

Hub 2 (2G) Jeweller

Security system control panel supporting photo verification feature. Has three independent communication channels: Ethernet and two 2G SIM cards.



Find the detailed information on the device at the link:

 ajax.systems/support/devices/hub-2/

Key features

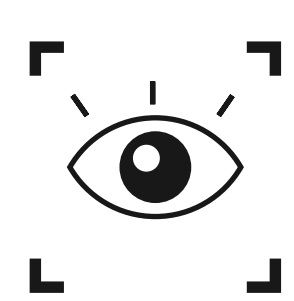
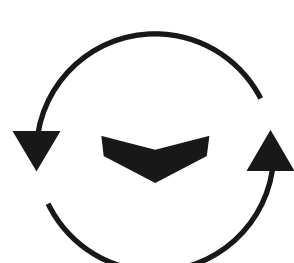


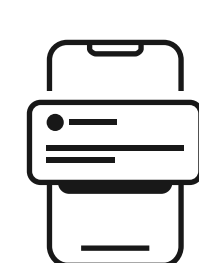
Photo verification support



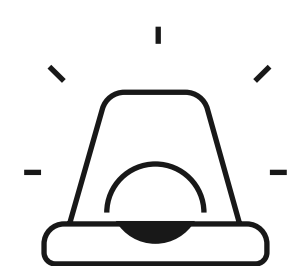
Video surveillance support



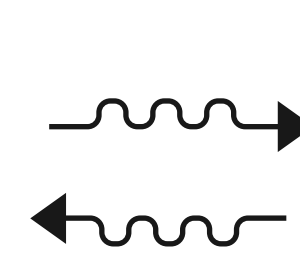
Free software updates



Informing users with push notifications, calls, and SMS



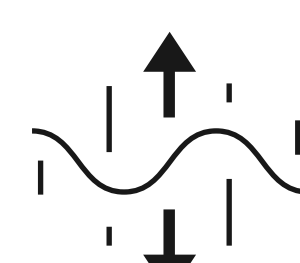
Connection to security company CMS



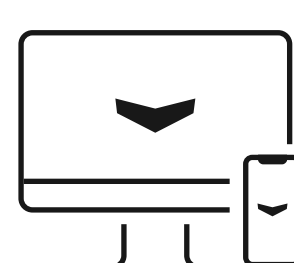
Communication with wireless Ajax devices at a distance of up to 2,000 m



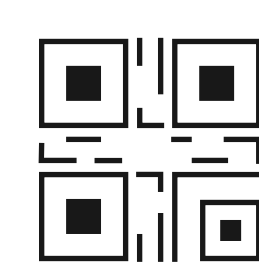
Tampering alarm



Frequency hopping



Remote control and setup via the app



Connecting to Ajax apps via QR code

Always online

To guarantee prompt alarm transmission to the monitoring station and users, Hub 2 (2G) can be connected to three Internet providers simultaneously via **Ethernet** and two **SIM cards (2G)**. Channels work in parallel, and automatic switching between them takes seconds.

Hub is connected to the apps, security companies and users through the Ajax Cloud server with an availability of 99.995% in 2021. For reliability, the servers are located in several data centres. We use the proprietary binary protocol and automatic load balancing for the uninterrupted processing of millions of data packets and the stable operation of security systems.

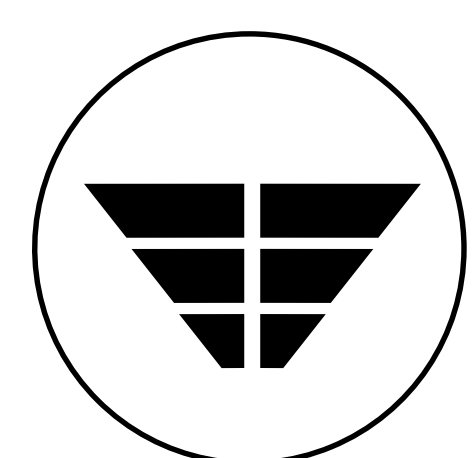
Hub reduces the security system's dependence on the conditions at the facility. The control panel is equipped with a backup battery, providing **up to 16 hours of autonomous operation** in case of a blackout. The system will report a power-down and a power restoration to the CMS and all users.

Guaranteed delivery of alarms and photo confirmations

Jeweller



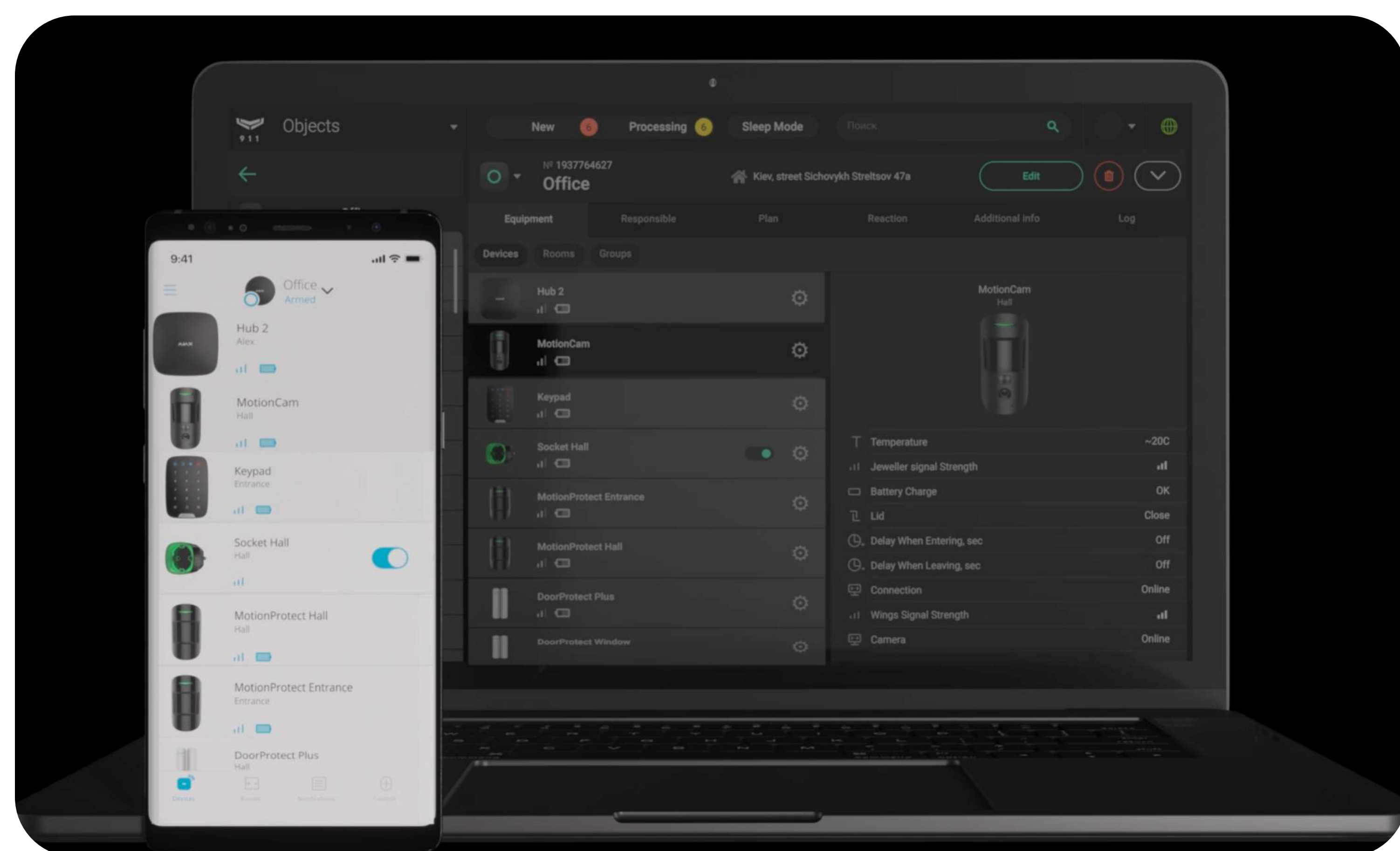
Jeweller provides two-way communication between a hub and connected devices at a distance of up to 2,000 meters. Jeweller uses time frames to synchronize communication with connected devices, authentication to eliminate forgery, and encryption to protect against data theft.



Wings

Wings is a radio protocol developed for the fast transmission of visual data. Hub 2 (2G) uses dedicated antennas to improve channel reliability. Built-in package checking and uploading algorithms allow Wings to deliver photos at a distance of up to 1,700 meters, even if the signal level is unstable.

Controlled with apps



We've developed two types of applications: for users and PRO. Users' apps are designed for monitoring alarms and managing security via smartphone. Apps for PRO are designed to manage system settings via PC or smartphone.


All types of Ajax apps connect to a hub using a secure channel with Ajax Cloud — our server solution located at several AWS data centres. All security system settings are always available in the app.

The keyboard also allows you to create passcodes for those who are not added to the hub users or use the system from time to time. In this case, the users and the monitoring company operator also know exactly who and when changed the security mode. It is convenient, for example, to create a passcode for a cleaning company.

More options with these two hub versions

To meet the requirements of the professionals and today’s security market, we manufacture and sell two **Hub 2** models simultaneously. They have the same body and specifications, but only with one difference: a type of built-in cellular modem.

We will ship Hub 2 in two versions: with a 2G and a 4G modem. The hubs are marked as **Hub 2 (2G)** and **Hub 2 (4G)** — and have different packaging to avoid confusion. Choose and install the equipment that precisely matches the client's needs. We will keep producing and selling all the preceding hub models to offer more choices.



Hubs with 2G cellular modems will gradually cease to be supplied in regions where 2G/3G frequencies are planned to be disabled in the near future.

Fast connection and installation

Hub is ready to work right out of the box. It comes with pre-installed communication modules, a power supply unit, and a backup battery. To begin the system setup, an installer needs to plug the device into a power socket, connect it to the Internet, insert a SIM card, and scan the app's QR code. Thanks to SmartBracket, installers don’t need to disassemble the enclosure to mount the hub.

Technical specifications

Compliance with standards	EN 50131 (Grade 2) PD 6662:2017	Connection to CMS	SurGard (Contact ID) SIA (DC-09) ADEMCO 685 Other proprietary protocols
Connected devices	up to 100 wireless devices Including up to 5 range extenders and up to 10 sirens.	Features	50 users 25 cameras or DVRs 32 automation scenarios 9 security groups photo verification support

Communication channels with Ajax devices	<div> Jeweller communication technology</div> <div>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.</div> <div>Maximum effective radiated power (ERP) ≤25 mW</div> <div>Communication range up to 2,000 m In an open space.</div>	External communication channels	Ethernet 8P8C slot Up to 100 Mb/s. Cellular network 1 slot for micro-SIM 2G (GSM900/DCS1800 (B3/B8))
Power supply	<div>Main power supply 100–240 V~, 50/60 Hz</div> <div>Backup power supply Li-Ion battery with 2 A·h capacity Up to 16 hours of autonomous operation.</div>	Installation	Operating temperature range from -10°C to +40°C Operating humidity up to 75% Protection class IP20
Enclosure	<div>Colour white black</div> <div>Dimensions 163 × 163 × 36 mm</div> <div>Weight 362 g</div> <div>Tampering alarm</div>	Complete set	Hub 2 (2G) Jeweller Power cable Ethernet cable SIM card Depends on the region of sale. Installation kit Quick Start Guide

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/>



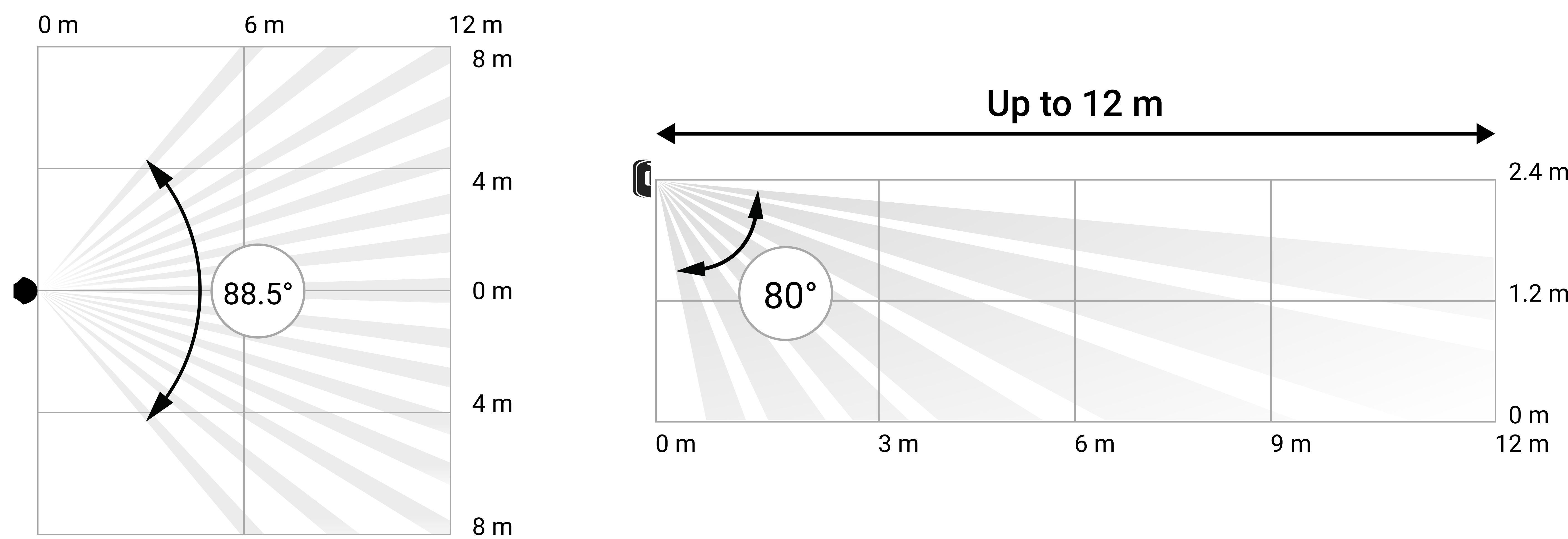
2
GRADE
EN 50131

PD 6662
2017

Key features

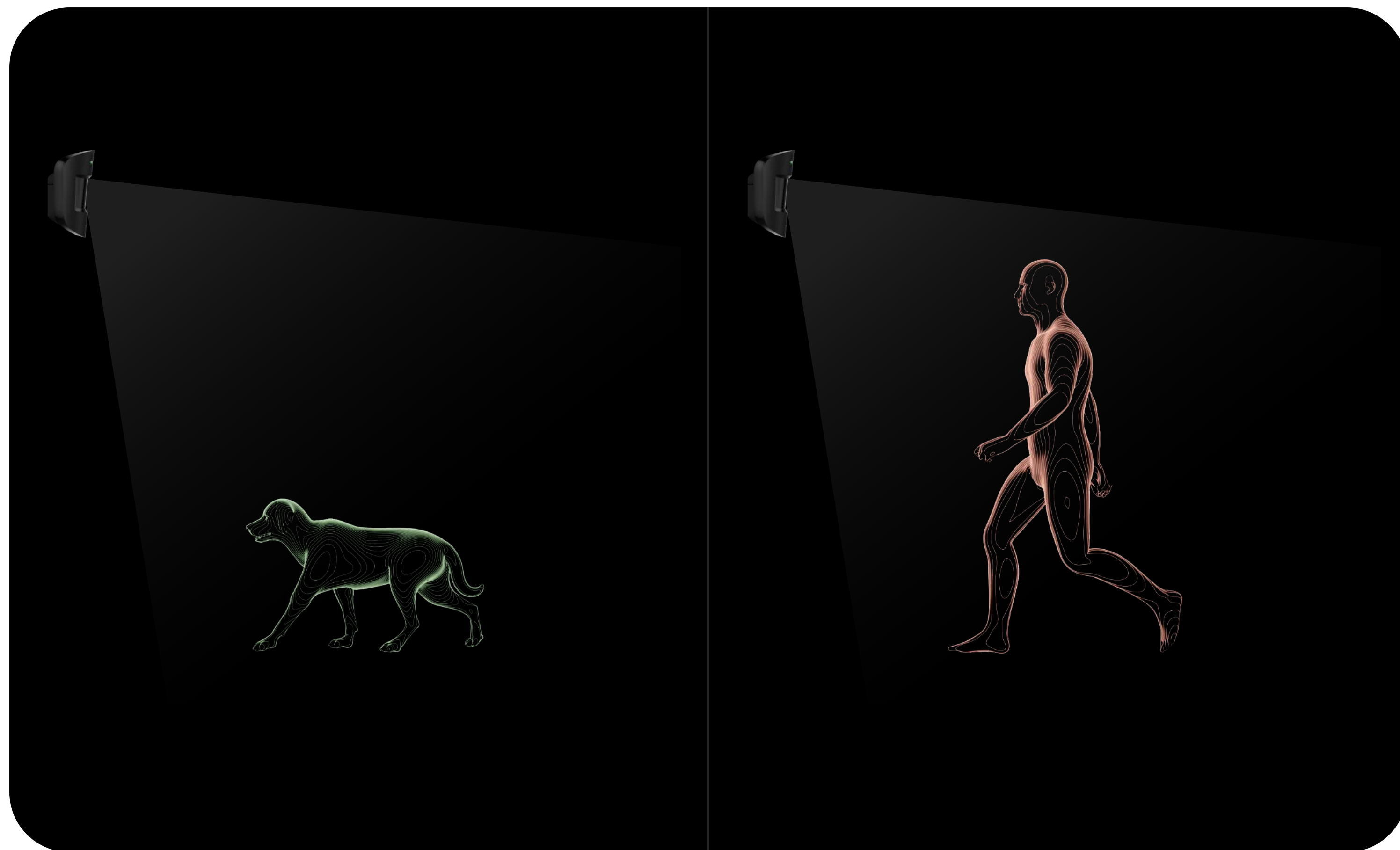
- Up to 12 m detection distance
- Pet immunity
- False alarms prevention algorithm
- Remote control and setup via the app
- 88.5°/80° viewing angles
- Temperature compensation
- Effortless installation and replacement
- Connecting via QR code

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.

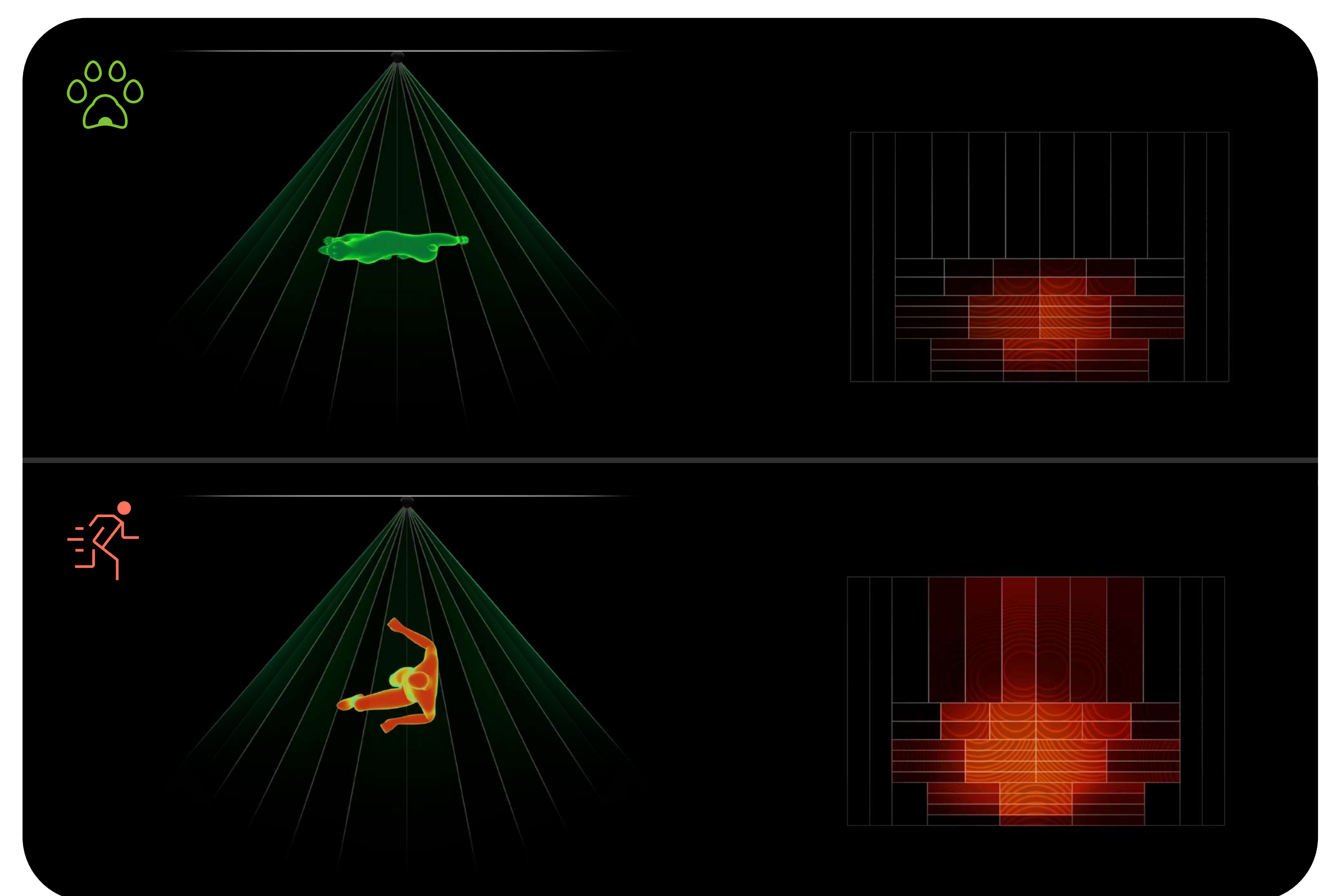


Optics

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.

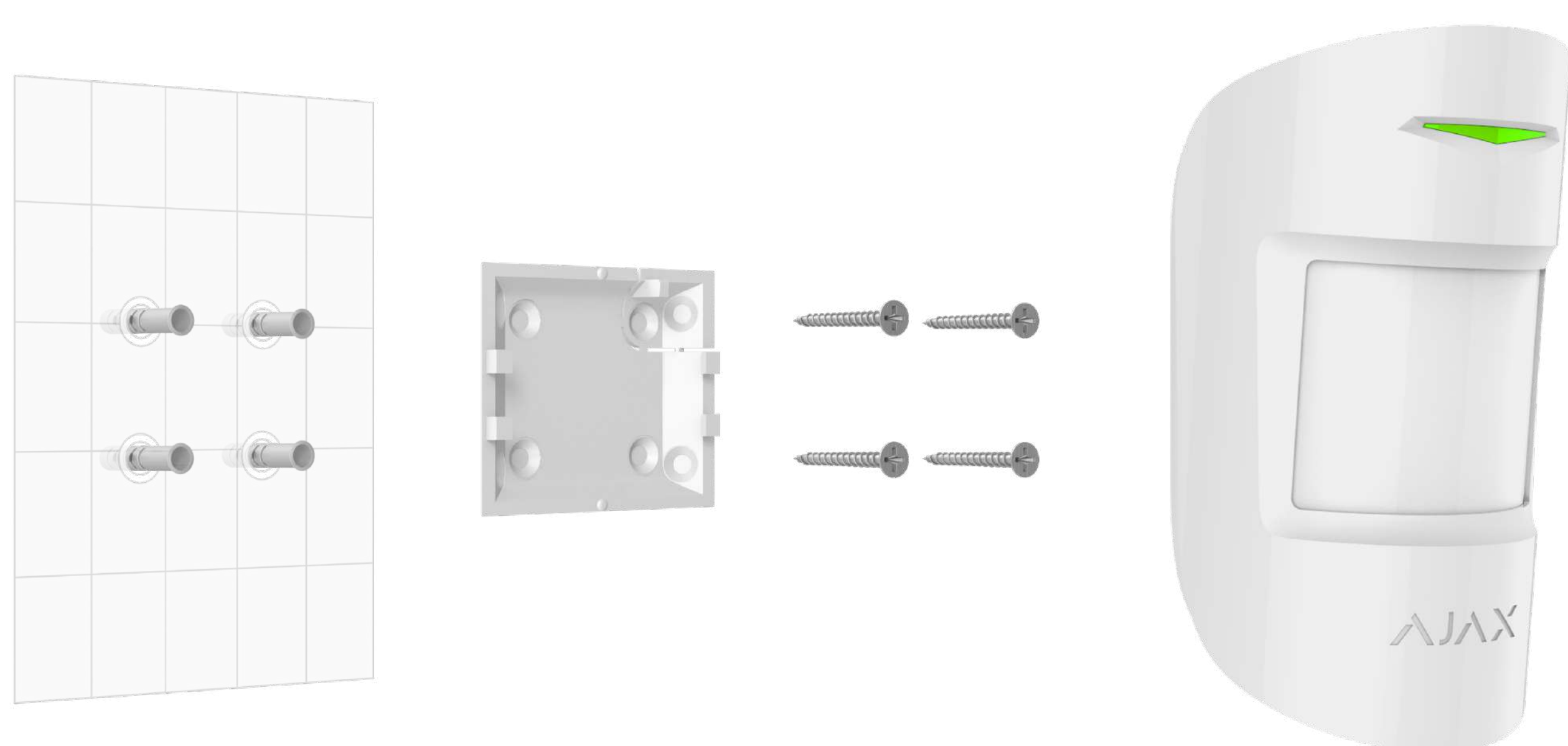
Software

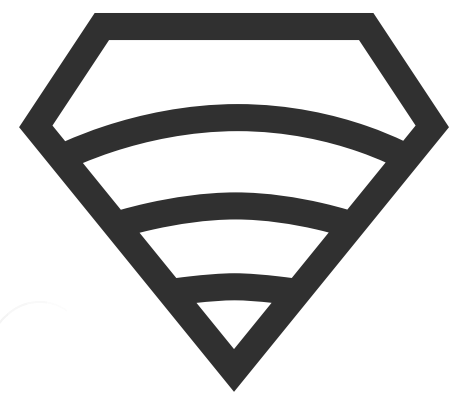
For additional protection against false alarms, the detector uses the SmartDetect algorithm. The armed detector constantly analyses the thermal diagram from the PIR sensor: the intensity of IR radiation, the size of the thermal spots, the speed of movement and other parameters.



Installation

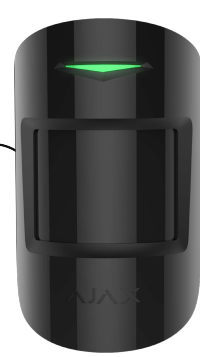
When properly installed and configured, the detector does not react to common sources of false alarms and pets under 50 cm tall and 20 kg in weight. For seamless installation, it has pre-installed batteries and the SmartBracket mounting panel. So, installers don't need to disassemble the detector and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





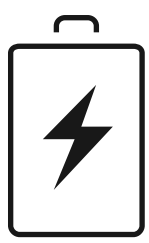
Jeweller

communication technology

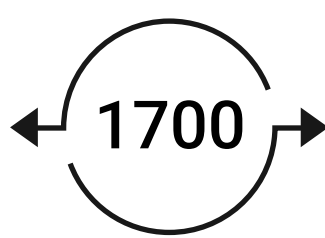


Jeweller is a **two-way wireless protocol** that provides fast and reliable communication between hubs and devices. The protocol delivers instant data-rich alarms: security companies and users know which device was triggered, when and where it happened.

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

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

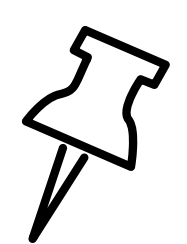
Communication with control panel	<p>Maximum effective radiated power (ERP) ≤ 20 mW</p> <p>Communication range up to 1,700 m In an open space</p> <p>Polling interval 12–300 s Adjusted by PRO or user with admin rights in the Ajax app</p> <p>Protection against forgery Device authentication</p>	Motion detection	<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>
Power supply	<p>Battery 1 x CR123A Pre-installed</p> <p>Battery life up to 5 years</p>	Installation	<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>
Enclosure	<p>Colour white, black</p> <p>Dimensions 110 × 65 × 50 mm</p> <p>Weight 86 g</p> <p>Tampering alarm</p>	Complete set	<p>MotionProtect Jeweller 1 x CR123A Pre-installed SmartBracket Installation kit Quick Start Guide</p>

DoorProtect Jeweller

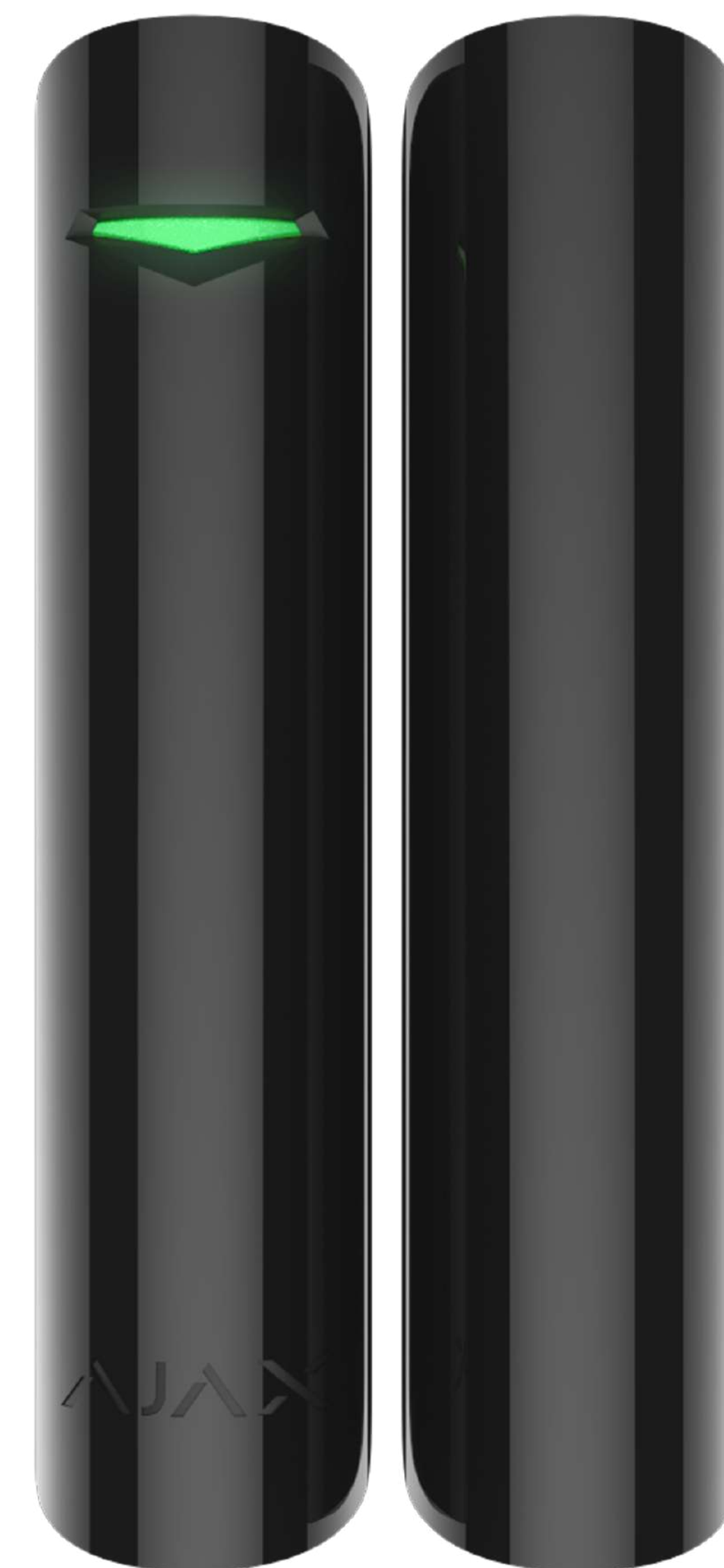
Wireless indoor opening detector



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



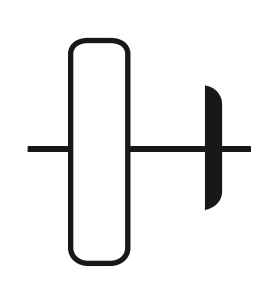
<https://ajax.systems/support/devices/doorprotect/>



2
GRADE
EN 50131

PD 6662
2017

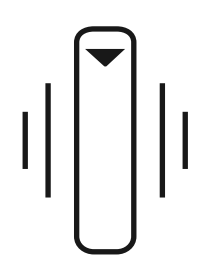
Key features



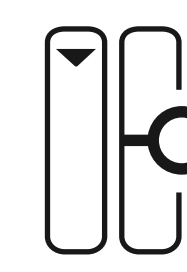
More installation options with two
magnets of different size



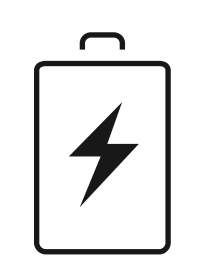
The reed switch with a resource
of 2,000,000 openings



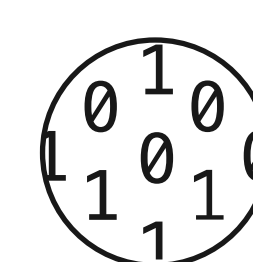
Protected against reed switch
chattering



Additional NC input for connecting a
third-party detector



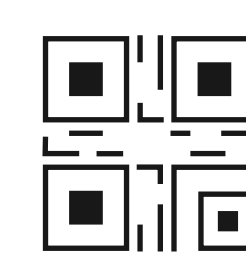
Up to 7 years of operation on pre-
installed battery



Up to 1,200 m of two-way encrypted
wireless communication



Remote control and setup via the app




Pairing via QR code

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 1,200 m** of wireless connectivity, Jeweller is ready to protect facilities and deliver **the best user experience** for both end users and installers.

Technical specifications

Compliance with standards	EN 50131 (Grade 2) PD 6662:2017	Compatibility	Hubs all Ajax hubs Range extenders all Ajax radio signal range extenders
Communication with control panel and range extenders	 Jeweller communication technology 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 Maximum effective radiated power (ERP) ≤ 20 mW Communication range up to 1,200 m In an open space Polling interval 12–300 sec Adjusted by PRO or user with admin rights in the Ajax app Protection against forgery Device authentication	Detection	Sensing element 1 × reed switch Opening sensors resource 2,000,000 openings Third-party detector connection wired detector with the normally closed (NC) contact type

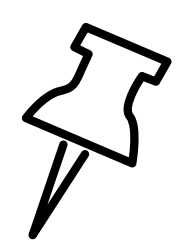
Power supply	<div>1 × CR123A, 3 V</div> <div>Pre-installed</div> <div>up to 7 years of battery life</div>	Installation	<div>Operating temperature range</div> <div>from −10°C to +40°C</div> <div>Operating humidity</div> <div>up to 75%</div> <div>Ingress protection</div> <div>IP50</div>
Enclosure	<div>Colours</div> <div>white, black</div> <div>Dimensions</div> <div>Ø 20 × 90 mm</div> <div>Weight</div> <div>29 g</div> <div>Tampering alarm</div>	Complete set	<div>DoorProtect Jeweller</div> <div>2 magnets</div> <div>(small and large)</div> <div>1 × CR123A (pre-installed)</div> <div>SmartBracket</div> <div>Installation kit</div> <div>External contact for NC detector</div> <div>Quick Start Guide</div>

SpaceControl Jeweller

Key fob for controlling the security system.

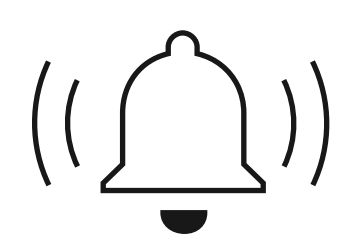


An Ajax hub is required for operation.
Find the detailed information on the
device at the link:

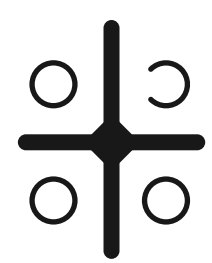


ajax.systems/support/devices/spacecontrol/

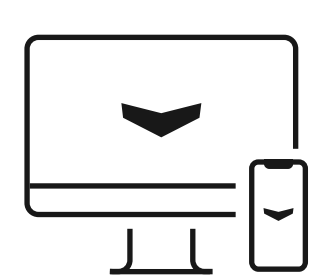
Key features



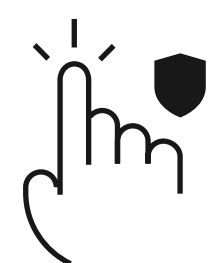
Build-in panic button in case of emergency



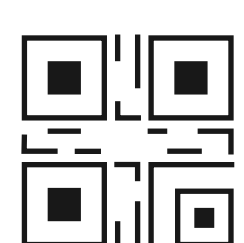
Indication of command execution by LED



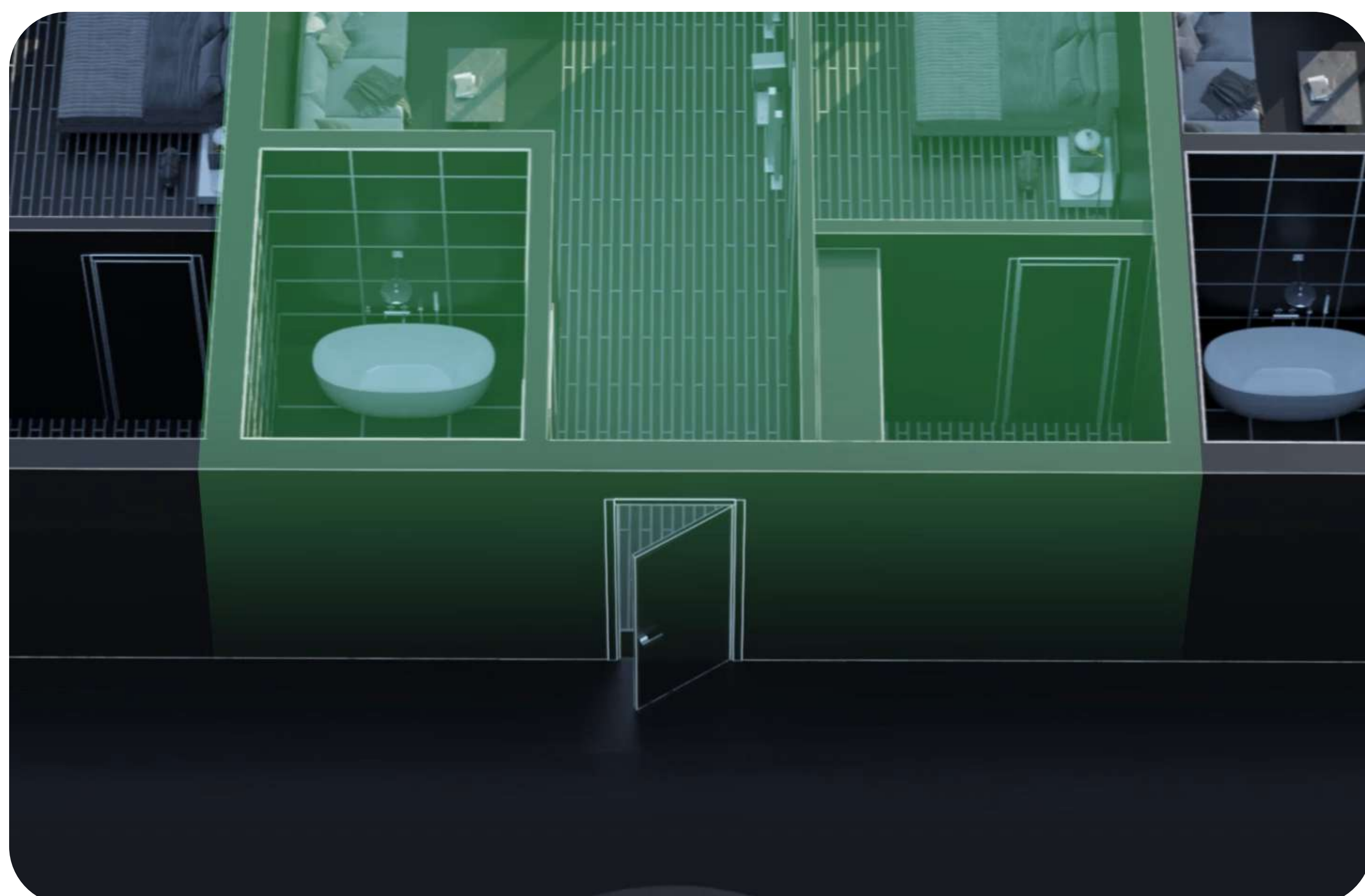
Remote control and setup via the app



Double or long press against accidental activation



Connecting via QR code



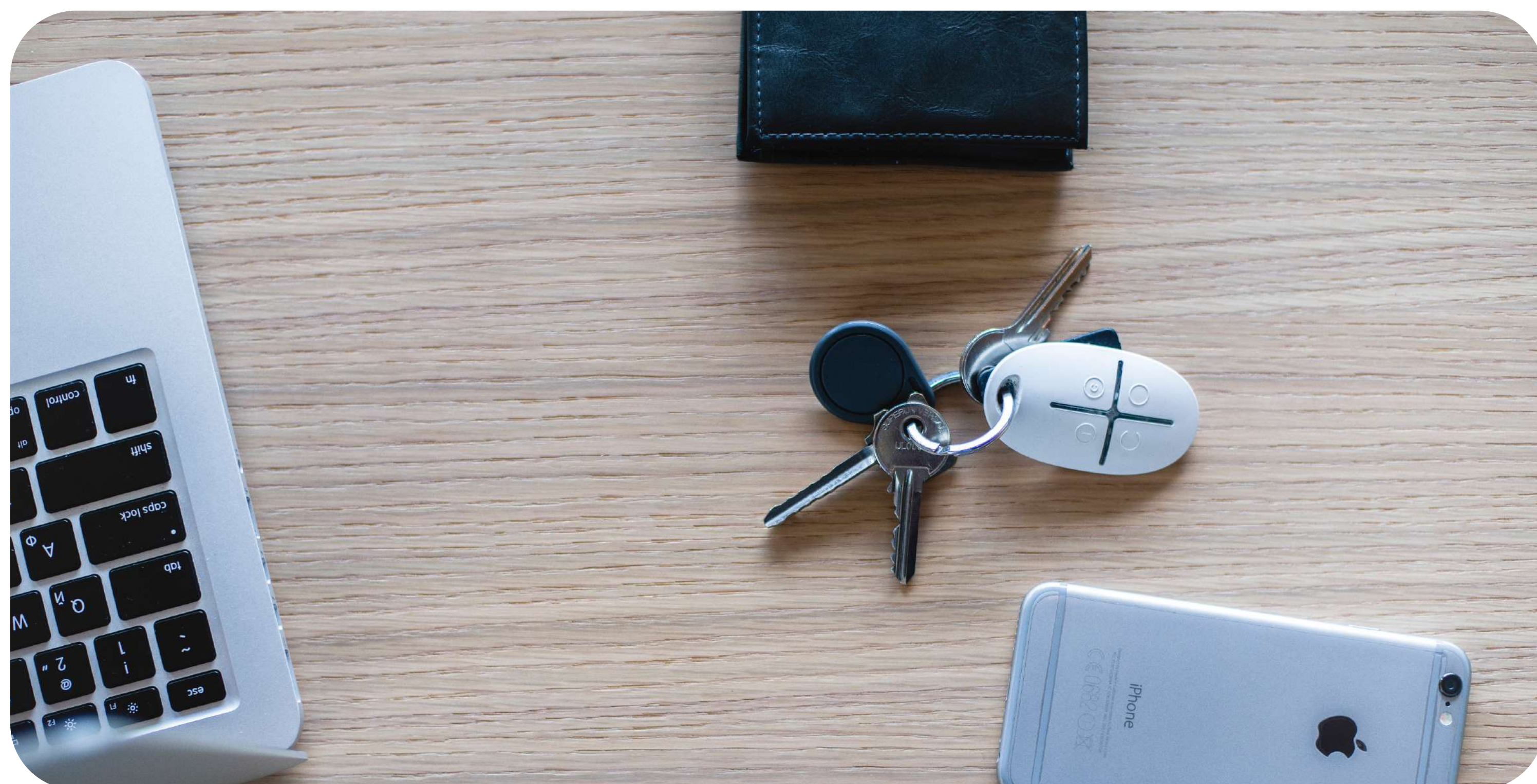
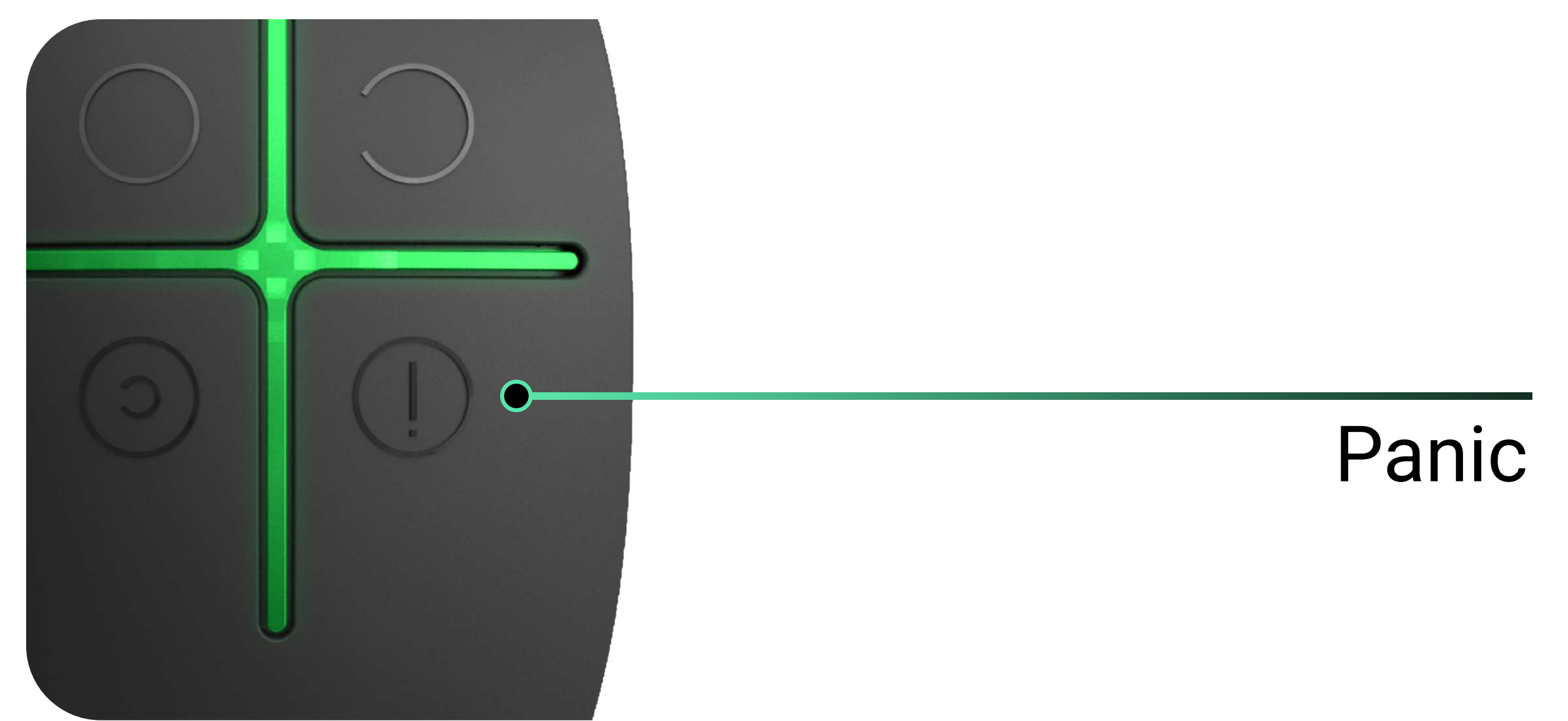
Security modes control

With SpaceControl, users can arm, disarm and activate the **Night mode** for the entire system. The key fob can also be configured to manage a separate security group.

The device can be assigned to a user. In this case, SpaceControl will have the same security modes management rights as the user.

Panic button

In case of an emergency, the user can press the built-in panic button and notify the security company monitoring station (CMS) and users about the dangerous situation. This ensures a fast and accurate response to the threat.



Protection against accidental pressing

In the Ajax app, a long or double press can be configured to exclude accidental activation of SpaceControl buttons while carrying it in a pocket or bag. Users do not need to worry about false panic alarms or incidental disarming.



 **Jeweller**
communication technology



Jeweller is a radio protocol for fast and reliable two-way communication between hub (or range extender) and connected devices. The protocol provides a wireless radio communication range with SpaceControl **up to 1300 meters**. This communication range allows using the Ajax security system even on large-scale objects.


Jeweller is responsible for transmitting alarms and commands. Thanks to Jeweller, users and the monitoring station can always see the current status of SpaceControl and the security mode of the system in Ajax apps.

Quick pairing with the system

The device connects to the Ajax security system in less than a minute. An installer needs to open the Ajax app, scan the QR code, add the device to the room and assign it to the user or a security group if needed. The key fob is configured remotely: the installer does not need to visit the facility to change key fob settings.

No need to disassemble the enclosure: replaceable batteries are pre-installed. With a special handler, SpaceControl can easily be attached to a key ring and carried around with the set of keys in a bag or a pocket.

Technical specifications

Communication with control panel or range extender	<div> Jeweller communication technology</div> <div>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.</div> <div>Maximum effective radiated power (ERP) Up to 20 mW</div> <div>Communication range up to 1,300 m Without obstacles.</div>	Compatibility	<div>Hubs all Ajax hubs</div> <div>Range extenders all Ajax radio signal range extenders</div>
Compliance with special fire standards	<div>EN 50131 (Grade 2) PD 6662:2017</div>	Features	<div>4 buttons Arm Disarm Night mode Panic Panic button can be deactivated by PRO or a user with admin rights in the Ajax apps.</div> <div>LED indication green and red SpaceControl reports its status only after any button is pressed.</div> <div>Protection against accidental press double or long press Configured by the PRO or user with admin rights in the Ajax apps.</div>

Anti-sabotage protection	Protection against spoofing device authentication	Power supply	1 × CR2032 battery Up to 5 years of battery life.
Enclosure and installation	Dimensions 65 × 37 × 10 mm Weight 13 g Operating temperature range from -25°C to +50°C Operating humidity up to 95% Protection class IP50 Colours Black White	Complete set	SpaceControl Jeweller 1 × CR2032 battery Pre-installed Quick Start Guide

StreetSiren DoubleDeck Fibra

Wired siren with a clip lock for a branded faceplate. Designed for indoor and outdoor use.

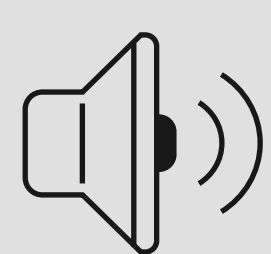


The device is compatible only with hubs supporting Fibra protocol. Find the detailed information via QR code or at the link:

ajax.systems/support/devices/streetsiren-doubleddeck-fibra/

StreetSiren DoubleDeck Fibra is the device of the Fibra wired product line. Such devices can only be purchased, installed, and administered by accredited Ajax Systems partners.

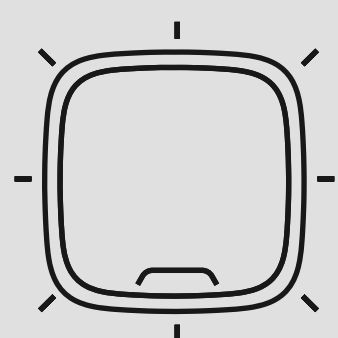
Key features



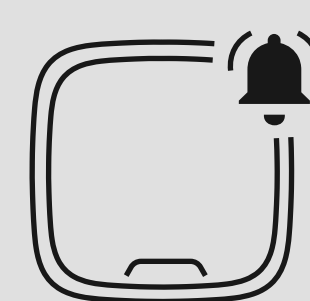
Adjustable volume:
from 85 dB to 113 dB



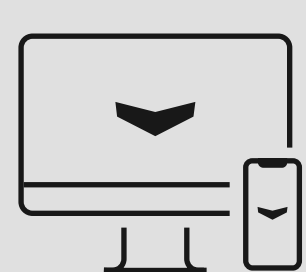
Adjustable alarm duration:
from 3 s to 3 min



Delays and security mode
changing indication



Chime feature



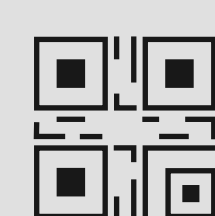
Remote configuring and testing
in mobile and desktop apps



SmartBracket mounting panel for
installation without disassembling the
siren enclosure



Power consumption of up to 0.37 W



Pairing with the security system via
QR code or Fibra bus scanning



Additional promotion of security services



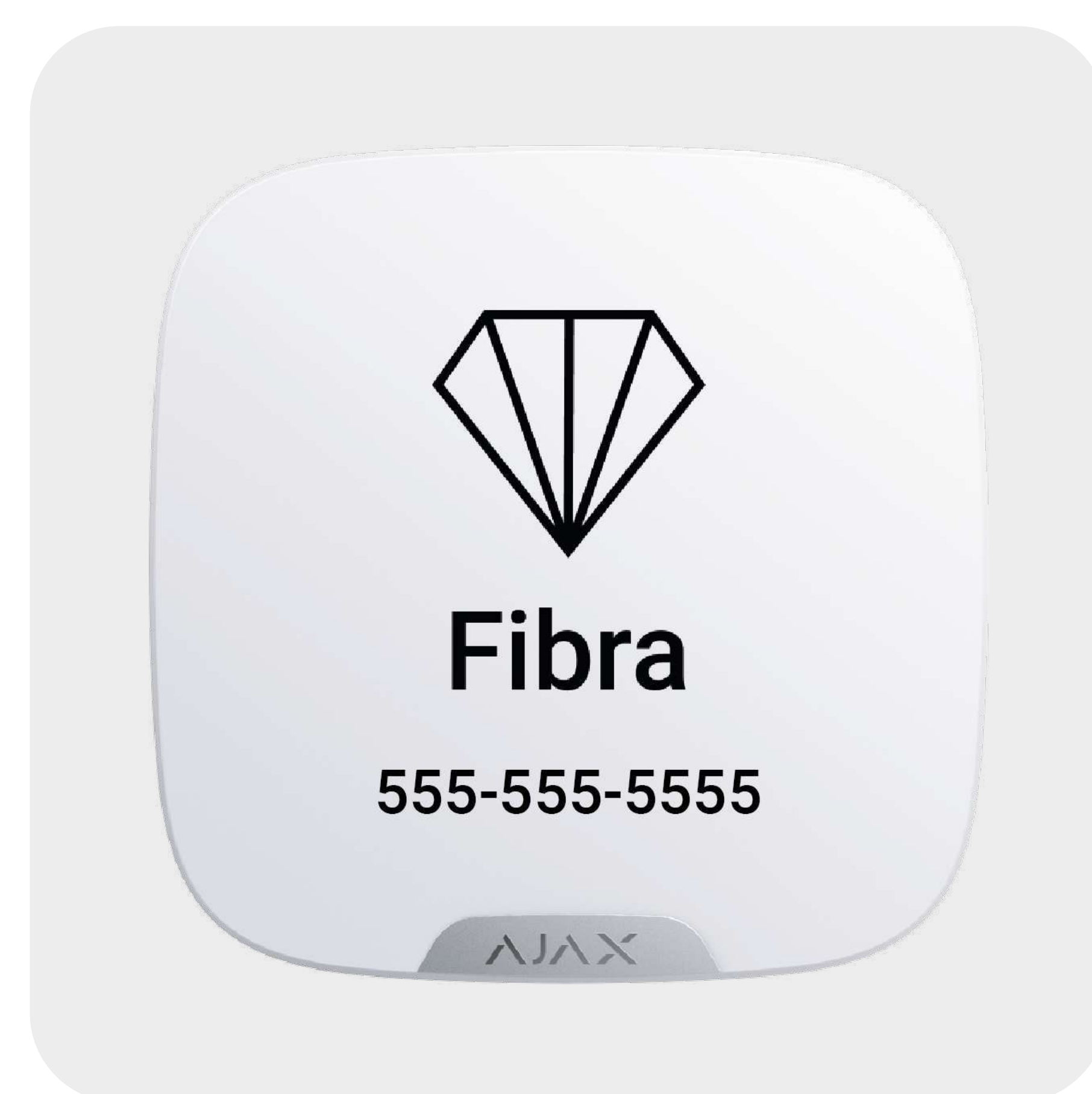
StreetSiren DoubleDeck



StreetSiren

The main difference between StreetSiren DoubleDeck and StreetSiren is the Brandplate faceplate. Security service providers can print their logo and contact information on the front panel of an outdoor siren. Located at the building, it will serve as an additional marketing channel that reaches new customers: neighbours and visitors.

How to order Brandplate



Brandplate is available in black or white and sold in batches separately from StreetSiren DoubleDeck. One batch is 10 pcs. You get a free print of one design on all panels when ordering four Brandplate batches (40 pcs) or more. Compose your Brandplate layout in 3 steps with a **Brandplate Constructor** following the link: ajax.systems/brandplate-constructor/



To order Brandplate, please contact the Ajax distributor in your region.

Notifies about everything



Alarms

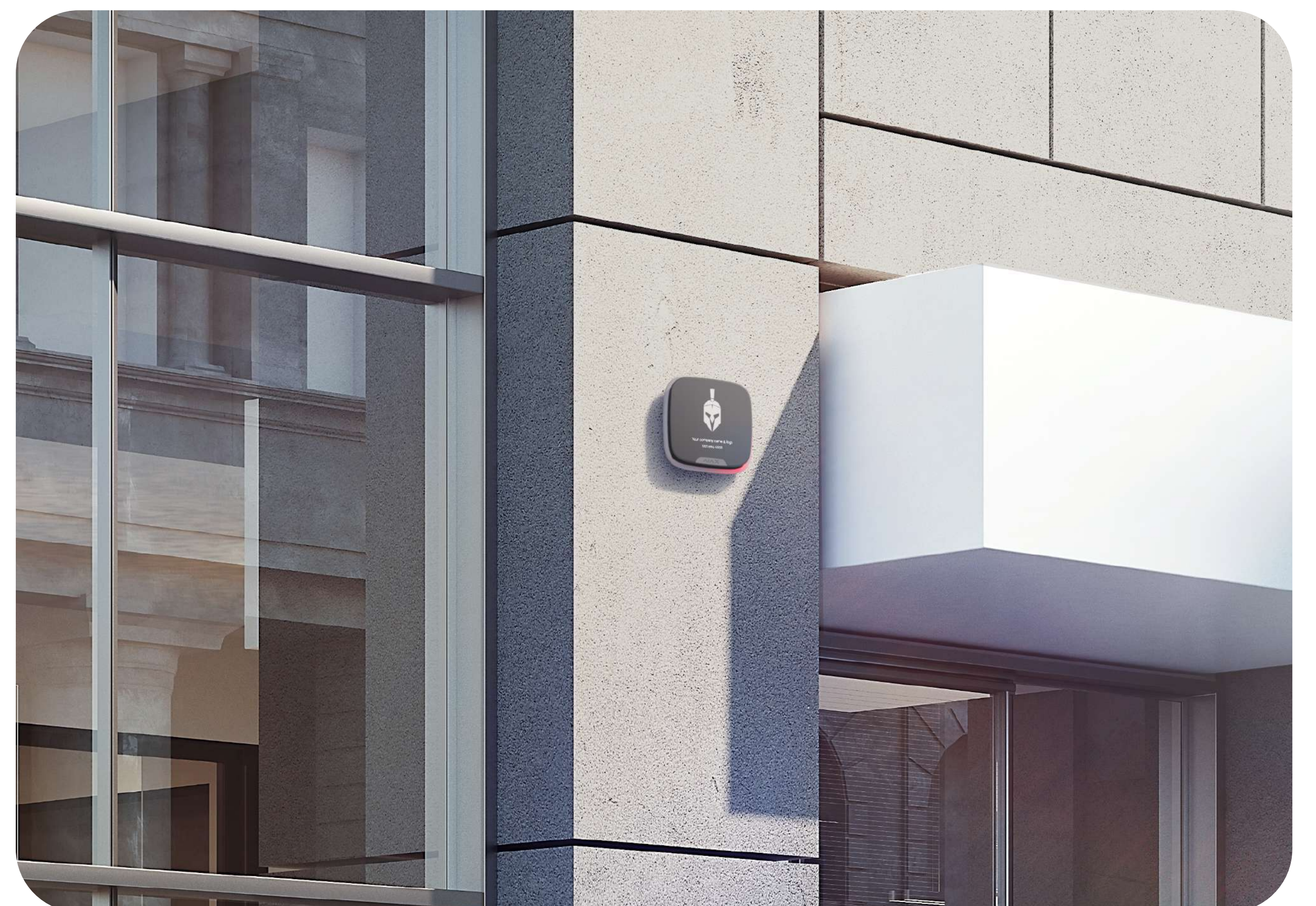
The siren responds to alarms with a bright LED and a buzzer loud enough to scare away intruders and draw the attention of neighbours. It can be set to generate sound from 85 to 113 dB for an adjustable period of 3 seconds to 3 minutes.

Or the siren can be completely silent when it is set to respond to the alarm only with LED indication. Ajax apps allow installers to select detectors that activate the siren or assign it to a specific security group, remotely or on-site.

Security status

The LED can indicate armed mode. It also can be active even when the system is disarmed to imitate armed mode.

If users control the security system mainly using key fobs or keypads, the siren can notify them about arming/disarming and enter/exit delays with LED and short beeps. If users forget to disarm the system, the siren will remind them about it when entering the facility.



Door opening

The siren supports the **Chime** feature and reacts to the door opening. When the feature is enabled, the sirens make a short beep to indicate that the opening detectors are triggered when the system is disarmed. It is used, for example, in stores to notify employees that someone came in.



After-alarm indication

The siren can continue to inform about an alarm in the armed system with LED indication after the audible signal is played. The siren's lower right corner will flash twice every 3 seconds until the system is disarmed. So when security company patrols pass by the facility — they will see that the system was triggered.



Convenience down to details



Flexible project designing

Wired connectivity can cover the most complex objects like sectional metal warehouses, deep underground facilities, and other cases where a wired connection is particularly important. So the siren is ready for stable operation even in difficult installation conditions.

The installer can set each siren to notify about all events or react to events of a specific detector. For example, a siren will not alert about a water leak if it doesn't need to.

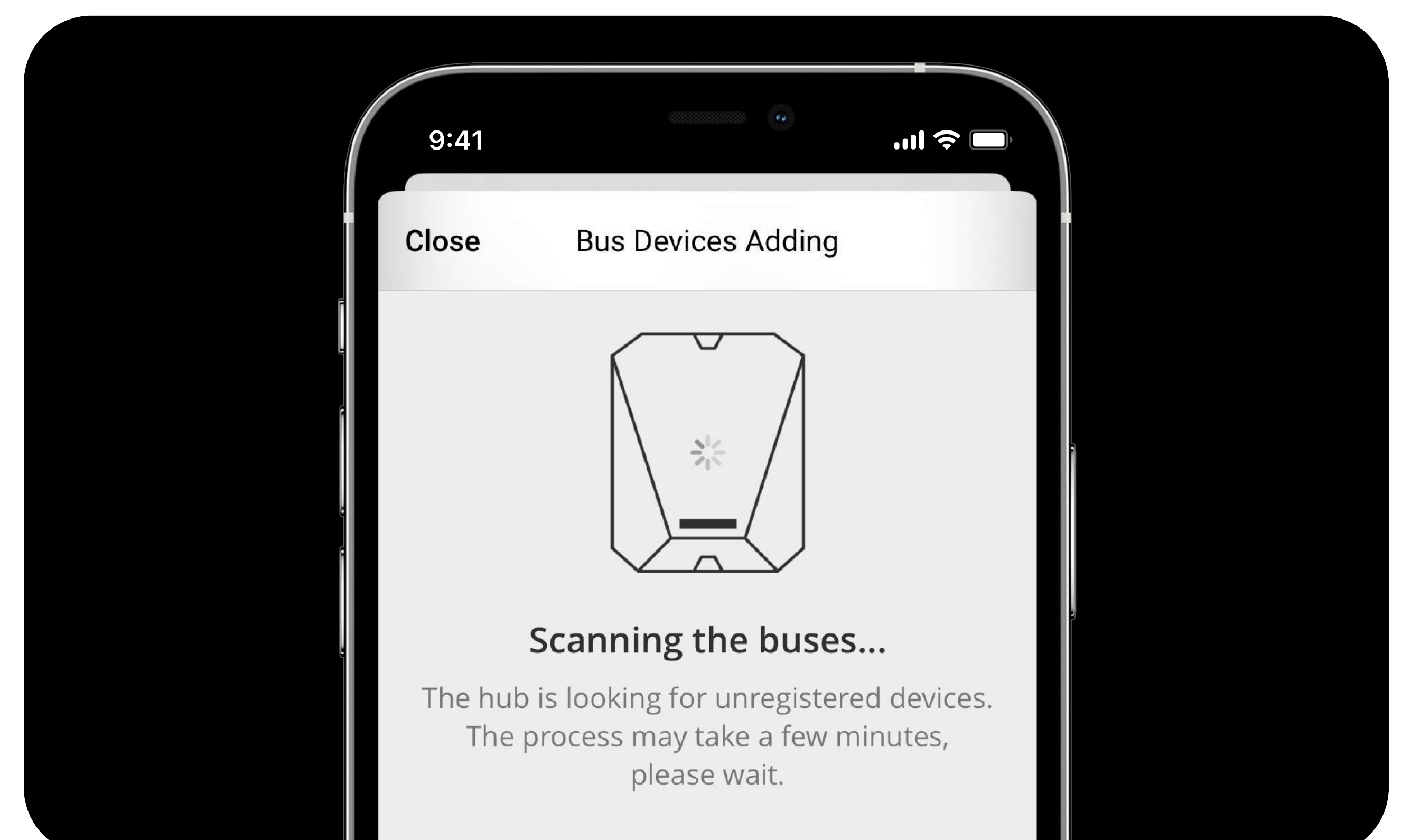
Easy installation

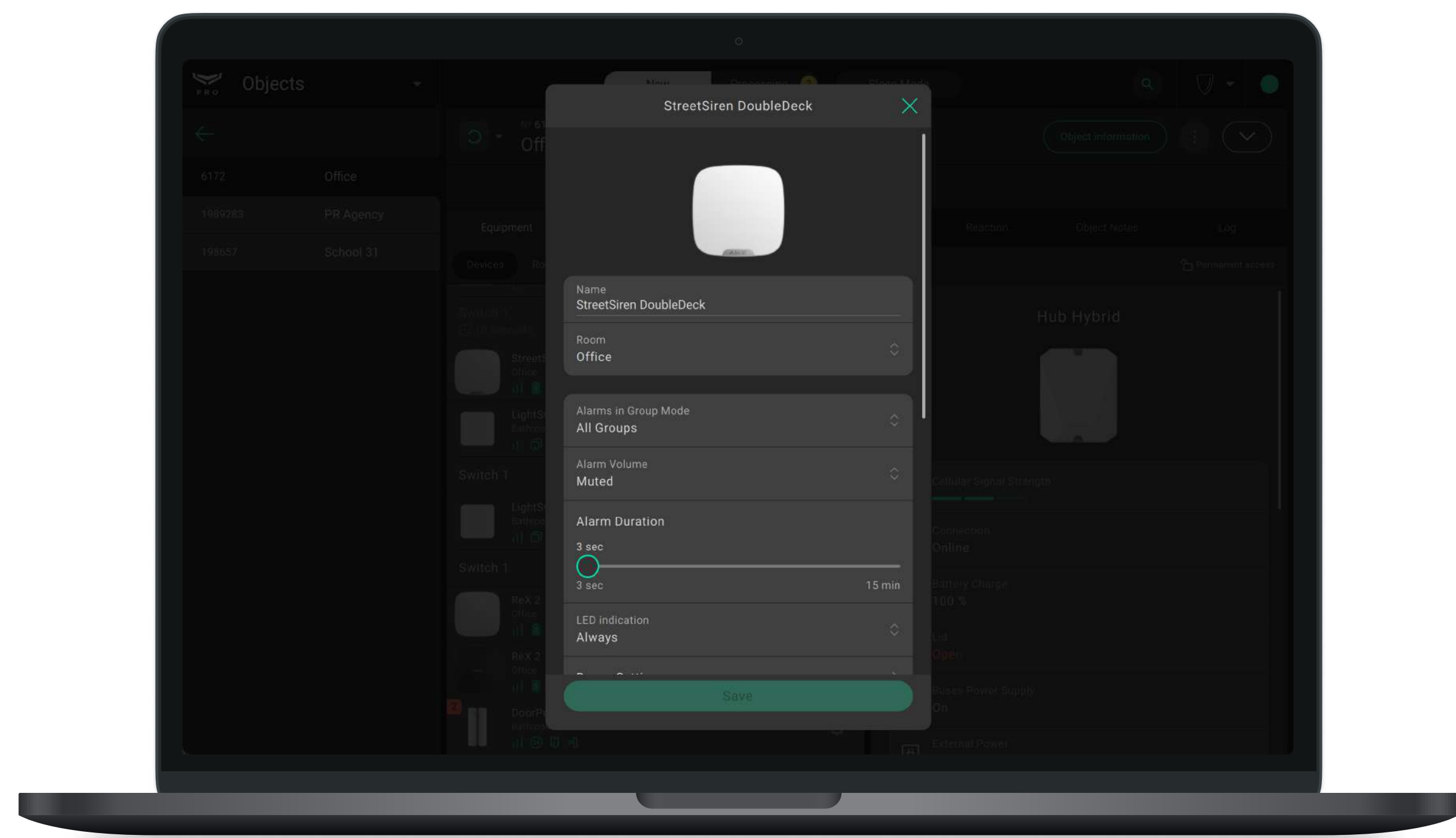
The SmartBracket panel with a built-in level allows an installer to fix the siren on the wall effortlessly. The installation kit includes all the necessary fasteners.

There is no need to disassemble the siren: the board with terminals is located outside the enclosure to eliminate hardware damage during installation. The board is removable, which makes connecting the wires more comfortable, and it can be easily installed back on special racks after connection. For cable management, there are bracings inside SmartBracket for fixing the wires with ties.

Quick pairing with the hub

The device connects to the hub automatically via the Fibra bus scanning. This tool is available in the PRO apps for PCs and smartphones. An installer only needs to name and assign the device to the room and security group. The device can also be added by scanning the QR code or entering its ID manually. All further settings are done in Ajax apps.





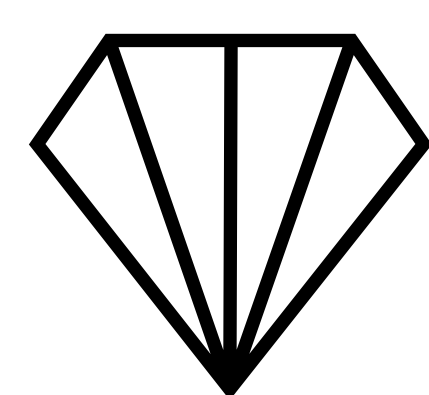
Remote configuring

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

Fibra power supply calculator

The Fibra power supply calculator is designed for security specialists to provide them with comprehensive information about the device's power consumption. It's easy to check before installation whether the wired system project will work in practice. The tool allows real-time project-making, highlighting the problem areas and offering different solutions. Once the calculations are finished, the results can be downloaded as a PDF file.

Verify your project by following the link: ajax.systems/products/fibra/power-calculator/



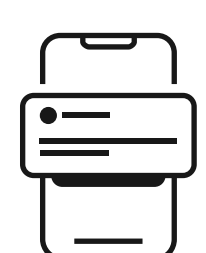
Fibra

communication technology



Fibra is a two-way wired protocol, ensuring fast and secure communication between hub and devices. Based on a bus connection method, Fibra delivers instant data-rich alarms: security companies and users know which device was triggered, when, and where it happened.

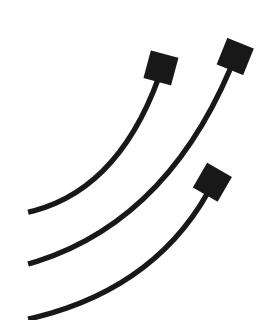
Fibra features encryption and authentication to prevent spoofing, and polling to display device status in real-time. Supporting **up to 2,000 m** of wired connectivity, Fibra is ready to protect any facilities and deliver the best user experience for both system owners and installers.



Informative notifications



Protected against
sabotage and spoofing

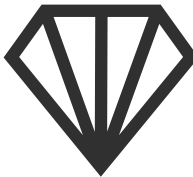


Up to 2,000 m of wired
communication range

12–300
sec

Adjustable polling interval:
from 12 to 300 s

Technical specifications

Compliance with standards	EN 50131 (Grade 2) PD 6662:2017	Compatibility	Hubs Hub Hybrid (2G) Hub Hybrid (4G) Range extenders no
Communication with control panel	 Fibra communication technology Wired connection U/UTP cat.5 4×2×0.51 with a copper conductor Signal cable 4×0.22 with a copper conductor Communication range up to 2,000 m With U/UTP cat.5 4×2×0.51 cable Protocol features Two-way communication Protection against sabotage Instant notifications Remote configuring in Ajax apps Polling interval 12–300 s Adjusted by PRO or user with admin rights in Ajax apps	Features	Types of notifications Acoustic LED Alarm volume from 85 to 113 dB at a distance of 1 m Adjusted by PRO or user with admin rights in Ajax apps Alarm duration from 3 s to 3 min Adjusted by PRO or user with admin rights in Ajax apps Piezoelectric buzzer frequency 3.5 ± 0.5 kHz

Alerts	<div><div>Alarms</div><div>Acoustic</div><div>LED</div></div> <div><div>Entry/exit delays</div><div>Acoustic</div></div> <div><div>Security mode change</div><div>Acoustic</div><div>LED</div></div> <div><div>Security status</div><div>LED</div></div> <div><div>Chime</div><div>Acoustic</div><div>If enabled, the siren makes a short beep to indicate that the opening detectors are triggered when the system is disarmed.</div></div> <div><div>After-alarm indication</div><div>LED</div></div>	Enclosure	<div><div>Colour</div><div>black, white</div></div> <div><div>Dimensions</div><div>198.5 × 198.5 × 59 mm</div><div>Without Brandplate</div></div> <div><div>198.5 × 198.5 × 63.25 mm</div><div>With Brandplate</div></div> <div><div>Weight</div><div>516 g</div><div>Without Brandplate</div></div> <div><div>527 g</div><div>With Brandplate</div></div> <div><div>Tamper alarm</div></div>
Installation	<div><div>Operating temperature range</div><div>from -25°C to +50°C</div></div> <div><div>Operating humidity</div><div>up to 95%</div></div> <div><div>Protection class</div><div>IP54</div></div> <div><div>Recommended installation height</div><div>2.5 m and higher</div></div>	Power supply	<div><div>Main power supply</div><div>24 V$\overline{=}$, up to 100 μA</div><div>From Fibra line</div></div> <div><div>Backup power supply</div><div>LTO 18650,</div><div>1500 mAh, 2.4 V$\overline{=}$</div><div>Up to 30 min of alarm signalling after main power failure</div></div>

Complete set	<div>StreetSiren DoubleDeck Fibra</div> <div>SmartBracket mounting panel</div> <div>Installation kit</div> <div>Quick Start Guide</div> <div>Complete set does not include Brandplate. It is available separately from StreetSiren DoubleDeck.</div>	
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HomeSiren Jeweller

Wireless siren with external LED connector.



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

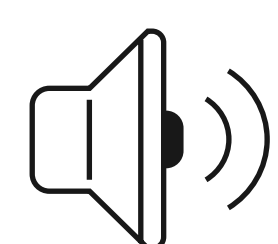
 <https://ajax.systems/support/devices/homesiren/>



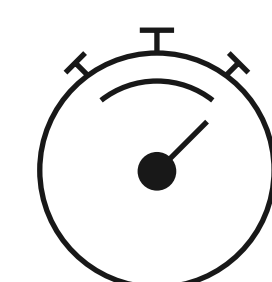
2
GRADE
EN 50131

PD 6662
2017

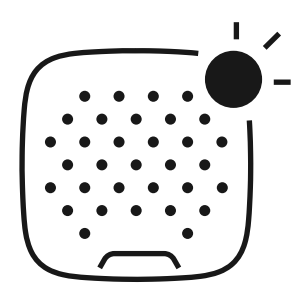
Key features



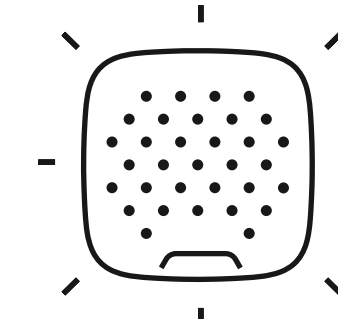
Adjustable volume: from 80 dB to 98 dB



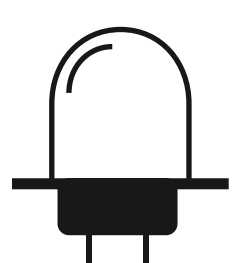
Adjustable alarm duration:
from 3 to 180 s



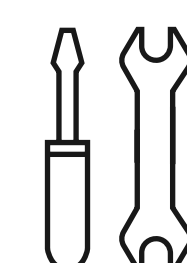
Delay and security mode
changing indication



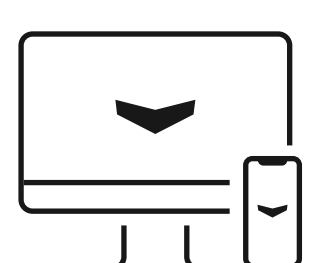
Door opening notifications



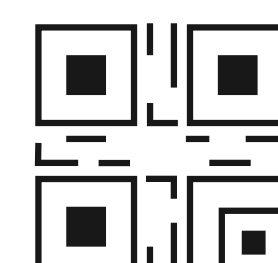
External LED connector



Effortless installation and replacement

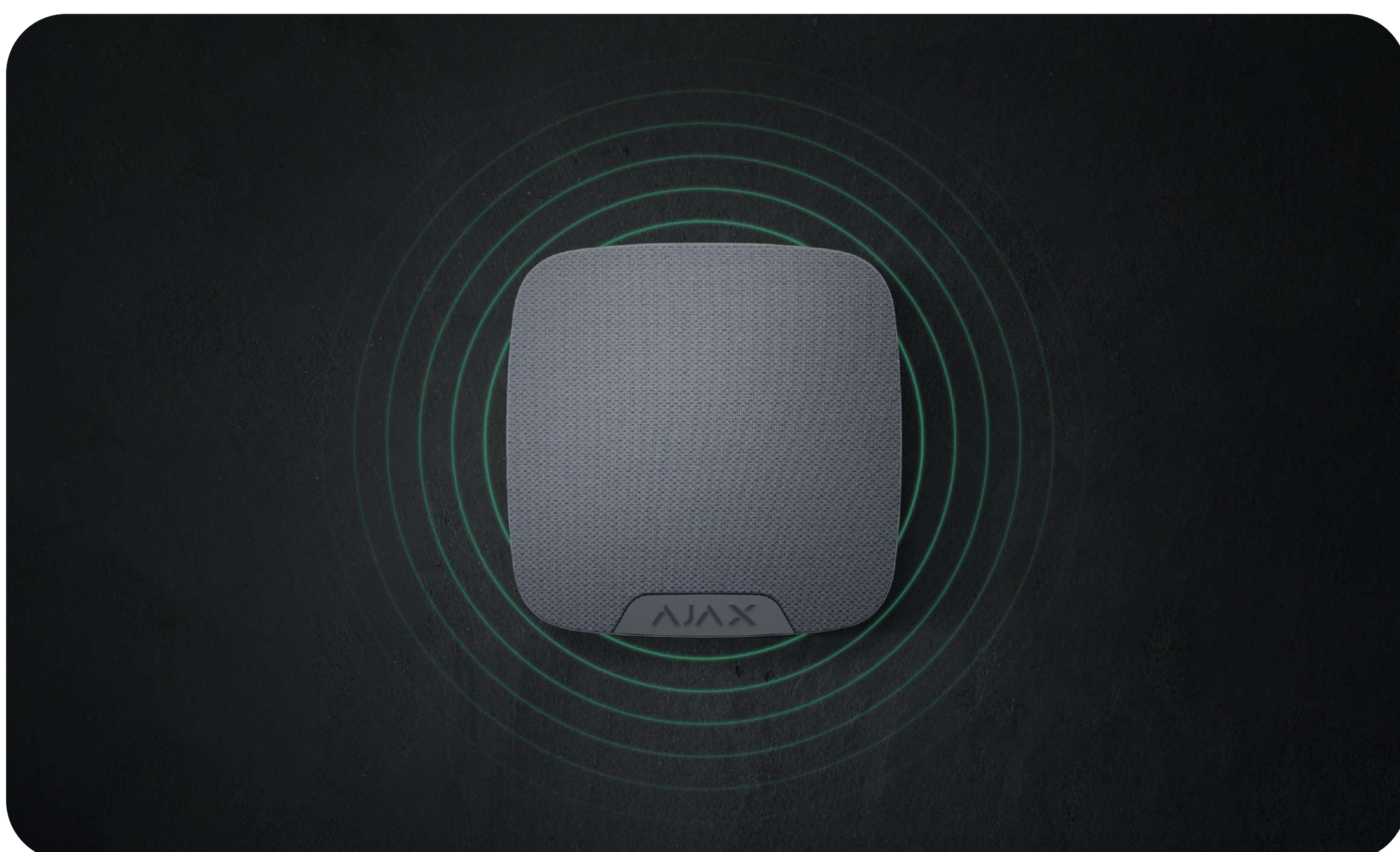


Remote control and setup via the app



Connecting via QR code

Operating principle

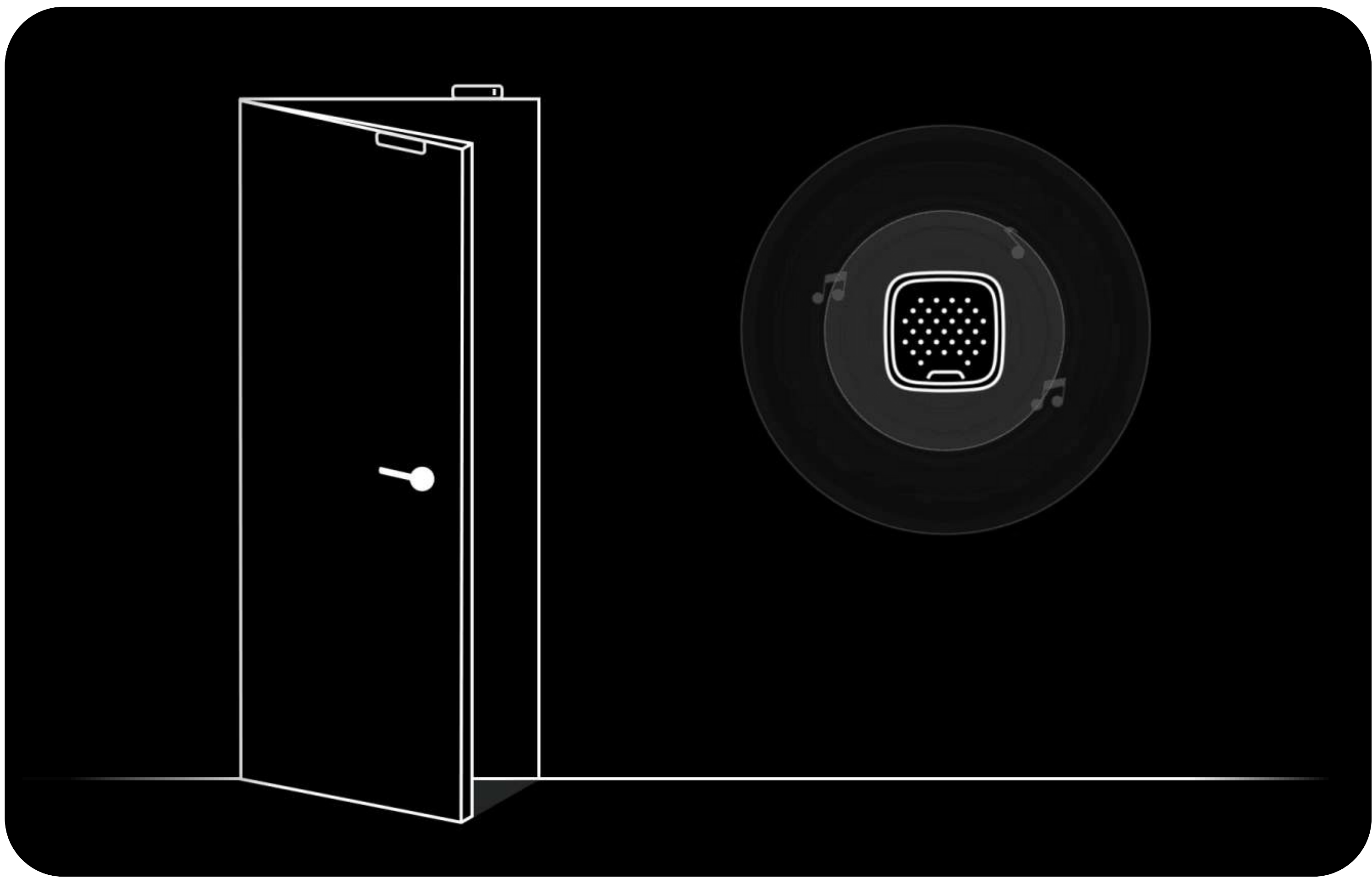


Informs about alarms

The siren responds to tamper and security system alarms in less than a second. It is loud enough to scare away intruders and attract the attention of neighbours.

Serves as a security status indicator

The siren LED notifies that the facility is armed, and a sound signal indicates **Delay When Entering / Leaving**. These are helpful features for the users who control the security system with a keypad or key fob.



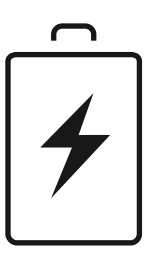
Notifies on door opening

When the **Chime** feature is enabled, the siren makes a special sound to indicate that the opening detectors are triggered when the system is disarmed. The feature is used, for example, in stores to notify employees that someone has entered the building.

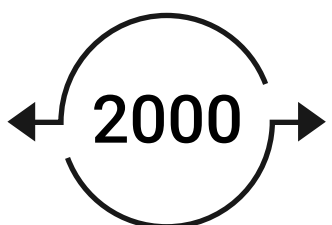


Jeweller is a **two-way wireless protocol** that provides fast and reliable communication between hubs and devices. The protocol delivers instant data-rich alarms: security companies and users know who and when has armed or disarmed the facility.

Jeweller features **encryption** and **authentication** to prevent forgery, and **polling** to display devices' status in real-time. Supporting up **to 2,000 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 2,000 m of two-way encrypted wireless communication between hub and siren

Technical specifications

Compliance with standards	EN 50131 (Grade 2) PD 6662:2017	Compatibility	Hubs all Ajax hubs Range extenders all Ajax radio signal range extenders
Communication with control panel and range extenders	 Jeweller communication technology 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 Maximum effective radiated power (ERP) ≤ 20 mW Communication range up to 2,000 m In an open space Polling interval 12 – 300 s Adjusted by PRO or user with admin rights in the Ajax app Protection against forgery Device authentication	Features	Types of notifications Acoustic LED Alarm volume from 80 to 98 dB at a distance of 1 m Adjusted by PRO or user with admin rights in the Ajax app Alarm duration from 3 to 180 s Adjusted by PRO or user with admin rights in the Ajax app Siren sound frequency 3.4 ± 0.5 kHz Additional LED connection 3 V An external LED works in parallel with the siren built-in LED and fully replicates its indication Chime The siren makes a special sound to notify that the opening detectors are triggered when the system is disarmed

Power supply	Battery 2 × CR123A Pre-installed Battery life up to 5 years	Installation	Operating temperature range from -10°C to +40°C Operating humidity up to 75%
Enclosure	Colours white, black Dimensions 75 × 76 × 27 mm Weight 97 g Tampering alarm	Complete set	HomeSiren Jeweller 2 × CR123A battery Pre-installed SmartBracket Connector for LED indicator Installation kit Quick Start Guide