

AJAX

Professional Wireless Security System



# Contents

04	Professional wireless security	34	GlassProtect
05	Home automation	36	CombiProtect
06	Unique communication technologies	38	Button
07	Security of any scale	40	KeyPad
08	OS Malevich	41	SpaceControl
09	Anti-sabotage	42	HomeSiren
10	Ajax Cloud	43	StreetSiren
11	Video surveillance	44	FireProtect / FireProtect Plus
12	Seamless setup	46	LeaksProtect
13	Apps for end users	47	Socket
14	Apps for PROs	48	WallSwitch
16	Connection to CMS	49	Relay
16	Enterprise API	50	Transmitter
18	Hubs	52	uartBridge
22	ReX	53	ocBridge Plus
24	MotionCam	54	12V PSU
26	MotionProtect / MotionProtect Plus		<b>Upcoming Products:</b>
28	MotionProtect Curtain	56	Hub 2 Plus
30	MotionProtect Outdoor	57	MultiTransmitter
32	DoorProtect / DoorProtect Plus	58	StreetSiren DoubleDeck with BrandPlate

# The Most Awarded Wireless Security System in Europe



Intruder Alarm of the Year



The Best Innovative Product



Innovative Security Product of the Year

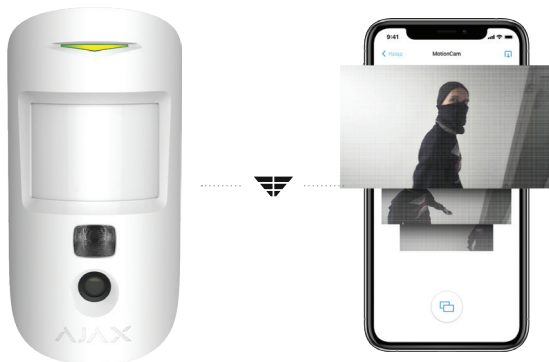
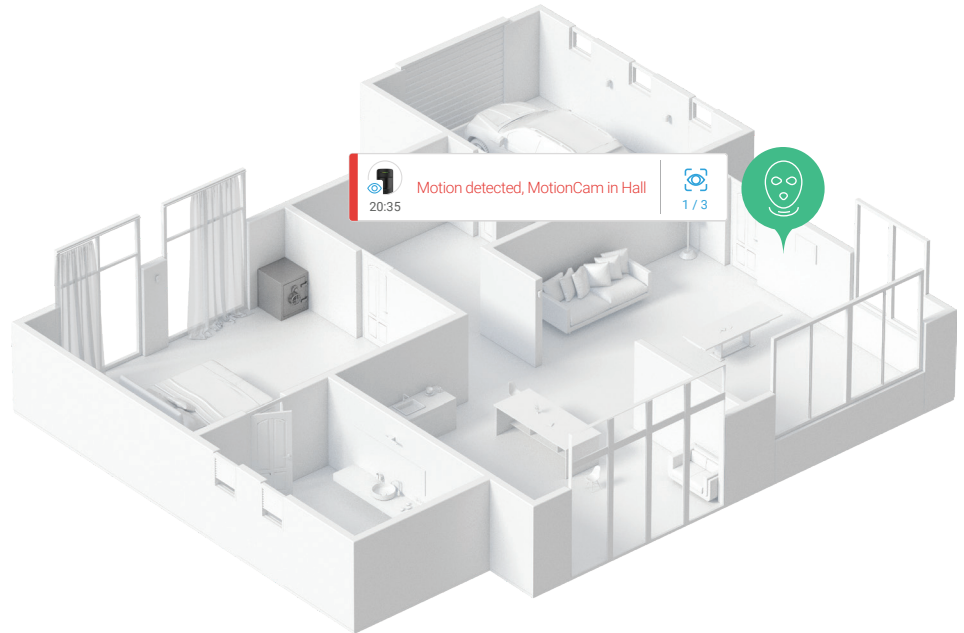


Security & Firefighting Risks

# Professional Wireless Security

Ajax protects your family and business from burglars, fires, and leakages. If trouble comes, the system immediately activates sirens, notifies users, and requests help from an alarm response company.

- Spotting intrusion
- Preventing fire
- Detecting flooding
- Verifying alarms with photos
- Supporting security cameras
- Executing automation scenarios



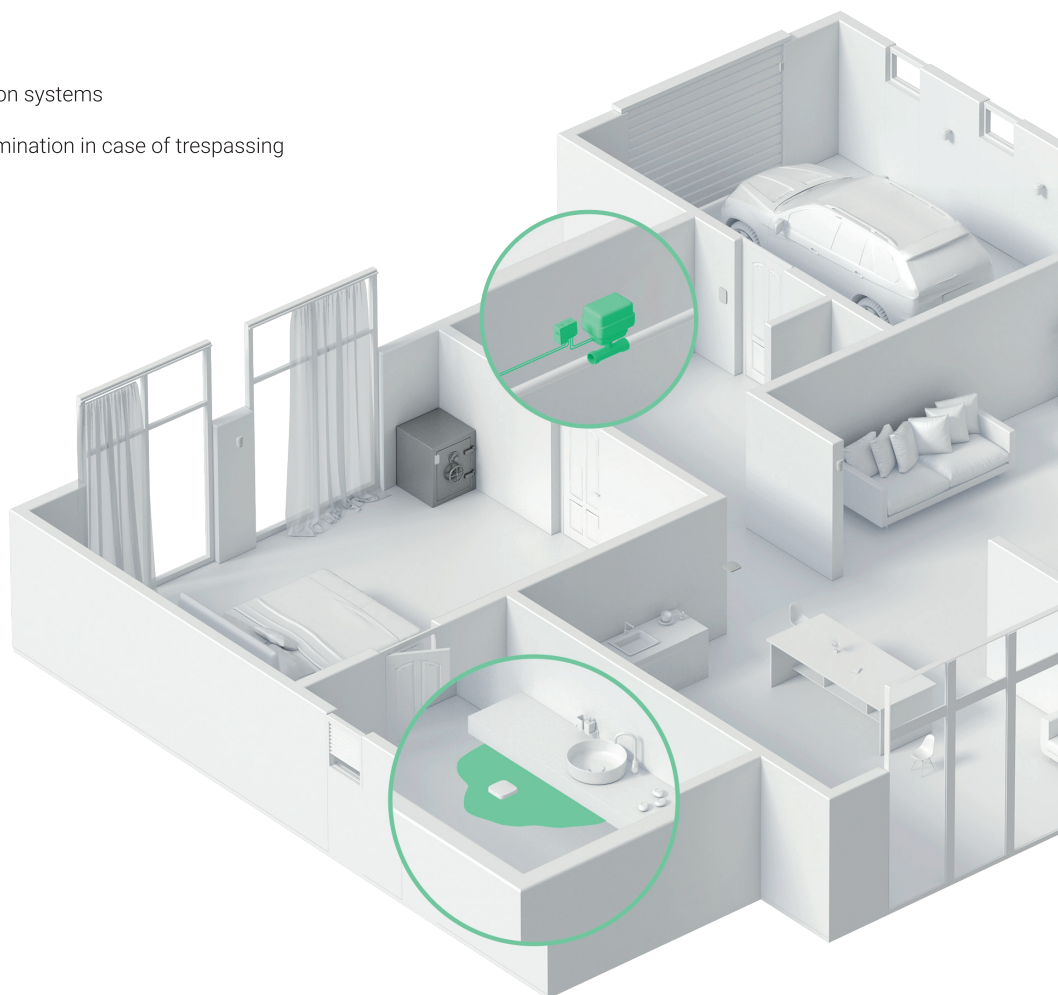
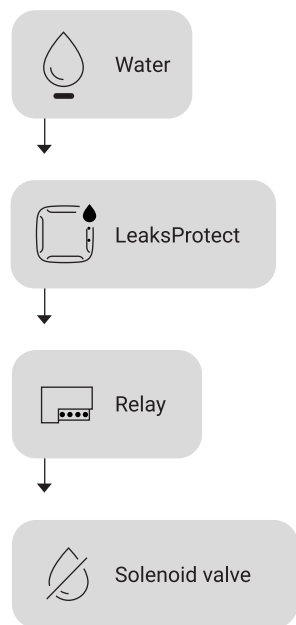
## Visual Alarm Verification

MotionCam detectors accelerate the process of confirming alarms. The moment someone enters a secured area, the detector makes a series of photos. Ajax delivers the first snapshot within 9 seconds following the motion alarm. To ensure privacy, MotionCam activates its camera only when triggered.

# Home Automation

With scenarios, Ajax resists threats and manages home appliances automatically. A real-time OS Malevich is responsible for the uninterrupted execution of commands. So if the central panel loses the connection with Ajax Cloud, the security system still follows pre-set instructions.

- Schedule arming/disarming/Night mode
- Configure automatic flood and fire prevention systems
- Use motion alarm to switch on outdoor illumination in case of trespassing
- Create scenarios for appliances



# Unique Communication Technologies



## Jeweller

Jeweller is our proprietary radio technology engineered for advanced protection of residential and commercial properties. The technology enables two-way communication with system devices for remote configuring and instant alarm transmission. Transmitted data is encrypted using a block cipher with a dynamic key. Ajax detects jamming and notifies users as well as an alarm response company about difficulties.

- Up to 2,000 m wireless communication range
- Alarm delivery in 0.15 s
- Two-way radio communication
- Minimum device polling interval: 12 s
- 868.0–868.6 MHz operating frequency band
- Up to 7 years of detector battery life



## Wings

Wings is a high-speed radio protocol for data transmission. It allows MotionCam detectors to send visual alarm verifications to the hub at a distance of up to 1,700 meters. Security companies and users can see the first snapshot in 9 seconds after motion is detected. Wings' energy efficiency allows MotionCam detectors to operate up to 4 years on the pre-installed batteries.

- Transmission of images parallel to the alarms
- Photo series for detailed situation appraisal
- First photo delivered in less than 9 s
- Up to 640×480 px image resolution

# Security of Any Scale

One facility means one security system. To make this statement true for massive-scale productions, warehouse complexes, and multi-story business centers, we've developed ReX: a radio signal range extender. ReX doubles the Jeweller communication range, boosting the coverage of one hub up to 16 km<sup>2</sup>. Hub 2 and Hub Plus central panels support five range extenders in one system, covering up to 35 km<sup>2</sup>.

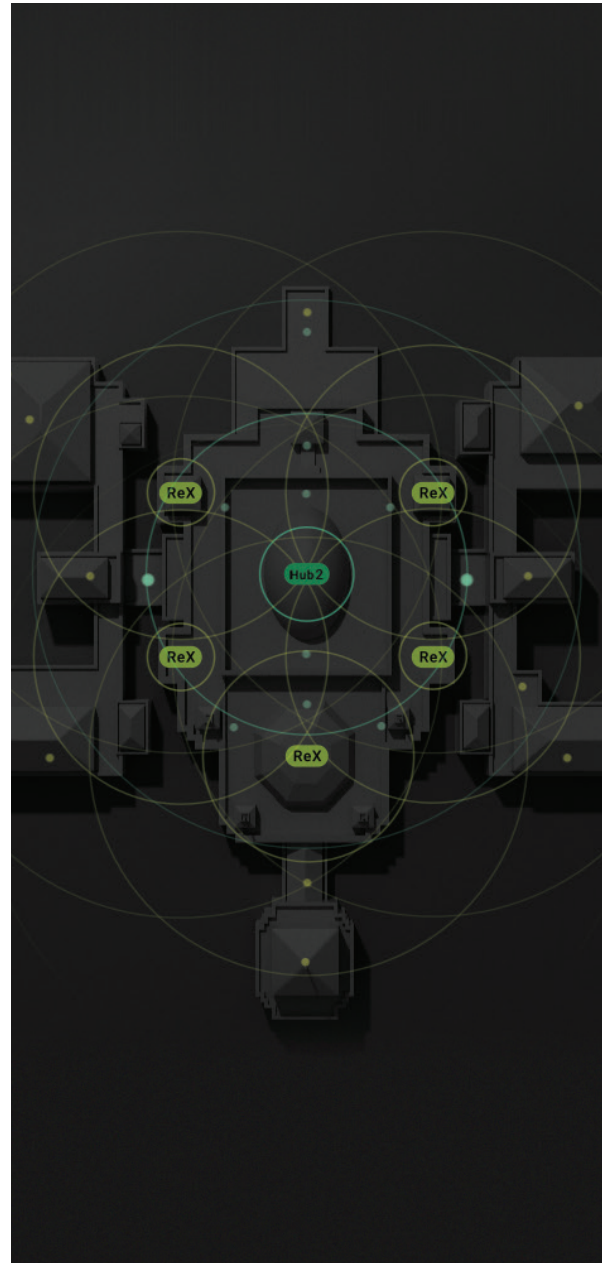
Hub / Hub 2 / Hub Plus      up to **12** km<sup>2</sup>

---

Hub + Rex                      up to **16** km<sup>2</sup>

---

Hub 2 / Hub Plus + 5 ReX      up to **35** km<sup>2</sup>



# OS Malevich



Ajax operates on a real-time operating system, which ensures flawless execution of every command. Such operating systems are used in robotics, aviation, and military – in every field with no place for mistake.

OS Malevich is named after Kazimir Malevich, an avant-garde artist whose concept of Suprematism brought basic geometrical forms to the form of pure art. This approach inspired us to develop the perfect and straightforward software with broad potential for improvements.

Running in every Ajax control panel, OS Malevich controls devices and communicates with the cloud server over several channels. Its modular architecture enables to expand system possibilities with over-the-air updates automatically and regularly. OS Malevich communicates with users via push-notifications, SMS, and calls, delivering alarms, notifying of events, or sending pictures from motion detectors. Designed as an independent software solution, OS Malevich has no breach for cyber-attacks.



Protected from cyber-attacks



Constantly monitors each device



Improves the Ajax system with each update



Updates automatically over the air



# Anti-Sabotage

Your security system can't be destroyed without your awareness: Ajax notifies of device malfunctions or connection failures and maintains a log of system events. Foreseeing that our system can face serious threats, we've implemented backup systems. And backups for these backups. During a blackout, the hub will stay on its mission powered by a back-up battery. In case of radio signal interference, the hub switches the back-up frequency and notifies users and an alarm response company. If Ethernet cable has been cut off, our hubs can automatically switch to GSM/UMTS (2G/3G). One hub can have up to 4 communication channels.

## No worries about



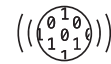
### Blackout

All detectors operate on batteries. In the case of a blackout, the hub reports a power failure and continues to operate using the backup battery



### Radio Channel Jamming

System notifies ARC and users and switches the frequency



### Hacking Attempts

Ajax encrypts all transmitted data using block cipher with a dynamic key and authenticates devices during each interaction



### Internet Issues

If Ethernet or Wi-Fi fails, the hub uses GSM/UMTS channels to remain online



### Server Connection Loss

Ajax Cloud detects when hub goes offline and notifies ARC and users



### Tampering

An alarm is triggered if someone dismantles the device



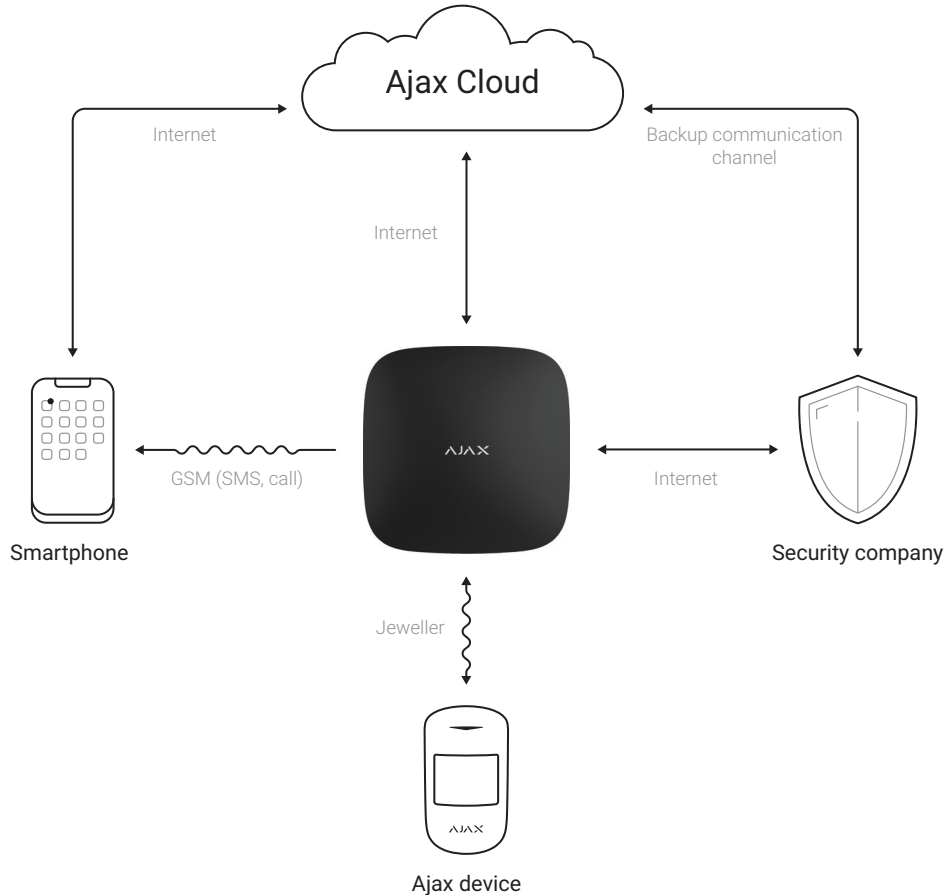
### Detector Failure

Hub monitors each device and sends an immediate alert in case of failure

# Ajax Cloud

Our cloud server provides the possibility to manage and configure security systems from any point in the world.

Ajax Cloud is an always-on-duty focal point for hubs, security companies, and users. Processing alarms instantly, it provides a reliable platform for transferring updates and back-up communication with central monitoring stations.



## Features

- Real-time remote management
- Detailed status of devices
- High-load endurance
- Automatic software updates

# Video Surveillance

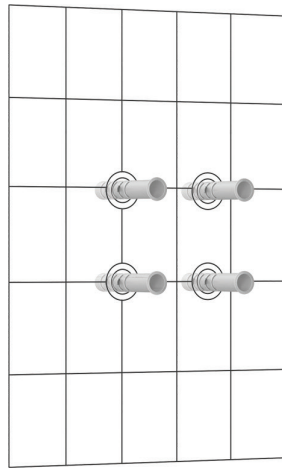
With Ajax, you won't have to split the protection: combine security system management and video surveillance in one app. Connect Dahua, Hikvision, Safire or Uniview cameras and DVRs in minutes using quick integrations. Or connect any other IP-camera via RTSP.

- Stream video and sound
- Save snapshots
- Zoom video in
- Connect single cameras or DVRs with hundreds of connected cameras

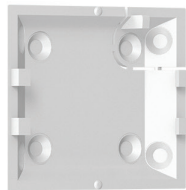


# Seamless Setup

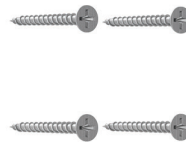
We've made the installation process as simple as possible. Our devices come with pre-installed batteries and ready to operate from the box. Pair them with the hub using a QR-code and mount on SmartBracket. Our apps help installers to test signal strength and detection zones on-site, as well as reconfigure devices remotely.



Wall



SmartBracket



Screws

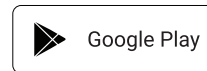
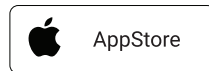


Device

- In-app wizard for pairing
- No need to disassemble devices
- Remote testing and device configuring











# App for End Users





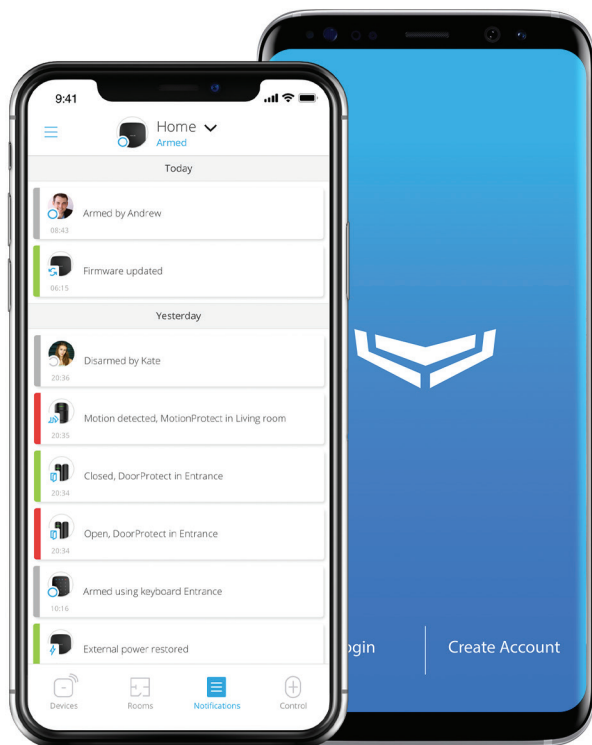
Ajax Security System app is designed to help users to stay in touch with their property from anywhere in the world.

## Easy to Use

-  Arm/disarm the system
-  Schedule security
-  Get instant notifications
-  Create scenarios
-  Manage users
-  Control smart home
-  Follow the log of events
-  Watch security cameras












## Secure in Every Way

-  Sessions management
-  Two-factor authentication support



# Apps for PROs

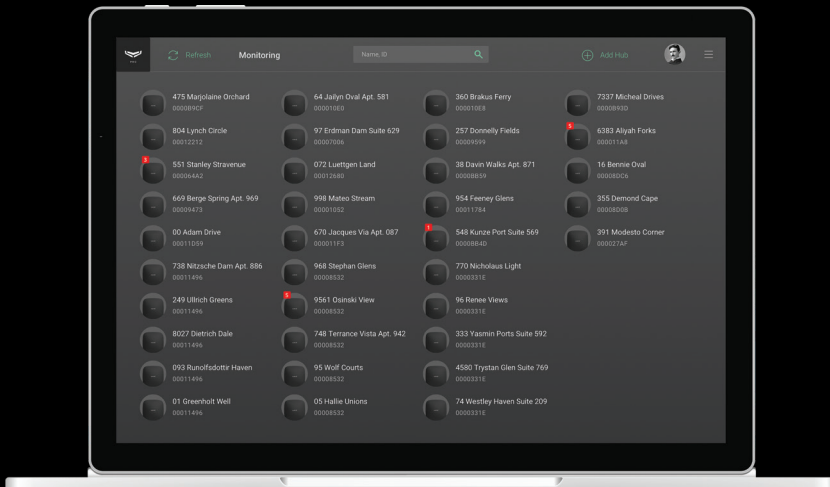
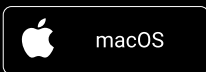
With Ajax PRO apps, teams have everything to administer, configure and monitor alarms of an unlimited amount of hubs. At the office, in the field, and on the go. All accounts are constantly in sync.

-  Set alarm monitoring stations
-  Test communication and detectors
-  Create arming/disarming schedules for the whole system or selected groups of devices
-  Coordinate the work of a team
-  Add/remove users and manage their access to settings
-  Configure alarm reactions for automation devices
-  Swiftly verify alarms with photos from MotionCam detectors
-  Search and filter the log of events
-  Configure the alarm confirmation algorithm
-  Create new security objects and connect equipment
-  Connect video cameras and DVRs



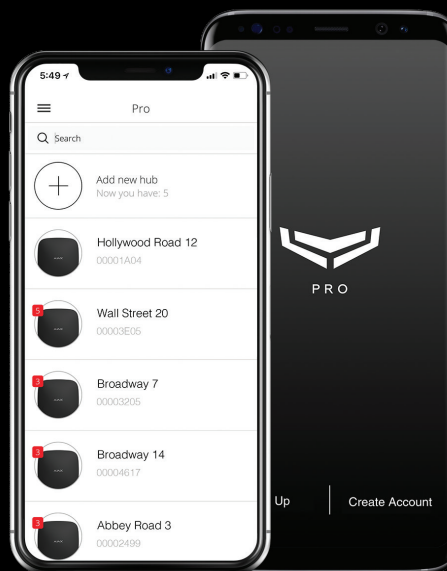
# Ajax PRO

All-in-one desktop application for administering security systems and advanced alarm monitoring.



# Ajax PRO: Tool for Engineers

Mobile application for administering of security systems on the fly.

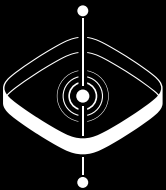


# Connecting Monitoring

Over 1,200 alarm response companies around the world are processing Ajax security system alerts. And this number constantly grows. The system can be connected to most of the central monitoring stations (CMS) directly or/and via Ajax Cloud.

- SIA and Sur-Gard (Contact ID) support
- Direct connection or/and via Ajax Cloud
- Confirmed alarms
- Delivery of photo confirmations of the MotionCam alarm signals to Manitou or SBN CMS software

## Enterprise API



An interface for Ajax integration into third-party apps and services.

Using our API, security and service companies can control Ajax security systems through their services or applications and configure the interaction of our devices with third-party equipment.



Administer security systems using third-party software



Build integrated security services and automation solutions based on our products



Integrate Ajax into an existing IT infrastructure, billing and CRM systems



# Products



Control panels



Indoor security



Outdoor security



Fire prevention



Flood prevention



Sirens



Automation



Controls



Integrations



# Hubs

## Intelligent control panels

The hub manages all devices within the security system. It notifies users and an alarm response company about any threats instantly. The use of two-way communication allows hubs to send alarm signals, configure devices remotely, and constantly monitor the system's state.

For more information visit the product pages at [www.ajax.systems/products](http://www.ajax.systems/products)

### Hub 2









### Hub Plus

### Hub

2G & Ethernet	Wi-Fi, 3G, 2G & Ethernet	2G & Ethernet
Dual SIM	Dual SIM	1 SIM
100 devices	150 devices	100 devices
25 cameras	50 cameras	10 cameras
50 users	99 users	50 users
9 groups	25 groups	9 groups
up to 16 hours of battery life	up to 16 hours of battery life	up to 15 hours of battery life
Visual alarm verification support	No visual alarm verification support	No visual alarm verification support



## Bulletproof Protection

-  Real-time operating system OS Malevich
-  Tampering alarm
-  External power failure alarm or notification
-  Up to 16 hours of operation on the back-up batteries
-  Customizable ping interval: 12–300 s
-  Data encryption
-  Multi-channel communication
-  Resistance to cyber-attacks

## Effortless Operation



Instant alarm delivery even with slow Internet connection



Two-way radio communication for testing and configuring of the connected devices



New security and automation features with automatic over the air OS updates



Multiple ways to control the system and connected devices: mobile and desktop apps, key fobs, keypads, smart buttons



Scenarios (reactions and schedules) for security and home automation



## Simple Installation

1

Connect devices to the hub with the mobile app

2

Use the SmartBracket to mount the hub without disassembling it

3

Open the app to configure hub's settings

## Tech Specs

- Color: white/black
- Installation: indoors
- Radio communication range: up to 2,000 m
- Alarm delivery speed: 0.15 sec
- Alarm notification types: SMS, call, push-notification
- CMS connectivity: SIA, Sur-Gard (Contact ID)
- Power supply: 110–240 V AC (12 V power supply unit is available on demand)
- Battery backup: Li-Ion 2 A·h  
Up to 16 hours of operation
- Operating temperature range:  
from -10°C to +40°C
- Permissible humidity: up to 75%
- Dimensions: 163×163×36 mm
- Weight  
Hub/Hub Plus: 350 g  
Hub 2: 362 g

## Engineering Masterpiece

- Hubs are only 4 cm thick
- No excess modules or buttons
- Built-in backup battery
- Built-in dual path communicators





# ReX

## Intelligent radio signal range extender

ReX boosts the range of all devices in the system and establishes a reliable link between them and the hub. Hub 2 and Hub Plus support up to 5 ReX, which allows them to cover up to 35 km<sup>2</sup> and protect extra-large premises: mansions, warehouse complexes, multi-story business centers, and massive productions.

### Maximum Performance

- Transmits alarms in 0.3 s
- Communicates with devices at a distance of up to 1,800 m
- Controls an autonomous sub-system of devices if connection with the hub is lost

### Bulletproof Protection



Real-time operating system OS Malevich



Tampering alarm



Data encryption



External power failure notification



Up to 35 hours of operation on the back-up batteries



Resistance to cyber attacks



Customizable ping interval: 12–300 s



Device forgery prevention

### Simple Installation



Use the QR code to connect the device to the hub



Use the SmartBracket to mount the device without disassembling it



Open the app to test radio signal quality and configure device settings



Select the devices that will operate via range extender

## Tech Specs

- Color: white/black
- Installation: indoors
- Compatibility: Hub, Hub Plus, Hub 2 (no MotionCam support)
- Radio communication range with devices: up to 1,800 m
- Alarm delivery speed: 0.3 s
- Maximum connected devices (in a system with one range extender)  
Hub, Hub 2 – 99  
Hub Plus – 149
- Max number of connected ReX per hub\*  
Hub – 1  
Hub Plus, Hub 2 – 5
- Power supply: 110–240 V AC
- Battery backup: Li-Ion 2 A·h  
Up to 35 hours of operation from the pre-installed back-up battery
- Operating temperature range: from -10°C to +40°C
- Permissible humidity: up to 75%
- Dimensions: 163×163×36 mm
- Weight: 330 g

\*ReX can only be directly connected to the hub. ReX cannot be connected to another ReX.





# MotionCam

## Wireless motion detector with visual alarm verification and pet immunity

Wireless motion detector with a photo camera enable users and ARC to quickly see what caused an alarm. To ensure privacy, pictures are taken only when alarm is triggered.

### Maximum Performance

- Communicates alarms and photos at a distance of up to 1,700 m from the hub
- Uses two separate radio protocols for parallel data transmission: Jeweller and Wings
- Detects motion at a distance of up to 12 m
- Delivers an alarm signal within 0.15 s
- Delivers the first photograph in less than 9 s
- Animated sequences: 1–5 pictures per motion alarm
- Operates up to 4 years on the pre-installed batteries
- Uses IR-backlight to take pictures in the dark

### Effortless Operation

- 3 adjustable sensitivity levels
- Two-way communication with the hub for testing and configuring
- Proprietary SmartDetect algorithm to prevent false alarms
- Digital temperature compensation
- Pet-immunity algorithm to ignore the pets that are less than 20 kg in weight and 50 cm in height

### Simple Installation



Scan the QR code to connect the device to the hub



Use the SmartBracket to mount the device without disassembling it



Open the app to test connection quality and configure device settings

### Bulletproof Protection



Tampering alarm



Data encryption



Device forgery prevention



## Tech Specs

- Color: white/black
- Installation: indoors
- Recommended installation height: 2.4 m
- Radio communication range: up to 1,700 m
- Compatibility: only Hub 2
- Sensing element: PIR sensor
- Detection angle:  
Horizontal – 88.5°  
Vertical – 80°
- Camera view angle: 90°
- Motion detection distance: up to 12 m
- Image resolution:  
160x120 / 320x240 / 640x480 px
- Pictures in a series: 1–5 pcs
- Temperature sensor: available
- Battery: 2x CR123A, pre-installed
- Battery life: up to 4 years
- Protection class: IP50
- Operating temperature range: from -10°C to +40°C
- Permissible humidity: up to 75%
- Dimensions: 135x70x60 mm
- Weight: 167 g





# MotionProtect

## Wireless pet immune motion detector

Wireless indoor motion detector sends an immediate alarm to the hub when it spots an intruder moving inside the protected property. An integrated pet-immunity algorithm minimizes the risk of false alarms triggered by pets.

### Maximum Performance

- Communicates at a distance of up to 1,700 m from the hub
- Detects motion at a distance of up to 12 m
- Delivers an alarm signal within 0.15 s
- Operates up to 5 years on the pre-installed battery

### Effortless Operation

- 3 adjustable sensitivity levels
- Proprietary SmartDetect algorithm to prevent false alarms
- Digital temperature compensation
- Two-way communication with the hub for testing and configuring
- Pet-immunity algorithm to ignore the pets that are less than 20 kg in weight and 50 cm in height

### Simple Installation



Scan the QR code to connect the device to the hub



Use the SmartBracket to mount the device without disassembling it



Open the app to test connection quality and configure device settings

### Bulletproof Protection



Tampering alarm



Data encryption



Device forgery prevention

# MotionProtect Plus



- Uses microwave and PIR sensors to filter environmental interference
- Designed for rooms with air conditioners and fireplaces

## Tech Specs

- Color: white/black
- Installation: indoors
- Recommended installation height: 2.4 m
- Radio communication range: up to 1,800 m
- Compatibility: all hubs & ReX
- Sensing element: PIR sensor
- Detection angle:  
Horizontal – 88.5°  
Vertical – 80°
- Motion detection distance: up to 12 m
- Temperature sensor: available
- Battery: CR123A, pre-installed
- Battery life  
MotionProtect: up to 5 years  
MotionProtect Plus: up to 5 years
- Protection class: IP50
- Operating temperature range: from -10°C to +40°C
- Permissible humidity: up to 75%
- Dimensions: 110×65×50 mm
- Weight: 86 g





# MotionProtect Curtain

Wireless indoor narrow beam motion detector

## Maximum Performance

- Communicates at a distance of up to 1,700 m from the hub
- Detects motion at a distance of up to 15 m
- Delivers an alarm signal within 0.15 sec
- Operates up to 3 years on the pre-installed battery

## Effortless Operation

- 3 adjustable sensitivity levels
- Correlation signal processing to prevent false alarms
- Digital temperature compensation
- Two-way communication with the hub for testing and configuring
- Can be used in the spaces with pets

## Simple Installation



Use the QR code to connect the device to the hub



Use the SmartBracket to mount the device without disassembling it



Open the app to test connection quality and configure device settings

## Bulletproof Protection



Tampering alarm



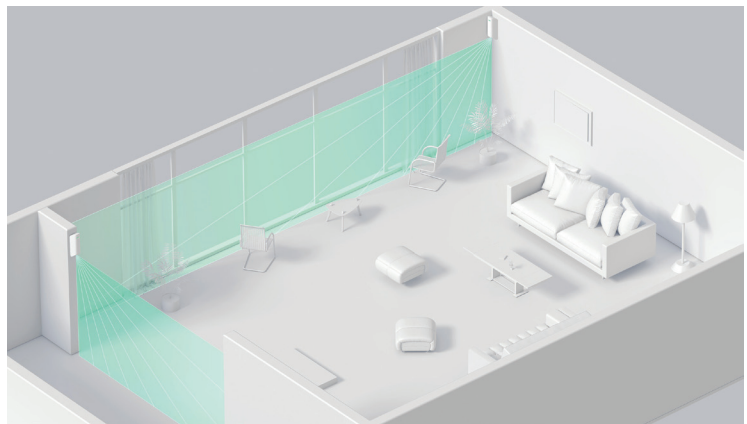
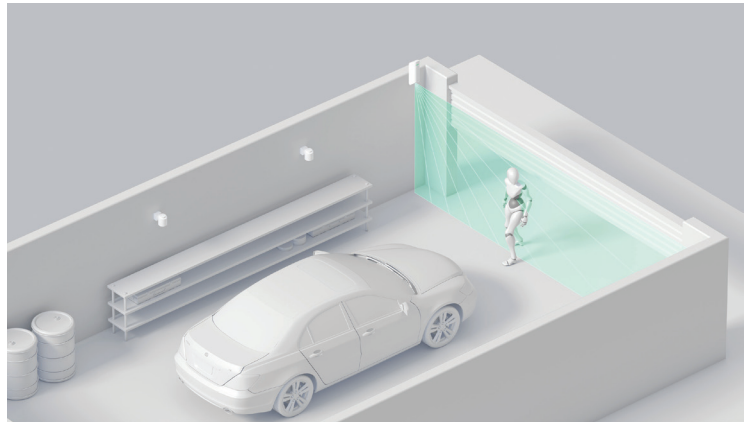
Data encryption



Device forgery prevention

## Tech Specs

- Color: white/black
- Installation: indoors
- Recommended installation height: 2.4 m
- Radio communication range: up to 1,700 m
- Compatibility: all hubs & ReX
- Sensing element: two PIR sensors
- Motion detection distance: from 6 to 15 m (depending on the sensitivity level)
- Detection angles:  
Horizontally – 6°  
Vertically – 90°
- Temperature sensor: available
- Protection class: IP54
- Battery: CR123A, pre-installed
- Battery life: up to 3 years
- Operating temperature range: -10°C to +40°C
- Permissible humidity: up to 95%
- Dimensions: 134x44x34 mm
- Weight: 118 g





# MotionProtect Outdoor

## Wireless outdoor motion detector with anti-masking and pet immunity

Wireless outdoor motion detector sends an immediate alarm to the hub when it notices trespassers. Digital signal processing algorithms minimize the risk of false alarms and help the detector to ignore pets. The device operates even at extremely high or low temperatures. Its body is protected against dust and splashes.

### Maximum Performance

- Communicates at a distance of up to 1,700 m from the hub
- Detects motion at a distance of 3–15 m
- Delivers an alarm signal within 0.15 s
- Operates up to 5 years on the pre-installed batteries and supports external power supply
- Uses intelligent anti-masking system to detect obstacles, paint or stickers
- Operates even at extremely high or low temperatures






Live  
Intelligent  
Spectrum  
Analysis

### Effortless Operation




- 3 adjustable sensitivity levels
- Proprietary LISA algorithm to prevent false alarms in outdoor conditions
- Digital temperature compensation
- Two-way communication with the hub for testing and configuring
- Pet-immunity algorithm to ignore the pets that are less than 80 cm in height

LISA intelligent algorithm prevents false alarms triggered by moving animals, swaying trees and plants, as well as birds and insects that land on the detector.

### Simple Installation

-  Use the QR code to connect the device to the hub
-  Use the SmartBracket to mount the device without disassembling it
-  Open the app to test connection quality and configure device settings

### Bulletproof Protection

-  Tampering alarm
-  Data encryption
-  Device forgery prevention

## Tech Specs

- Color: white
- Installation: outdoors
- Recommended installation height: 0.8–1.3 m
- Radio communication range: up to 1,700 m
- Compatibility: all hubs & ReX
- Sensing element: two PIR sensors
- Detection angle: Horizontal — 90°
- Adjustable motion detection distance: 3–15 m
- Pet immunity:  
Weight — not relevant  
Height — up to 80 cm
- Anti-masking feature: available
- Temperature sensor: available
- Battery: 2x CR123A, pre-installed
- Battery life: up to 5 years
- Optional power supply: 5–28 V DC
- Protection class: IP55
- Operating temperature range: from -25°C to +60°C
- Permissible humidity: up to 95%
- Dimensions: 183x70x65 mm
- Weight: 322 g



\*Hood for MotionProtect Outdoor is an accessory that protects sensors of the anti-masking system from rain and snow to prevent false alarms. Sold separately.



# DoorProtect

Wireless magnetic opening detector

## Maximum Performance

- Communicates at a distance of up to 1,200 m from the hub
- Delivers an alarm signal within 0.15 s
- Operates up to 7 years on the pre-installed battery
- Features an external contact for connecting third-party NC detectors

## Effortless Operation

- Includes magnets of various sizes for installation on any window and door frames
- Two-way communication with the hub for testing and configuring

## Simple Installation



Use the QR code to connect the device to the hub



Use the SmartBracket to mount the device without disassembling it



Open the app to test connection quality and configure device settings

## Bulletproof Protection



Tampering alarm



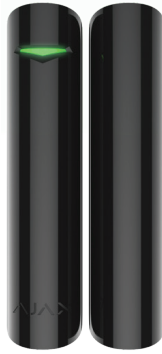
Data encryption



Device forgery prevention



# DoorProtect Plus



- Features a built-in accelerometer
- Reacts to inclination angle change, vibration, and impact
- Enables to arm the system even when windows are tilt open for ventilation
- Compatible with third-party roller shutter wired motion detectors

## Tech Specs

- Color: white/black
- Installation: indoors
- Radio communication range: up to 1,200 m
- Compatibility: all hubs & ReX
- Sensing element: reed switch
- Activation thresholds:  
Small magnet – 1 cm  
Big magnet – 2 cm
- Temperature sensor: available
- Battery: CR123A, pre-installed
- Battery life  
DoorProtect: up to 7 years  
DoorProtect Plus: up to 5 years
- Protection class: IP50
- Operating temperature range: from -10°C to +40°C
- Permissible humidity: up to 75%
- Dimensions:  
Diameter – 20 mm  
Height – 90 mm
- Weight: 30 g





# GlassProtect

## Wireless glass break detector

The detector uses an electret microphone to recognize low-frequency hit sounds and high-frequency crashing sounds of glass shatters. The two-step glass break detection decreases the likelihood of false alarms.

### Maximum Performance

- Communicates at a distance of up to 1,000 m from the hub
- Detects glass breaking at a distance of up to 9 m
- Delivers an alarm signal within 0.15 s
- Operates up to 7 years on the pre-installed battery
- Features an external contact for connecting third-party detectors

### Effortless Operation

- 3 adjustable sensitivity levels
- Two-factor glass break detection to register high- and low-pitched sounds
- Two-way communication with the hub for testing and configuring

### Simple Installation



Use the QR code to connect the device to the hub



Use the SmartBracket to mount the device without disassembling it



Open the app to test connection quality and configure device settings

### Bulletproof Protection



Tampering alarm



Data encryption



Device forgery prevention

## Tech Specs

- Color: white/black
- Installation: indoors
- Radio communication range: up to 1,000 m
- Compatibility: all hubs & ReX
- Sensing element: electret microphone
- Microphone coverage angle: 180°
- Glass break detection distance: up to 9 m
- Temperature sensor: available
- Battery: CR123A, pre-installed
- Battery life: up to 7 years
- Protection class: IP50
- Operating temperature range: from -10°C to +40°C
- Permissible humidity: up to 75%
- Dimensions:  
Diameter – 20 mm  
Height – 90 mm
- Weight: 30 g





# CombiProtect

Wireless motion and glass break detector with pet immunity

## Maximum Performance

- Communicates at a distance of up to 1,200 m from the hub
- Detects motion at a distance of up to 12 m
- Detects glass breaking at a distance of up to 9 m
- Delivers an alarm signal within 0.15 s
- Operates up to 5 years on the pre-installed battery

## Effortless Operation

- 3 adjustable sensitivity levels for motion and glass break detection
- Uses SmartDetect algorithm to process alarms digitally and filter false alarms
- Digital temperature compensation
- Pet-immunity algorithm to ignore the pets that are less than 20 kg in weight and 50 cm in height
- Two-factor glass break detection to register high- and low-pitched sounds
- Two-way communication with the hub for testing and configuring

## Simple Installation



Use the QR code to connect the device to the hub



Use the SmartBracket to mount the device without disassembling it



Open the app to test connection quality and configure device settings

## Bulletproof Protection



Tampering alarm



Data encryption



Device forgery prevention

## Tech Specs

- Color: white/black
- Installation: indoors
- Recommended installation height: 2.4 m
- Radio communication range: up to 1,200 m
- Compatibility: all hubs & ReX
- Sensing elements: PIR sensor (movement), electret microphone (glass break)
- Motion detection angles:  
Horizontal – 88.5°  
Vertical – 80°
- Motion detection distance: up to 12 m
- Glass break detection angle: 180°
- Glass break detection distance: up to 9 m
- Pet immunity:  
Weight – up to 20 kg  
Height – up to 50 cm
- Temperature sensor: available
- Battery: CR123A, pre-installed
- Battery life: up to 5 years
- Protection class: IP50
- Operating temperature range: from -10°C to +40°C
- Permissible humidity: up to 75%
- Dimensions: 110×65×50 mm
- Weight: 92 g





# Button

## Wireless panic button / remote control for scenarios

In case of emergency, Button can instantly alert an alarm response company and system users about danger. Alternative control mode enables to control lights, home appliances, roller shutters, locks, and gates.

### Maximum Performance

- Communicates at a distance of up to 1,300 m from the hub
- Delivers a command to the hub within 0.15 s
- Command delivery indication with a LED-light
- Panic button mode for emergency situations
- Control mode for running scenarios manually
- Operates up to 5 years on the pre-installed battery

### Easy to Use



Use panic button mode to call for help in one click



Use control mode to run scenarios manually and manage electrical appliances



Set Button to react only on double-click or long-press to avoid accidental alarms

### Bulletproof Protection



Data encryption



Device forgery prevention



Protected from dust and splash

## Tech Specs

- Color: white/black
- Radio communication range: up to 1,300 m
- Number of buttons: 1
- False alarm prevention: available in the panic mode
- Compatibility: all hubs & ReX
- Protection class: IP55
- Battery: CR2032, pre-installed
- Battery life: up to 5 years
- Operating temperature range: from -10°C to +40°C
- Permissible humidity: up to 75%
- Dimensions: 47×35×13 mm
- Weight: 16 g





# Keypad

## Two-way wireless keypad

Wireless stationary control device allows to use numerical passcodes to arm and disarm Ajax security system, activate Night mode, and raise a silent alarm in case of emergency. The device can be mounted by the entry door to provide quick system control.

### Maximum Performance

- Communicates at a distance of up to 1,700 m from the hub
- Arms and disarms the entire security system or certain groups, activates the Night mode
- Allows to assign personal passcodes to each user
- Features duress code protection to raise a silent alarm in case users are forced to disarm the system
- Operates up to 2 years on the pre-installed batteries

### Effortless Operation

- Numbers light up when the device is touched
- Visual command delivery confirmation
- Two-way communication with the hub for testing and configuring

### Simple Installation



Use the QR code to connect the device to the hub



Use the SmartBracket to mount the device on a wall without disassembling it



Open the app to test connection quality and configure device settings

### Bulletproof Protection



Tampering alarm



Encrypted communication



Device forgery prevention



Resistant to brute force password attacks

### Tech Specs

- Color: white/black
- Device type: wireless
- Installation: indoors
- Radio communication range: up to 1,700 m
- Compatibility: all hubs & ReX
- Temperature sensor: available
- Duress code: yes
- Protection against password attack: yes
- Battery: 4x AAA, pre-installed
- Battery life: up to 2 years
- Operating temperature range: from -10°C to +40°C
- Permissible humidity: up to 75%
- Dimensions: 150x103x14 mm
- Weight: 197 g





# SpaceControl

## Two-way wireless key fob with panic button

A key fob allows to quickly arm/disarm the security system, activate the Night mode for partial property protection, or notify other users and an alarm response company about an emergency.

### Maximum Performance

- Communicates at a distance of up to 1,300 m from the hub
- Delivers a command to the hub within 0.15 s
- Command delivery indication with a LED-light
- Operates up to 5 years on the pre-installed battery

### Easy to Use

- Large buttons for arming/disarming and activating the Night mode
- Panic button to call for help in emergency situations

### Tech Specs

- Color: white/black
- Device type: wireless
- Compatibility: all hubs & ReX
- Number of buttons: 4
- Radio communication range: up to 1,300 m
- Battery: CR2032, pre-installed
- Battery life: up to 5 years
- Operating temperature range: from -25°C to +50°C
- Permissible humidity: up to 95%
- Dimensions: 65×37×10 mm
- Weight: 13 g

### Bulletproof Protection



Encrypted communication



Device forgery prevention



# HomeSiren

## Wireless indoor siren

Wireless indoor siren generates up to 105 dB at a distance of 1 m to deter burglars and attract the attention of neighbors in case of unauthorized trespassing. An inbuilt LED light and beeps indicate the system status. Moreover, the siren can power an external LED installed at the front door to warn that the property is armed.

### Maximum Performance

- Communicates at a distance of up to 2,000 m from the hub
- Indicates armed/disarmed states and low battery charge using a built-in LED
- Generates an audible warning if *delay when entering/leaving mode* is activated
- Indicates with sound and light when system's status changes if *beep when arming/disarming mode* is activated
- Features an external connector for powering a LED
- Operates up to 5 years on the pre-installed batteries

### Effortless Operation

- Adjustable sound level and alarm duration
- Two-way communication with the hub for testing and configuring

### Simple Installation



Use the QR code to connect the device to the hub



Use the SmartBracket to mount the device without disassembling it



Open the app to test connection quality and configure device settings

### Bulletproof Protection



Tampering alarm



Data encryption



Device forgery prevention

### Tech Specs

- Color: white/black
- Installation: indoors
- Radio communication range: up to 2,000 m
- Compatibility: all hubs & ReX
- Adjustable sound volume level: 81–105 dB at a distance of 1 m
- Adjustable alarm duration: 3–180 s
- Temperature sensor: available
- Battery: 2x CR123A, pre-installed
- Battery life: up to 5 years
- Protection class of body: IP50
- Operating temperature range: from -10°C to +40°C
- Permissible humidity: up to 75%
- Dimensions: 150×103×14 mm
- Weight: 197 g



# StreetSiren

## Wireless outdoor siren

Wireless outdoor siren generates up to 113 dB at a distance of 1 m to deter burglars and attract the attention of neighbors in case of unauthorized trespassing. An inbuilt LED light and beeps indicate the system status. StreetSiren operates on the pre-installed batteries but can be connected to a low current power supply, as well.

### Maximum Performance

- Communicates at a distance of up to 1,500 m from the hub
- Operates even at extremely high or low temperatures
- Indicates armed/disarmed states and low battery charge using a built-in LED
- Generates an audible warning if *delay when entering/leaving* mode is activated
- Indicates with sound and light when system's status changes if *beep when arming/disarming* mode is activated
- Operates up to 5 years on the pre-installed batteries and supports external power supply

### Effortless Operation

- Adjustable sound level and alarm duration
- Two-way communication with the hub for testing and configuring
- Resists dust, hail and rain drops

### Simple Installation



Use the QR code to connect the device to the hub



Use the SmartBracket to mount the device without disassembling it



Open the app to test connection quality and configure device settings

### Bulletproof Protection



Tampering and accelerometer alarm



Data encryption



Device forgery prevention

### Tech Specs

- Color: white/black
- Radio communication range: up to 1,500 m
- Compatibility: all hubs & ReX
- Type of indication: sound/light
- Adjustable sound volume level: 81–113 dB at a distance of 1 m
- Adjustable alarm duration: 3–180 s
- Battery: 4x CR123A, pre-installed
- Battery life: up to 5 years
- Optional supply: 12 V, 1.5 A DC
- Protection class: IP54
- Operating temperature range: from -25°C to +50°C
- Permissible humidity: up to 95%
- Dimensions: 200×200×51 mm
- Weight: 528 g



# FireProtect

## Wireless smoke and heat detector with sounder

Wireless fire detector quickly detects smoke and sharp jumps in temperature to raise an alert in case of danger. A built-in siren generates 85 dB at a distance of 1 m to warn those who are nearby.

### Maximum Performance

- Communicates at a distance of up to 1,300 m from the hub
- Delivers an alarm signal within 0.15 s
- Interconnected alarms feature to simultaneously activate sirens in all the fire detectors within the system
- Operates up to 4 years on the pre-installed batteries

### Effortless Operation

- Always on, always ready to detect fire and smoke
- False-alarm prevention algorithms
- Features options for manual and automatic smoke chamber checks
- Two-way communication with the hub for testing and configuring
- Can operate independently from hub, notifying of danger with a built-in siren

### Simple Installation



Use the QR code to connect the device to the hub



Use the SmartBracket to mount the device without disassembling it



Open the app to test connection quality and configure device settings

### Bulletproof Protection



Tampering alarm



Data encryption



Device forgery prevention

# FireProtect Plus



- Features an additional CO sensor
- Alerts about the dangerous level of carbon monoxide to prevent poisoning

## Tech Specs

- Color: white/black
- Installation: indoors
- Radio communication range: up to 1,300 m
- Compatibility: all hubs & ReX
- Sensing element: photoelectric and temperature sensors
- Activation threshold:  $+59^{\circ}\text{C} \pm 2^{\circ}\text{C}$ , or if the temperature rises by  $30^{\circ}$  in under 30 minutes
- Type of indication: sound/light
- Built-in siren volume: 85 dB
- Main power supply: two CR2 batteries, pre-installed
- Backup battery: CR2032, pre-installed
- Battery life: up to 4 years
- Operating temperature range: from  $0^{\circ}\text{C}$  to  $+65^{\circ}\text{C}$
- Permissible humidity: up to 80%
- Dimensions:  $132 \times 132 \times 31$  mm
- Weight: 220 g





# LeaksProtect

## Wireless flood detector

The detector is vigilant 24/7. If water touches even one of the four pairs of contacts, LeaksProtect sends hub an alarm. Moreover, when the area dries out, it registers the situation and automatically cancels the alarm.

### Maximum Performance

- Communicates at a distance of up to 1,300 m from the hub
- Delivers an alarm signal within 0.15 s
- Operates up to 5 years on the pre-installed batteries

### Effortless Operation

- Always on, always ready to detect flooding
- Two-way communication with the hub for testing and configuring

### Simple Installation



Use the QR code to connect the device to the hub



Place on the floor in the areas of potential water leakage



Open the app to test connection quality and configure device settings

### Bulletproof Protection



Tampering alarm



Data encryption



Device forgery prevention

### Tech Specs

- Color: white/black
- Installation: indoors
- Compatibility: all hubs & ReX
- Radio communication range: up to 1,300 m
- Battery: 2x AAA, pre-installed
- Temperature sensor: available
- Protection class: IP65
- Battery life: up to 5 years
- Operating temperature range: from 0°C to +50°C
- Permissible humidity: up to 100%
- Dimensions: 56x56x14 mm
- Weight: 40 g



# Socket

## Wireless smart plug with energy monitor

Wireless smart plug helps to control electric appliances remotely with an Ajax app. It monitors electric power consumption, protects devices from power surges, executes automation scenarios.

### Tech Specs

- Color: white/black
- Installation: indoors
- Compatibility: all hubs & ReX
- Radio communication range: up to 1,000 m
- Actuating element: electromagnetic relay
- Relay service life: 200,000 switch-ons
- Voltage and type of external power supply: 230 V  $\pm$ 10% AC 50 Hz
- Voltage protection for 230 V mains: available, 184–253 V
- Permissible power: up to 2.5 kW
- Maximum load current: 11 A (continuous), 13 A (up to 5 s)
- Maximum temperature protection: +85°C, the socket turns off automatically if the temperature is exceeded
- Energy consumption parameter check: current, voltage, power consumption
- Load indicator: available, LED
- Protection class: IP20
- Operating temperature range: from 0°C to +40°C
- Permissible humidity: up to 75%
- Dimensions: 66x45x45 mm
- Weight: 58 g

### Maximum Performance

- Communicates at a distance of up to 1,000 m from the hub
- Monitors electric power consumption
- Protects electric devices from voltage spikes
- Executes automation scenarios

### Simple Installation



Use the QR code to connect the device to the hub



Plug the device into a socket or a power strip



Open the app to test connection quality, create scenarios, and configure device settings

### Effortless Operation

- Notifications about power outages, overvoltage, and overheating
- Dynamic load level color indication
- Two-way communication with the hub for testing and configuring

### Bulletproof Protection



Device forgery prevention



Encrypted communication



# WallSwitch

## Wireless power relay with energy monitor

Wireless power relay helps to control electric appliances remotely with an Ajax app. It monitors electric power consumption, protects devices from power surges, and executes automation scenarios.

### Maximum Performance

- Communicates at a distance of up to 1,000 m from the hub
- Monitors electric power consumption
- Protects electric devices from voltage spikes
- Executes automation scenarios
- Compact body size allows for inconspicuous installation

### Effortless Operation

- Notifies about power outages, overvoltage, and overheating
- Settings are restored automatically in case of power failure
- Two-way communication with the hub for testing and configuring

### Simple Installation



Use the QR code to connect the device to the hub



Install the device directly into an outlet wall plate or a 230 V circuit



Open the app to test connection quality, create scenarios, and configure device settings

### Bulletproof Protection



Device forgery prevention



Encrypted communication

### Tech Specs

- Compatibility: all hubs & ReX
- Radio communication range: up to 1,000 m
- Actuating element: electromagnetic relay
- Relay service life: 200,000 switch-ons
- Voltage protection:  
For 230 V mains: min – 161 V, max – 264 V  
For 110 V mains: min – 77 V, max – 126 V
- Maximum load current: 13 A
- Maximum temperature protection:  
>+65°C in the wall plate
- Permissible power:  
resistive load at 230 V – up to 3 kW  
resistive load at 110 V – up to 1.5 kW
- Energy consumption parameter check:  
current, voltage, power consumption
- Power supply: 110–230 V ±10% 50/60 Hz
- Protection class of body: IP20
- Operating temperature range:  
from 0°C to +64°C
- Permissible humidity: up to 75%
- Dimensions: 39×33×18 mm
- Weight: 30 g





# Relay

## Wireless low-current dry contact relay

Wireless dry contact relay helps to control low current equipment remotely with an Ajax app. It features an additional pulse equipment control function and executes automation scenarios.

### Maximum Performance

- Communicates at a distance of up to 1,000 m from the hub
- Features a pulse equipment control function
- Executes automation scenarios
- Compact body size allows for inconspicuous installation

### Effortless Operation

- Switches off automatically in response to voltage surge and overheating
- Settings are restored automatically in case of power failure
- Two-way communication with the hub for testing and configuring

### Simple Installation



Use the QR code to connect the device to the hub



Open the app to test connection quality, create scenarios, and configure device settings



Install the device inside connection boxes, electrical service panels, or housings of the electrical switchboards

### Bulletproof Protection



Device forgery prevention



Encrypted communication

### Tech Specs

- Compatibility: all hubs & ReX
- Radio communication range: up to 1,000 m
- Power supply: 7–24 V (DC only)
- Relay service life: 200,000 switch-ons
- Voltage protection: min – 6.5 V, max – 36.5 V
- Maximum load current: 5 A at 36 V DC, 13 A at 230 V AC
- Maximum temperature protection: >+65°C at the place of installation
- Protection class of body: IP20
- Operating temperature range: from 0°C to +64°C
- Permissible humidity: up to 75%
- Dimensions: 39×33×18 mm
- Weight: 25 g



# Transmitter




## Module for third-party detector integration

Wireless module for connecting third-party detectors (i.e. IR barriers, liquid level detectors, gas detectors, and thermal relays) to the Ajax security system.




### Maximum Performance

- Communicates at a distance of up to 1,600 m from the hub
- Compatible with detectors featuring NC/NO outputs
- Delivers an alarm signal within 0.15 s
- Operates up to 5 years on the pre-installed batteries
- Provides 3.3 V power supply for connected device

### Simple Installation

-  Use the QR code to connect the device to the hub
-  Open the app to test connection quality and configure device settings
-  Install the device into the detector's body or a mounting box

### Bulletproof Protection

-  Tampering and accelerometer alarm
-  Data encryption
-  Device forgery prevention

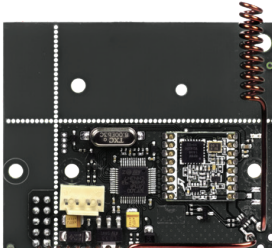
### Effortless Operation

- Suitable for indoor and outdoor operation
- Indicates battery level in the app
- Two-way communication with the hub for testing and configuring

## Tech Specs

- Installation: indoors/outdoors
- Compatibility: all hubs & ReX
- Radio communication range: up to 1,600 m
- Alarm input: 1
- Tamper input: 1
- Battery: 3x CR123A batteries, pre-installed
- Detector contact type: NO/NC
- Terminals: power supply (+/-), alarm, tamper
- Power supply output: 3.3 V
- Battery life: up to 5 years
- Operating temperature range: from -25°C to +50°C
- Permissible humidity: up to 75%
- Dimensions: 100x39x22 mm
- Weight: 74 g





# uartBridge

Module for integrating Ajax devices into third-party systems

## Maximum Performance

- Sends detailed information about connected devices and alarms via UART interface
- Supports arming and disarming capability
- Allows implementing own solutions for smart home systems

## Bulletproof Protection



Data encryption



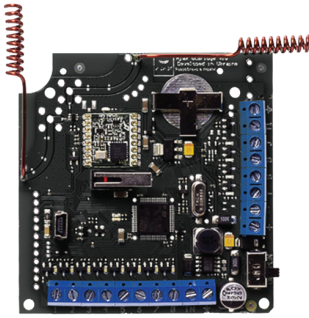
Device forgery prevention

## Tech Specs

- Compatibility: wired security systems and smart home systems
- Interface: UART
- Max number of devices: 85
- Power supply voltage: 5 V DC
- Operating temperature range: from -10°C to +40°C
- Permissible humidity: up to 90%
- Dimensions: 64x55x13 mm
- Weight: 32 g

## Supported devices

- MotionProtect
- MotionProtect Plus
- CombiProtect
- DoorProtect
- FireProtect
- FireProtect Plus
- LeaksProtect
- SpaceControl
- GlassProtect



# ocBridge Plus

Module for integrating Ajax devices into wired and hybrid security systems

## Maximum Performance

- Alarms and events are transmitted via dry contacts
- Pulse and bistable operation modes
- A dedicated PC app for configuring

## Bulletproof Protection



Data encryption



Tampering alarm



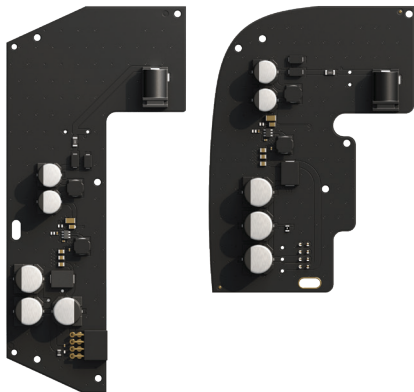
Device forgery prevention

## Tech Specs

- Compatibility: wired and hybrid security systems
- Number of security areas: 8
- Number of service areas: 4
- Contacts: NO/NC, EOL, 2EOL
- Max number of devices: 99
- Power supply: terminals +/-ground
- Power supply voltage:  
8–14 V DC  
miniUSB – 5 V (only for set up)
- Operating temperature range:  
from -10°C to +40°C
- Permissible humidity: up to 90%
- Dimensions: 95x92x18 mm
- Weight: 139 g

## Supported devices

- MotionProtect
- MotionProtect Plus
- CombiProtect
- DoorProtect
- FireProtect
- FireProtect Plus
- LeaksProtect
- SpaceControl
- GlassProtect



# 12V PSU

## Alternative power supply unit for the central panel

The 12 V power supply unit allows connecting control panels, including radio signal range extenders, to low-voltage power sources or external backup batteries.

### Tech Specs

- Input: 8–20 V DC
- Output:
  - 12V PSU for Hub/Hub Plus/ReX — 4.65 V  $\pm$ 3%
  - 12V PSU for Hub 2 — 4.65 V  $\pm$ 3%
- Switch-on voltage: 8 V  $\pm$ 2.5%
- Switch-off voltage: 6.9–7.5 V (depending on load)
- Max Input current: 1 A
- Output current: 1.5 A
- Socket: 6.5x2 mm
- Plug: 5.5x2.1 mm (power jack)
- Dimensions:
  - 12V PSU for Hub/Hub Plus/ReX — 138x64x13 mm
  - 12V PSU for Hub 2 — 98x70x17 mm
- Weight:
  - 12V PSU for Hub/Hub Plus/ReX — 30 g
  - 12V PSU for Hub 2 — 28 g



# Upcoming Products



MultiTransmitter



Hub 2 Plus



StreetSiren DoubleDeck



# Hubs 2 Plus

Hub 2 Plus is an advanced security system control panel that establishes continuous communication with alarm monitoring companies and users via 4 independent channels. Hub 2 Plus can manage up to 200 security devices and deliver photo confirmations of alarms from MotionCam detectors in just 9 seconds – even when it uses SIM cards for communication. Thanks to LTE support. It can manage 25 security groups with a total number of 200 users. This allows security personnel to divide large premises into zones and clearly organize staff access.

	Hub 2 Plus	Hub 2	Hub Plus
Devices	200	100	150
Users	200	50	99
Cameras & DVRs	100	25	50
Scenarios	64	32	64
Range extenders	5	5	5
Groups	25	9	25
Visual alarm verification support	Yes	Yes	No
Battery backup	Li-Ion 3 A·h Up to 15 hours of operating	Li-Ion 2 A·h Up to 16 hours of operating	Li-Ion 2 A·h Up to 16 hours of operating
Communication channels	2x SIM 4G/3G/2G Ethernet Wi-Fi	2x SIM 2G Ethernet	2x SIM 3G/2G Ethernet Wi-Fi





# MultiTransmitter

MultiTransmitter is an integration module that merges wired security devices into a modern security system controlled from a smartphone. It features 18 wired zones for connecting third-party detectors to the Ajax security system: infrared barriers, gas and water level detectors, fire detectors, etc. Using Ajax apps, engineers can configure connected devices to delay alarms when entering/leaving, operate 24/7, activate sirens, or trigger scenarios. MultiTransmitter runs on 110–240 V AC or 12 V DC. Additionally, it can supply 12 V power to connected detectors.

	MultiTransmitter	Transmitter
Alarm / tamper input	18 alarm and/or tamper inputs	1 tamper, 1 alarm input
Power supply output	12 V DC	3.3 V DC
Power supply	110-240 V AC, 50/60 Hz 12 V DC	3x CR123A batteries, 3 V
Detector contact types	NO, NC (no R) EOL (NC with R) EOL (NO with R)	NO, NC

## Tech Specs

- Compatibility: all hubs and ReX
- Terminals: power supply (+/-), alarm, tamper
- Detector contact types: NO, NC (no R)  
EOL (NC with R)  
EOL (NO with R)
- Number of alarm/tamper areas: 18
- Power supply: 110-240 V AC 50/60 Hz  
Backup: 12 V DC (battery not included)
- Power supply output: 12 V DC up to 1 A
- Weight: 805 g
- Jeweller radio technology: 868.0–868.6 MHz depends on region
- Anti-sabotage: Device forgery prevention  
Jamming detection  
Anti-tamper
- Dimensions: 196x238x100 mm



# StreetSiren DoubleDeck with Brandplate

StreetSiren DoubleDeck is an outdoor siren that enables security service providers to print their logo and contact details on the Brandplate for display.

## Tech Specs

- Adjustable sound notification volume: 85 dB to 113 dB at a distance of 1 m
- Adjustable alarm duration: 3–180 s
- Jeweller radio technology: 868.0–868.6 MHz depends on region
- Battery: 4xCR123A, pre-installed  
Up to 5 years of battery life
- Optional supply: 12 V, 1.5 A DC
- Protection class: IP54
- Anti-sabotage:  
Device forgery prevention  
Jamming detection  
Tampering alarm  
Accelerometer alarm
- Operating temperature range:  
from -25°C to +60°C
- Operating humidity: up to 95%
- Dimensions: 200×200×55 mm
- Weight: 571 g
- Color: black/white

## Looks distinct, sounds alike

StreetSiren DoubleDeck looks different from the original model. But it has the same features under the hood. The new siren generates a sound of up to 113 dB, uses an accelerometer to detect removal attempts, operates up to 5 years on pre-installed batteries, and can be powered from a 12 V DC supply.



StreetSiren DoubleDeck  
with Brandplate





When security is art

Learn more at

[www.ajax.systems](http://www.ajax.systems)