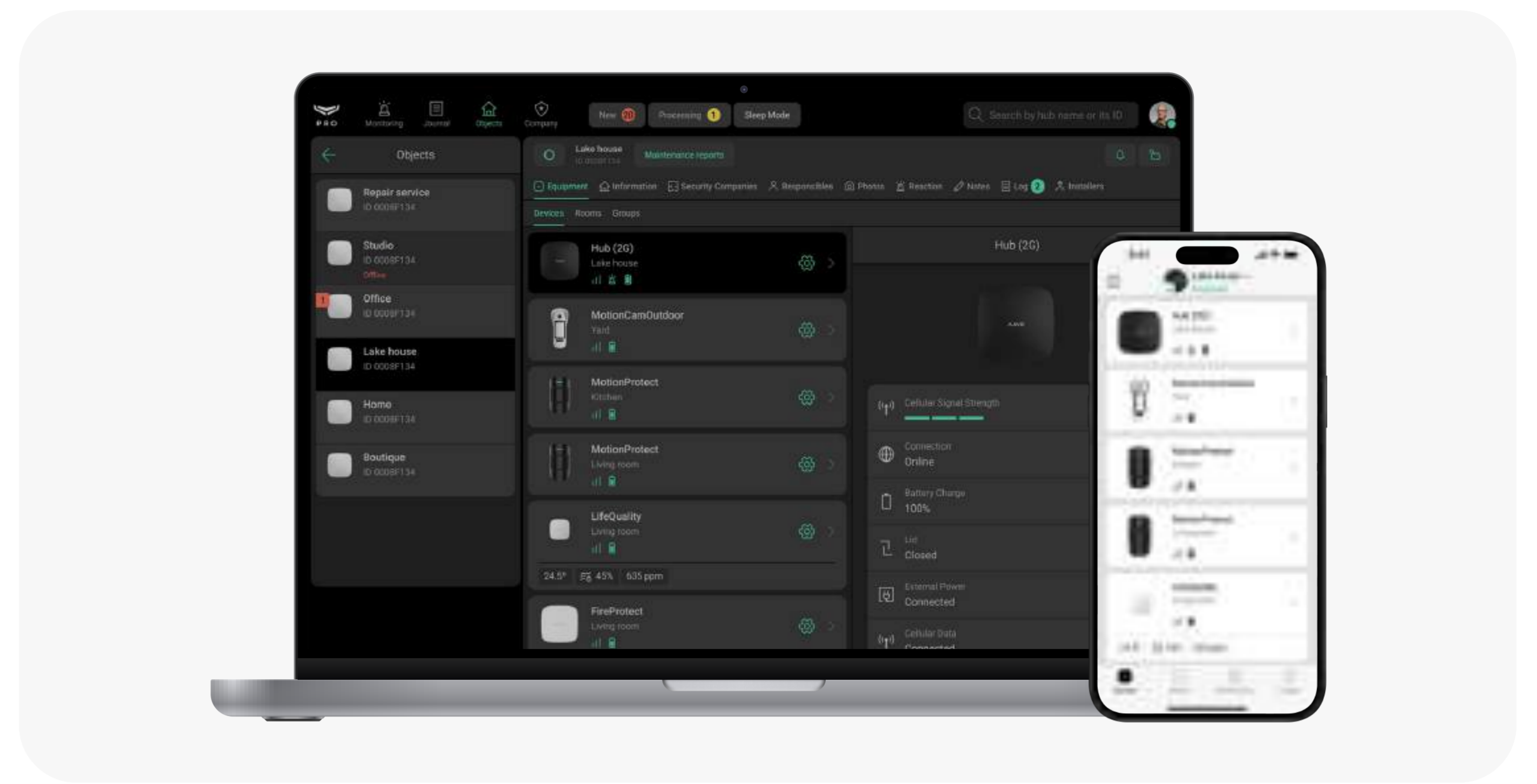
Up to 2,000 m of radio communication in an open space

Encrypted two-way radio communication

Notifications about jamming and connection loss

Always connected

The Ajax Cloud server boasts a 99.99% availability rate to maintain a constant connection between the hub, Ajax apps and CMS. The internet is all you need to configure the hub and monitor security system's information. It is easy to do it remotely, with no on-site visits.



Built-in backup battery ensures up to **15 hours** of autonomous operation

Detecting lost connection with devices in **36 seconds**

Detecting lost connection with Ajax Cloud in **1 minute**

Tamper alarm and frequency hopping

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

Compliance with standards	Communication with Ajax devices	Communication channels	Features
<p>EN 50131 (Grade 2) PD 6662:2017 NIST (AES-128)</p>	<p>Jeweller communication technology</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 sales region</p> <p>Communication range up to 2,000 m In an open space</p>	<p>Ethernet 8P8C slot Up to 100 Mb/s</p> <p>Cellular network 1 slot for micro SIM 2G (GSM900/DCS1800 (B3/B8))</p>	<p>100 wireless Ajax devices (including 1 range extender and up to 10 sirens) 50 users 200 cameras (connected to Ajax NVRs) 14 Ajax NVRs 5 automation scenarios 9 security groups</p>
<p>Power supply</p> <p>Main 100–240 V~, 50/60 Hz</p> <p>Backup Li-Ion battery with 2 Ah capacity Up to 15 hours of autonomous operation</p>	<p>Enclosure</p> <p>Color white black</p> <p>Dimensions 163 × 163 × 36 mm</p> <p>Weight 350 g</p>	<p>Installation</p> <p>Operating temperature range from -10 °C to +40 °C</p> <p>Operating humidity up to 75%</p>	<p>Complete set</p> <p>Hub (2G) Jeweller Power cable Ethernet cable SIM card Depends on the sales region Installation kit Quick start guide</p>



For detailed information, scan the QR code or follow the link:
ajax.systems/support/devices/hub/

- ✉ support@ajax.systems
- 📍 @AjaxSystemsSupport_Bot
- 🌐 ajax.systems

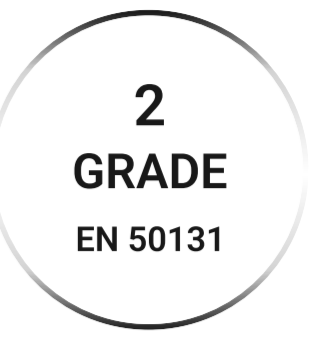
MotionProtect Jeweller

Wireless indoor IR motion detector.



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

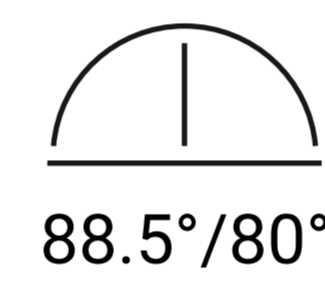
<http://ajax.systems/support/devices/motionprotect/>



Key features



Up to 12 m detection distance



88.5°/80° viewing angles



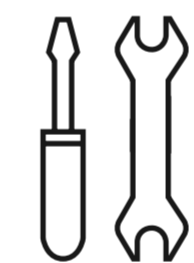
Pet immunity



Temperature compensation



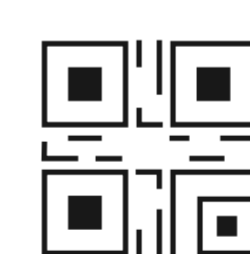
False alarms prevention algorithm



Effortless installation and replacement

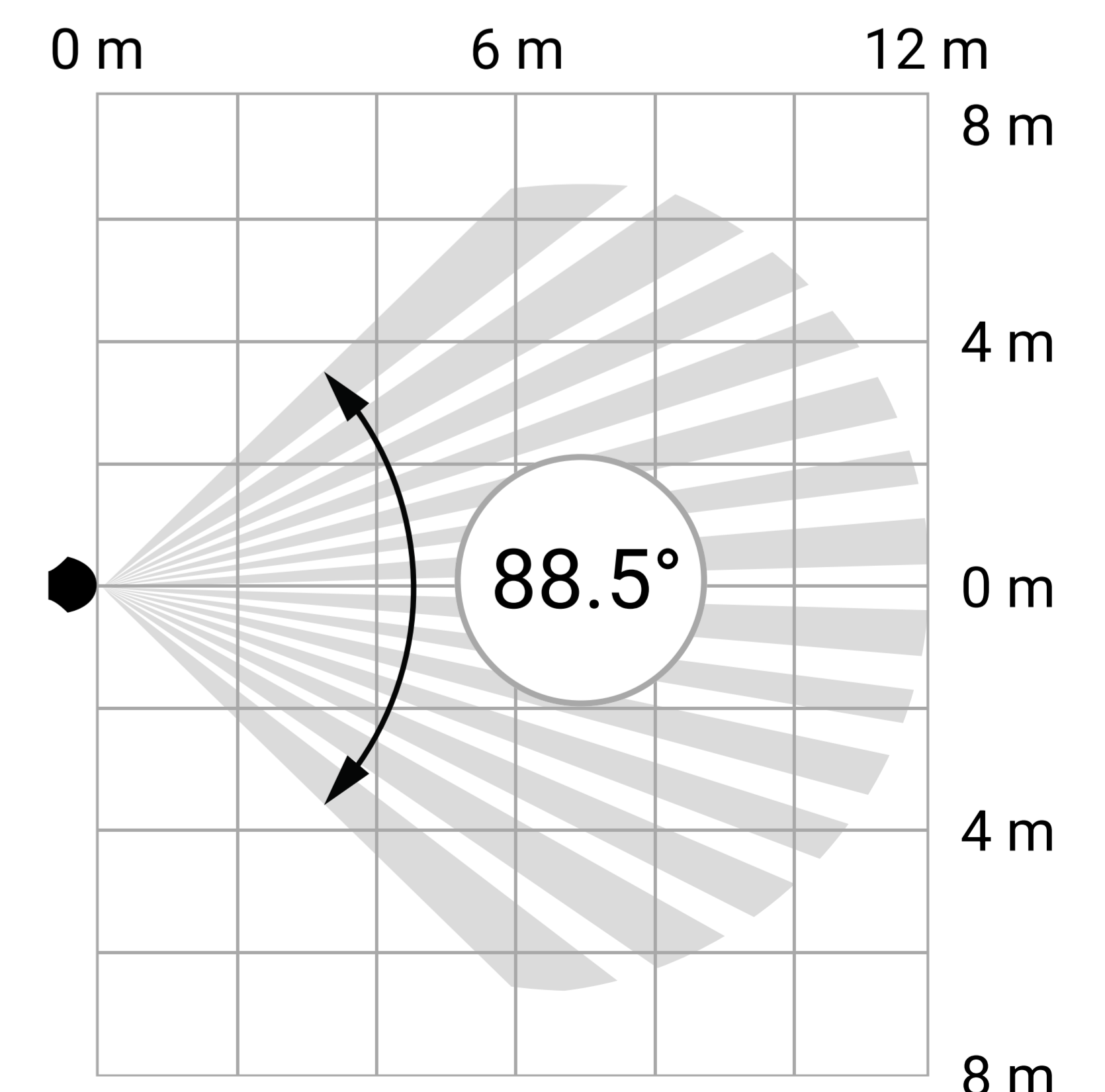
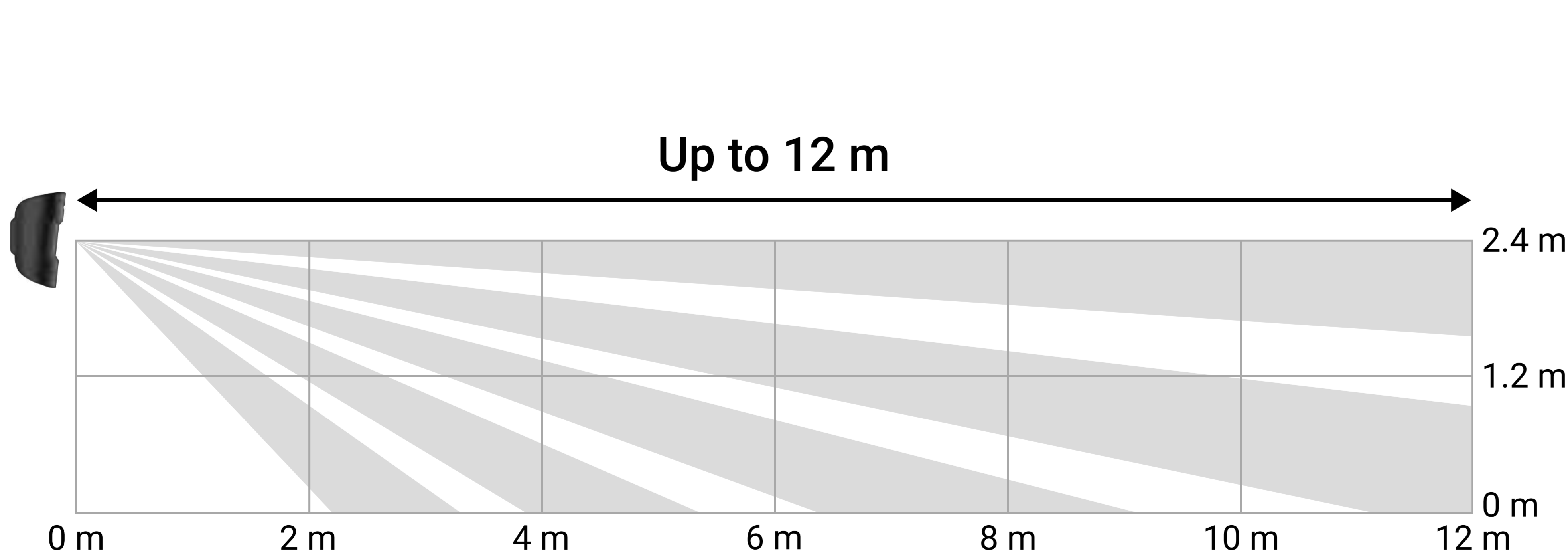


Remote control and setup via the app



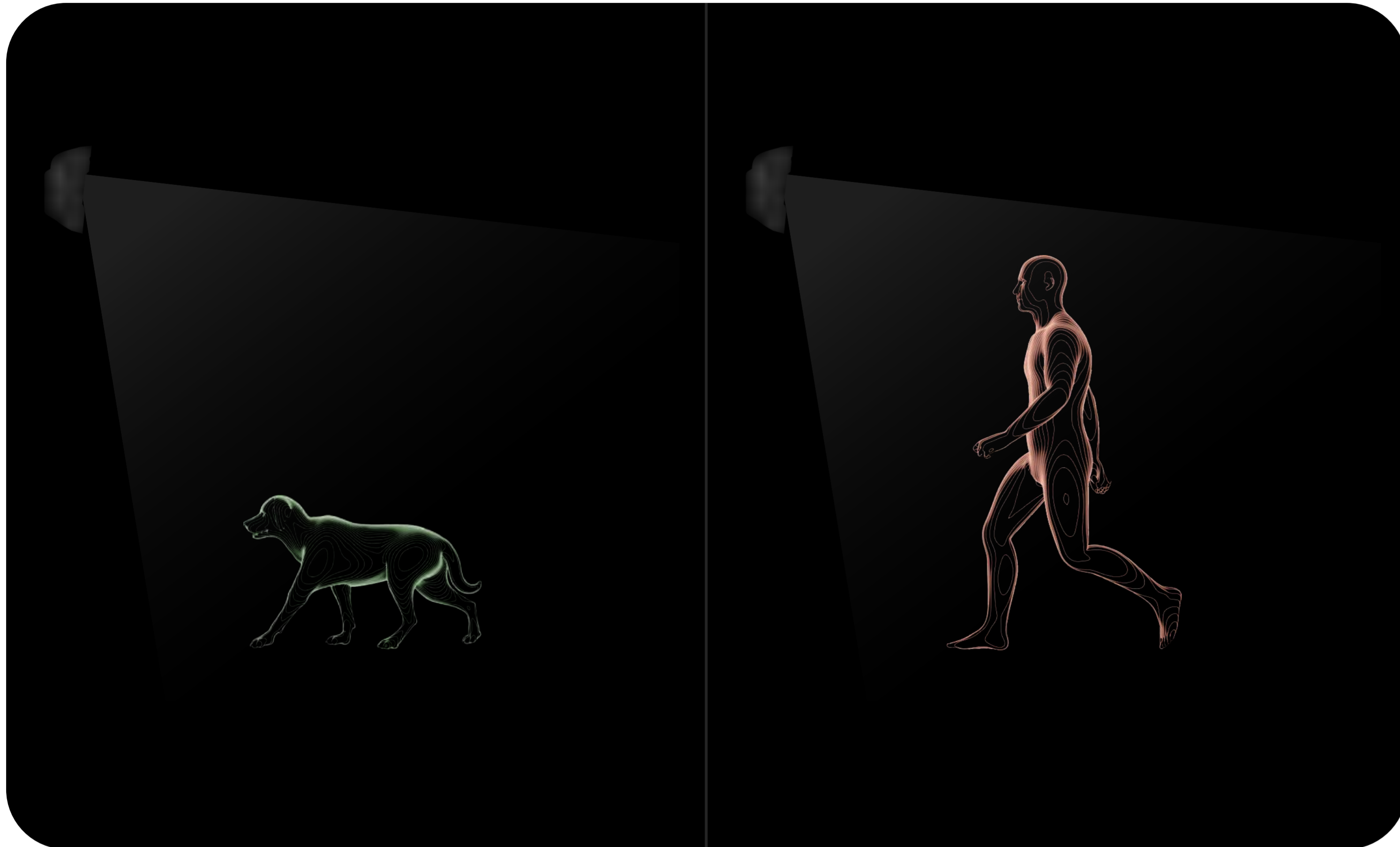
Connecting via QR code

Angles and range



False alarm prevention

MotionProtect Jeweller combines special optics 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.

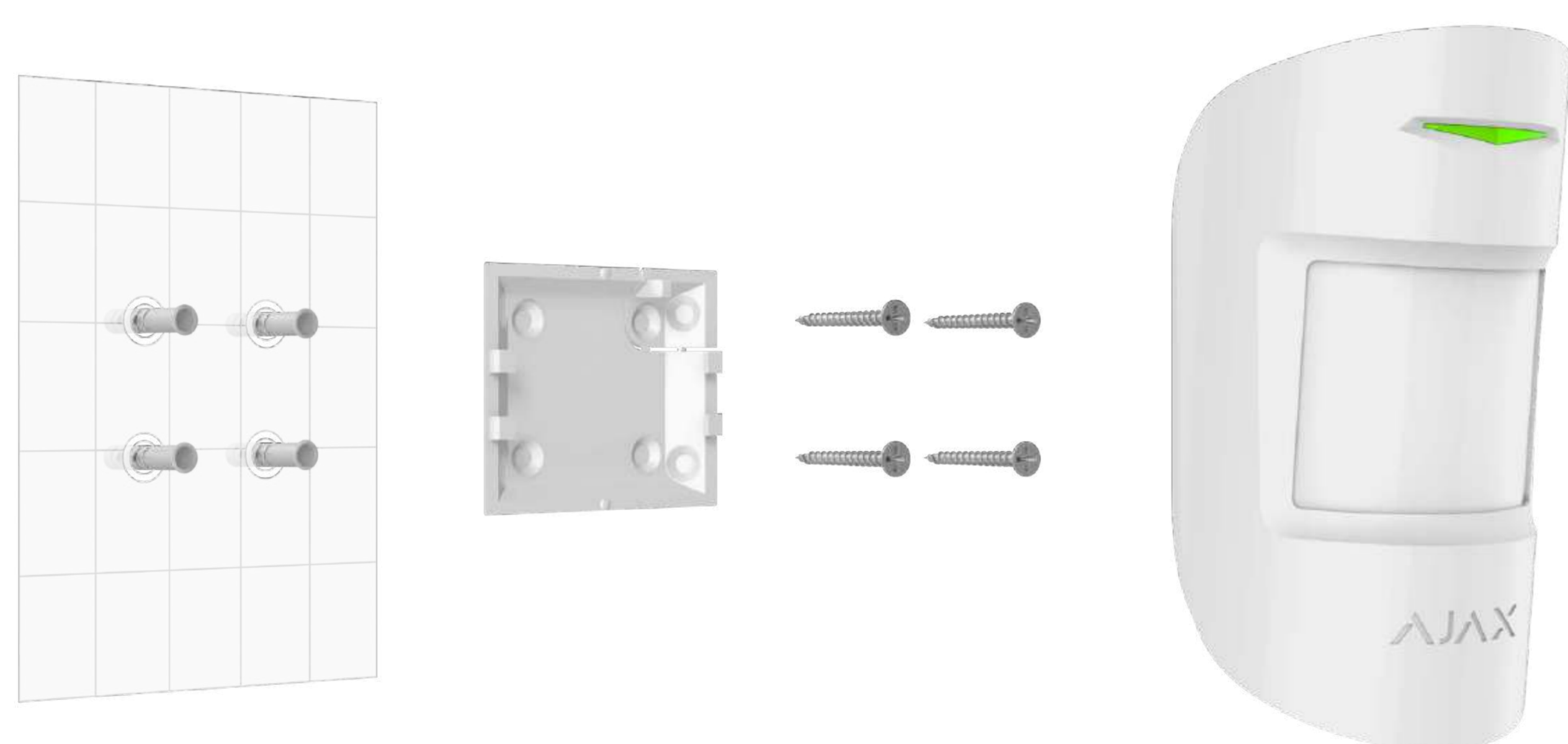
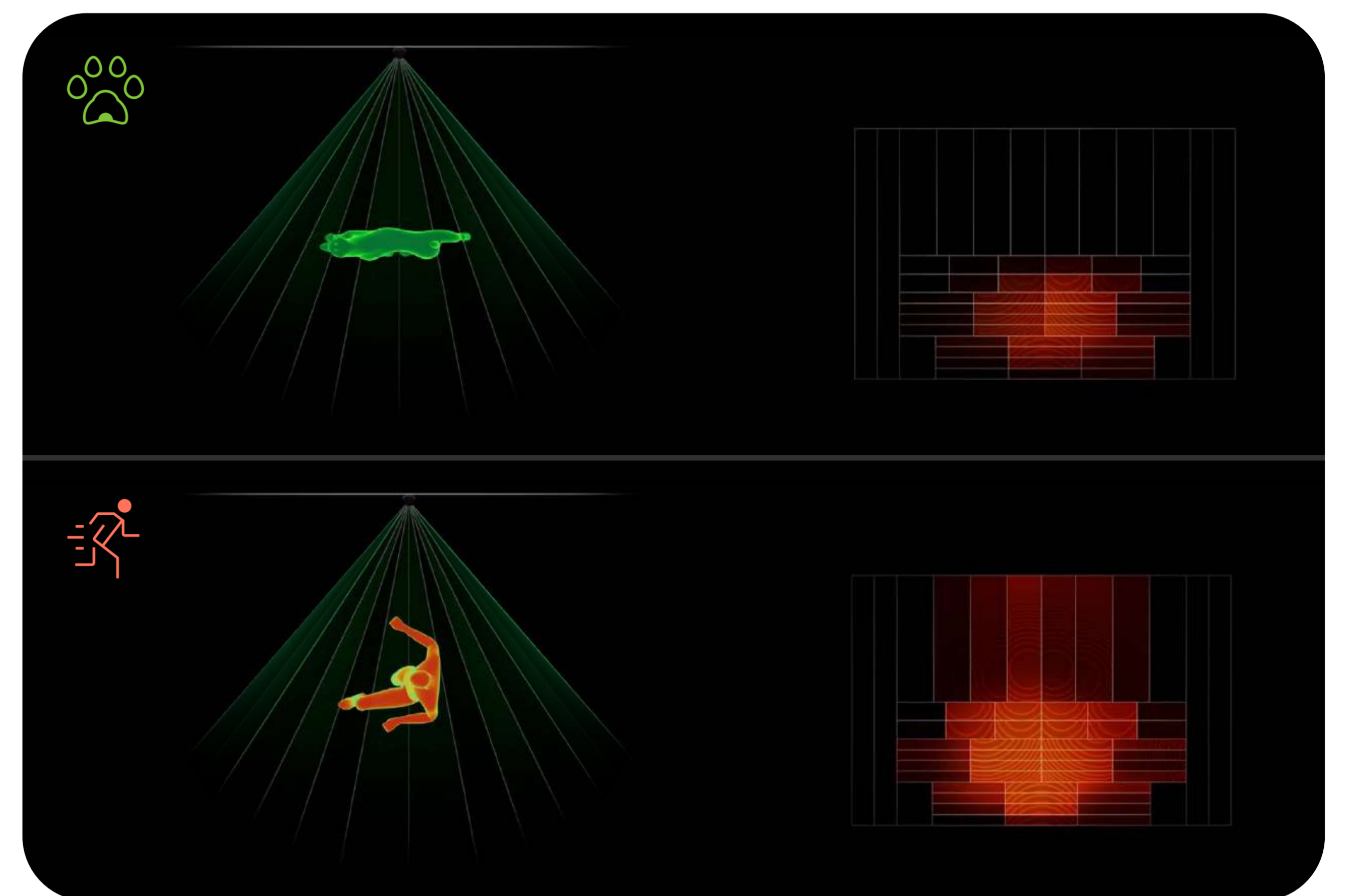


Optics

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.

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 pets 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.



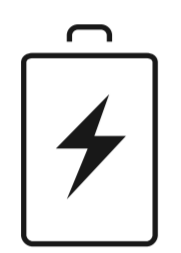
Jeweller

communication technology

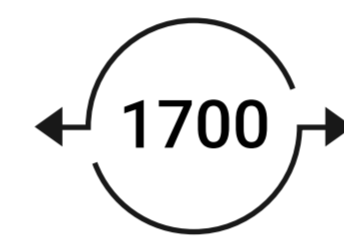


Jeweller is a **two-way wireless protocol** that provides fast and reliable communication between hubs and devices. The protocol delivers instant data-rich alarms: security companies and users know which device was triggered, when and where it happened.

Jeweller features **encryption** and **authentication** to prevent forgery, and **polling** to display devices' status in real time. Supporting **up to 1,700 m** of wireless connectivity, Jeweller is ready to protect facilities and deliver **the best user experience** for both end users and installers.




Up to 5 years of operation on pre-installed battery

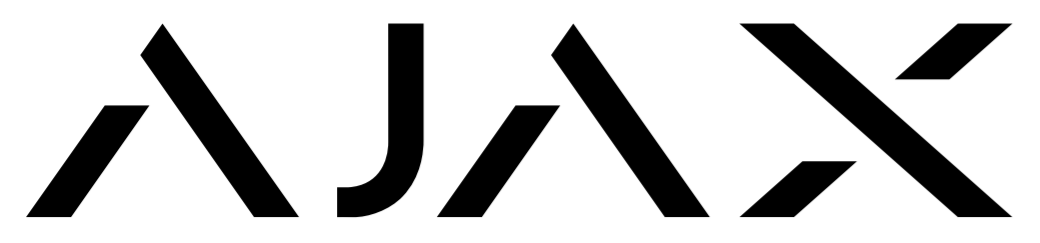


Up to 1,700 m of two-way encrypted wireless communication between hub and detector

Technical specifications

<p>Compliance with standards</p> <p>EN 50131 (Grade 2) PD 6662:2017 UL369, ULC S306</p>	<p>Compatibility</p> <p>Hubs all Ajax hubs</p> <p>Range extenders all Ajax radio signal range extenders</p>
<p>Communication with control panel</p> <p> Jeweller communication technology</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>Motion detection</p> <p>Sensitive element 1 × PIR sensor</p> <p>Detection distance up to 12 m When installed at a height of 2.4 m</p> <p>Detection angles horizontal – 88.5° vertical – 80°</p>

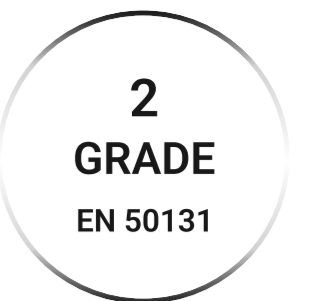
<p>Communication with control panel</p> <p>Maximum effective radiated power (ERP) ≤ 20 mW</p> <p>Communication range up to 1,700 m In an open space</p> <p>Polling interval 12–300 s Adjusted by PRO or user with admin rights in the Ajax app</p> <p>Protection against forgery Device authentication</p>	<p>Motion detection</p> <p>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</p>
<p>Power supply</p> <p>Battery 1 x CR123A 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>
<p>Enclosure</p> <p>Colour white, black</p> <p>Dimensions 110 × 65 × 50 mm</p> <p>Weight 86 g</p> <p>Tampering alarm</p>	<p>Complete set</p> <p>MotionProtect Jeweller 1 x CR123A Pre-installed SmartBracket Installation kit Quick Start Guide</p>



Baseline product line

DoorProtect Jeweller

Wireless opening detector.



Reliable opening detection

- The reed switch with a resource of 2,000,000 openings
- Protected against reed switch chattering
- Equipped with two magnets: small and big

Jeweller communication technology

- Up to 1,200 m of radio communication in an open space
- Encryption and device authentication to prevent spoofing
- Regular polling to display current device statuses

Quick installation and setup

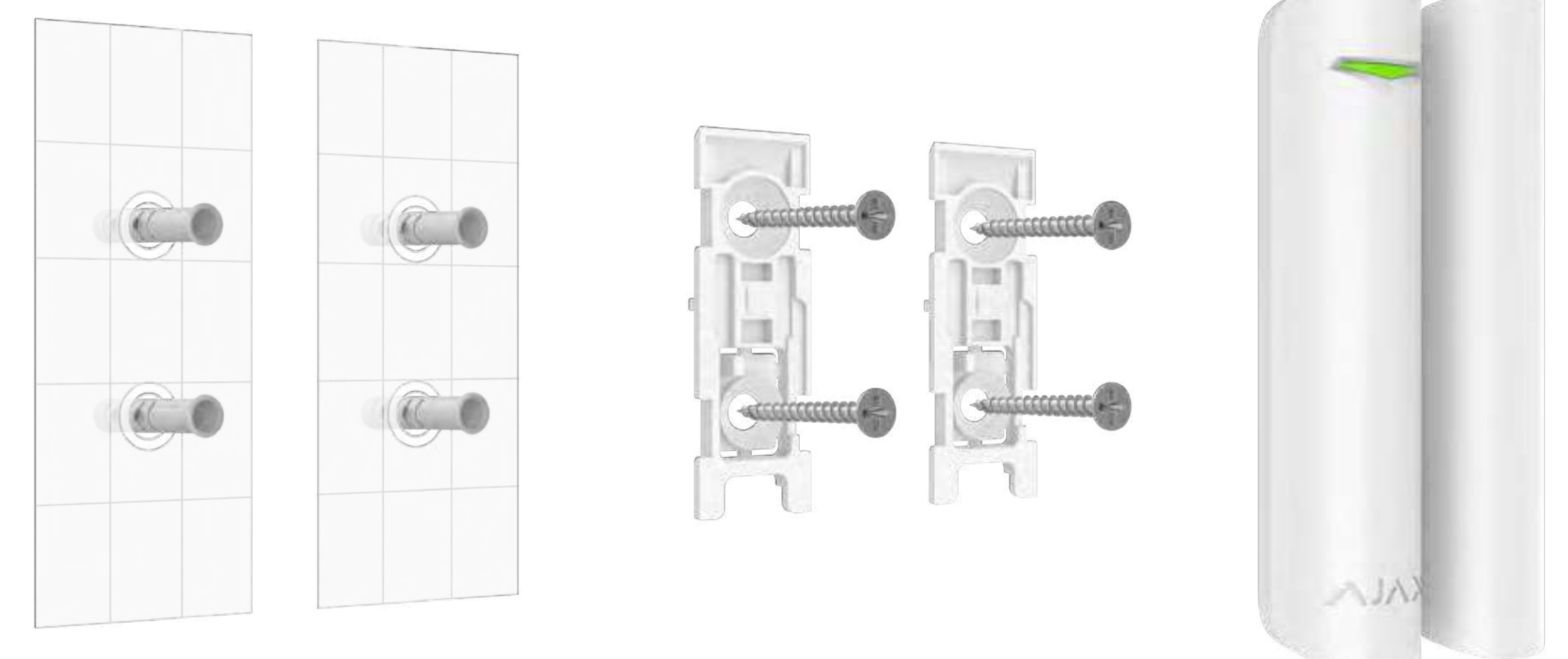
- Pairing with a hub via QR code
- Remote control and configuration in the app
- Effortless installation and maintenance

Additional features

- Additional NC input for connecting a third-party detector
- Chime feature: Ajax sirens make a special sound when the door is opening

Flawless autonomy




- Up to 7 years of operation
- Pre-installed battery
- Low battery warning



<p>Compliance</p> <p>EN 50131 (Grade 2) [PD 6662:2017] UL634, ULC/ORD-C634</p>	<p>Compatibility</p> <p>Hubs Hub (2G) Jeweller, Hub (4G) Jeweller, Hub Plus Jeweller, Hub 2 (2G) Jeweller, Hub 2 (4G) Jeweller, Hub 2 Plus Jeweller, Hub Hybrid (2G), Hub Hybrid (4G)</p> <p>Range extenders ReX, ReX 2</p>	<p>Communication with control panel</p> <p>Jeweller communication technology</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>Jeweller communication range up to 1,200 m In an open space.</p>	<p>Opening detection</p> <p>Sensitive element 1 reed switch</p> <p>Third-party detector connection wired detector with the normally closed (NC) contact type</p>
<p>Power supply</p> <p>Battery 1 × CR123A Pre-installed.</p> <p>Battery life up to 7 years</p>	<p>Installation</p> <p>Operating temperature range from -10°C to +40°C</p> <p>Operating humidity up to 75%</p> <p>Protection class IP50</p>	<p>Enclosure</p> <p>Colour white black</p> <p>Dimensions Ø 20 × 90 mm</p> <p>Weight 29 g</p>	<p>Complete set</p> <p>DoorProtect Jeweller 2 magnets (small and big) 1 CR123A battery (pre-installed) SmartBracket mounting panel Installation kit 2-wire connector for third-party NC detector Quick start guide</p>



For detailed information, scan the QR code or follow the link:
support.ajax.systems/manuals/doorprotect/

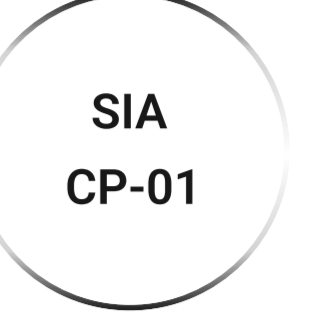
-  support@ajax.systems
-  @AjaxSystemsSupport_Bot
-  ajax.systems



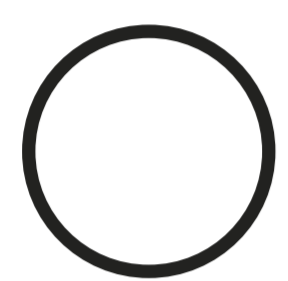
Baseline product line

Ajax SpaceControl Jeweller

Wireless key fob for Ajax system control.



4 buttons



Arm

Arms the system



Disarm

Disarms the system



Night Mode

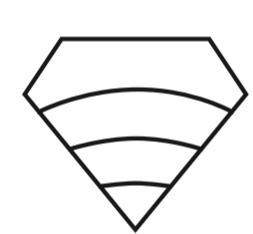
Activates Night Mode (arms devices for perimeter security)



Panic

Notifies a security company and users about danger or emergency

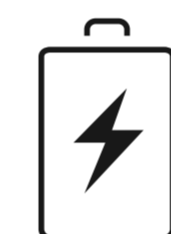
Protection against accidental activation: double or long press



Jeweller

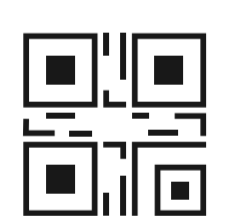
communication technology

- Up to 1,300 m of radio communication in an open space
- Encryption and device authentication to prevent spoofing
- Indication of command execution by LED



Flawless autonomy

- Up to 5 years of operation
- Pre-installed replaceable battery
- Low battery warning






Quick setup

- Pairing with a hub via QR code
- Remote control and configuration in the app
- It can be carried around in a pocket or on the key ring

<p>Compliance</p> <p>EN 50131 (Grade 2) PD 6662:2017 SIA CP-01 UL985, UL1023, UL2610 ULC S545, ULC S304</p>	<p>Compatibility</p> <p>Hubs Hub (2G) Jeweller Hub (4G) Jeweller Hub Plus Jeweller Hub 2 (2G) Jeweller Hub 2 (4G) Jeweller Hub 2 Plus Jeweller Hub Hybrid (2G) Hub Hybrid (4G)</p> <p>Range extenders ReX, ReX 2</p>	<p>Communication with control panel</p> <p>Jeweller communication technology</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>Jeweller communication range up to 1,300 m In an open space.</p>	<p>Power supply</p> <p>Battery 1 × CR2032 Pre-installed.</p> <p>Battery life up to 5 years</p>
<p>Installation</p> <p>Operating temperature range from –25°C to +50°C</p> <p>Operating humidity up to 95%</p> <p>Protection class IP50</p>	<p>Enclosure</p> <p>Colour white black</p> <p>Dimensions 65 × 37 × 10 mm</p> <p>Weight 13 g</p>	<p>Complete set</p> <p>Ajax SpaceControl Jeweller 1 × CR2032 battery (pre-installed) Quick start guide</p>	



For detailed information, scan the QR code or follow the link:
support.ajax.systems/en/manuals/ajaxspacecontrol

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-  [ajax.systems](https://www.ajax.systems)