

Hub User Manual

Posted on June 30, 2021



Hub is a central device of the Ajax security system, coordinating the connected devices, and interacting with the user and security company. Hub is developed only for indoor use.

Hub requires Internet access to communicate with the cloud server Ajax Cloud—for configuring and controlling from any point of the world, transferring event notifications, and updating the software. The personal data and system operation logs are stored under multilevel protection, and information exchange with Hub is carried out via an encrypted channel on a 24-hour basis.

Communicating with Ajax Cloud, the system can use the Ethernet connection and GSM network.



Please use both communication channels to ensure more reliable communication between the hub and Ajax Cloud.

Hub can be controlled via the [app](#) for iOS, Android, macOS, or Windows. The app allows responding promptly to any notifications of the security system.

Follow the link to download the app for your OS:

[Android](#)

[iOS](#)

The user can customize notifications in the hub settings. Choose what is more convenient for you: push notifications, SMS, or calls. If the Ajax system is connected to the central monitoring station, the alarm signal will be sent directly to it, bypassing Ajax Cloud.

[Buy intelligent security control panel Hub](#)

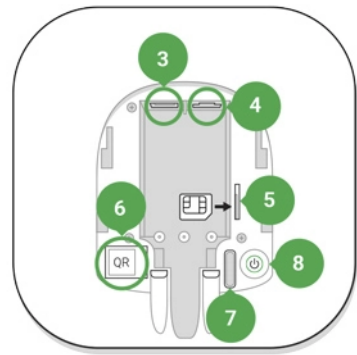
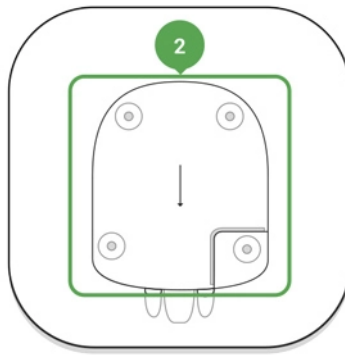
Up to 100 Ajax devices can be connected to the hub. The protected [Jeweller](#) radio protocol ensures reliable communication between the devices at a distance of up to 2 km in the line of sight.

[List of Ajax devices](#)

Use scenarios to automate the security system and decrease the number of routine actions. Adjust the security schedule, program actions of automation devices ([Relay](#), [WallSwitch](#) or [Socket](#)) in response to an alarm, [Button](#) press or by schedule. A scenario can be created remotely in the Ajax app.

[How to create and configure a scenario in the Ajax security system](#)

Sockets and Indication



1. LED logo indicating the hub status
2. SmartBracket attachment panel (perforated part is required for actuating the tamper in case of any attempt to dismantle the hub)
3. Socket for the power supply cable
4. Socket for the Ethernet cable
5. Slot for the micro SIM
6. QR code
7. Tamper button
8. On/Off button

LED Indication

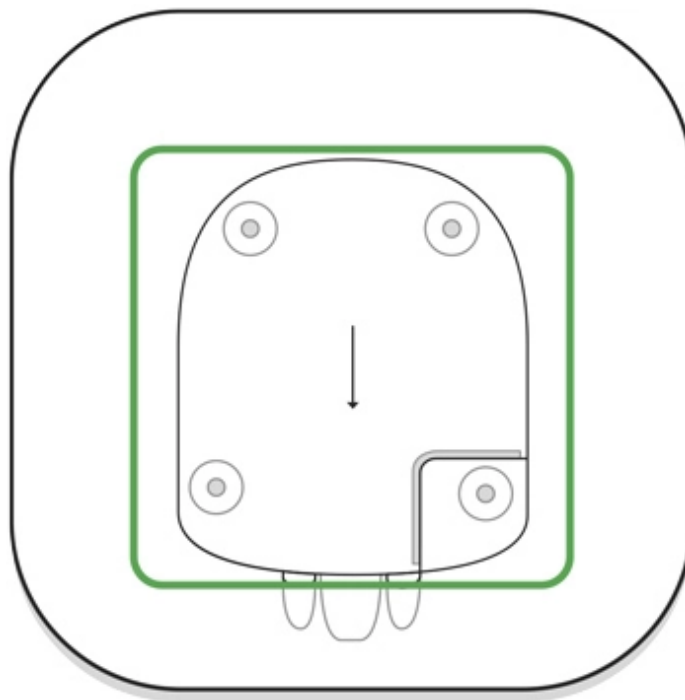


The LED logo can light up red, white or green depending on the status of the device.

Event	Light indicator
Ethernet and at least one SIM card are connected	Lights up white
Only one communication channel is connected	Lights up green
The hub is not connected to the internet or there is no connection with the Ajax Cloud service	Lights up red
No power	Lights up for 3 minutes, then blinks every 10 seconds. The color of the indicator depends on the number of the connected communication channels.

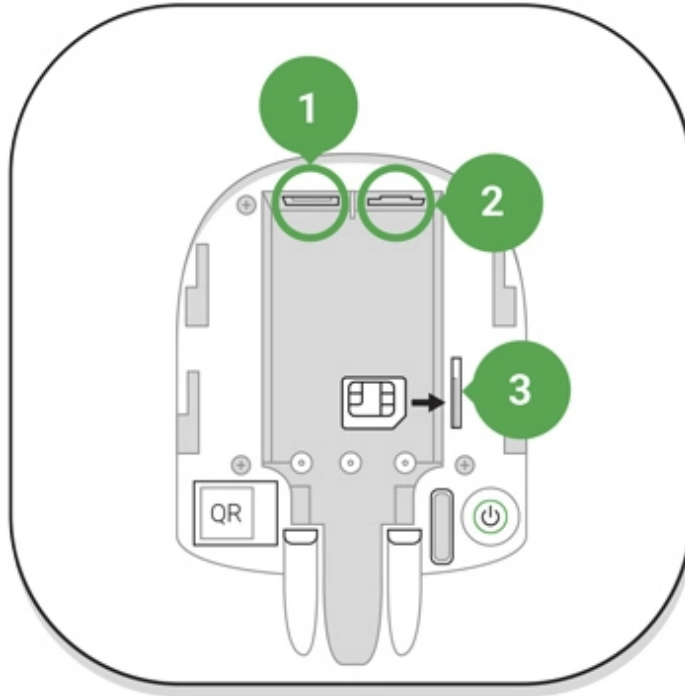
Connecting to the Network

1. Open the hub lid by shifting it down with force.



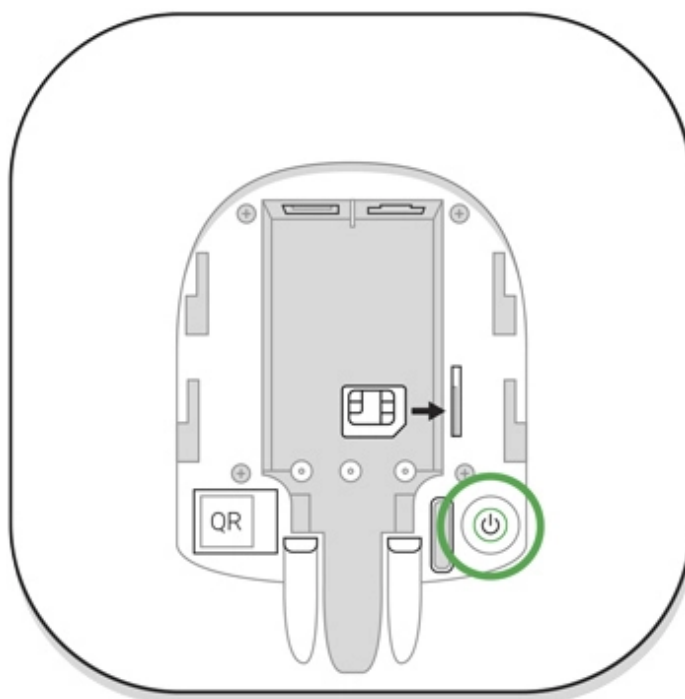
Be careful and do not damage the tamper protecting the hub from dismantling!

2. Connect the power supply and Ethernet cables to the sockets.



- 1 – Power Socket
- 2 – Ethernet socket
- 3 – SIM-card slot

3. Press and hold the power button for 2 seconds until the logo lights up. The hub needs approximately 2 minutes to identify the available communication channels.



The bright green or white logo color indicates that the hub is connected to Ajax Cloud.

If the Ethernet connection does not occur automatically, disable proxy, filtration by MAC addresses and activate the DHCP in the router settings: the hub will receive an IP address. During the next setup in the mobile app, you will be able to set a static IP address.

To connect the hub to the GSM network, you need a micro-SIM card with a disabled PIN code request (you can disable it using the mobile phone) and a sufficient amount on the account to pay for the GPRS, SMS services and calls.



In some regions, Hub is sold with a SIM card along

If the hub does not connect to Ajax Cloud via GSM, use Ethernet to set up the network parameters in the app. For the proper setting of the access point, username, and password, please contact the support service of the operator.

Ajax Account

The user with administrator rights can configure the Ajax security system via the app. The administrator account with the information about the added hubs is encrypted and placed on Ajax Cloud.

All the parameters of the Ajax security system and connected devices set by the user are stored locally on the hub. These parameters are inextricably linked with the hub: changing the hub administrator does not affect the settings of the connected devices.



One phone number may be used to create only one Ajax account.

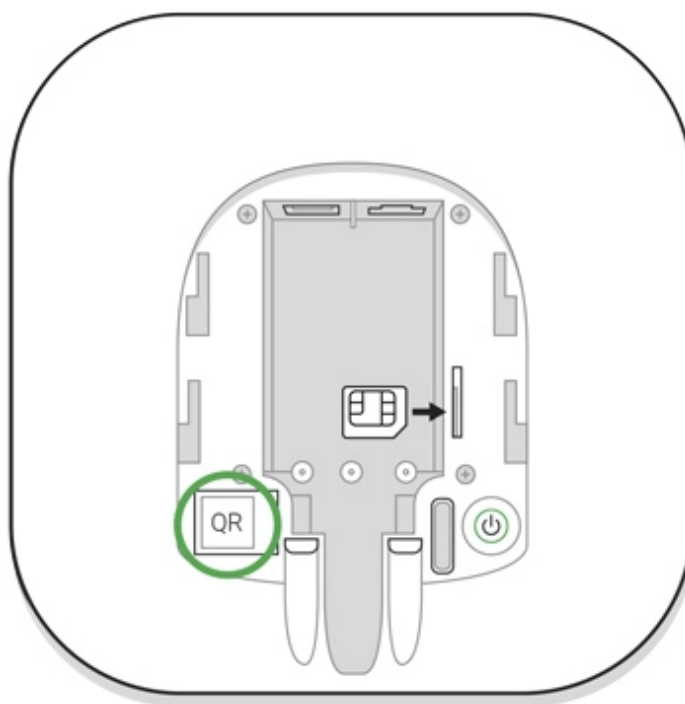
Create the Ajax account in the app following the step-by-step guide. As part of the process, you need to confirm your email and phone number.

Ajax account allows to combine the roles: you can be the administrator of one hub, as well as the user of another hub.

Adding the hub to the Ajax app

Granting access to all system functions (to display notifications in particular) is a mandatory condition for controlling the Ajax security system via the smartphone.

1. Login into your account.
2. Open the **Add Hub** menu and select the way of registering: manually or step-by-step guidance.
3. At the registration stage, type the name of the hub and scan the QR code located under the lid (or enter a registration key manually).



4. Wait until the hub is registered.

Installation



Prior to installing the hub, make sure that you have selected the optimal location: the SIM card demonstrates consistent reception, all the devices have been tested for radio communication, and the hub is hidden from direct view.



The device developed only for indoor use.

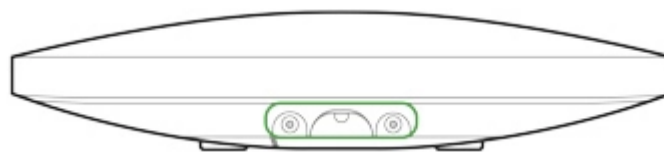
The hub should be reliably attached to the surface (vertical or horizontal). We do not recommend using double-sided adhesive tape: it cannot guarantee secure attachment and simplifies the removal of the device.

Do not place the hub:

- outside the premises (outdoors);
- nearby or inside any metal objects that cause attenuation and shielding of the radio signal;
- in places with a weak GSM signal;
- close to radio interference sources: less than 1 meter from the router and power cables;
- in premises with temperature and humidity over the permissible limits.

Hub installation:

1. Fix the hub lid on the surface using bundled screws. When using any other fixing accessories, make sure that they do not damage or deform the hub lid.
2. Put the hub on the lid and fix it with bundled screws.



Do not flip the hub when attaching vertically (for instance, on a wall). When properly fixed, the Ajax logo can be read horizontally.



Fixing the hub on lid with screws prevents any accidental shifting of the hub and minimizes the risk of device theft.

If the hub is firmly fixed, the attempt to tear it off triggers the tamper, and the system sends a notification.

Rooms in the Ajax app

The virtual rooms are used to group the connected devices. The user can create up to 50 rooms, with each device located only in one room.



Without creating the room, you are not able to add devices in the Ajax app!

Creating and Setting Up a Room

The room is created in the app using the **Add Room** menu.

Please assign a name for the room, and optionally, attach (or make) a photo: it helps to find the needed room in the list quickly.

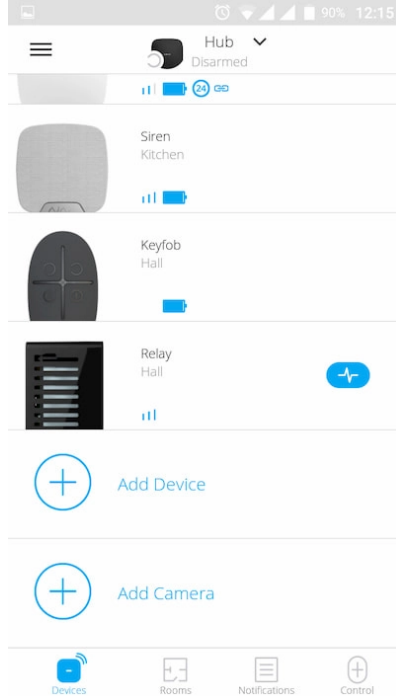
By pressing on the gear button  go to the room settings menu.

To delete the room, move all the devices to other rooms using the device setup menu. Deleting the room erases all its settings.

Connecting Devices



The hub doesn't support [uartBridge](#) and [ocBridge Plus](#) integration modules.



During the first hub registration in the app, you will be prompted to add devices to guard the room. However, you can refuse and return to this step later.



The user can add the device only when the security system is disarmed!

1. Open the room in the app and select the **Add Device** option.
2. Name the device, scan the **QR code** (or insert the ID manually), select the room and go to the next step.
3. When the app starts searching and launches countdown, switch on the device: its LED will blink once. For detection and pairing to occur, the device should be located within the coverage area of the wireless network of the hub (at a single protected object).




Connection request is transmitted for a short time at the moment of switching on the device.








If the connection fails on the first try, switch off the device for 5 seconds and retry.

Up to 10 cameras or DVRs that support RTSP protocol can be connected to Hub.

Hub statuses


Icons


Icons display some of Hub statuses. You can see them in the Ajax app, in the **Devices** menu .

Icons	Meaning
	2G connected
	SIM card is not installed
	The SIM-card is defective or has a PIN-code on it
	Hub battery charge level. Displayed in 5% increments
	Hub malfunction is detected. The list is available in hub states list
	The hub is directly connected to the central monitoring station of the security organization
	The hub have lost connection with the central monitoring station of the security organization via direct connection

States

States can be found in the [Ajax app](#):

1. Go to the **Devices** tab .
2. Select Hub from the list.



Parameter	Meaning
Malfunction	Click  to open the list of Hub malfunctions. The field appears only if a malfunction is detected

Cellular signal strength	Shows the signal strength of the mobile network for the active SIM card. We recommend installing the hub in places with the signal strength of 2-3 bars. If the signal strength is weak, the hub will not be able to dial-up or send an SMS about an event or alarm
Battery Charge	<p>Battery level of the device. Displayed as a percentage</p> <p><u>How battery charge is displayed in Ajax apps</u></p>
Lid	<p>Status of the tamper that responds to hub dismantling:</p> <ul style="list-style-type: none"> • Closed – the hub lid is closed • Opened – the hub removed from SmartBracket holder <p><u>What is a tamper?</u></p>
External power	<p>External power supply connection status:</p> <ul style="list-style-type: none"> • Connected – the hub is connected to external power supply • Disconnected – no external power supply
Connection	<p>Connection status between the hub and Ajax Cloud:</p> <ul style="list-style-type: none"> • Online – the hub is connected to Ajax Cloud • Offline – the hub is not connected to Ajax Cloud
Cellular data	<p>The hub connection status to the mobile Internet:</p> <ul style="list-style-type: none"> • Connected – the hub is connected to Ajax Cloud via mobile Internet • Disconnected – the hub is not connected to Ajax Cloud via mobile Internet <p>If the hub has enough funds on the account or has bonus SMS/calls, it will be able to make</p>

	calls and send SMS messages even if the Not connected status is displayed in this field
Ethernet	<p>Internet connection status of the hub via Ethernet:</p> <ul style="list-style-type: none"> • Connected – the hub is connected to Ajax Cloud via Ethernet • Disconnected – the hub is not connected to Ajax Cloud via Ethernet
Average Noise (dBm)	<p>Noise power level at Jeweller frequencies at the hub installation site.</p> <p>The acceptable value is –80 dBm or lower</p>
Monitoring Station	<p>The status of direct connection of the hub to the central monitoring station of the security organization:</p> <ul style="list-style-type: none"> • Connected – the hub is directly connected to the central monitoring station of the security organization • Disconnected – the hub is not directly connected to the central monitoring station of the security organization <p>If this field is displayed, the security company uses a direct connection to receive events and security system alarms</p> <p><u>What is a direct connection?</u></p>
Hub model	Hub model name
Hardware version	Hardware version. Unable to update
Firmware	Firmware version. Can be updated remotely
ID	ID/serial number. Also located on the device box, on the device circuit board, and on the QR code under the SmartBracket panel

Settings

Settings can be changed in the [Ajax app](#):

1. Go to the **Devices** tab .
2. Select Hub from the list.
3. Go to **Settings** by clicking on the icon .



Note that after changing the settings, you should click the **Back** button to save them.

Avatar is a customized title image for Ajax security system. It is displayed in the hub selection menu and helps to identify the required object.

To change or set an avatar, click on the camera icon and set up the desired picture.

Hub name. Is displayed in the SMS and push notification text. The name can contain up to 12 Cyrillic characters or up to 24 Latin characters.

To change it, click on the pencil icon and enter the desired hub name.

Users – user settings for a security system: what rights are granted to users and how the security system notifies them of events and alarms.

To change the user settings, click on  opposite the user name.

[How the Ajax security system notifies users of alerts](#)

[How to add new users to the hub](#)

Ethernet – settings for wired Internet connection.

- Ethernet – allows you to enable and disable Ethernet on the hub
- DHCP / Static – selection of the type of the hub IP address to receive: dynamic or static
- IP Address – hub IP Address
- Subnet mask – subnet mask in which the hub operates
- Router – gateway used by the hub
- DNS – DNS of the hub

Cellular – enabling/disabling cellular communication, configuring connections, and checking account.

- Cellular Data – disables and enables SIM cards on the hub
- Roaming – if it is activated, the SIM cards installed in the hub can work in roaming
- Ignore network registration error – when this setting is activated, the hub ignores errors when trying to connect via a SIM card. Activate this option if the SIM card cannot connect to the network
- Disable Ping Before Connecting – when this setting is activated, the hub ignores operator communication errors. Activate this option if the SIM card cannot connect to the network
- SIM card 1 – displays the number of the SIM card installed. Click on the field to go to the SIM card settings

SIM card settings

Connection settings

- **APN, User name, and Password** – settings for connecting to the Internet via a SIM card. To find out the settings of your cellular operator, contact your provider's support service.

How to set or change APN settings in the hub

Mobile data usage

- **Incoming** – the amount of data received by the hub. Displayed in KB or MB.
- **Outgoing** – the amount of data sent by the hub. Displayed in KB or MB.



Keep in mind that data is counting on the hub and may differ from your operator's statistics.

Reset statistics – resets statistics on incoming and outgoing traffic.

Check balance

- **USSD code** – enter the code that is used to check the balance in this field. For example, *111#. After that, click **Check balance** to send a request. The result will be displayed under the button.

Geofence – configuring reminders for arming/disarming the security system when crossing a specified area. The user location is determined using the smartphone GPS module.

What geofences are and how they function

Groups – group mode configuration. This allows you to:

- Manage the security modes for separate premises or groups of detectors.
For example, the office is armed while the cleaner works in the kitchen.
- Delimit access to control of security modes.
For example, the marketing department employees do not have access to the law office.

[How to enable and configure group mode in the Ajax security system](#)

Security Schedule – arming/disarming the security system by the schedule.

[How to create and configure a scenario in the Ajax security system](#)

Detection Zone Test – running the detection zone test for the connected detectors. The test determines the sufficient distance for the detectors to register alarms.

[What is Detection Zone Test](#)

Jeweller – configuring the hub-detector ping interval. The settings determine how frequently the hub communicates with devices and how quickly the loss of connection is detected.

[Learn more](#)

- **Detector Ping Interval** – the frequency of connected devices polling by the hub is setting in the range of 12 to 300 s (36 s by default)
- **Number of undelivered packets to determine connection failure** – a counter of undelivered packets (8 packets by default).

The time before raising the alarm by the communication loss between hub and device is calculated with the following formula:

$$\text{Ping interval} * (\text{number of undelivered packets} + 1 \text{ correction packet}).$$

The shorter ping interval (in seconds) means faster delivery of the events between the hub and the connected devices; however, a short ping interval reduces the battery life. At the same time, alarms are transmitted immediately regardless of the ping interval.

We do not recommend reducing the default settings of the ping period and interval.

Note that the interval limits the maximum number of connected devices:

Interval	Connection limit
12 seconds	39 devices
24 seconds	79 devices
36 and more seconds	100 devices



Regardless of settings, the hub supports 10 connected sirens maximum!

Service is a group of hub service settings. These are divided into 2 groups: general settings and advanced settings.

General settings

Time Zone

Selecting the time zone in which the hub operates. It is used for scenarios by schedule. Therefore, before creating scenarios, set the correct time zone.

[Learn more about scenarios](#)

LED Brightness

Adjustment of the hub logo LED backlight brightness . Set in the range of 1 to 10. The default value is 10.

Firmware Auto-Update

Configuring automatic OS Malevich firmware updates.

- **If enabled**, the firmware is automatically updated when a new version is available, when the system is not armed, and external power is connected.
- **If disabled**, the system does not update automatically. If a new firmware version is available, the app will offer to update the OS Malevich.

[How OS Malevich updates](#)

Hub System Logging



Logs are files containing information about system operation. They can help sort out the problem in case of errors or failures.

The setting allows you to select the transmission channel for the hub logs or disable their recording:

- Ethernet
- No – logging is disabled



We do not recommend disabling logs as this information may be helpful in the event of errors in the operation of the system!

How to send an error report

Advanced settings

The list of advanced hub settings depends on the type of application: standard or PRO.

Ajax Security System	Ajax PRO
Server connection Sirens settings Fire detectors settings System integrity check	PD 6662 Setting Wizard Server Connection Sirens settings Fire detectors settings System Integrity Check Alarm Confirmation Restoration After Alarm Arming/Disarming Process Devices Auto Deactivation

PD 6662 Setting Wizard

Opens a step-by-step guide on how to set up your system to comply with the British security standard PD 6662:2017.

[Learn more about PD 6662:2017](#)

[How to configure the system to comply with PD 6662:2017](#)

Server Connection

The menu contains settings for communication between the hub and the Ajax Cloud:

- **Server Ping Interval (sec).** Frequency of sending pings from the hub to Ajax Cloud server. It is set in the range of 10 to 300 s. The recommended default value is 60 s.

- **Connection Failure Alarm Delay (sec).** It is a delay to reduce the risk of a false alarm associated with the Ajax Cloud server connection loss. It is activated after 3 unsuccessful hub-server polls. The delay is set in the range of 30 to 600 s. The recommended default value is 300 s.

The time to generate a message regarding the loss of communication between the hub and the Ajax Cloud server is calculated using the following formula:

$$(Ping\ interval * 4) + Time\ filter$$

With the default settings, Ajax Cloud reports the hub loss in 9 minutes:

$$(60\ s * 4) + 300\ s = 9\ min$$

- **Disable alerts when the connection with the server is lost.** Ajax apps can notify about the hub-server communication loss in two ways: with a standard push notification signal or with a siren sound (enabled by default). When the option is active, the notification comes with a standard push notification signal.

Sirens settings

The menu contains two groups of siren settings: siren activation parameters and siren after-alarm indication.

Siren activation parameters

If the hub or detector lid is open. If enabled, the hub activates the connected sirens if the body of the hub, detector, or any other Ajax device is open.

If in-app panic button is pressed. When the function is active, the hub activates the connected sirens if the panic button was pressed in the Ajax app.



You can disable the sirens reaction when pressing the panic button on the SpaceControl key fob in the key fob settings (Devices → SpaceControl → Settings



Settings of siren after-alarm indication



This setting is only available in [PRO Ajax apps](#)

The siren can inform about triggering in armed system by means of LED indication. Thanks to this feature, system users and passing security companies patrols can see that the system was triggered.

[Feature implementation in HomeSiren](#)

[Feature implementation in StreetSiren](#)

[Feature implementation in StreetSiren DoubleDeck](#)

Fire detectors settings

Settings menu of FireProtect and FireProtect Plus fire detectors. Allows configuring interconnected FireProtect alarms of fire detectors.

The feature is recommended by European fire standards, which require, in the event of a fire, a warning signal power of at least 85 dB at 3 meters from the sound source. Such sound power wakes up even a soundly sleeping person during a fire. And you can quickly disable triggered fire detectors using the Ajax app, Button, or KeyPad/KeyPad Plus.

[Learn more](#)

System Integrity Check

The **System integrity check** is a parameter that is responsible for checking the status of all security detectors and devices before arming. Checking is disabled by default.

[Learn more](#)

Alarm Confirmation



This setting is only available in [PRO Ajax apps](#)

Alarm confirmation is a special event that the hub sends to the CMS and system users if several certain devices have triggered within a specified period of time. By responding to confirmed alarms only, the security company and the police reduce the number of visits on false alarms.

[Learn more](#)

Restoration After Alarm



This setting is only available in [PRO Ajax apps](#)

The feature does not allow arming the system if an alarm has been registered previously. For arming, the system should be restored by an authorized user or PRO user. The types of alarms that require system restore are defined when configuring the function.

The function eliminates situations when the user arms the system with detectors that generate false alarms.

[Learn more](#)

Arming/Disarming Process



This setting is only available in [PRO Ajax apps](#)

The menu allows to enable arming in two stages, as well as set Alarm Transmission Delay for security system disarming process.

[What is Two-Stage Arming and why is it needed](#)

What is Alarm Transmission Delay and why is it needed

Devices Auto Deactivation



This setting is only available in [PRO Ajax apps](#)

The Ajax security system can ignore alarms or other events of devices without removing them from the system. Under certain settings, notifications about events of a specific device will not be sent to the CMS and security system users.

There are two types of **Devices Auto Deactivation**: by the timer and by the number of alarms.

What is Devices Auto Deactivation

It is also possible to manually disable a specific device. Learn more about deactivating devices manually [here](#).

Clear notifications history

Clicking the button deletes all notifications in the hub events feed.

Monitoring Station – the settings for direct connection to the security company's central monitoring station. Parameters are set by security company engineers. Keep in mind that events and alarms can be sent to the central monitoring station of the security company even without these settings.

"Monitoring Station" tab: what is it?

- **Protocol** – the choice of the protocol used by the hub to send alarms to the central monitoring station of the security company via a direct connection. Available protocols: Ajax Translator (Contact-ID) and SIA.

- **Connect on demand.** Enable this option if you need to connect to the CMS (Central Monitoring Station) only when transmitting an event. If the option is disabled, the connection is maintained continuously. The option is available only for the SIA protocol.
- **Object number** – the number of an object in the monitoring station (hub).

Primary IP address

- **IP address** and **Port** are settings of the primary IP address and port of the security company server to which events and alarms are sent.

Secondary IP address

- **IP address** and **Port** are settings of the secondary IP address and port of the security company server to which events and alarms are sent.

Alarm sending channels

In this menu, channels for sending alarms and events to the central monitoring station of the security company are selected. Hub can send alarms and events to the central monitoring station via **Ethernet** and **EDGE**. We recommend that you use all communication channels at once – this will increase the transmission reliability and secure against failures on the telecom operators' side.

- **Ethernet** – enables event and alarm transmission via Ethernet.
- **GSM** – enables event and alarm transmission via the mobile Internet.
- **Periodic Test Report** – if enabled, the hub sends test reports with a given period to the CMS (Central Monitoring Station) for additional monitoring of object connection.
- **Monitoring Station Ping Interval** – sets the period for sending test messages: from 1 minute to 24 hours.

Encryption

Event transmission encryption settings in the SIA protocol. AES 128-bit encryption is used.

- **Encryption** – if enabled, events and alarms transmitted to the central monitoring station in SIA format are encrypted.
- **Encryption key** – encryption key of transmitted events and alarms. Must match the value on the Central Monitoring Station.

Panic button coordinates

- **Send coordinates** – if enabled, the pressing of a panic button in the app sends the coordinates of the device on which the app is installed and panic button is pressed, to the central monitoring station.

Alarm Restore on ARC

The setting allows you to select when the alarm restore event will be sent to the CMS: immediately/upon detector restore (by default) or upon disarming.

[Learn more](#)

Installers – PRO users settings (installers and representatives of security companies) of the security system. Determine who has access to your security system, the rights that are granted to PRO users, and how the security system notifies them about the events.

[How to add PRO to the hub](#)

Security companies – a list of security companies in your area. The region is determined by the GPS data or the regional settings of your smartphone.

User Guide – opens the Hub user guide.

Data Import – a menu for automatic transferring devices and settings from another hub. **Keep in mind that you are in the settings of the hub on which you want to import data.**

[Learn more about data import](#)

Unpair hub – removes your account from the hub. Regardless of this, all the settings and connected detectors remain saved.

Settings Reset

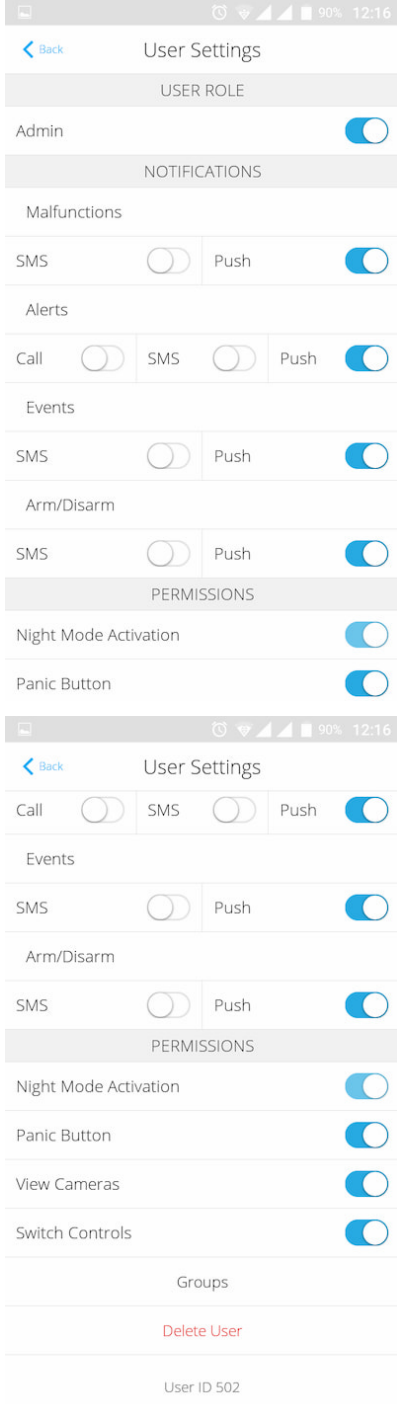
To return the hub to the factory default settings, switch it on, then hold the power button for 30 seconds (logo will start blinking red).

At the same time, all the connected detectors, room settings and user settings will be deleted. User profiles will remain connected to the system.

Users

After adding the hub to the account, you become the administrator of this device. One hub can have up to 50 users/administrators. The administrator can invite users to the security system and determine their rights.

Events and Alarms Notifications



The hub notifies users of events in three ways: push notifications, SMS and calls.

Notifications are set in the menu **Users**:

Event types	For what it is used	Types of notifications
Arming / Disarming	Notices are received after arming/disarming	<ul style="list-style-type: none"> • SMS • Push-notification
Alarm	Notices of intrusion, fire, flood	

		<ul style="list-style-type: none"> • SMS • Push-notification • Call
Events	Notices of events related to the Ajax WallSwitch, Relay control	<ul style="list-style-type: none"> • SMS • Push-notification
Malfunctions	Notices of the lost communication, jamming, low battery charge or opening of the detector body	<ul style="list-style-type: none"> • SMS • Push-notification

- **Push notification** is sent by Ajax Cloud to the Ajax Security system app, if an Internet connection is available.
- **SMS** is sent to the phone number indicated by the user when registering the Ajax account.
- The **phone call** means that the hub calls the number specified in the Ajax account.

The hub calls only in case of alarm to get your attention and reduce the feasibility of you missing a critical alert. We recommend to enable this type of notification. The hub consecutively calls all users who have enabled this type of notification in the order specified in the Users Settings. If the second alarm occurs, the hub will make a call again but not more than once in 2 minutes.



The call is automatically dropped as soon as you answer it. We recommend you to save the phone number associated with the hub SIM card in your contacts list.

Notification settings may be only changed for registered users.

Connecting a Security Company



The list of organizations connecting the Ajax system to the central monitoring station is provided in the **Security Companies** menu of the hub settings:

Contact representatives of the company providing services in your city and negotiate on the connection.

Connection to the central monitoring station (CMS) is possible via the Contact ID or SIA protocols.

Maintenance

Check the operational capability of the Ajax security system on a regular basis.

Clean the hub body from dust, spider webs and other contaminants as they appear. Use soft dry napkin suitable for equipment maintenance.

Do not use any substances containing alcohol, acetone, gasoline and other active solvents for cleaning the hub.

How to replace hub battery

Complete Set

1. Ajax Hub
2. SmartBracket mounting panel
3. Power supply cable
4. Ethernet cable
5. Installation kit
6. GSM start package (available not in all countries)
7. Quick Start Guide

Safety Requirements

While installing and using the hub, follow the general electrical safety regulations for using electrical appliances, as well as the requirements of regulatory legal acts on electrical safety.

It is strictly prohibited to disassemble the device under voltage! Do not use the device with a damaged power cable.

Tech Specs

Devices	up to 100
Groups	up to 9
Users	up to 50
Video surveillance	Up to 10 cameras or DVRs
Rooms	up to 50
Scenarios	up to 5 Learn more
Connected ReX	1
Power supply	110 – 240 V AC, 50/60 Hz
Accumulator unit	Li-Ion 2 A·h (up to 15 hours of autonomous operation in case of inactive Ethernet connection)

Energy consumption from the grid	10 W
Tamper protection	Yes
Frequency band	868.0 – 868.6 MHz or 868.7 – 869.2 MHz depending on the region of sale
Effective radiated power	8.20 dBm / 6.60 mW (limit 25 mW)
Modulation of the radio signal	GFSK
Radio signal range	Up to 2,000 m (any obstacles absent) Learn more
Communication channels	GSM 850/900/1800/1900 MHz GPRS, Ethernet
Installation	Indoors
Operating temperature range	From -10°C to +40°C
Operating humidity	Up to 75%
Overall dimensions	163 × 163 × 36 mm
Weight	350 g
Service life	10 years
Certification	Security Grade 2, Environmental Class II SP2 (GSM-SMS), SP5 (LAN) DP3 in conformity with the requirements of EN 50131-1, EN 50131-3, EN 50136-2, EN 50131-10, EN 50136-1, EN 50131-6, EN 50131-5-3

Compliance with standards

Warranty

Warranty for the “AJAX SYSTEMS MANUFACTURING” LIMITED LIABILITY COMPANY products is valid for 2 years after the purchase and does not apply to the pre-installed accumulator.

If the device does not work correctly, you should first contact the support service—in half of the cases, technical issues can be solved remotely!

[The full text of the warranty](#)

User Agreement

Technical support: support@ajax.systems