How to Organize Complex Home Security with the Ajax Security System

Main advantages

- **Fast installation:** Devices are connected in 30 seconds, and installation is done in 1 hour.
- **No need to disassemble the devices.** All settings are done in an app.

- **Remote configuration, testing, and control** via iOS, Android, macOS, and Windows applications.
- **Addressed devices:** You always know which detector registered an alarm.
- **The system is immune** to jamming, tampering, and sabotage.

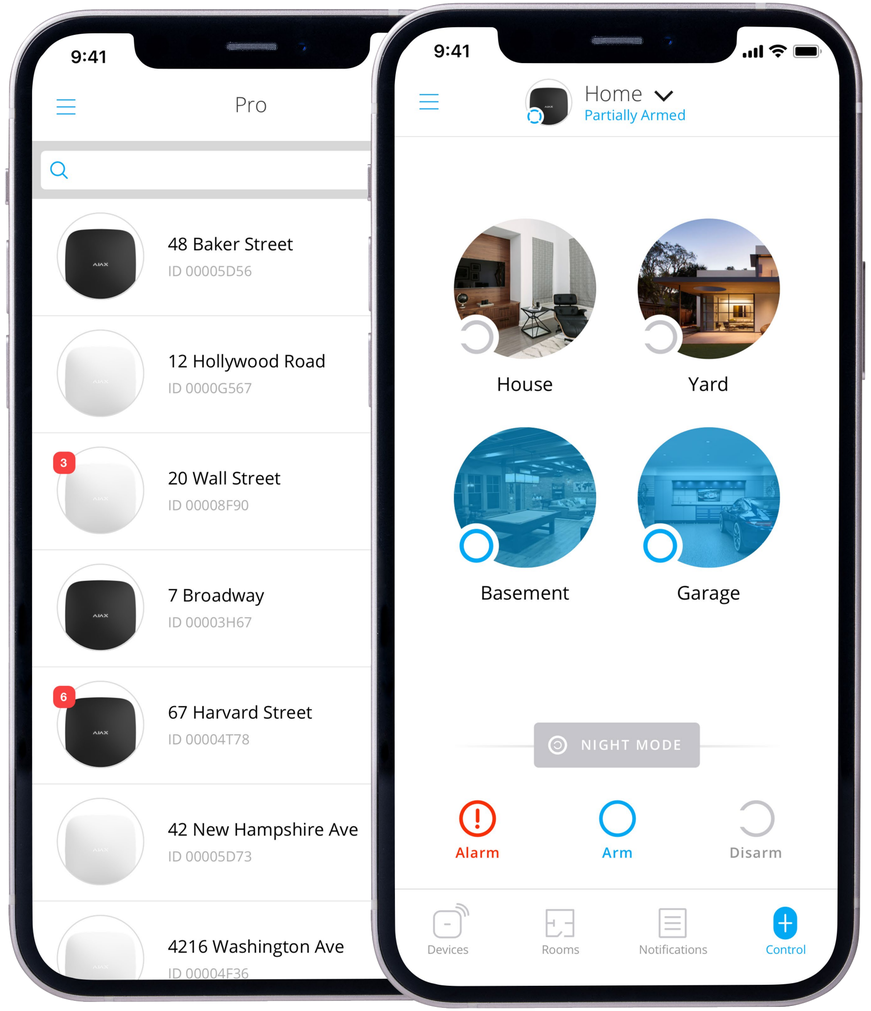
Applications

Smartphone Control and Setup

For PRO:

Ajax PRO:
Tool for Engineers

Free mobile app for installers and engineers of security companies



For users:

Ajax Security System

Free mobile app for users

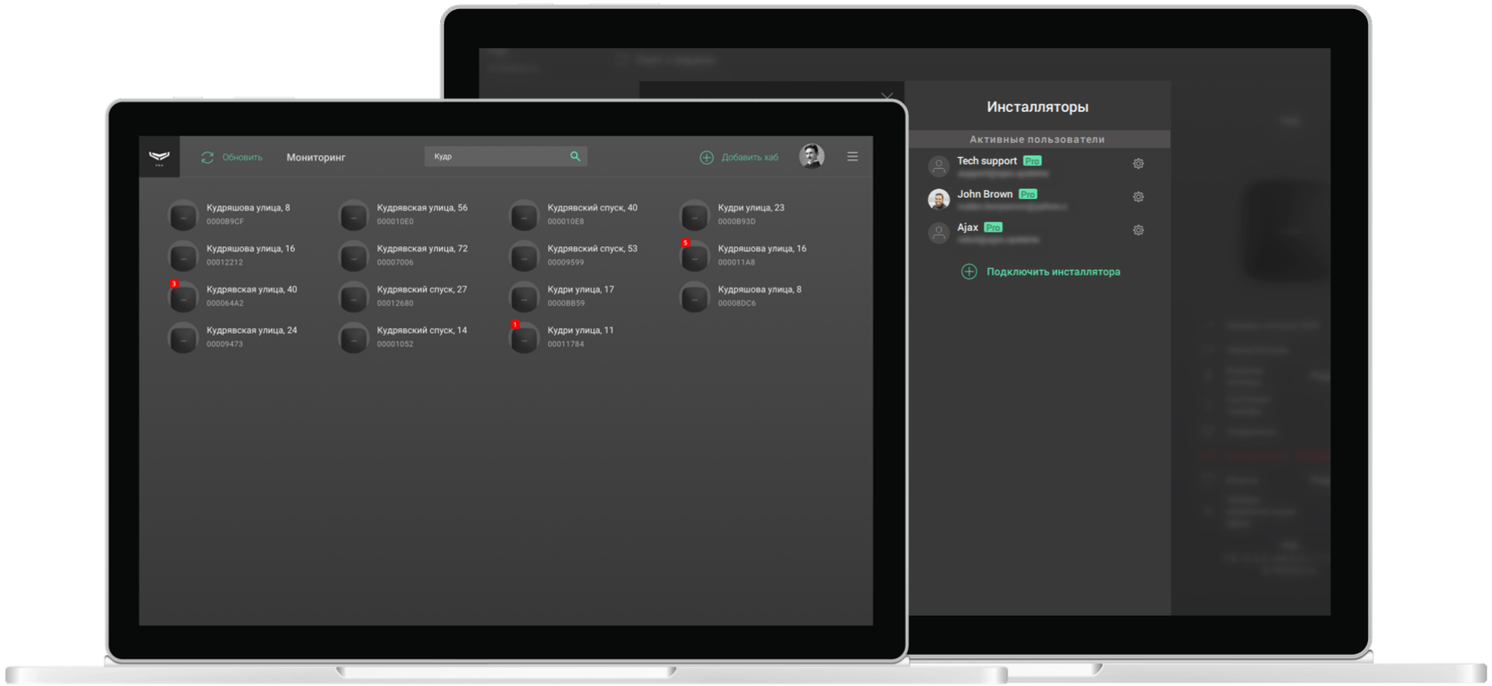
PC Setup

Ajax PRO Desktop

macOS

Windows

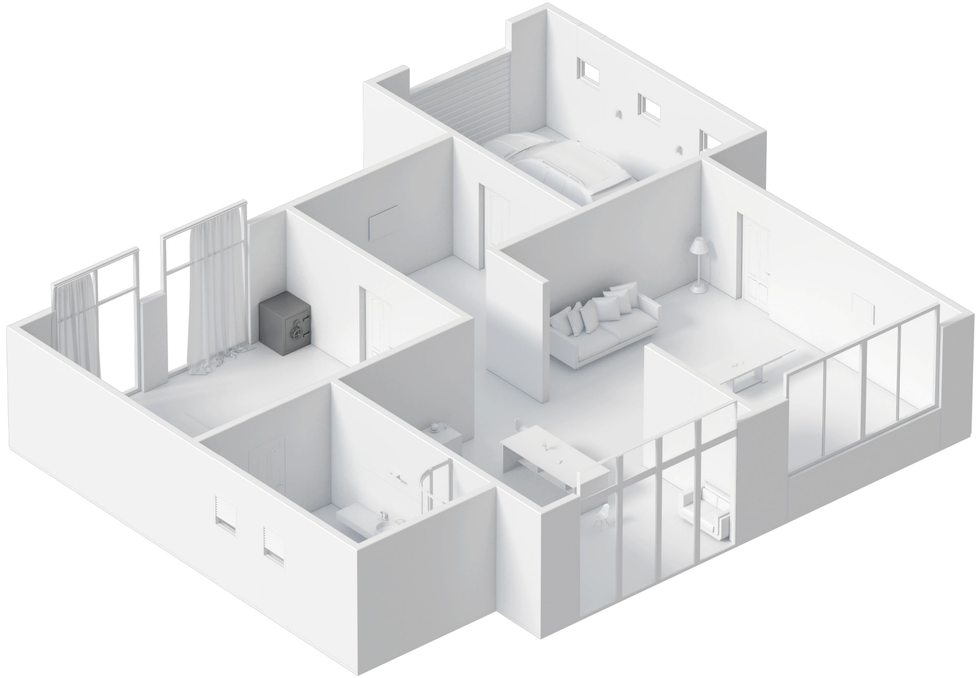
- Apps for administration and monitoring of Ajax security systems.
- Control operation of thousands of protected facilities.
- Change settings of hubs, test detectors, and arm or disarm facilities without leaving your office.
- Review events that occur at the facility and filter them by type.



Before You Start Working

- Interview the client, and find out his/her wants and needs.
- Offer a list of devices according to the customer's wishes.
- Check the availability of Ethernet, mobile service, and Wi-Fi.
- Define the access levels and rights for each of the system users.
- Make and agree on an installation plan.
- Do radio reconnaissance: Check the signal strength at the site with a detector and a control panel.

House Plan



- 3 people, each with a key fob and a personal password for the keyboard
- Single-floor house, garage, perimeter protection
- Protection against intrusion, fire, flood
- Electrical appliance control

Ajax devices

Ajax control panels and range extenders

Control panels

Hub

- 100 devices
- 9 groups
- 5 scenarios
- 15 hours of backup battery life
- 1×2G SIM, Ethernet

Hub Plus

- 150 devices
- 25 groups
- 64 scenarios
- 16 hours of backup battery life
- 2×2G/3G SIM, Ethernet, Wi-Fi
- Free software updates

Hub 2

- 100 devices
- 9 groups
- 32 scenarios
- 16 hours of backup battery life
- 2x2G SIM, Ethernet
- Visual alarm verification
- Free software updates

Hub 2 Plus

- 200 devices
- 25 groups
- 64 scenarios
- 15 hours of backup battery life
- 2×2G/3G/4G (LTE) SIM, Ethernet, Wi-Fi
- Visual alarm verification
- Free software updates

Hub on the plan

Install the hub in a place

- With a signal level of 2–3 divisions with all detectors and devices.
- With good GSM and Wi-Fi signal strength (for Hub Plus and Hub 2 Plus).
- Hidden from the public.

Mount the hub to the SmartBracket so that the tamper triggers in case of sabotage. Attach the device with the bundled screws.

Do not install the hub

- Outdoors
- Near or inside metal objects that cause signal attenuation and shielding
- In places with weak GSM/Wi-Fi signal and a high level of radio interference
- In rooms with temperatures exceeding the range of –10°...+40°C and humidity above 75%
- Near doors, windows, exterior, or perimeter walls (potentially dangerous because of radio signal jamming).

ReX

Security System Range Extender

- Increases the range of Ajax devices.
- Transmits alarms in 0.3 seconds.
- Protects data with dynamic key block encryption.
- Notifies of jamming and tampering alarm.
- Communicates at a distance of up to 1,800 meters.
- Up to 35 hours of backup battery life.
- **The amount of ReX connected depends only on the hub model:**

  Hub — 1,
  Hub Plus, Hub 2, Hub 2 Plus — 5.

Doesn't support MotionCam and MotionCam Outdoor detectors. ReX cannot be connected to another ReX range extender.

Install ReX

- To improve communication with devices that have low signal strength

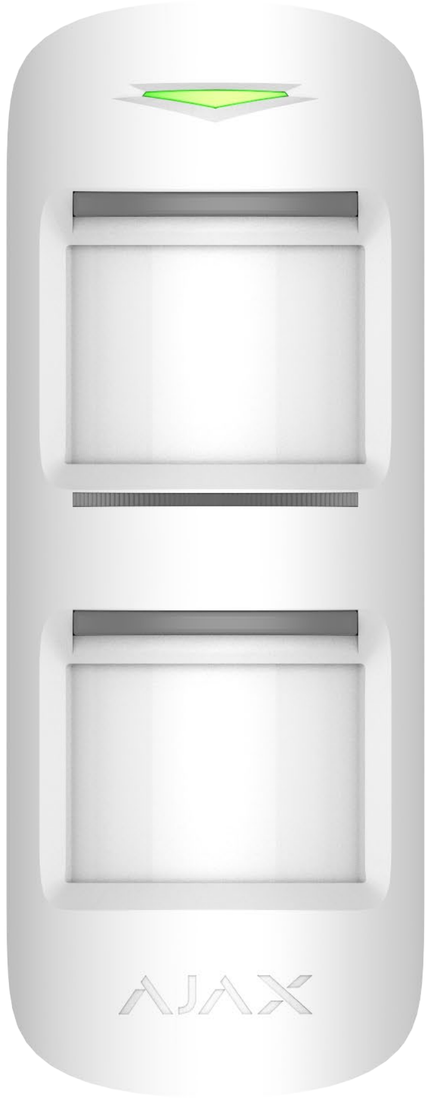
- In places with a signal strength of 2–3 divisions between the ReX and the hub as well as between the ReX and the devices connected to it.

Mount ReX to the SmartBracket so that the tamper triggers in case of sabotage. Attach the device with the bundled screws.

Do not install ReX

- Outdoors.
- In places with a signal level of 1 or 0 divisions.
- In rooms with temperatures exceeding the range of –10°...+40°C and humidity above 75%.
- Near doors, windows, exterior, or perimeter walls (potentially dangerous because of radio signal jamming).
- Near sources of radio interference.
- Less than 1 meter away from the router and power cables.
- Near or inside metal objects that cause signal attenuation and shielding.

Protection of the Territory Around a House



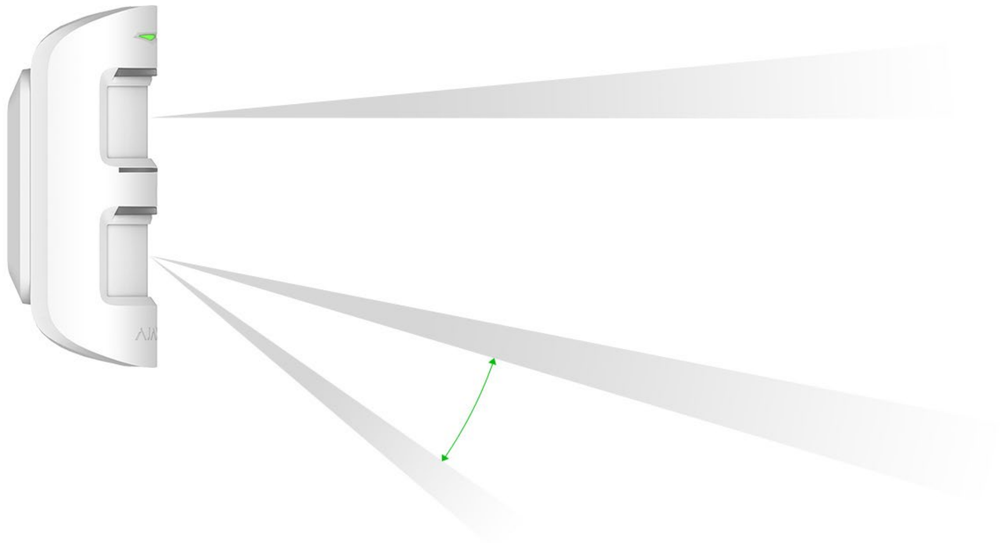
MotionProtect Outdoor

Wireless outdoor motion detector with anti-masking and pet immunity

- Detection range from 3 to 15 meters (set manually).
- The horizontal viewing angle of 90°.
- Operating temperature range: from –25°C to +60°C.
- Ignore animals under 80 cm.
- Protected against false alarms on cars, trees, sun glare.
- Three levels of sensitivity (set in the app).
- Detects when obstacles are placed in front of a detector or when it is painted or taped over.
- Protected by a tamper.
- Optional external 12 V power supply.
- Works for up to 5 years without battery replacement.

Detector on the plan

Installation Options



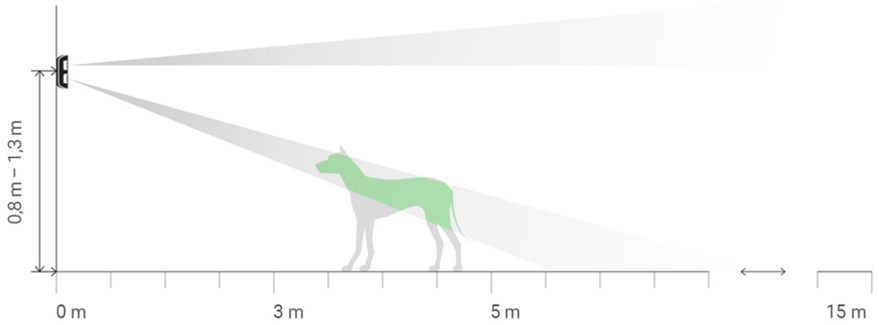
The adjustable viewing angle of the lower lens allows you to set the detection range from 3 to 15 meters.

LISA is an algorithm that detects humans, doesn't give false alarms, and allows the detector to run for up to 5 years on the bundled batteries.

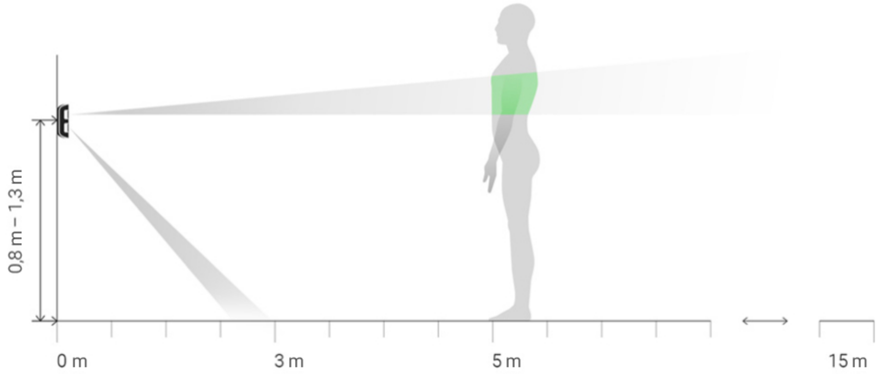
How a Detector Works

- **If both PIR sensors detect motion**, LISA performs correlation and spectral analysis to distinguish the real threat from disturbances.
- **Correlation analysis.** LISA analyses and compares forms of two signals in real–time. If they are similar, the detector triggers an alarm.
- **Spectral analysis.** When the correlation analysis doesn't reveal sufficient similarity of the forms, Live Intelligent Spectrum Analysis (LISA) compares the frequency components of the signals from the two sensors.

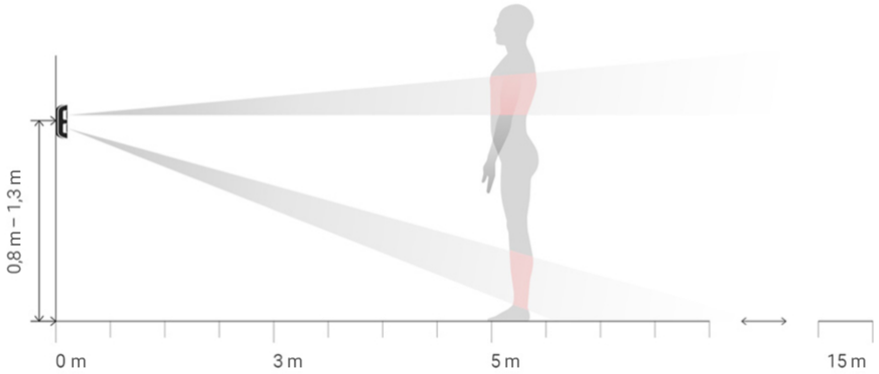
Installation Options



A dog crosses only the beams of the lower sensor. **The event is ignored.**



A person crosses the beams of the upper sensor (located outside the detection area). **The event is ignored.**



A person crosses the beams of both sensors. **An alarm.**

How to Install the Detector Properly

- The intruder's entry path lies perpendicular to the axis of both lenses.
- The axis of the upper lens is parallel to the ground.
- The view of the detector is not blocked by objects or glass structures.

  The detector doesn't register any movement behind the glass.

- The detector is installed at the height of 0.8—1.3 meters (in a corner or flat surface).
- The detector is mounted to the SmartBracket using the bundled screw so that the tamper reacts to any attempt to tear off the device or remove it from the mount.

Do Not Install the Detector

- Outdoors without the Hood for MotionProtect Outdoor.
- Opposite trees with leaves in the detection zone of both PIR sensors of the detector.
- Opposite bushes are higher than 80 cm.
- In areas where objects may block the view of the detector.
- **The detector doesn't react to the movement behind the glass.**
- Near metal objects and mirrors which causing radio signal attenuation or screening.
- In places with low or unstable signal strength.
- Closer than 1 meter of a hub or the ReX.
- Upside down.

MotionCam Outdoor

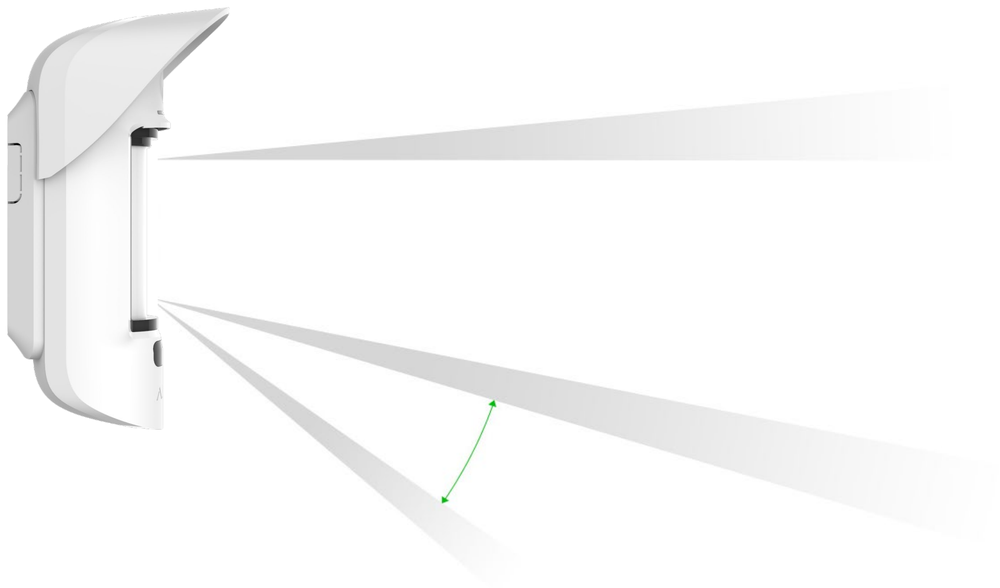
Wireless outdoor motion detector with a photo camera for alarm verification

- Detection range from 3 to 15 meters (set manually).
- The horizontal viewing angle of 90°.
- Operating temperature range: From −25°C to +60°C.
- Do not react on animals under 80 cm.
- Protected against false alarms on cars, trees, sun glare.
- Three levels of sensitivity (set in the app).
- Detects when obstacles are placed in front of a detector or when it is painted or taped over.
- Protected by a tamper.
- Photo resolution up to 640×352 pixels. Features IR-backlight.
- Works for up to 3 years without battery replacement.
- Bundled Hood.

Supported only by Hub 2 and Hub 2 Plus

Detector on the plan

Installation Options



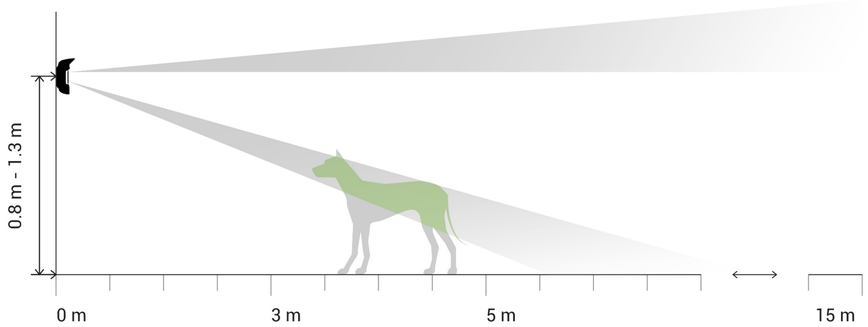
The adjustable viewing angle of the lower lens allows you to set the detection range from 3 to 15 meters.

LISA is an algorithm that detects humans, doesn't give false alarms, and allows the detector to run for up to 5 years on the bundled batteries.

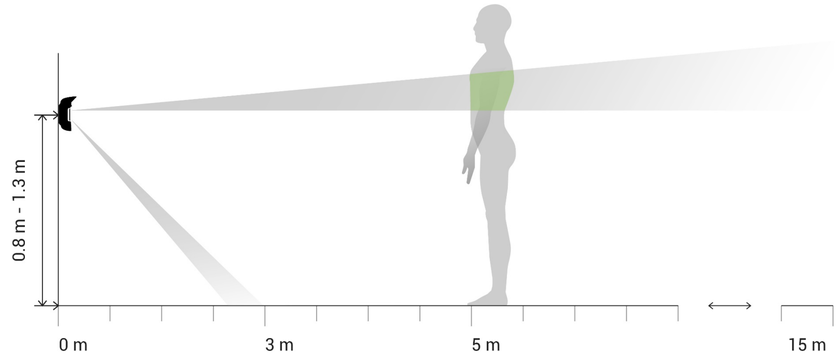
How a Detector Works

- **If both PIR sensors detect motion**, the detector takes a photo, and LISA performs correlation and spectral analysis to distinguish the real threat from disturbances.
- **Correlation analysis.** LISA analyses and compares forms of two signals in real–time. If they are similar, the detector triggers an alarm.
- **Spectral analysis.** When the correlation analysis doesn't reveal sufficient similarity of the forms, Live Intelligent Spectrum Analysis (LISA) compares the frequency components of the signals from the two sensors.

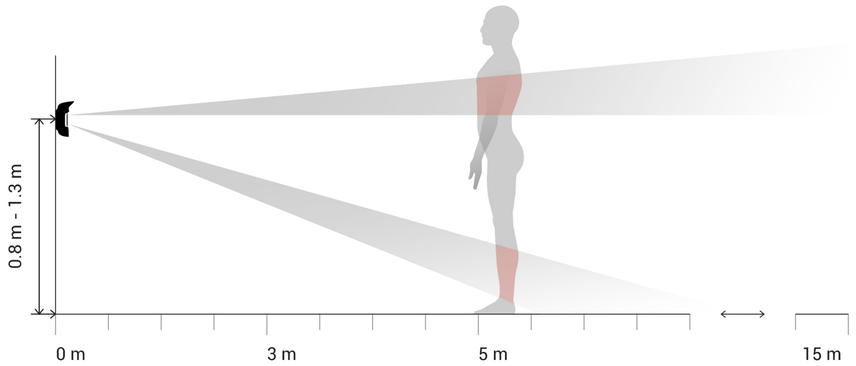
Installation Options



A dog crosses only the beams of the lower sensor.
The event is ignored.



A person crosses the beams of the upper sensor (located outside the detection area). **The event is ignored.**



A person crosses the beams of both sensors. **An alarm.**

How to Install the Detector Properly

- The intruder's entry path lies perpendicular to the axis of both lenses.
- The axis of the upper lens is parallel to the ground.
- The view of the detector and the camera are not blocked by objects or glass structures.

  The detector doesn't register any movement behind the glass.
- The detector is installed at a height of 0.8—1.3 meters (in a corner or on a flat surface).
- The detector is mounted to the SmartBracket using the bundled screw, so that the tamper reacts to an attempt to tear off the device or remove it from the mount.

Do Not Install the Detector

- Without a bundled Hood.
- Opposite trees with leaves in the detection zone of both PIR sensors of the detector.
- Opposite bushes are higher than 80 cm.
- In areas where objects may block the view of the camera or the detector's sensors.

The detector doesn't react to the movement behind the glass.

- Near metal objects and mirrors which causing radio signal attenuation or screening.
- In places with low or unstable signal strength.
- Closer than 1 meter from the hub.
- Upside down.

DualCurtain Outdoor

Wireless outdoor bidirectional curtain motion detector with configurable detection range

- Detection range from 4 to 15 meters (set manually for each side).
- Supports **Near Area Detection** and a 3° horizontal deviation of the optical system.
- Operating temperature range: from −25°C to +60°C.
- Do not react on animals under 80 cm.
- Three levels of sensitivity (set in the app).
- Detects when obstacles are placed in front of a detector or when it is painted or taped over.
- Protected by a tamper.
- Protected against false alarms by the ELSA algorithm.
- Works for up to 4 years without battery replacement.

Doesn't support by Hub

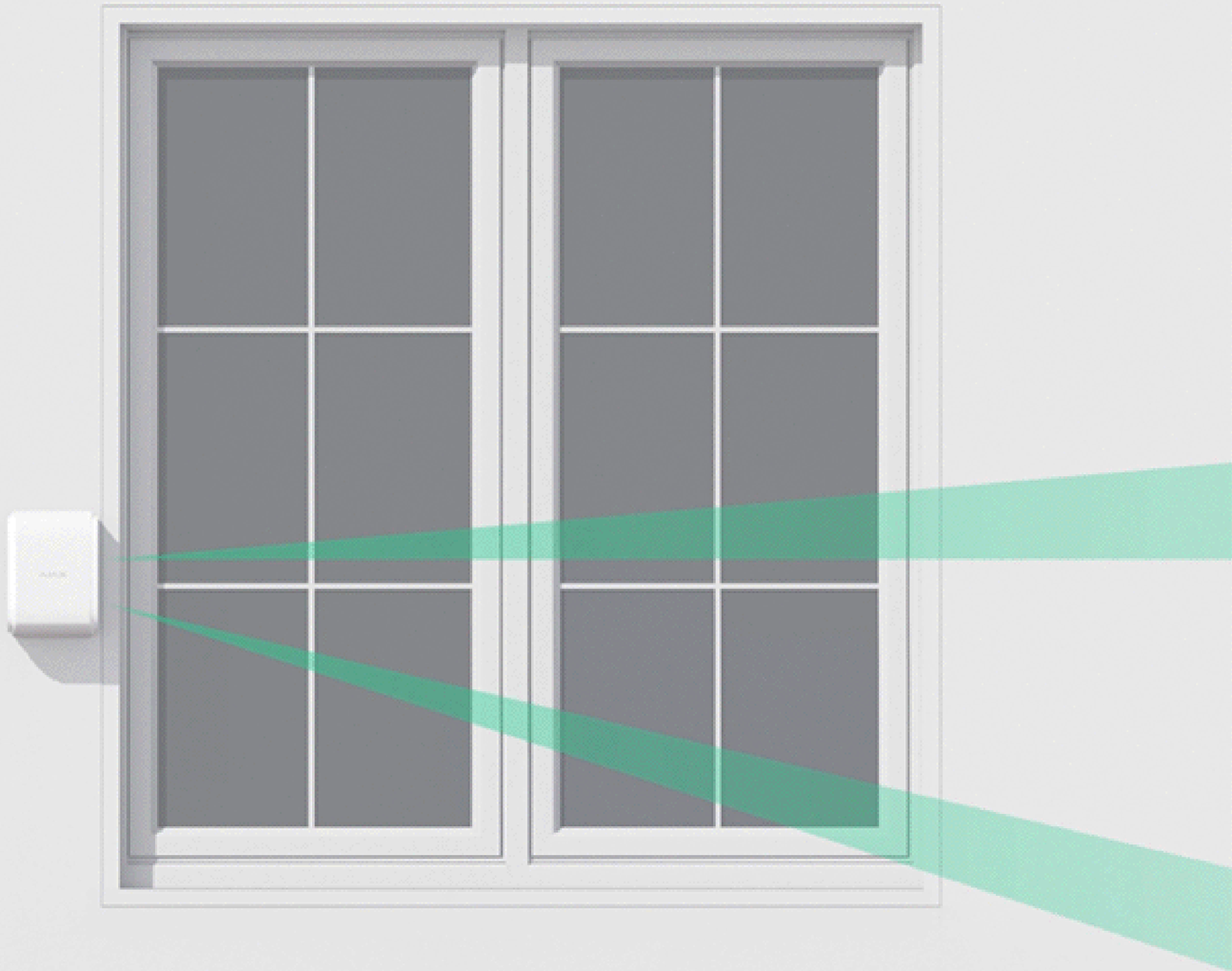
Near Area Detection

off

on

Alarm

No



Detector on the plan

Detector on the plan

How to Install the Detector Properly

- The axis of the upper lens is parallel to the ground or the window sill level.
- The view of the detector is not blocked by objects or glass structures.

  The detector doesn't register any movement behind the glass.
- The detector is installed at the height of **0.8—1.3 meters** when used to protect doors, fences, or arches.
- If the detector is used to protect windows or window displays, it is placed at the height of **0.5 to 0.6 meters** from the window sill.
- The detector is mounted to the SmartBracket using the bundled screw so that the tamper reacts to an attempt to tear off the device or remove it from the mount.

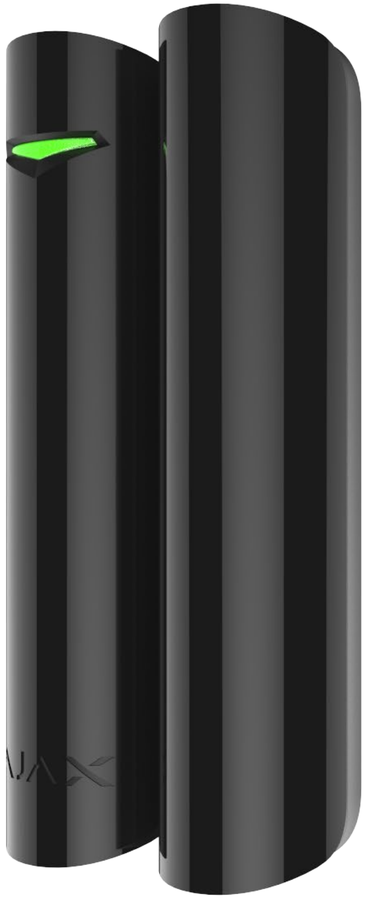
Do Not Install the Detector

- Opposite the trees with leaves in the detection zone of both PIR sensors of the detector.
- Opposite bushes higher than 80 cm.
- Near metal objects and mirrors that causing radio signal attenuation or screening.

The detector doesn't react to movement behind the glass.

- In places with low or unstable signal strength.
- Closer than 1 meter from the hub.
- Upside down.
- In areas where objects may block the view of the detector.

Opening detectors



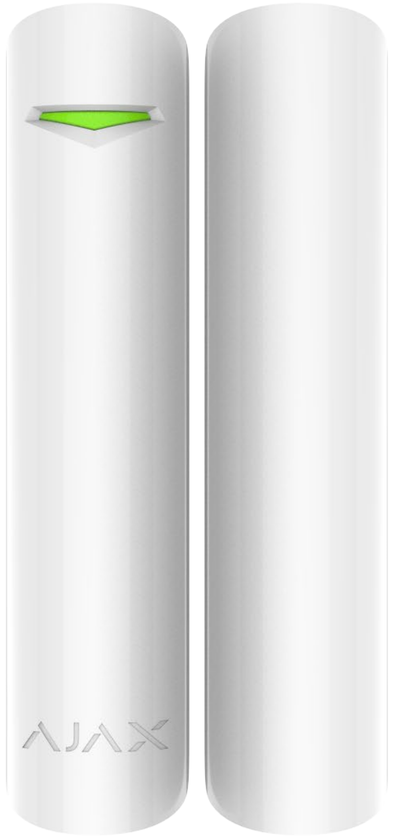
DoorProtect

Wireless opening detector

- It comes with magnets in two sizes
- Supports connection of third-party NC detectors
- Protected by a tamper
- Works for up to 7 years without battery replacement

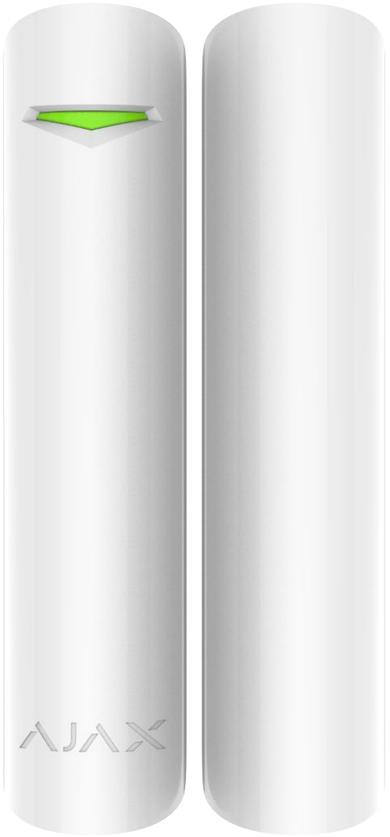
Detector on the plan

How to Install the Detector Properly

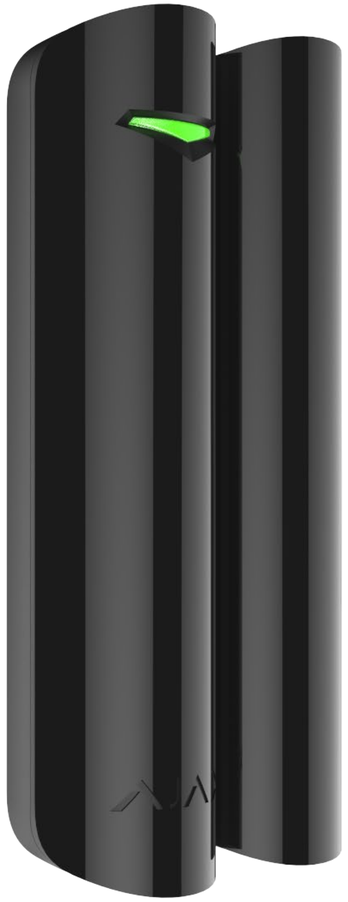


- The detector is attached to a static surface (door or window frame) and the magnet to the moving part (door or window).
- Choose the magnet: small (range up to 1 cm) for wooden doors and windows; large (up to 2 cm) for metal doors.
- **Install the magnet on the right side of the detector** (the large magnet can be installed on the left if the detector reacts on opening and closing).
- The detector can be installed both horizontally and vertically.

Do Not Install the Detector



- Outdoors.
- Near metal objects and mirrors that cause radio signal attenuation or screening.
- In rooms with temperatures exceeding the range of –10°...+40°C and humidity above 75%.
- Upside down.
- On the side of or near the door hinges.
- More than 2 cm away from the large magnet and 1 cm from the small one.



DoorProtect Plus

Wireless opening detector with a shock and tilt sensor

- **Detects changes** in **tilt angle**: install the detector, and receive alarms even when the window is open for ventilation.
- **Registers hits or vibrations**: receive an alarm if someone tries to break or push the window.

Put a detector on a safe and get notified if someone tries to unlock it or take it away.

- Comes with magnets in two sizes.
- Supports connection of third-party NC detectors.
- It is protected by a tamper.
- Works up to 5 years on batteries.

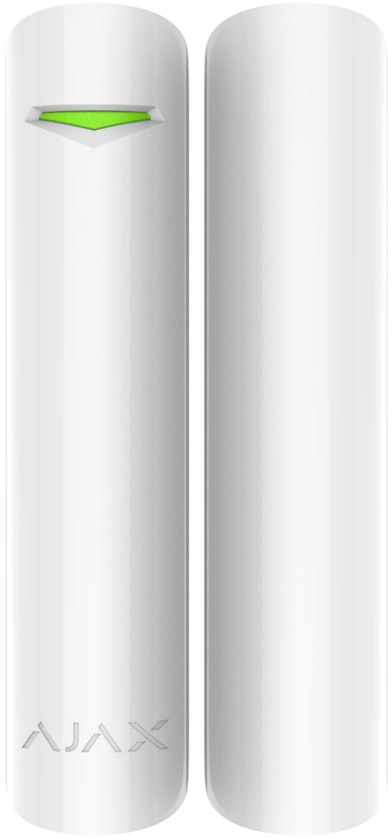
Detector on the plan

Install DoorProtect Plus wherever you want to detect even an attempted burglary: vibration or angle change.

How to Install the Detector Properly

- **Choose detector function:** tilt change or opening detection.
- **The detector triggers on opening or changing the tilt angle. There is no need to set a magnet when detecting angle changes. The vibration and shock sensor can operate with any use of the detector.**
- To detect tilt changes, place the detector on the moving part.
- **Install the magnet on the right side of the detector** (the large magnet can be installed on the left if the detector reacts on opening and closing).
- **Choose the magnet:** small (range up to 1 cm) for wooden doors and windows; large (up to 2 cm) for metal doors.

Do Not Install the Detector



- Outdoors.
- Near metal objects and mirrors that cause radio signal attenuation or screening.
- In rooms with temperatures exceeding the range of –10°...+40°C and humidity above 75%.
- Upside down.
- On the side of or near the door hinges.
- More than 2 cm away from the large magnet and 1 cm from the small one.

Motion detectors

How Motion Detectors Work

Motion detectors based on PIR sensors capture IR radiation (heat).

1. The Fresnel lens focuses the radiation onto the sensor of the detector.
2. The sensor signals are sent to the microprocessor, which converts them to digital data.
3. Threat analysis and assessment take place.

Knowing the radiation intensity and the movement dynamics, software algorithms determine the nature of the threat, and the detector decides whether to **raise the alarm or ignore it.**

The closer to white, the stronger the radiation (the warmer the object). The closer the object is to the detector, the larger the heat spot is.

Pet immunity

If pets are in the protected facility, do not install the detector in front of objects where pets can climb and cause a false alarm. For example, in front of a table or a cabinet that is close to the detector.

Low

The detector doesn't react to pets up to 50 cm tall.

Medium

The detector doesn't react to small dogs or other animals up to 35 cm tall.

High

The detector doesn't react to cats and other animals up to 25 cm tall.

MotionProtect

Wireless motion detector
that doesn't react to animals

- Detection range — 12 meters.
- The viewing angle is 80° vertically and 88.5° horizontally.
- Do not react on pets up to 20 kg in weight and up to 50 cm in height.
- Features temperature compensation.
- Three levels of sensitivity (set in the app).
- Protected by a tamper.
- Works up to 5 years without battery replacement.

Detector on the plan

How to Install the Detector Properly

- The intruder's entry path lies perpendicular to the axis of the lens.
- The view of the detector is not blocked by furniture or glass structures.

  The detector doesn't register any movement behind the glass.
- The detector is installed at the height of 2.4 meters (in a corner or flat surface).
- The detector is mounted to the SmartBracket, so that the tamper reacts to an attempt to tear off the device or remove it from the mount.

Do Not Install the Detector

- Outdoors or in places where direct sunlight reaches the lens.
- In areas with fast air circulation, as well as in front of objects with rapidly changing temperatures.
- Opposite any moving objects with a temperature close to that of the human body.
- Near metal objects and mirrors that cause radio signal attenuation or screening.
- In rooms with temperatures exceeding the range of −10°...+40°C and humidity above 75%.
- In places where the view of the detector can be blocked.
- Upside down.

MotionProtect Plus

Wireless motion detector with a microwave sensor that doesn't react to animals

- Has an additional microwave sensor to filter out false alarms from air conditioners, heaters, curtains.
- Detection range: 12 meters. The viewing angle is 80° vertically and 88.5° horizontally.
- Do not react on animals up to 20 kg in weight and up to 50 cm in height.
- Features temperature compensation.
- Three levels of sensitivity (set in the app).
- Protected by a tamper.
- Works for up to 5 years without battery replacement.

MotionProtect responds to the movement of the heat spot, and MotionProtect Plus responds to body movement.

Detector on the plan

MotionProtect Plus is installed near air conditioners and heating systems, fireplaces, and places where the detector lens may be exposed to direct or reflected sunlight.

How to Install the Detector Properly

- The intruder's entry path lies perpendicular to the axis of the lens.
- The view of the detector is not blocked by furniture or glass structures.

  The detector doesn't register any movement behind the glass.
- The detector is installed at the height of 2.4 meters (in a corner or on a flat surface).
- The detector is mounted to the SmartBracket, so that the tamper reacts to an attempt to tear off the device or remove it from the mount.

Do Not Install the Detector

- Outdoors.
- Near metal objects and mirrors that cause radio signal attenuation or screening.
- In rooms with temperatures exceeding the range of –10°...+40°C and humidity above 75%.
- In places where the view of the detector can be blocked.
- Upside down.

Photo capture only in case of alarm

MotionCam

Wireless motion detector with a photo camera to verify alarms

- Detects motion at a distance of up to 12 m, with viewing angles of 80° and 88.5°.
- Makes 1 to 5 photos on alarm.
- Photo resolution is up to 640×480 pixels.
- Transmits the first picture in 9 s.
- Features IR illumination.
- Do not react on pets of up to 20 kg in weight and up to 50 cm in height.
- Three levels of sensitivity (set in the app).
- Protected by a tamper.
- Works for up to 4 years on batteries.

Supports only Hub 2 and Hub 2 Plus

Detector on the plan

MotionCam should be installed in locations where one needs to see what has triggered the alarm.

How to Install the Detector Properly

- The intruder's entry path lies perpendicular to the axis of the lens.
- The view of the detector and the camera are not blocked by furniture or glass structures.

  The detector doesn't register any movement behind the glass.
- The detector is installed at the height of 2.4 meters (in a corner or on a flat surface).
- The detector is mounted to the SmartBracket, so that the tamper reacts to an attempt to tear off the device or remove it from the mount.

Do Not Install the Detector

- Outdoors.
- In places with a signal level of 1 or 0 divisions.
- In areas where the detector lens is exposed to direct sunlight.
- Within 1 meter of the hub.
- Opposite any objects with rapidly changing temperature.
- In places where the view of the detector or camera can be blocked.
- Opposite any moving objects with a temperature close to that of the human body.
- In rooms with temperatures exceeding the range of –10°...+40°C and humidity above 75%.
- In places with fast air circulation.
- Upside down.

MotionProtect Curtain

Wireless curtain–type motion detector

- Detects motion at a distance of up to 15 meters (depending on settings).
- The viewing angle is 90° vertically and 6° horizontally.
- Operates in temperatures from –10°C to +40°C.
- IP54 body protection class.
- Has an intelligent algorithm against false alarms.
- Has three levels of sensitivity (set in the app).
- Protected by a tamper.
- Has an additional bracket for 90° installation.
- Works up to 3 years without battery replacement.

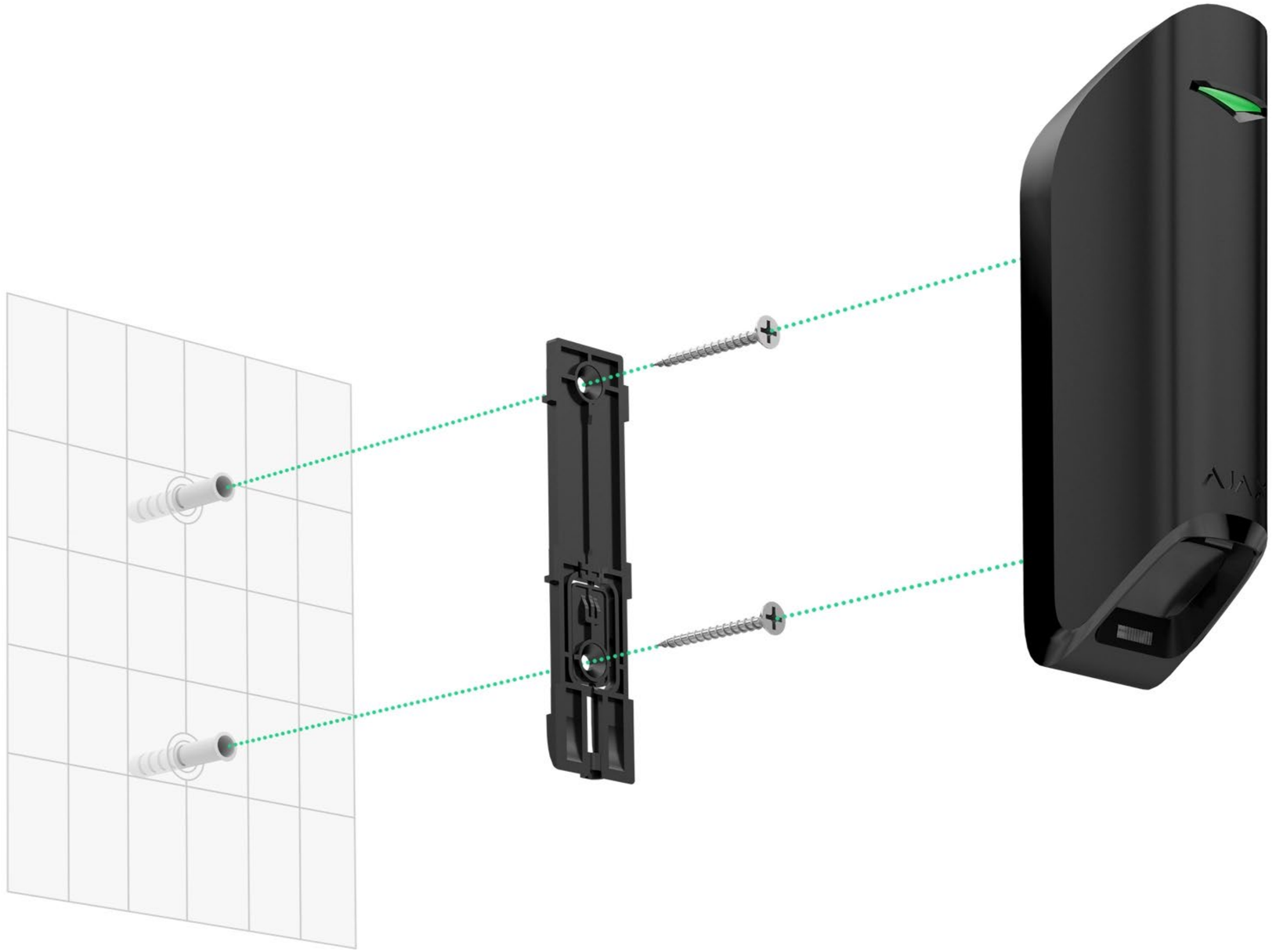
How to Install the Detector Properly

- The intruder's entry path lies perpendicular to the axis of the lens.
- The view of the detector is not blocked by furniture or glass structures.

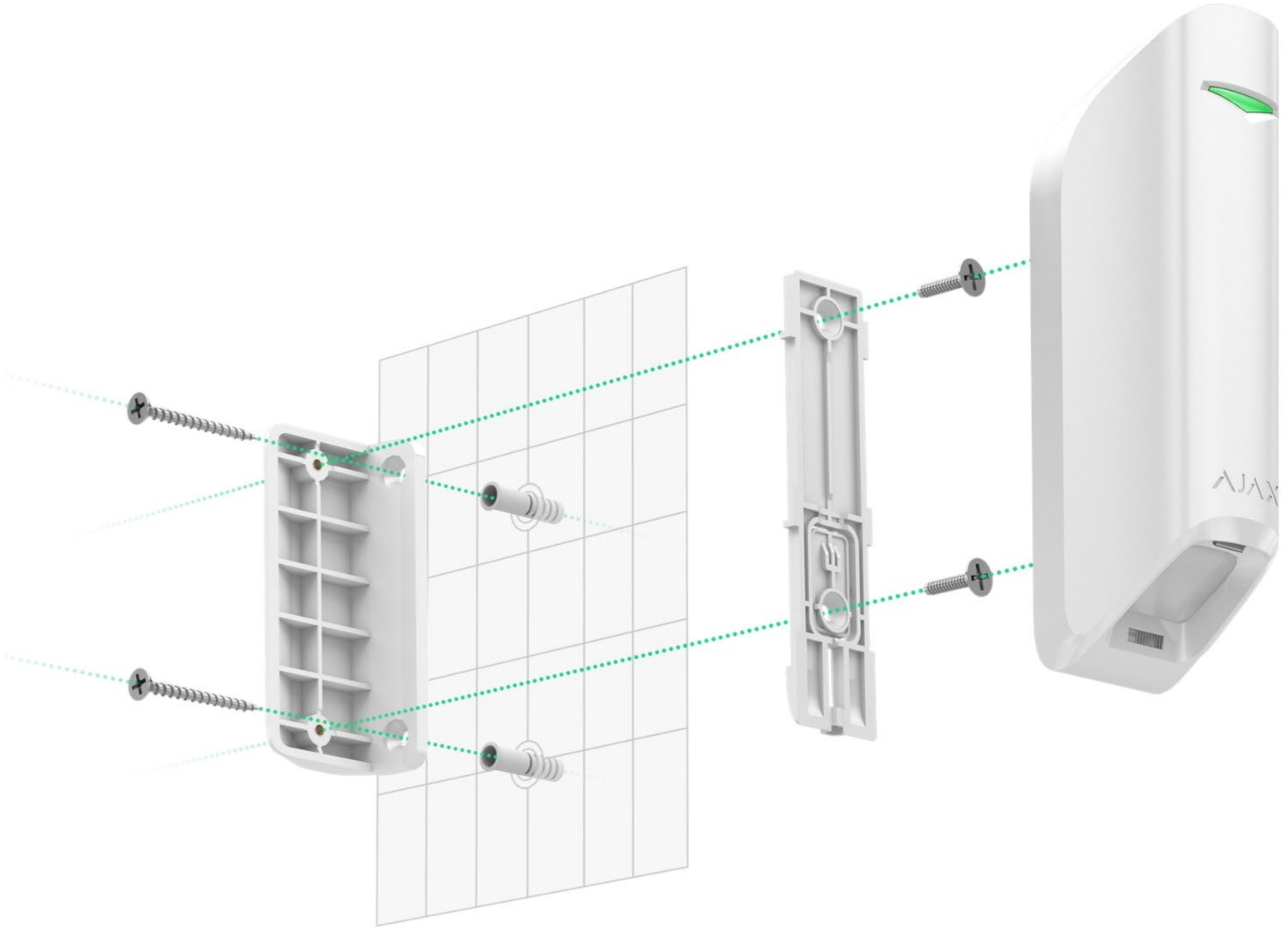
  The detector doesn't register any movement behind the glass.
- The detector is installed at the height of 2.4 meters (in a corner or on a flat surface).
- The detector is mounted to the SmartBracket, so that the tamper reacts to an attempt to tear off the device or remove it from the mount.

  For 90° installation, use the special bundled bracket.
- The detector is mounted on the SmartBracket with a bundled screw.

Normal installation



Installation on bracket

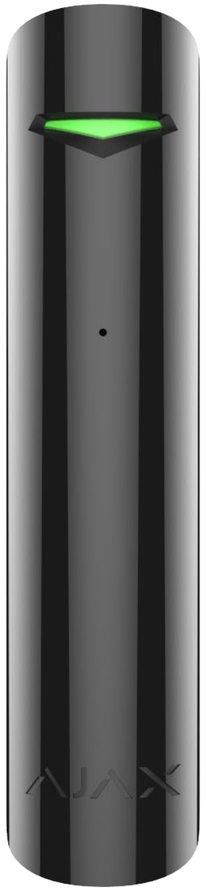


Do Not Install the Detector

- Outdoors and in places with temperatures beyond the range of –10°C...+40°C.
- Opposite trees and bushes that can move.
- In places where the view of the detector can be blocked.
- In areas where the **black-colored detector** may be exposed to direct sunlight.
- Near metal objects and mirrors that cause radio signal attenuation or screening.
- With the protection against false alarms turned off in rooms where there are likely sources of such alarms.
- Opposite moving objects with a temperature close to the human body temperature; in places with rapid circulation of hot air; opposite water reservoirs, swimming pools, and other sun-reflecting surfaces.
- Installing the detector in places where it can detect motion at a greater distance than required is not recommended.

Detector on the plan

Glass break detectors



GlassProtect

Wireless glass break detector

- Detection range: 9 meters.
- Doesn't react to barking or street noise.
- Has three levels of sensitivity (set in the app).
- It has an external detector connection socket for third-party NC devices.
- Protected by a tamper.
- Works up to 7 years without battery replacement.

Detector on the plan

How to Install the Detector Properly

- The detector must be installed at an angle of no more than 90° in relation to the windows.
- Curtains, plants, furniture, or other objects shouldn't cover the microphone slot.
- If a window is curtained, place the detector between the curtains and the window.

The detector will not respond to a break if a film is glued to the glass: anti-shock, sun-protective, decorative, or other. To detect the breakage of such glass, we recommend using the wireless opening, shock, and tilt detector DoorProtect Plus.

Do Not Install the Detector

- Outdoors.
- Close to sirens and similar devices.
- Near metal objects and mirrors that cause radio signal attenuation or screening.
- Near a draft and in places with rapid air circulation.
- On any premises with temperature and humidity outside the permissible range (from –10° to +40°C, humidity up to 75%).
- Upside down.
- In places where the detector microphone can be blocked.

CombiProtect

Wireless combined motion and glass break detector

- Motion detection range of up to 12 meters.
- Glass break detection range of up to 9 meters.
- Saves clients money.
- The motion sensor ignores animals, and the break sensor doesn't react to barking and street noise.
- Temperature compensation.
- Three levels of sensitivity for both sensors.
- Protected by a tamper.
- Works up to 5 years without battery replacement.

The detector will not respond to a break if a film is glued to the glass: anti-shock, sun-protective, decorative, or other. To detect the breakage of such glass, we recommend using the wireless opening, shock, and tilt detector DoorProtect Plus.

Detector on the plan

How to Install the Detector Properly

- The intruder's entry path lies perpendicular to the axis of the lens.
- The microphone is placed at an angle of no more than 90° to the windows.
- The microphone is not blocked by furniture or other objects.
- The view of the detector is not blocked by furniture or glass structures.

  The detector doesn't register any movement behind the glass.
- The detector is installed at a height of 2.4 meters (in a corner or on a flat surface).
- The detector is mounted to the SmartBracket, so that the tamper reacts to an attempt to tear off the device or remove it from the mount.

Do Not Install the Detector

- Outdoors.
- In places where the detector lens is exposed to direct sunlight.
- Opposite any objects with rapidly changing temperature.
- Opposite any moving objects with a temperature close to that of the human body.
- In places with fast air circulation.
- Near metal objects and mirrors that cause radio signal attenuation or screening.
- On any premises with temperature and humidity outside the permissible range (from –10° to +40°C, humidity up to 75%).
- Upside down.
- In places where the microphone or the view of the detector can be blocked.

Signalling

HomeSiren

Wireless indoor siren

- The alarm of set duration: from 3 to 180 s.
- Alerts you with sound and LED about the change of arming mode.
- Notifies about entry and exit delays.
- You control which detectors trigger the siren.
- Socket for an external LED connection.
- Adjustable volume of alarms and beeps: 81–105 dB at 1 m distance.
- Protected by a tamper.
- Works up to 5 years without battery replacement.

Siren on the plan

How to Install the Siren Correctly

- Generally, the siren is installed at the entrance.
- Recommended installation height: from 2.5 m. This will make it difficult for intruders to access the device.
- Use the bundled SmartBracket.
- Nothing is blocking the siren and its speaker.
- The siren can be heard in all rooms where this is necessary.

Do Not Install the Siren

- Outdoors.
- In places where the audio signal of the siren can be drowned out.
- Near metal objects that cause radio signal attenuation or screening.
- On any premises with temperature and humidity outside the permissible range (from –10° to +40°C, humidity up to 75%).
- Near glass break detectors.

StreetSiren

Wireless outdoor siren

- The alarm of set duration: from 3 to 180 s.
- Operates at temperatures from –25° to +60°C.
- IP54 body protection class.
- Alerts you with sound and lighting about the change of arming mode.
- Notifies about entry and exit delays.
- You control which detectors trigger the siren.
- Adjustable volume of alarms and beeps: 81–113 dB at 1 m distance.
- Protected by a tamper and an accelerometer.
- It runs for up to 5 years without battery replacement or on a 12 V power supply.

StreetSiren DoubleDeck

Wireless outdoor siren with a faceplate mount

- Alarm of set duration: from 3 to 180 s.
- Operates at temperatures from –25° to +60°C.
- IP54 body protection class.
- Alerts you with sound and lighting about the change of arming mode.
- Notifies about entry and exit delays.
- You control which detectors trigger the siren.
- Adjustable volume of alarms and beeps: 81–113 dB at 1 m distance.
- Protected by a tamper and an accelerometer.
- Runs for up to 5 years without battery replacement or on a 12 V power supply.

Brandplate

StreetSiren DoubleDeck Branding Faceplate

A security or installation company can print the logo and contact information on the faceplate of the outdoor siren to let neighbours and passers-by know who took care of the security of the facility and to attract new customers.

Specifics:

- Mounted on the StreetSiren DoubleDeck
- Advertises security and services

Sold in batches (one batch is 10 pcs).

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How to Order Brandplate

Brandplate is sold in packs of 10, separate from the StreetSiren DoubleDeck. To place an order, contact an official Ajax partner in your region.

Free Printing

Order 4 packs of Brandplate (40 pieces) in one colour, and get your logo and contact information printed on the panels for free.

The layout may include a logo, a company name, and contacts: a phone number or a website.

Siren on the plan

How to Install the Siren Correctly

- Install the siren at the entrance to the premises.
- Recommended installation height is from 2.5 m. This will make it difficult for intruders to access the device.
- When connecting external power, provide space for cables, and make a hole in the mount.
- Use SmartBracket. After installation, attach the siren to the mount with the bundled screw.
- Nothing is blocking the siren and its speaker.
- The siren can be heard in all areas where this is necessary.

Do Not Install the Siren

- In places where the audio signal of the siren can be drowned out.
- Near metal objects that cause radio signal attenuation or screening.
- In places with a signal level of 1 or 0 divisions.
- Near glass break detectors.

Controls and Panic Buttons

KeyPad

Wireless touch keypad

- Control of groups, the whole system, the **Night mode**.
- Fast arming without a password.
- Personal passwords.
- Auto-locked if the password might have been compromised.
- Tamper protection.
- Security mode indication.
- Silent alarm mode when entering the duress code.
- Panic button.
- Functional button for fire detectors muting.
- Works for up to 2 years without battery replacement.

Keypad on the plan

How to Install the Keypad Correctly

- Installed at the entrance.
- Installation height: 1.3–1.5 meters.
- Use SmartBracket to trigger the tamper when sabotage is attempted.
- Nothing is blocking the touch panel of the keypad.
- Power wires or Ethernet cables do not touch the keypad.
- Fasten the keypad with a screw on the SmartBracket.

Do Not Install the Keypad

- Outdoors.
- Near radio-transmitting devices, including those operating in mobile networks, Wi-Fi routers, radios, radio stations, and hubs.
- Near electrical wires.
- Near metal objects and mirrors that cause radio signal attenuation or screening.
- In rooms with temperatures exceeding the range of –10°...+40°C and humidity above 75%.

SpaceControl

Key fob with a panic button

- 4 functions: Arm, disarm, night mode, and panic button.
- Binding to a group.
- Binding to a user.
- LED indication of command delivery.
- Fraud protection.
- Works up to 3 years without battery replacement.

Button

A wireless panic button/
remote control for scenarios

- Two modes of operation: alarm and control.
- 4 alarm modes: panic button, fire alarm, gas leakage, medical button.
- Protected against any accidental pressing.
- Works up to 5 years without battery replacement.
- IP55 body protection class.

Button Operation Modes

Panic Mode

Calls a security company patrol, activates sirens, and alerts users about the danger

Control Mode

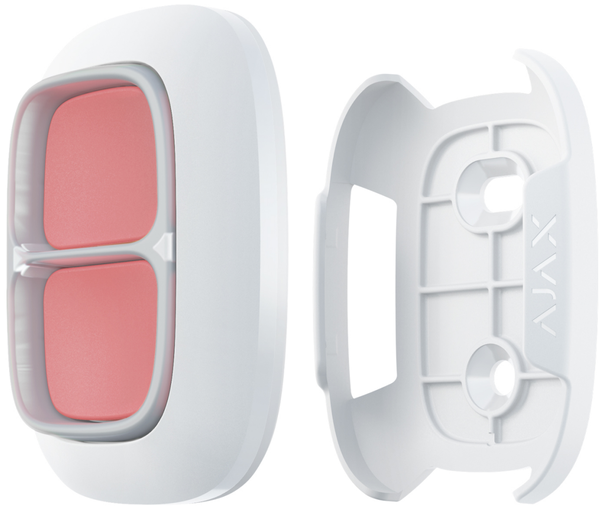
Turns off the lights, turns on the appliances, lowers the roller shutters, opens the gates. Scenarios are set to respond to long and short presses.

DoubleButton

Wireless hold-up device with advanced protection against accidental pressing

- Supports verified alarms.
- Complies with PD 6662:2017.
- Protected against any accidental pressing.
- Works up to 5 years without battery replacement.
- IP55 body protection class.

How to Use Ajax Buttons



- As a key fob.
- On a neck.
- Under the desk at work.
- On the wall by the front door or bed.

The Holder is sold separately.

Fire Detection

FireProtect

Smoke and
Temperature Detector

- Reacts to smoke, rapid temperature growth (30°C in 30 minutes), and exceeding 60°C.
- Has a built-in siren.
- Automatically and on request tests the smoke chamber and inform about the need for cleaning.
- Rechecks smoke alarms.
- Supports synchronous alarms.
- Protected by a tamper.
- Works for up to 4 years without battery replacement.
- Has a carbon monoxide sensor **(FireProtect Plus only).**

FireProtect Plus

Smoke, Temperature, and
Carbon Monoxide Detector

Detector on the plan

How to Install the Detector Properly

- Installation depends on ceiling type, room size. Refer to the current fire standards in your region.
- Use SmartBracket.
- The detector is not blocked by furniture, plants, or other objects.
- The detector is installed at the highest point of the ceiling.
- If there are beams on the ceiling that protrude 30 cm or more, the detector must be installed between every two beams.

FireProtect Plus is installed on the walls at a human respiratory level in residential facilities.

Do Not Install the Detector

- Outdoors.
- In places with fast air circulation.
- Closer than 1 meter from the vertical projection of the cooking surface.
- Near metal objects and mirrors that cause radio signal attenuation or screening.
- In a building with humidity above 80%.
- In very dusty and smoky spaces.

Flood Prevention

LeaksProtect

Early Flood Recognition Detector

- The detector doesn't need to be mounted. It is enough to install it in the place of a possible leak.
- The detector sends an alarm when it is certain of a leak.
- Protected by a tamper.
- Works for up to 5 years without battery replacement.

Detector on the plan

Do Not Install the Detector

- Outdoors.
- Near metal objects that cause radio signal attenuation or screening.
- On premises with temperatures outside the permissible range (0°C to +50°C).
- On conducting surfaces.
- In very dusty spaces.
- In places with a signal level of 1 or 0 divisions.

Integration of third-party detectors and devices

Integration of third-party detectors

Integrate any third-party wired detector with NC/NO contacts.

- Works with IR barriers, liquid level and gas leakage detectors, thermal relays, and third-party devices with NC/NO outputs.
- Supplies 3.3V power to third-party detectors.
- Can be installed in the detector's body.
- Suitable for outdoor and indoor installation.
- Operates at temperatures from −25°C to +50°C and humidity up to 75%.
- Features tamper terminals and an accelerometer.
- Works for up to 5 years without battery replacement.

Integration of third-party detectors

MultiTransmitter is an integration module with 18 zones for connecting third-party wired devices.

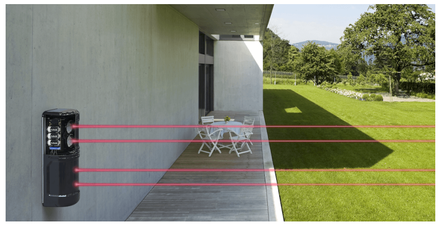
- Connect panic and medical buttons, motion, open, vibration, break, fire, gas, leak, and other detectors. The type of device is indicated in the zone settings.
- Powered by a 100—240 V supply, runs on a 12 V backup battery.
- Supplies 12 V power to the connected detectors.
- Connection types: NO, NC, EOL (NC), EOL (NO).
- Operates at temperatures from −10°C to +40°C and humidity up to 75%.
- Has two tampers.

Integration of third-party detectors

- **Gas detectors** for leakage detection and notification. Gas is difficult to detect on time, and the risk of a catastrophe is high.

- **Protect a safe**, a work of art, or any other valuable object: Use an external tamper.

- **Temperature control:** to receive alarms for temperature drops below and/or rises above the set point, connect a thermostat.



- **PIR barriers** to restrict access to the object from the outside but allow movement inside.

Video Surveillance

Video Surveillance Integration

The Benefits of Video Surveillance

- **Verification of alarms.** Clients always know the cause of the alarm.
- **Personnel control.** Users can check what the cleaner is doing when they are away.
- **Video baby monitor.** Customers can watch their children even when they are on the other side of the globe.

Video Surveillance Integration

What Ajax Gives

- Integration with IP cameras and Dahua, Hikvision, Safire, Uniview, EZVIZ DVRs Devices connect to the Ajax app in a minute.
- RTSP support. To integrate cameras from other manufacturers.
- The amount of cameras and recorders depends on the hub:
  - Hub — up to 10
  - Hub 2 — up to 25
  - Hub Plus — up to 50
  - Hub 2 Plus — up to 100

Advantages of an Ajax-Based Video Surveillance System

- Control over the security system and video cameras from one app.
- Instant check of the situation in case of an alarm.
- Quick access to selected cameras and DVRs.
- Saves photo evidence in your smartphone's memory.
- Access to streams and status checks of the object at any time.
- Ability to pause the stream.
- Flexible access system.
- Protection of all personal information Passwords from cameras, cloud video services, and the streams themselves are encrypted and are not stored on the Ajax side.
- Ability to organize independent recording streams through DVRs.

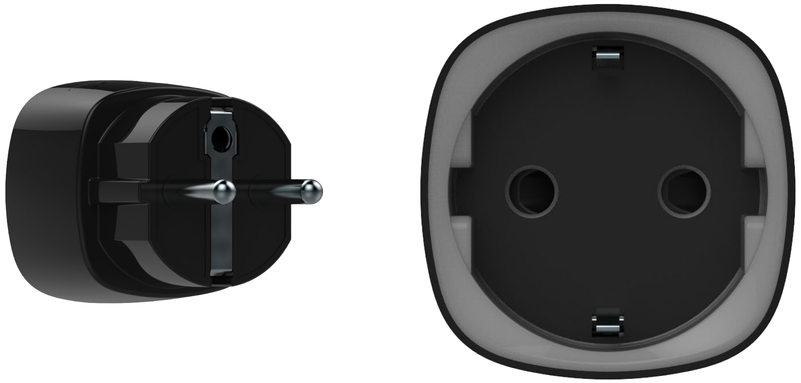
Automation

Relay

Wireless low-current dry contact relay.

WallSwitch

Wireless power relay. Featured an electric power meter.



Socket

Smart plug. Featured an electric power meter.

Socket

Smart plug with electric power meter

- Controls power through Ajax apps, Button presses, and scenarios.
- Doesn't require tools for installation.
- It is protected against voltage fluctuations, exceeding the maximum load, and overheating.
- Calculates electricity consumption and displays the data in the app.
- Doesn't block the adjacent sockets.
- Meets standards for electrical appliances.
- Features LED load indication.
- Has protective socket curtains that prevent your child from sticking a screwdriver, pencil, or nail inside and protect from dust and splashes.
- Resistive load of up to 2.5 kW.

Do Not Install the Smart Plug

- Outdoors.
- Near sources of magnetic fields.
- On any premises with the temperature and humidity outside the permissible range (from 0° to +40°C, humidity up to 75%).
- In places with a signal level of 1 or 0 divisions.

WallSwitch

230V power relay for controlling electric appliances power supply

- Controls power through apps, Button presses, and scenarios.
- Installed in a socket box, an extension cord, other 110/230V circuits.
- Protected against voltage fluctuations, high load, and overheating.
- Calculates electricity consumption and displays the data in the app.
- Meets standards for electrical appliances.
- Controls load of up to 3 kW.

How to Install the Device Correctly

- Fits inside a socket box with a diameter of 50 mm and a depth of 70 mm.
- Installed in extension cords and 110/230V circuits.
- **Do not connect loads greater than 3 kW. Follow the connection diagram, and do not shorten the antenna!**
- Follow the general electrical safety rules as well as the requirements of electrical safety regulations.
- Do not disassemble the device. Do not use a device with a damaged power cable.
- **Do Not Install the WallSwitch**
- Outdoors.
- In places with a signal level of 1 or 0 divisions.
- In metal installation boxes and electrical panels.
- On premises with temperature and humidity outside the permissible limits (from 0° to +64°C, humidity up to 75%).

Relay

Low-current relay with dry contacts

- Powered by 12/24V.
- It has a pair of dry contacts that are not galvanically connected to the power supply circuit.
- Controls power through apps, Button presses, and scenarios.
- Installed in all circuits within the maximum load limits.
- Protected against power surges and overheating.
- Meets standards for electrical appliances.
- **The load limit is 3 kW.**
- **With an inductive or capacitive load, the maximum current load is reduced to 3 A at 24 V⎓ and 8 A at 230 V~.**

How to Install the Relay Correctly

- Power is connected to the PS IN terminals. Output terminals are connected to the circuit gap.
- Follow the connection diagram, and do not use a load >3 kW.
- Do not connect the power terminals to a 110/230V mains supply or to a supply with a voltage >36 V.
- Follow the general electrical safety rules as well as the requirements of electrical safety regulations.

- Do not disassemble or use the device with damaged power cords.
- Do not cut the device's antenna.
- **Do Not Install the Relay**
- Outdoors.
- In places with a signal level of 1 or 0 divisions.
- In metal installation boxes and electrical panels.
- On any premises with the temperature and humidity outside the permissible range (from 0° to +64°C, humidity up to 75%).

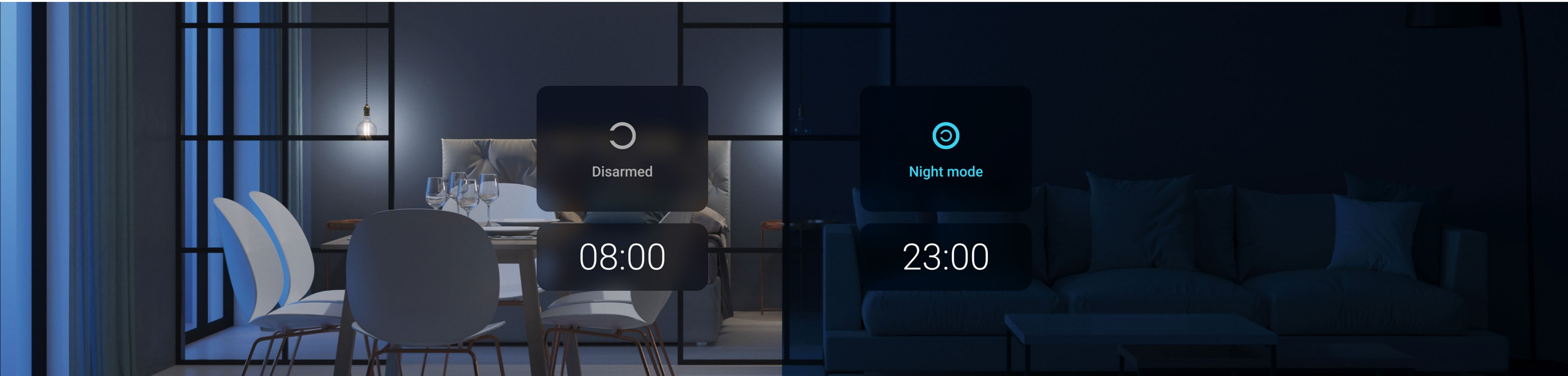
Scenarios

Ajax scenarios are the next level of property protection. With them, the security system not only notifies about a threat, but also actively resists it.

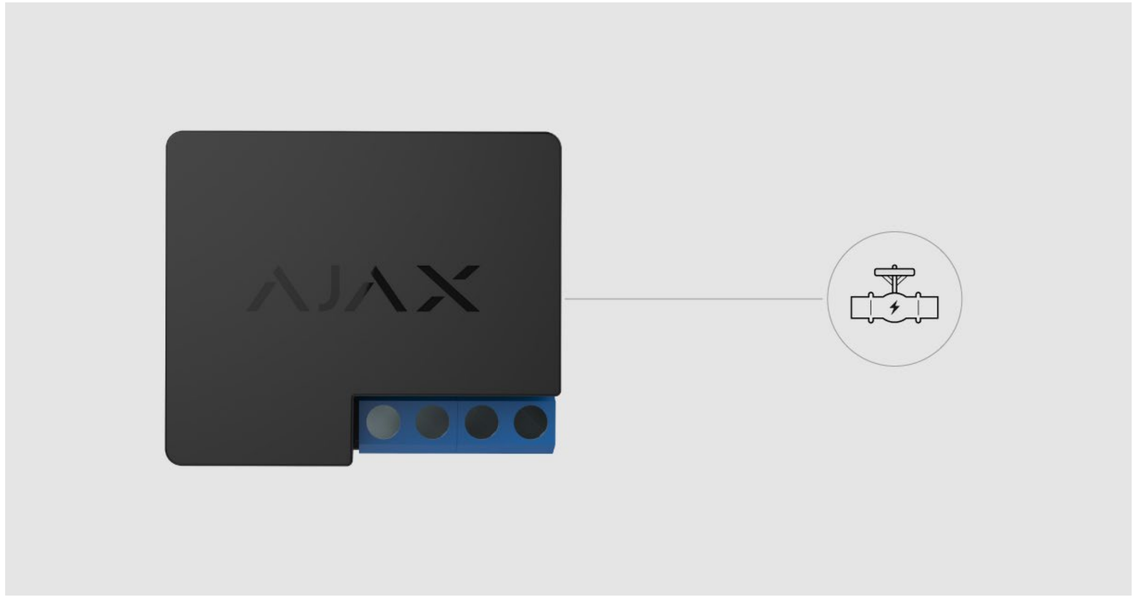
Security mode change reactions

Alarm reactions

Scheduled actions

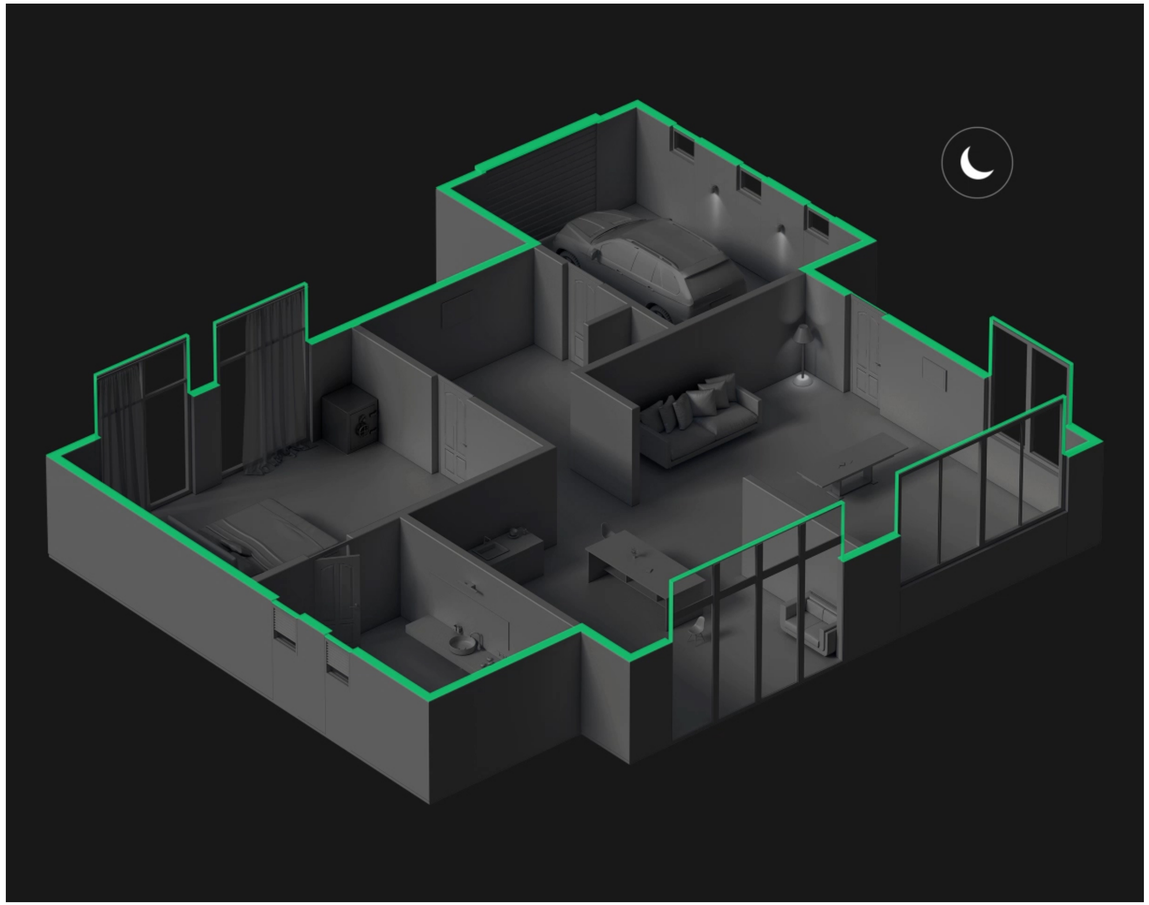


Alarm reactions



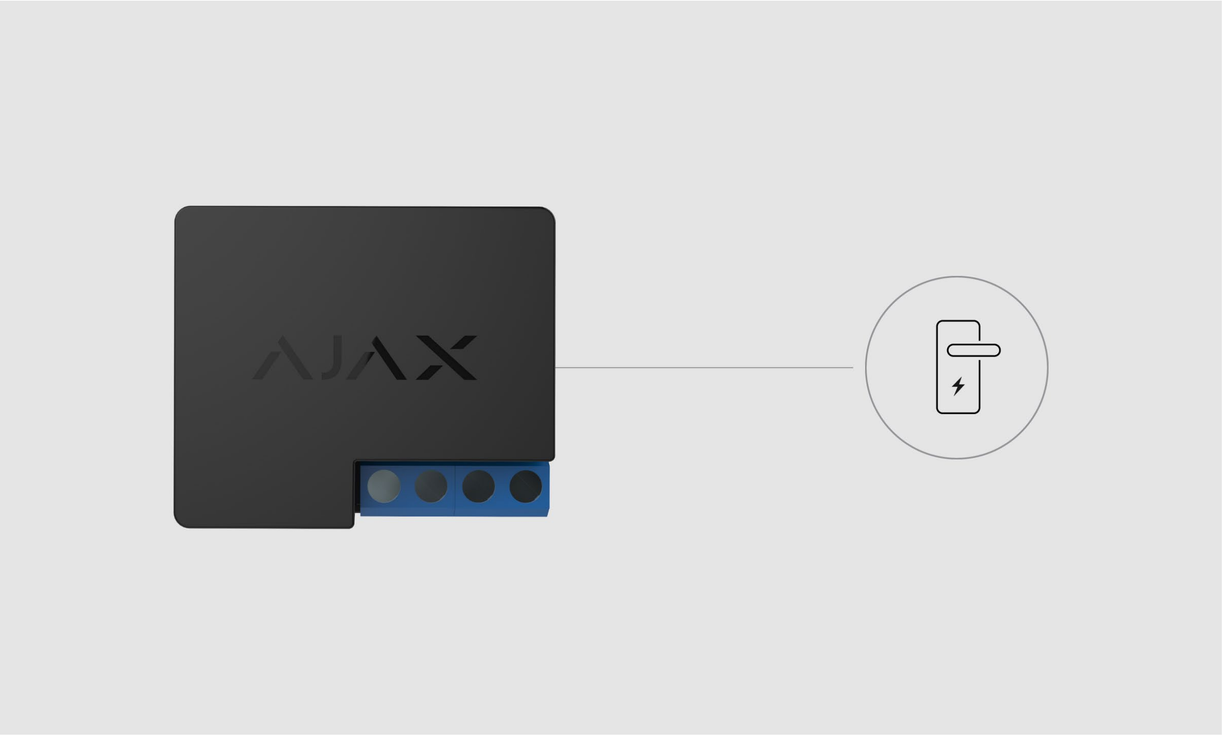
- **Anti-flooding system** to automatically shut off water if a pipe bursts in the house.
- **De-energizing the probable cause of fire in a fire alarm** to keep the occupants of the building safe and improve security.
- **Turning on the lights when motion detectors are triggered** to scare away an intruder trying to get into the house.

Planned actions



- **Scheduled security.** Thus, users do not forget to turn on home security or the Night mode.
- **Presence imitation.** Thus, the house does not look empty during the absence of customers and does not attract the attention of burglars.
- **Scheduled heating.** Thus, customers come to an already warm house in the winter.

Security mode change responses

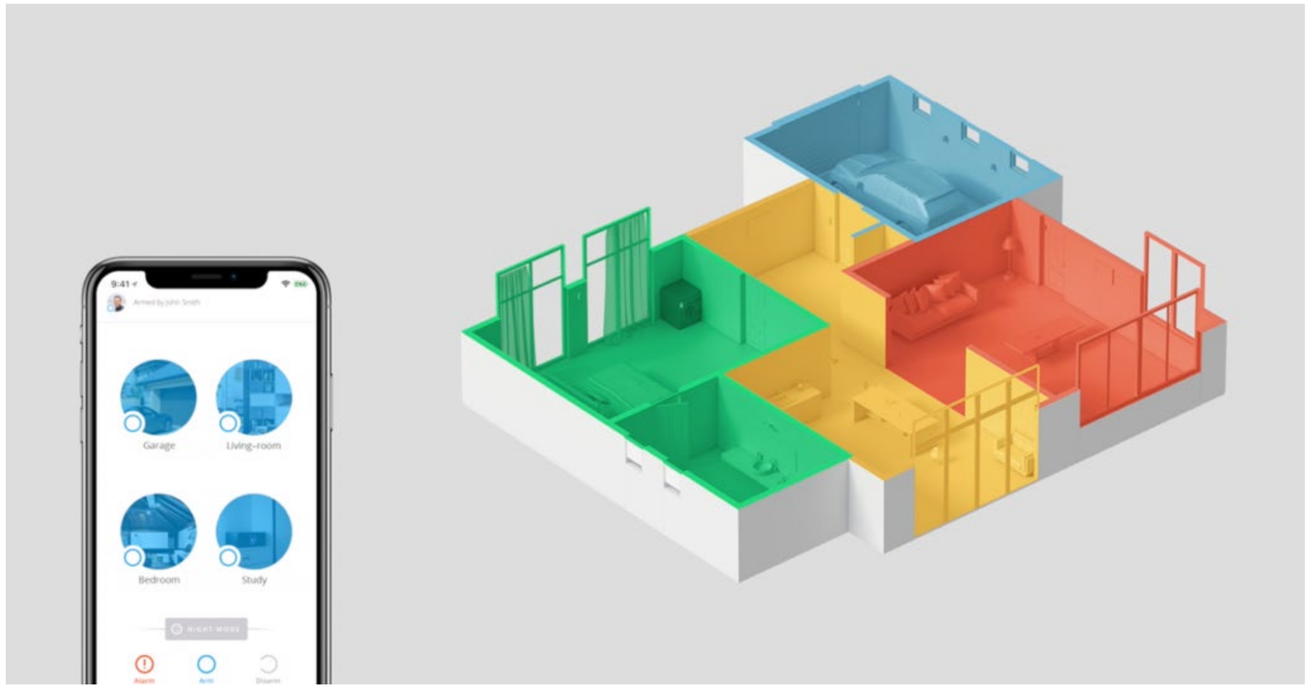


- **Turning off lights and appliances when arming.** Thus, homeowners don't have to turn everything off manually before they leave.

- **Opening roller shutters and electric locks when disabling the alarm.** Thus, users do not have to perform routine actions on their own.

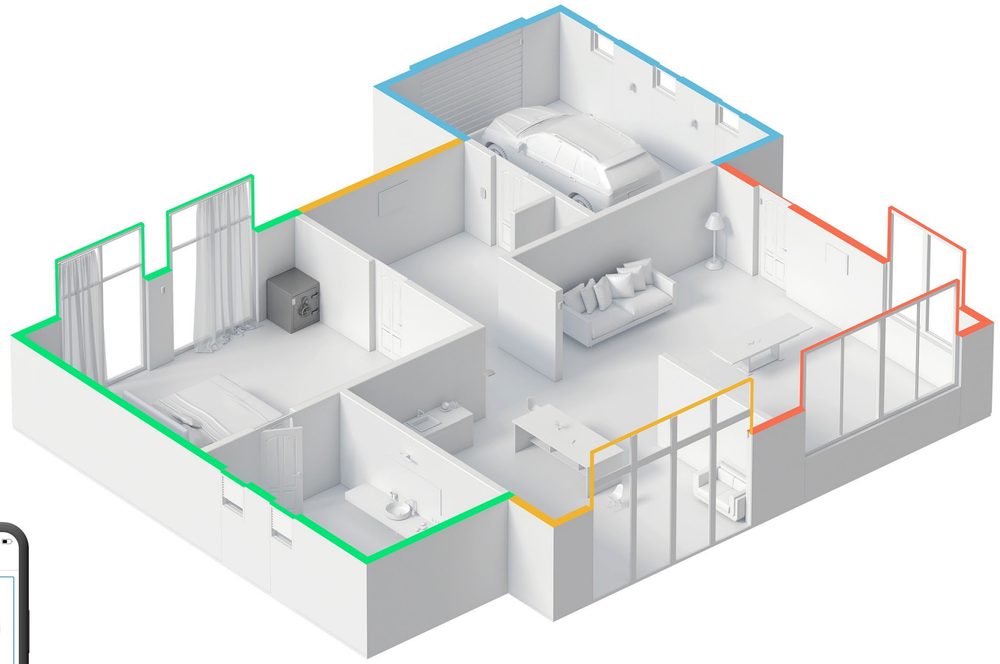
Additional Features

Group Mode



- You can protect the whole object as well as individual rooms. **Hub** and **Hub 2** support up to 9 groups; **Hub Plus** and **Hub 2 Plus** support up to 25.
- Allow access to manage only required groups: cleaning staff has access only to authorized rooms.
- The security can be controlled using common and personal keypad passwords.

The Night Mode



- The **Night mode** activates only a part of the detectors.
- It works with opening, breaking, and motion detectors. By default, the **Night mode** is off.
- Customers can turn it on before going to bed, so they don't have to worry about a door or a window being broken into unnoticed. The **Night mode** allows you to move freely indoors.
- Set a schedule for customers to turn the **Night mode** on and off.
- It is used in parallel with groups.

Installer Memo

- After installation, test the signal strength and detection range to make sure the devices are working correctly.
- Give a briefing, and explain how to use the system, the app, the key fob, and the keypad.
- Explain how the **Night mode** works.
- Add all users to the hub; set personal passwords for them.
- Define access levels and user rights for the security system, coordinating them with the client.

- Coordinate the names of the detectors, groups, and rooms. In rooms and groups, attach photos to make it easier for users to manage the system.
- Tell about the other features of the system and the devices. Possible upselling.
- Leave your contact information and that of customer service.
- Enable system integrity check and synchronous alarm of fire detectors.

Thank you for your attention!