

# Hub 2 (2G) Jeweller

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



2  
GRADE  
EN 50131

PD 6662  
2017



Find the detailed information on the device at the link:

 [ajax.systems/support/devices/hub-2/](https://ajax.systems/support/devices/hub-2/)

## Key features

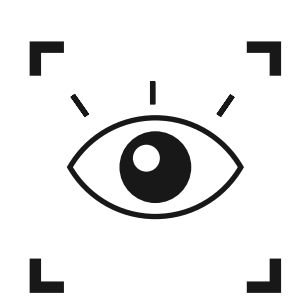
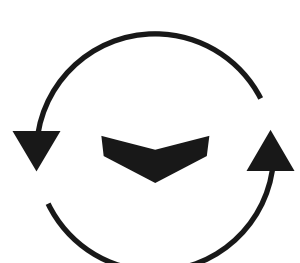
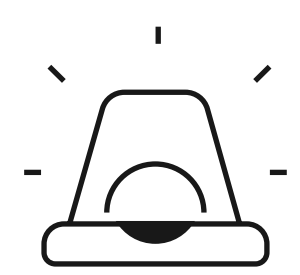


Photo verification support



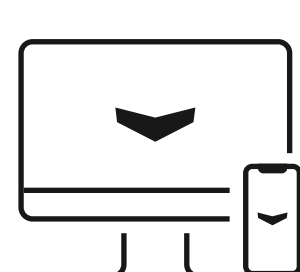
Free software updates



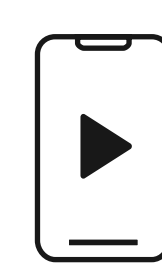
Connection to security company CMS



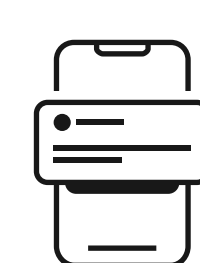
Tampering alarm



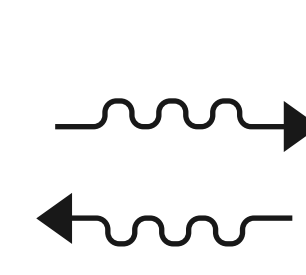
Remote control and setup via the app



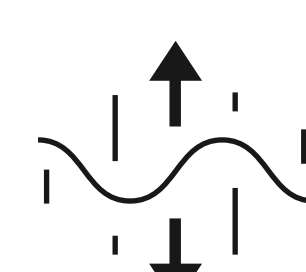
Video surveillance support



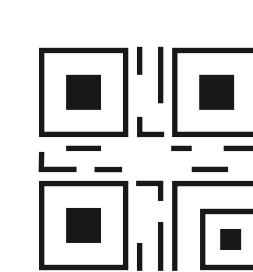
Informing users with push notifications, calls, and SMS



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



Frequency hopping



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.

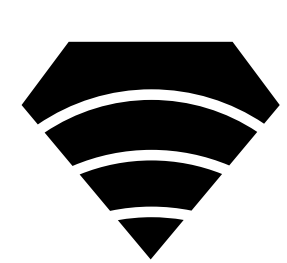


Hub is connected to the apps, security companies and users through the Ajax Cloud server with an availability of 99.995% in 2021. For reliability, the servers are located in several data centres. We use the proprietary binary protocol and automatic load balancing for the uninterrupted processing of millions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

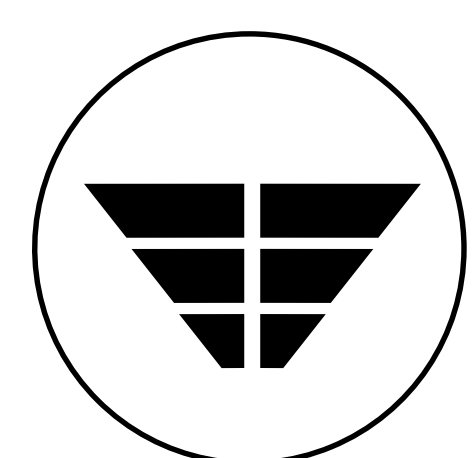
Hub reduces the security system's dependence on the conditions at the facility. The control panel is equipped with a backup battery, providing **up to 16 hours of autonomous operation** in case of a blackout. The system will report a power-down and a power restoration to the CMS and all users.

## Guaranteed delivery of alarms and photo confirmations

Jeweller



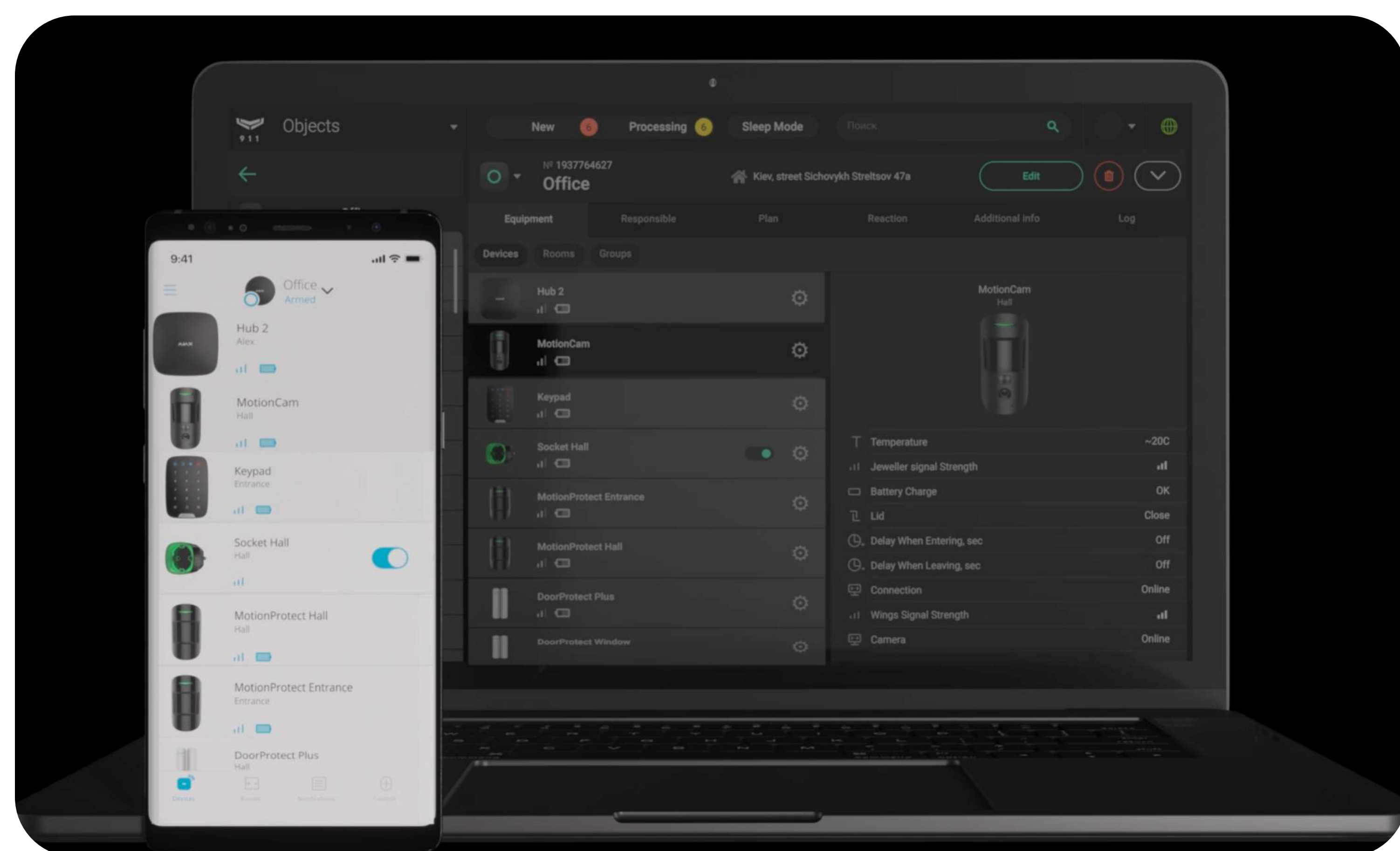
Jeweller provides two-way communication between a hub and connected devices at a distance of up to 2,000 meters. Jeweller uses time frames to synchronize communication with connected devices, authentication to eliminate forgery, and encryption to protect against data theft.



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

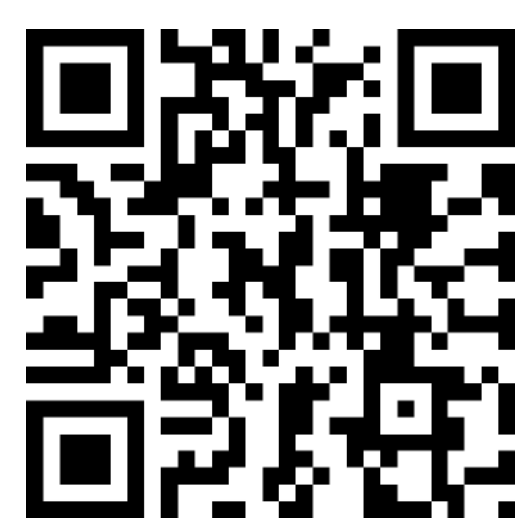
Compliance with standards	EN 50131 (Grade 2) PD 6662:2017	Connection to CMS	SurGard (Contact ID) SIA (DC-09) ADEMCO 685 Other proprietary protocols
Connected devices	up to 100 wireless devices Including up to 5 range extenders and up to 10 sirens.	Features	50 users 25 cameras or DVRs 32 automation scenarios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

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



# MotionCam Jeweller

Wireless indoor IR motion detector supporting photo verification of alarms.



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

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



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## Key features

Up to 12 m detection distance

Pet immunity

False alarms prevention algorithm

Up to 4 years of operation on pre-installed batteries

Remote control and setup via the app

88.5°/80° viewing angles

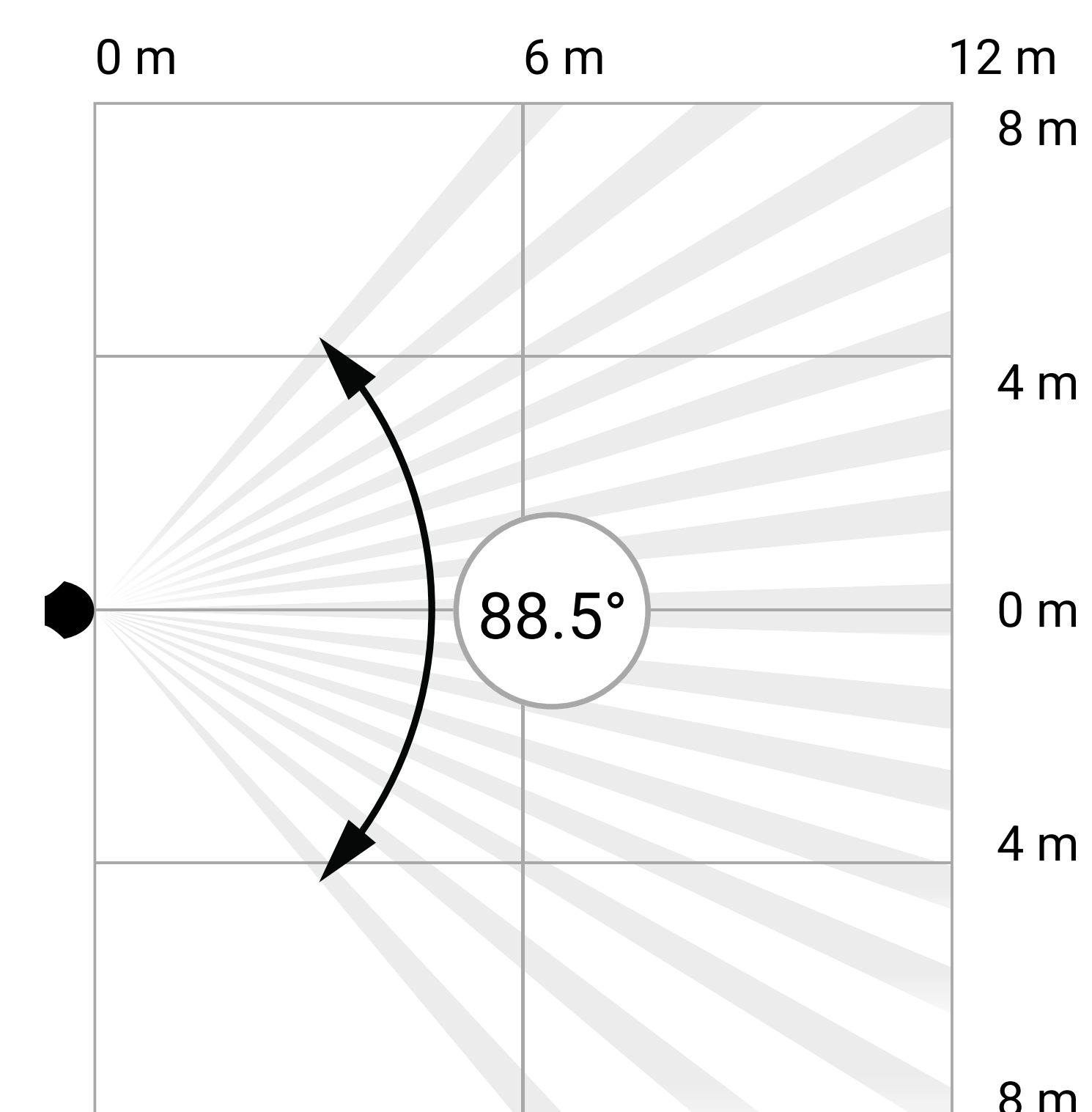
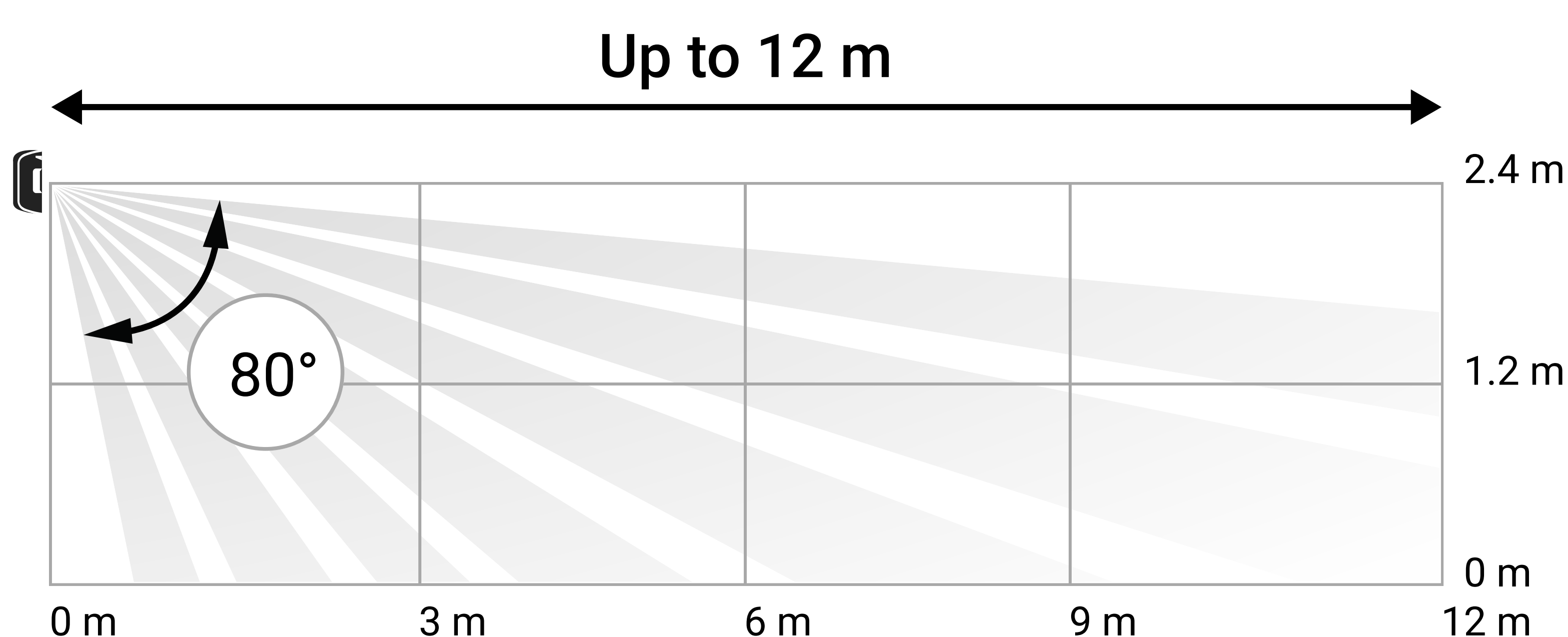
Temperature compensation

A built-in camera for photo verification

Effortless installation and replacement

Connecting via QR code

## Angles and detection range





# False alarms prevention

## Optics

The detector lens increases sensitivity to human motion, cutting off false alarms caused by 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 IR sensor: the intensity of IR radiation, the size of the thermal spots, the speed of movement and other parameters.

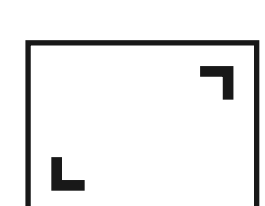
## Installation

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. The detector has pre-installed batteries and the SmartBracket mounting panel. So, installers don't need to disassemble the device and won't damage the electronics during installation.

# Photo verification



MotionCam equipped with a built-in camera to show the real situation at the facility. A built-in camera is activated if the detector is armed and motion is detected. Only users with access to the hub event feed and security company employees can view the photos. The detector software architecture does not support taking a photo on demand.



Up to 640 × 480 pixels  
photo resolution



Up to 5 photos in a series



IR backlight for low light  
conditions

# Privacy on demand

MotionCam is designed to control security, not privacy. Graphic data is securely protected by encryption at each step of transmission and storage. Only hub users can access its virtual storage on Ajax Cloud and view photos taken by MotionCam detectors. Photos are stored for up to 6 months in the hub event log in Ajax apps. The Ajax Cloud is located on geographically distributed servers in compliance with the General Data Protection Regulation (GDPR) requirements.



# Monitoring software supporting the Ajax photo verification



Horus



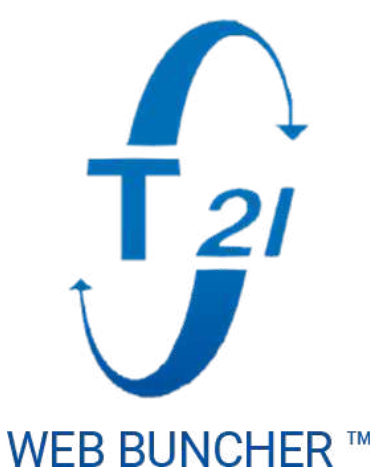
Manitou



SBN



Sentinel



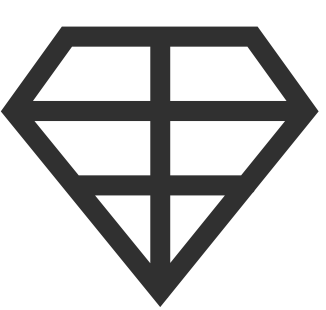
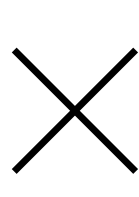
WBB

See the full list by the link: [ajax.systems/connecting-to-cms/](https://ajax.systems/connecting-to-cms/)

# Two-way encrypted communication



Jeweller



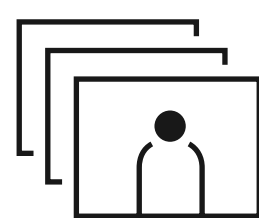
Wings

communication technology

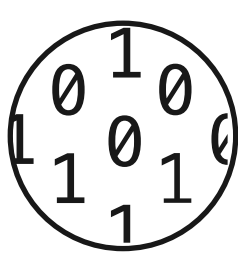


**Jeweller** and **Wings** are two-way **wireless data transfer protocols** that provide fast and reliable communication between hubs and connected devices. **Jeweller** delivers instant data-rich alarms: security companies and users know which device was triggered, when and where it happened. **Wings** delivers photos taken by a detector built-in camera.

Both protocols feature **encryption** and **authentication** to prevent forgery, and **polling** to display devices' status. Supporting **up to 1,700 m** of wireless connectivity between MotionCam detectors and hub (or range extender), Jeweller and Wings are ready to protect facilities and deliver **the best user experience** for both end users and installers.



The first photo delivery in 9 s<sup>1</sup>



Alarm delivery within 0.3 s

# Technical specifications


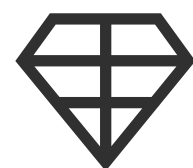
Compliance with standards	EN 50131 (Grade 2) PD 6662:2017	CMS connectivity	<b>Hubs</b> Hub 2 Hub 2 Plus Hub Hybrid (2G) Hub Hybrid (4G)  <b>Range extenders</b> ReX 2
Communication channels with Ajax devices	<div> <b>Jeweller communication technology</b></div> <div> <b>Wings communication technology</b></div> <div><b>Frequency bands</b> 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><b>Maximum effective radiated power (ERP)</b> ≤ 20 mW</div> <div><b>Communication range</b> up to 1,700 m In an open space.</div> <div><b>Polling interval</b> 12–300 s Adjusted by PRO or user with admin rights in the Ajax app.</div> <div><b>Protection against forgery</b> Device authentication</div>	Motion detection	<b>Sensitive element</b> PIR sensor  <b>Detection distance</b> up to 12 m When installed at a height of 2.4 m.  <b>Detection angles</b> horizontal – 88.5° vertical – 80°  <b>Motion detection speed</b> 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.  <b>Temperature compensation</b>  <b>Sensitivity</b> 3 levels Adjusted by PRO or user with admin rights in the Ajax app.  <b>Pet immunity</b> weight: up to 20 kg height: up to 50 cm



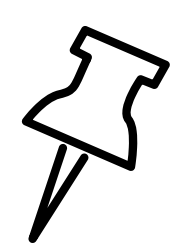
Photo verification	<p><b>Photo resolution in pixels</b> 640 × 480 320 × 240 (default) 160 × 120 Adjusted by PRO or user with admin rights in the Ajax app</p> <p><b>Photos in a series</b> from 1 to 5 pics Adjusted by PRO or user with admin rights in the Ajax app</p> <p><b>IR backlight</b></p>	Installation	<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>
Power supply	<p><b>Battery</b> 2 x CR123A Pre-installed.</p> <p><b>Battery life</b> up to 4 years</p>	Enclosure	<p><b>Colour</b> white, black</p> <p><b>Dimensions</b> 110 × 65 × 50 mm</p> <p><b>Weight</b> 86 g</p> <p><b>Tampering alarm</b></p>
Complete set	<p>MotionCam Jeweller 2 × CR123A battery Pre-installed SmartBracket mounting panel Installation kit Quick Start Guide</p>		

# DoorProtect Jeweller

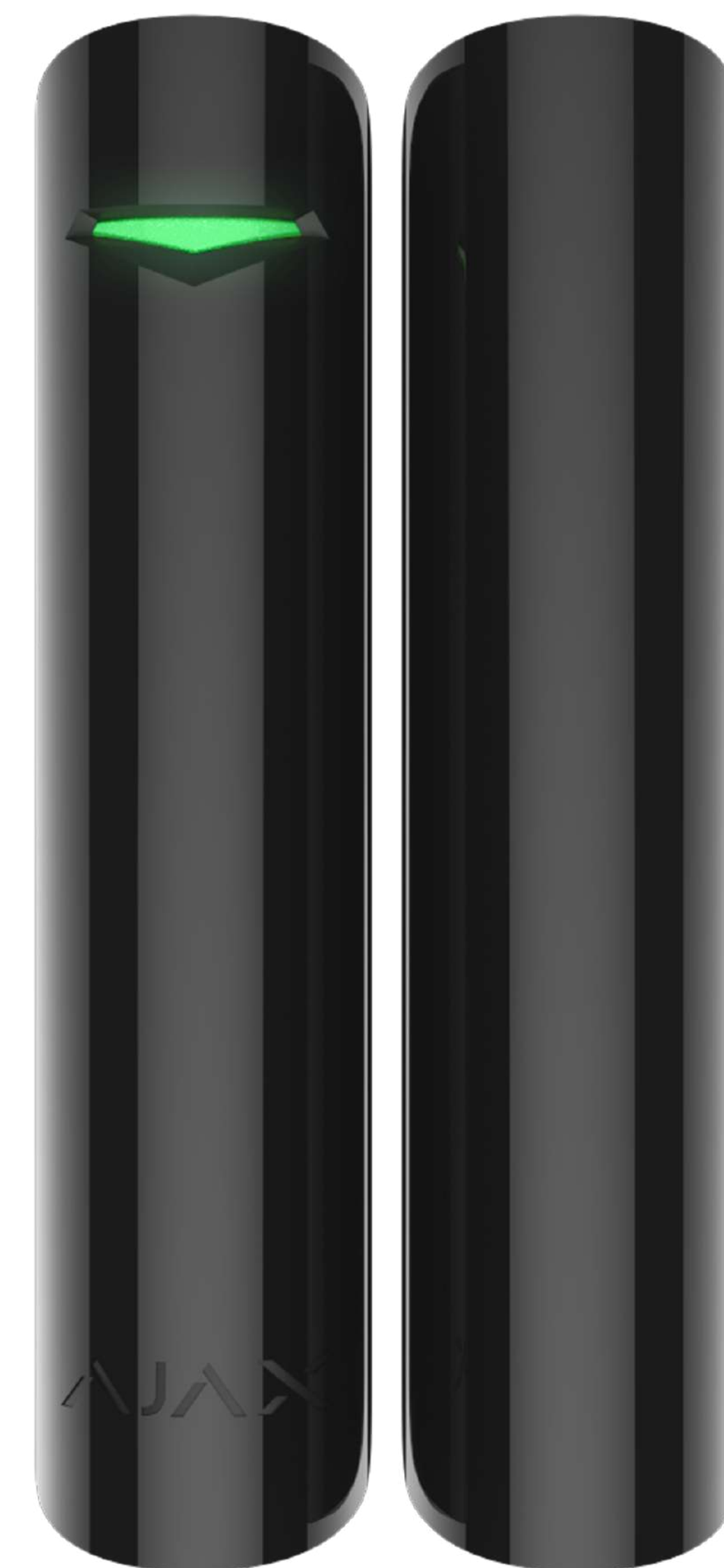
Wireless indoor opening detector



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



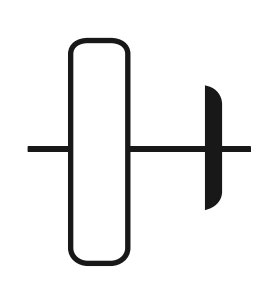
<https://ajax.systems/support/devices/doorprotect/>



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PD 6662  
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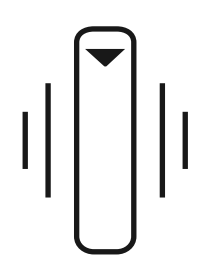
## Key features



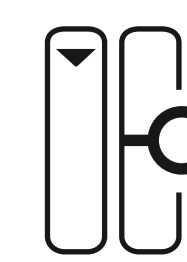
More installation options with two  
magnets of different size



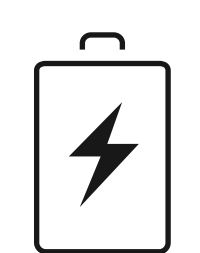
The reed switch with a resource  
of 2,000,000 openings



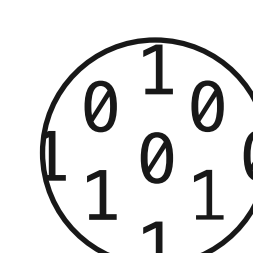
Protected against reed switch  
chattering



Additional NC input for connecting a  
third-party detector



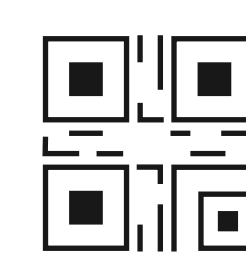
Up to 7 years of operation on pre-  
installed battery



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	<b>Hubs</b> all Ajax hubs  <b>Range extenders</b> all Ajax radio signal range extenders
Communication with control panel and range extenders	 <b>Jeweller communication technology</b>  <b>Frequency bands</b> 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  <b>Maximum effective radiated power (ERP)</b> ≤ 20 mW  <b>Communication range</b> up to 1,200 m In an open space  <b>Polling interval</b> 12–300 sec Adjusted by PRO or user with admin rights in the Ajax app  <b>Protection against forgery</b> Device authentication	Detection	<b>Sensing element</b> 1 × reed switch  <b>Opening sensors resource</b> 2,000,000 openings  <b>Third-party detector connection</b> 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>

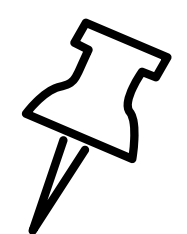


# KeyPad Jeweller

Wireless touch keypad.



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



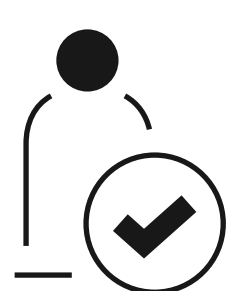
[ajax.systems/support/devices/keypad/](https://ajax.systems/support/devices/keypad/)



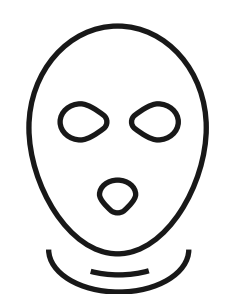
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EN 50131

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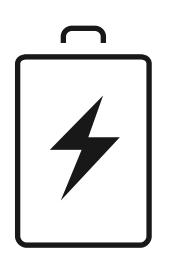
## Key features



Up to 200 personal passcodes



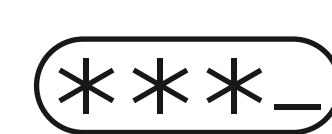
Duress code



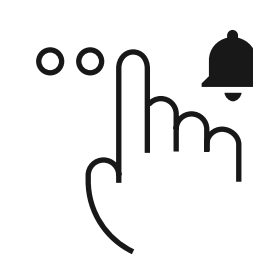
Up to 2 years of the  
pre-installed batteries life



Remote control and setup via the app



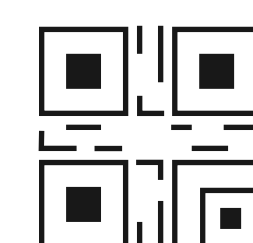
Protection against the  
passcode guessing



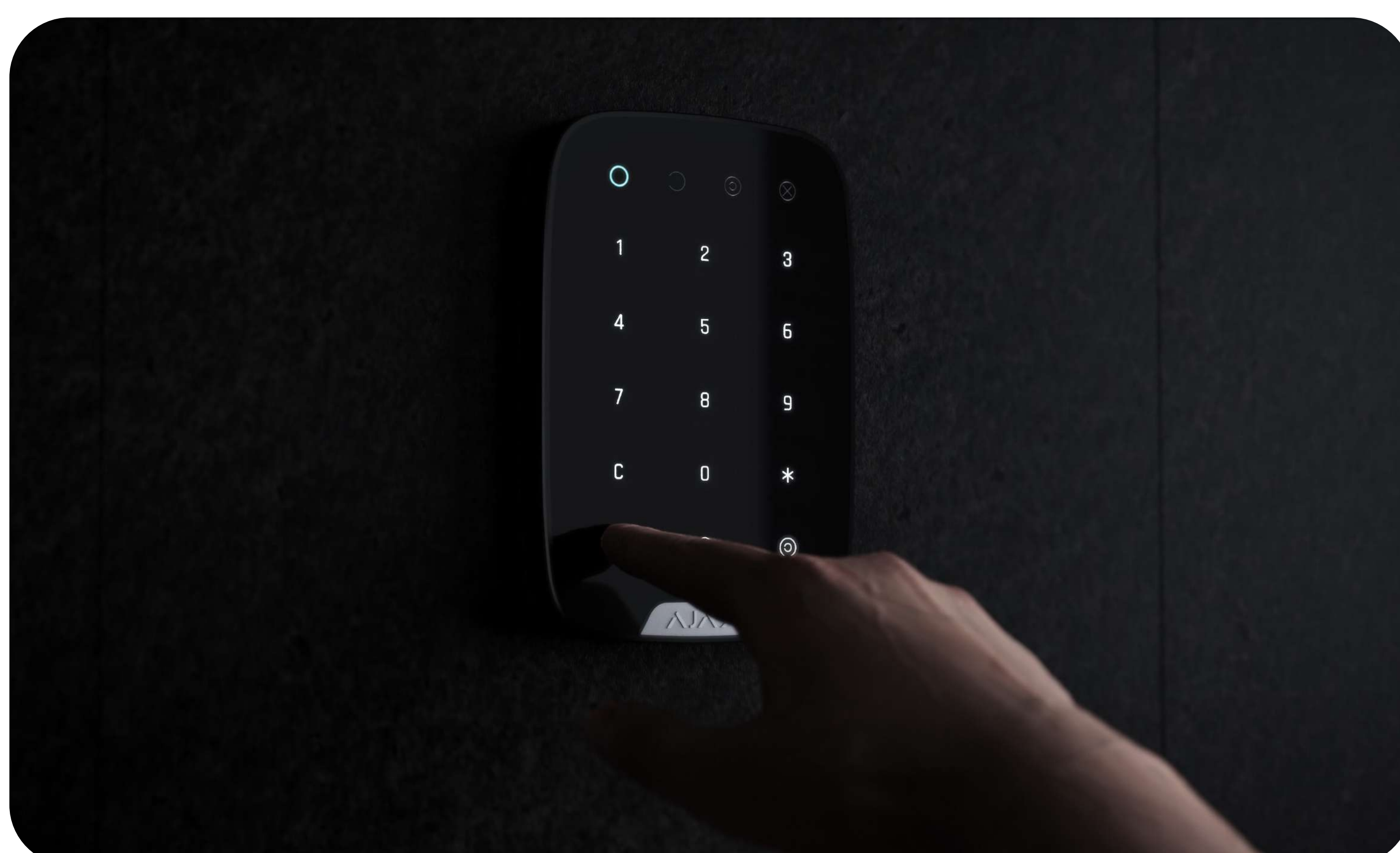
Panic button



SmartBracket mounting panel  
for the ease of installation



Pairing with the system via QR code



## Security system management

KeyPad supports the general passcode, the personal passcodes, and the security activation without entering a passcode. The personal passcodes provide detailed information: the app log and notifications show the security mode changing event and the name of the user who did it.

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.



## Duress code

Duress code allows users to simulate disarming via Keypad. The sirens, the app, and the keypad indication will not give away the user, but the alarm signal is instantly transmitted to a central monitoring station. The security system users also receive notifications on this event.



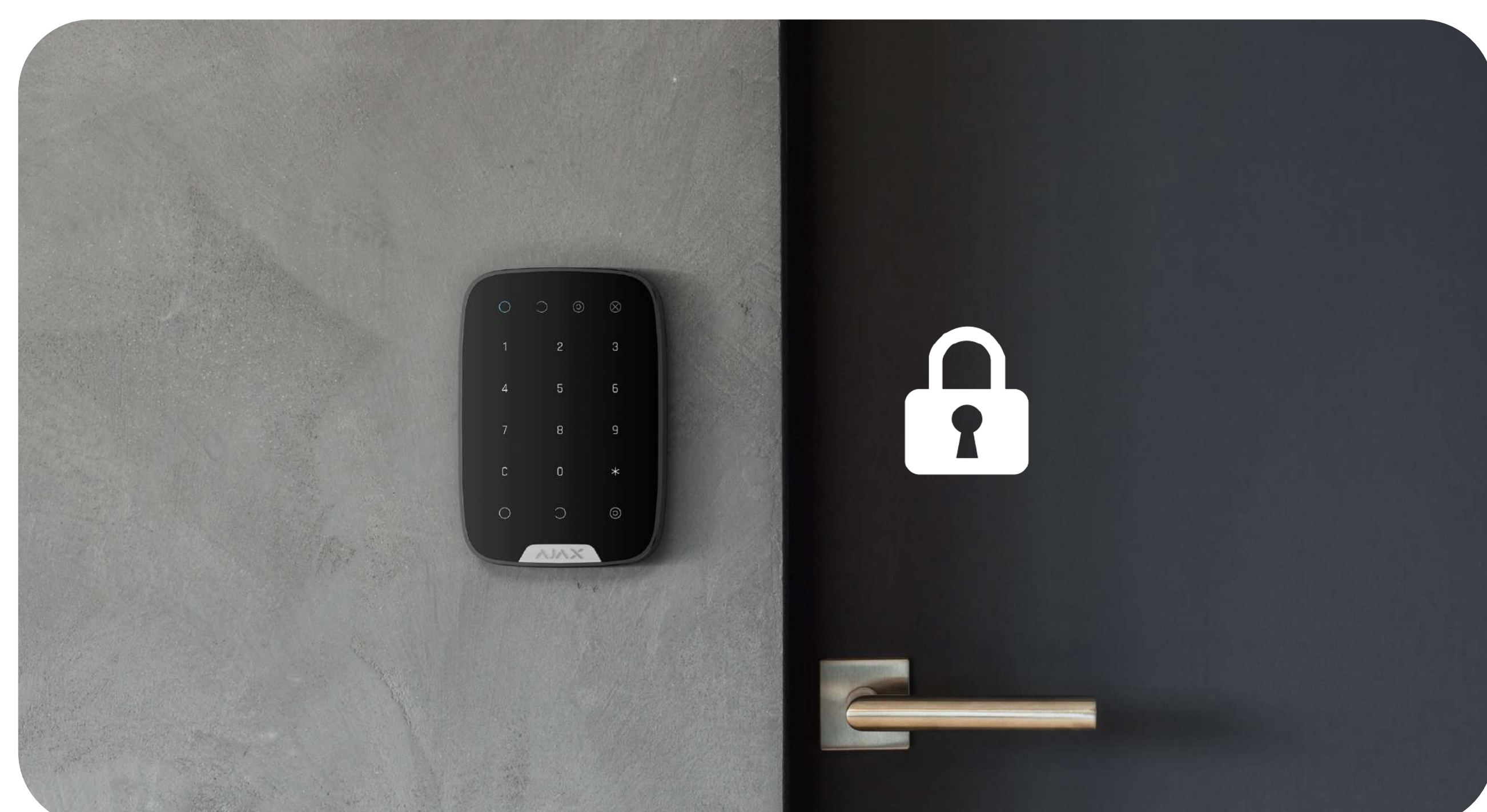
## Function button

Keypad featured the **Function button**, which can be used as a panic button. Or, you can set it to mute the **Interconnected Fire Detectors Alarms**: press the keyboard button to mute the sirens of the Ajax fire detectors.



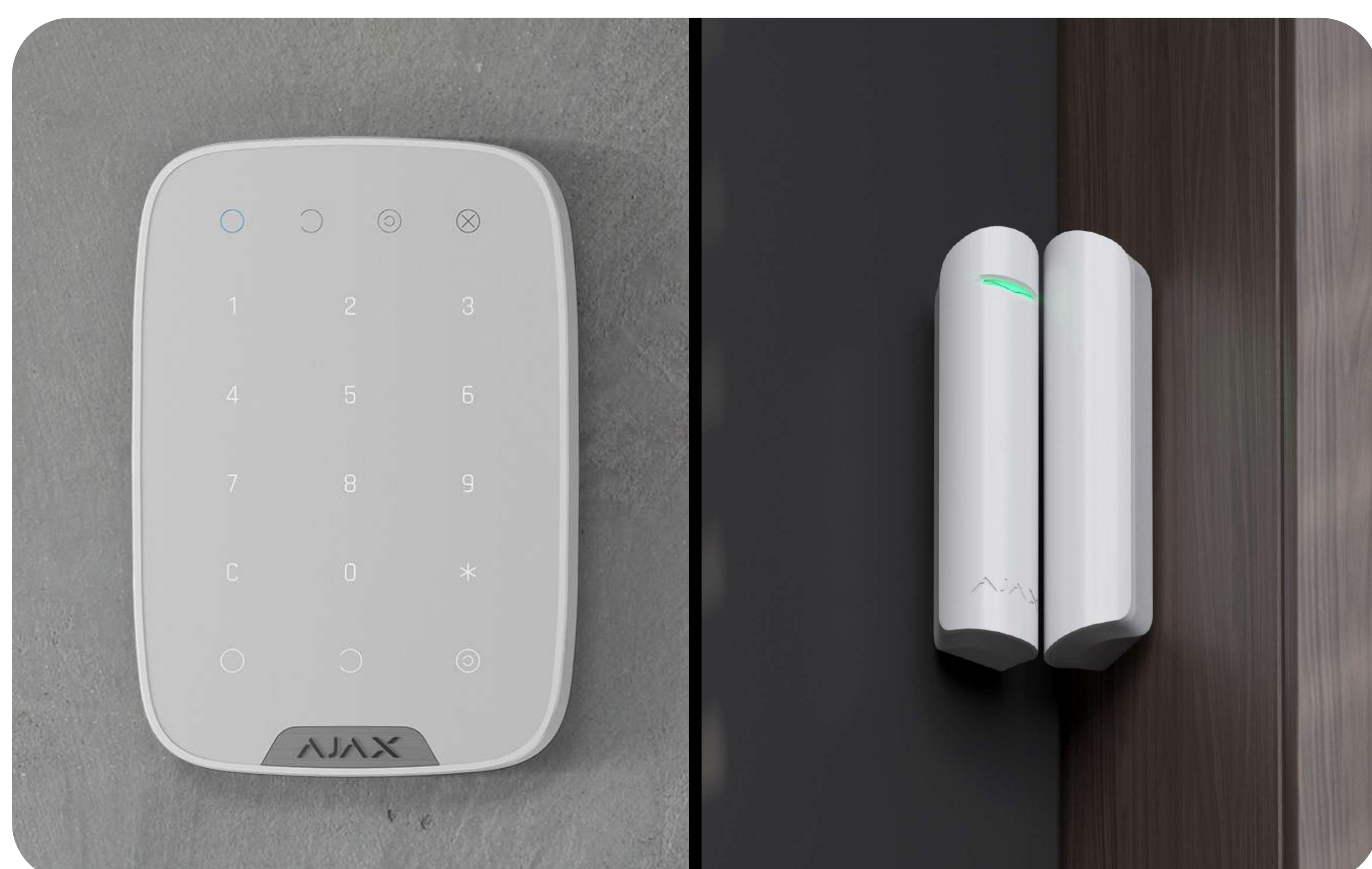
## Unauthorized access auto-lock

Three wrong passcodes entered a row blocks the keypad for the time adjusted in the settings. The hub will inform the users and the security company about the incident, and all the passcodes will be ignored during the auto-lock time.

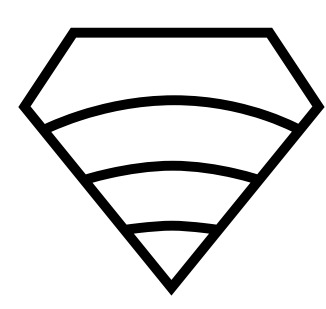


## Two-stage arming

The feature splits the arming process into two stages: initiation and finishing. Users can initiate arming via Keypad. In this case, the system will be armed when a Second-Stage Device is triggered. For instance, when closing the door on which the DoorProtect detector is installed.







Jeweller


communication technology



The **Jeweller** radio protocol provides **fast and reliable two-way communication** between the hub and the system devices. The protocol delivers instant data-rich alarms and events: the security companies and the users know who and when has changed a security mode or press a panic button.

Jeweller features **encryption** and **authentication** to prevent spoofing, and **polling** to display the devices' statuses. Supporting **up to 1,700 m** of wireless connectivity, Jeweller is ready to protect facilities and deliver **the best user experience** for both system owners and installers.

## Technical specifications

Compliance with standards	EN 50131 (Grade 2) PD 6662:2017	Compatibility	<b>Hubs</b> All Ajax hubs  <b>Range extenders</b> all Ajax radio signal range extenders
Communication with the hub or range extender	 <b>Jeweller communication technology</b>  <b>Frequency bands</b> 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  <b>Maximum effective radiated power (ERP)</b> ≤ 20 mW	Features	<b>Security mode indication</b> The device is activated and the touch buttons light up once the user touches the keyboard, so it's easy to enter the passcode even in the dark. Pressing the buttons is accompanied by an audible signal.  <b>Passcodes</b> up to 200 personal passcodes One per user. The number of users depends on the hub model  1 general passcode One per the keyboard



Communication with the hub or range extender	<p><b>Communication range</b> up to 1,700 m In an open space</p> <p><b>Polling interval</b> 12 – 300 s Adjusted by PRO or user with admin rights in the Ajax app</p> <p><b>Protection against spoofing</b> Device authentication</p>	Features	<p><b>Duress code</b> up to 200 personal passcodes One per user. The number of users depends on the hub model</p> <p>One general passcode for the keyboard</p> <p><b>Function button</b> Panic button To activate an alarm</p> <p>Mute fire alarms Button mutes the Interconnected Fire Detectors Alarms</p> <p><b>Code guessing protection</b> Keyboard locks for 3-180 minutes if an incorrect code is entered 3 times in a row within 1 minute. The auto-lock time is adjusted by PRO or user with admin rights in the Ajax app.</p>
Power supply	<p><b>Battery</b> 4 × AAA battery Pre-installed</p> <p><b>Battery life</b> up to 2 years</p>	Installation	<p><b>Operating temperature range</b> from -10°C to +40°C</p> <p><b>Operating humidity</b> up to 75%</p>
Enclosure	<p><b>Colours</b> white, black</p> <p><b>Dimensions</b> 150 × 103 × 14 mm</p> <p><b>Weight</b> 197 g</p> <p><b>Tampering alarm</b></p>	Complete set	<p>KeyPad Jeweller 4 × AAA battery Pre-installed SmartBracket mounting panel Installation kit Quick Start Guide</p>

# 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/](https://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



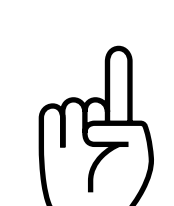
StreetSiren

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/](https://ajax.systems/brandplate-constructor/)



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



# Notifies about everything



## Alarms

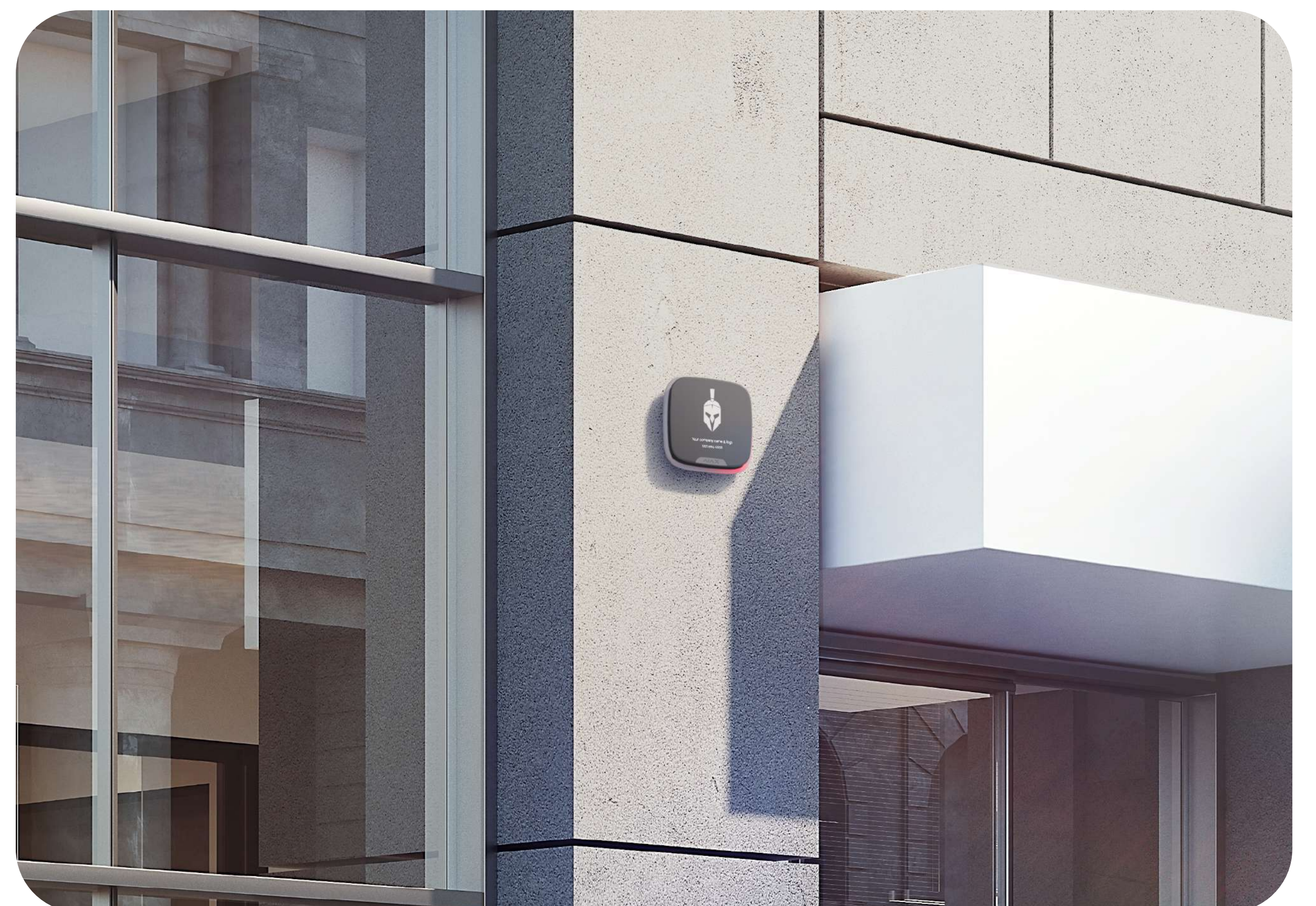
The siren responds to alarms with a bright LED and a buzzer loud enough to scare away intruders and draw the attention of neighbours. It can be set to generate sound from 85 to 113 dB for an adjustable period of 3 seconds to 3 minutes.

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.

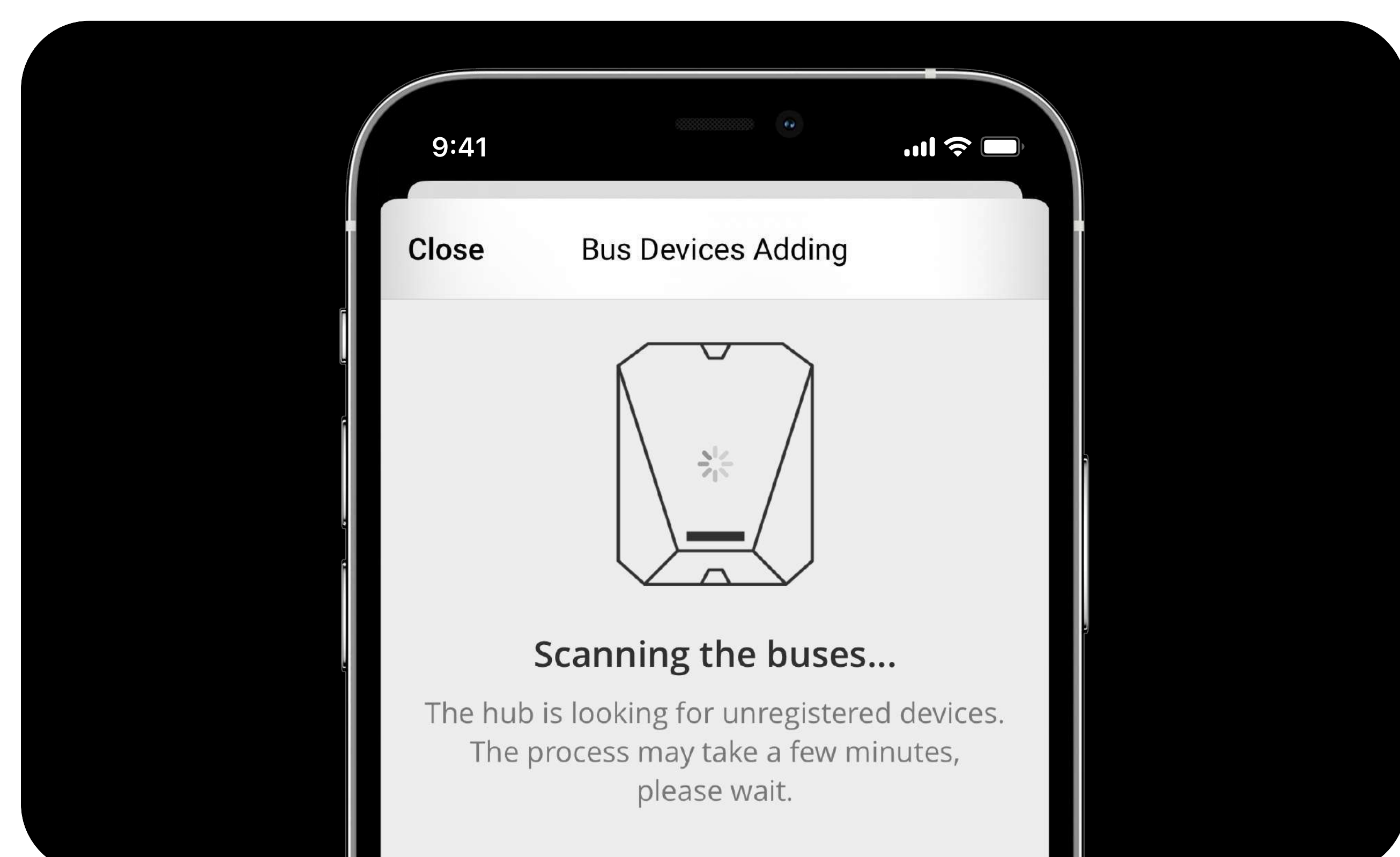
## Easy installation

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.

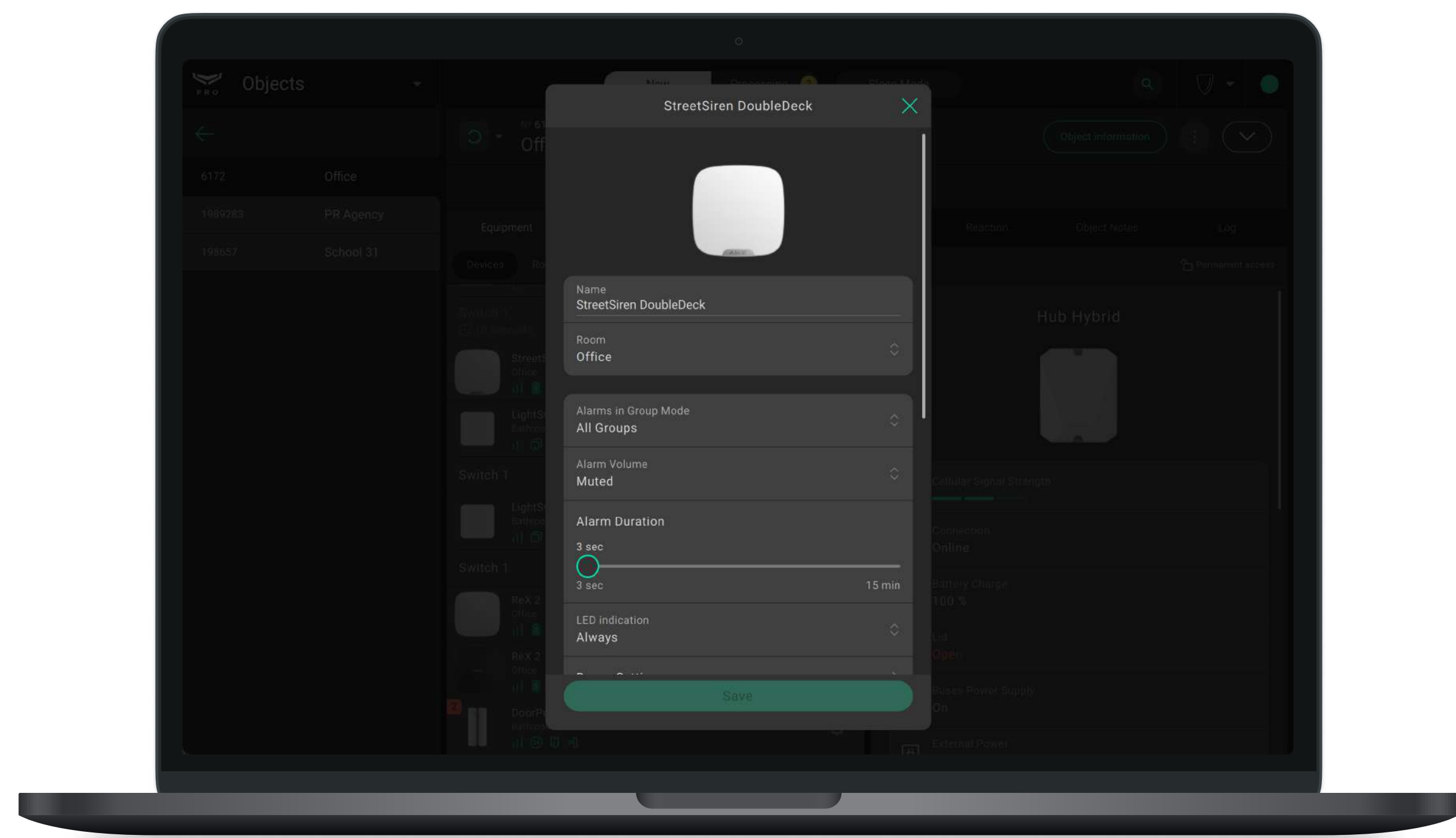
There is no need to disassemble the siren: the board with terminals is located outside the enclosure to eliminate hardware damage during installation. The board is removable, which makes connecting the wires more comfortable, and it can be easily installed back on special racks after connection. For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







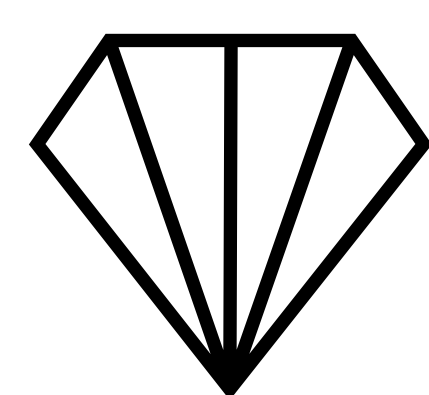
## Remote configuring

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/](https://ajax.systems/products/fibra/power-calculator/)



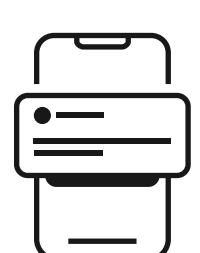
# Fibra

## 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.

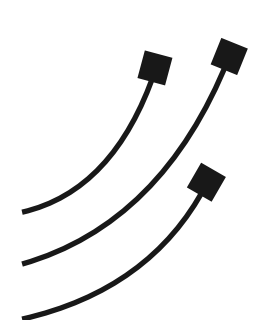
Fibra features encryption and authentication to prevent spoofing, and polling to display device status in real-time. Supporting **up to 2,000 m** of wired connectivity, Fibra is ready to protect any facilities and deliver the best user experience for both system owners and installers.



Informative notifications



Protected against  
sabotage and spoofing



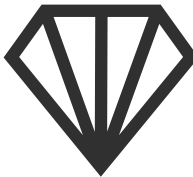
Up to 2,000 m of wired  
communication range

12–300  
sec

Adjustable polling interval:  
from 12 to 300 s



# Technical specifications

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

Alerts	<div><div><b>Alarms</b></div><div>Acoustic</div><div>LED</div></div> <div><div><b>Entry/exit delays</b></div><div>Acoustic</div></div> <div><div><b>Security mode change</b></div><div>Acoustic</div><div>LED</div></div> <div><div><b>Security status</b></div><div>LED</div></div> <div><div><b>Chime</b></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><b>After-alarm indication</b></div><div>LED</div></div>	Enclosure	<div><div><b>Colour</b></div><div>black, white</div></div> <div><div><b>Dimensions</b></div><div>198.5 × 198.5 × 59 mm</div><div>Without Brandplate</div></div> <div><div><b>198.5 × 198.5 × 63.25 mm</b></div><div>With Brandplate</div></div> <div><div><b>Weight</b></div><div>516 g</div><div>Without Brandplate</div></div> <div><div><b>527 g</b></div><div>With Brandplate</div></div> <div><div><b>Tamper alarm</b></div></div>
Installation	<div><div><b>Operating temperature range</b></div><div>from -25°C to +50°C</div></div> <div><div><b>Operating humidity</b></div><div>up to 95%</div></div> <div><div><b>Protection class</b></div><div>IP54</div></div> <div><div><b>Recommended installation height</b></div><div>2.5 m and higher</div></div>	Power supply	<div><div><b>Main power supply</b></div><div>24 V<math>\overline{=}</math>, up to 100 <math>\mu</math>A</div><div>From Fibra line</div></div> <div><div><b>Backup power supply</b></div><div>LTO 18650,</div><div>1500 mAh, 2.4 V<math>\overline{=}</math></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.

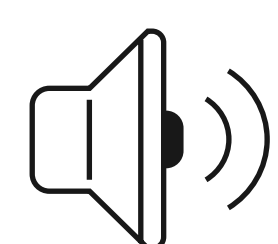


An Ajax hub is required for operation.  
Find the detailed information on the device at the link:

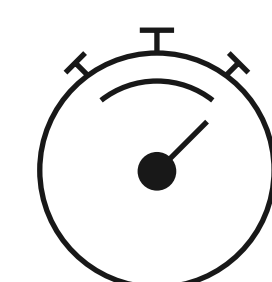
 <https://ajax.systems/support/devices/homesiren/>



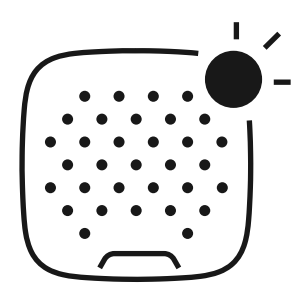
## Key features



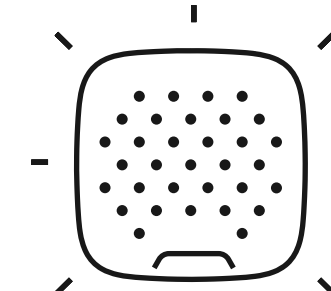
Adjustable volume: from 80 dB to 98 dB



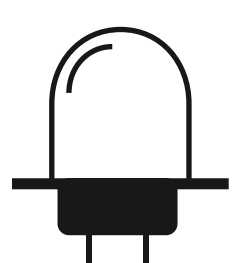
Adjustable alarm duration:  
from 3 to 180 s



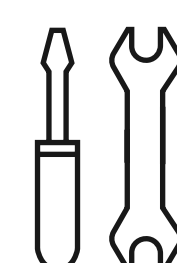
Delay and security mode  
changing indication



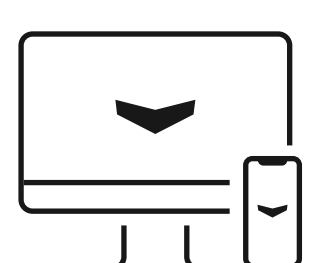
Door opening notifications



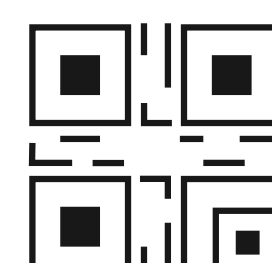
External LED connector



Effortless installation and replacement

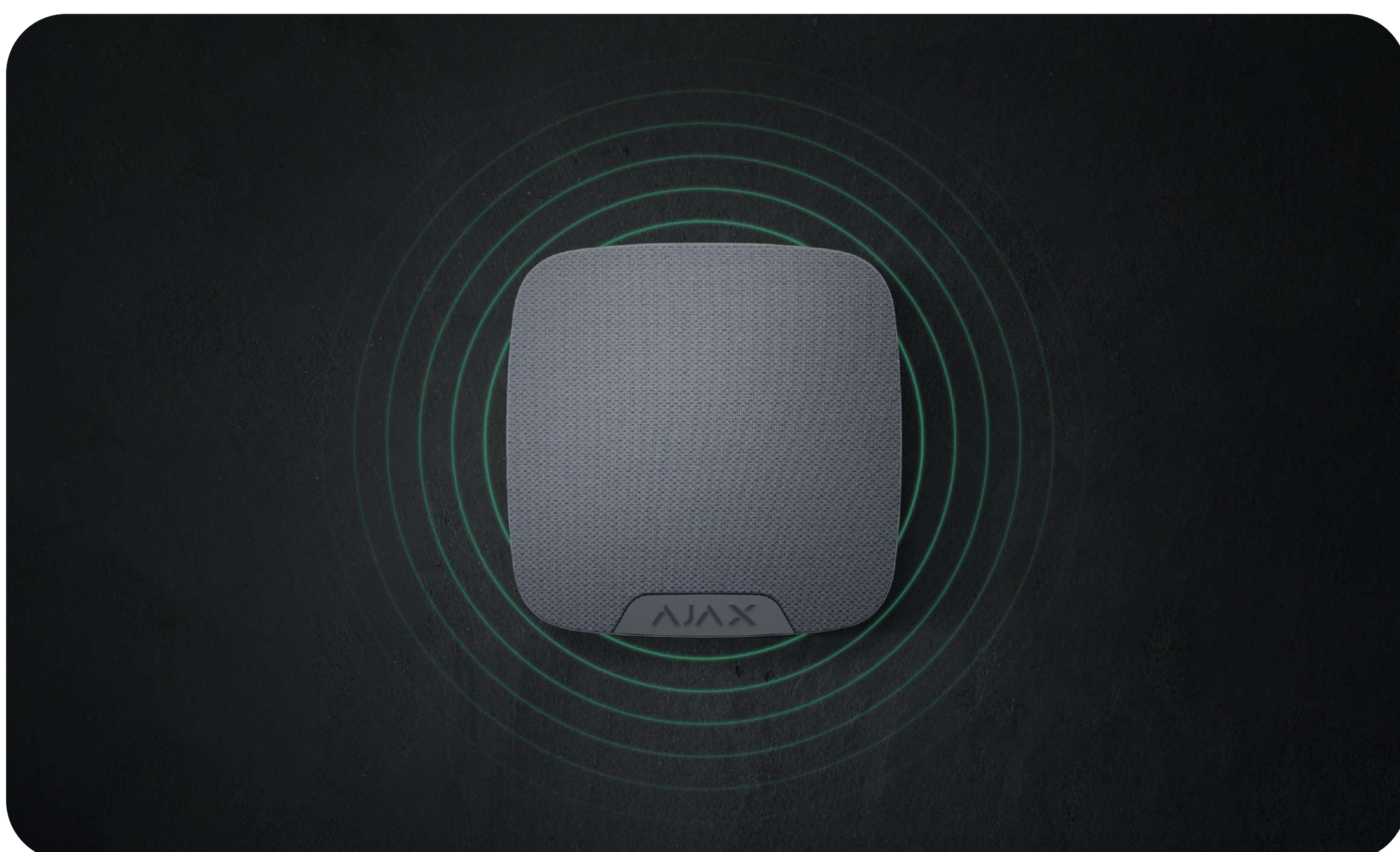


Remote control and setup via the app



Connecting via QR code

## Operating principle



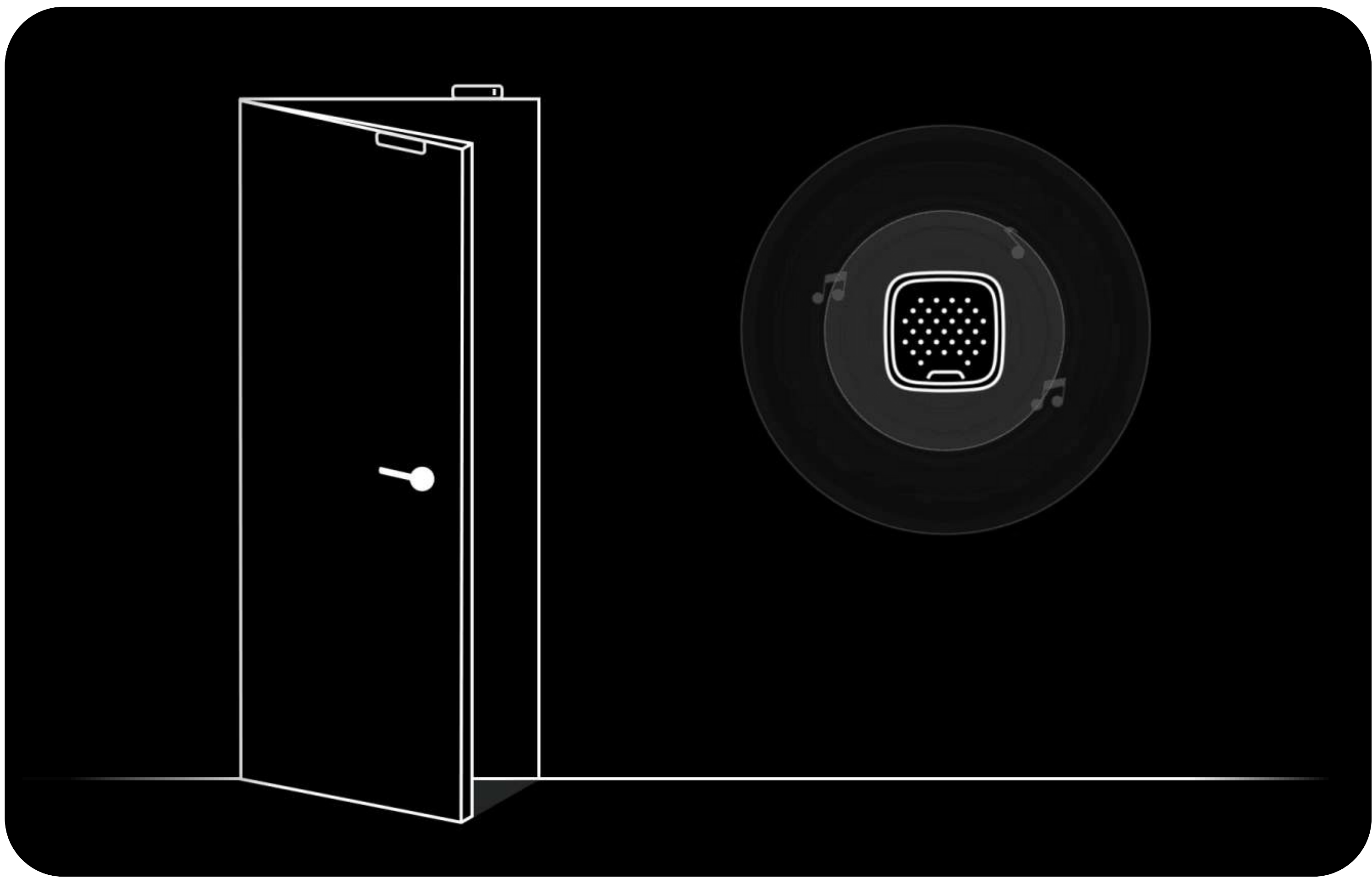
## Informs about alarms

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.



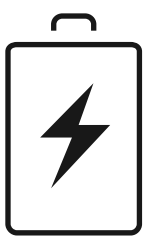
# Notifies on door opening

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.

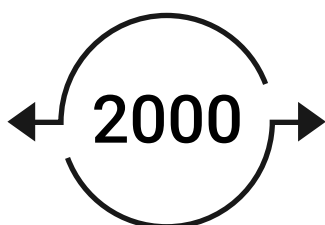


**Jeweller** is a **two-way wireless protocol** that provides fast and reliable communication between hubs and devices. The protocol delivers instant data-rich alarms: security companies and users know who and when has armed or disarmed the facility.

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

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