Hub 2 (2G) / (4G) User manual

Updated May 19, 2023



Hub 2 is a security system control panel that supports photo verification of alarms. It controls the operation of all connected devices and interacts with the user and the security company. The device is designed for indoor installation only.

The hub reports doors opening, breaking of windows, the threat of fire or flood, and automates routine actions using scenarios. If outsiders enter the secure room, Hub 2 will send photos from **MotionCam / MotionCam Outdoor** motion detectors and notify a security company patrol.

Hub 2 needs internet access to connect to the Ajax Cloud service. The control panel has three communication channels: Ethernet and two SIM cards. The hub is available in two versions: with 2G and 2G/3G/4G (LTE) modem.



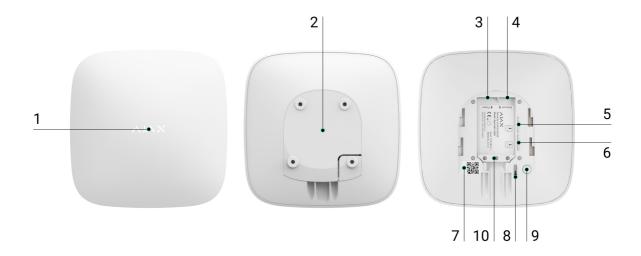
Connect all communication channels to ensure a more reliable connection with Ajax Cloud and secure against interruptions in the work of telecom operators.

You can manage the security system and respond to alarms and event notifications through iOS, Android, macOS, and Windows apps. The system allows you to choose what events and how to notify the user: by push notifications, SMS, or calls.

- How to set up push notifications on iOS
- How to set up push notifications on Android

Buy Hub 2 central unit

Functional elements



- 1. Ajax logo with an LED indicator.
- 2. SmartBracket mounting plate. Slide it down with force to open.



Perforated part is required for actuating the tamper in case of any attempt to dismantle the hub. Do not break it off.

- 3. Power cable socket.
- 4. Ethernet cable socket.
- 5. Slot for micro SIM 2.
- 6. Slot for micro SIM 1.

- **7.** QR code and ID/service number of the hub.
- 8. Tamper.
- 9. Power button.
- **10.** Cable retainer clamp.

Operating principle



Hub 2 supports up to 100 Ajax devices connected, which protect against intrusion, fire, or flooding and control electrical appliances according to scenarios or via an app.

The hub controls operation of the security system and all connected devices. For this purpose, it communicates with the system devices via two encrypted radio protocols:

1. **Jeweller** — is a wireless protocol used to transmit events and alarms of Ajax wireless detectors. The communication range is 2000 m without obstacles (walls, doors, or inter-floor constructions).

Learn more about Jeweller

2. **Wings** is a wireless protocol used to transmit photos from MotionCam and MotionCam Outdoor detectors. The communication range is 1700 m without obstacles (walls, doors, or inter-floor constructions).

Learn more about Wings

Any time the detector triggers, the system raises the alarm in less than a second. In this case, the hub activates the sirens, starts the scenarios, and notifies the security company's monitoring station and all users.

Anti-sabotage protection



Hub 2 has three communication channels: Ethernet and two SIM cards. This allows connecting the system to Ethernet and two mobile networks. The hub is available in two versions: with 2G and 2G/3G/4G (LTE) modem.

Wired internet and mobile network connection are maintained in parallel to provide more stable communication. This also allows switching to another communication channel without delay if any of them fails.

If there is interference at Jeweller frequencies or when jamming is attempted, Ajax switches to a free radio frequency and sends notifications to the central monitoring station of the security company and system users.

What is security system jamming

No one can disconnect the hub unnoticed, even when the facility is disarmed. If an intruder attempts to dismount the device, this will trigger the

tamper immediately. Every user and the security company will receive triggering notifications.

What is a tamper

The hub checks the Ajax Cloud connection at regular intervals. The polling period is specified in the hub settings. The server may notify the users and the security company in 60 seconds after the connection loss at minimum settings.

Learn more

The hub involves a backup battery providing 16 hours of battery life. This allows the system to continue operation even if the power supply is cut off at the facility. To increase battery life or connect the hub to 6V or 12V grids, use **12V PSU** and **6V PSU**.

OS Malevich



Hub 2 is run by the real-time operating system OS Malevich. The system is immune to viruses and cyberattacks.

Over-the-air updates of OS Malevich open new opportunities for the Ajax security system. The update process is automatic and takes minutes when the

security system is disarmed.

How OS Malevich updates

Video surveillance connection



You can connect Dahua, Hikvision, Safire, EZVIZ and Uniview cameras and DVRs to the Ajax security system. It is possible to integrate third-party video surveillance equipment thanks to the support of the RTSP protocol. You can connect up to 25 video surveillance devices to the system.

Learn more

Automation scenarios

Use scenarios to automate the security system and reduce the number of routine actions. Set up the security schedule, program actions of automation devices (Relay, WallSwitch, or Socket) in response to an alarm, pressing the Button or by schedule. You can create a scenario remotely in the Ajax app.

How to create a scenario in the Ajax security system

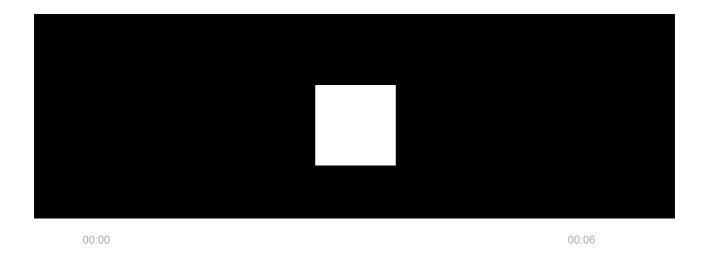
Connecting to a security company

The Ajax security system can be connected to a central monitoring station (CMS) of the security company. The list of companies that connect the system to the central monitoring station is in the **Security companies** menu (Devices \longrightarrow Hub \longrightarrow Settings 3 \longrightarrow Security companies).

All events are transmitted in SurGard (Contact ID), ADEMCO 685, SIA (DC-09), and **other proprietary protocols**. A complete list of supported protocols is available at the link.

Select the company and click **Send a request** or contact the company's representatives offering services at your location to arrange for the connection.

LED indication



The hub LED has a list of indications showing the system state or events occurring. The Ajax logo on the front side of the hub can light up red, white, purple, yellow, blue, or green, depending on the state. When nothing is happening in the system (no alarm, malfunction, lid opening, etc.), the LED displays two hub states:

- Armed/partially armed or **Night Mode** enabled the LED lights up white.
- Disarmed the LED lights up green.

Indication	Event	Note
Lights up white.	Two communication channels are connected: Ethernet and SIM card.	If the external power supply is off, the indicator will flash every 10 seconds.

		After a loss of power, the hub will not light up immediately, but will start flashing in 180 seconds.
Lights up green.	One communication channel is connected: Ethernet or SIM card.	If the external power supply is off, the indicator will flash every 10 seconds. After a loss of power, the hub will not light up immediately, but will start flashing in 180 seconds.
Lights up red.	The hub is not connected to the internet or there is no connection with the Ajax Cloud service.	If the external power supply is off, the indicator will flash every 10 seconds. After a loss of power, the hub will not light up immediately, but will start flashing in 180 seconds.
Lights up 180 seconds after the loss of power, then flashes every 10 seconds.	The external power supply is disconnected.	The LED indication colour depends on the number of communication channels connected.
Blinks red.	The hub is reset to factory settings.	

If your hub has different indication, please contact <u>our technical support</u>. They will help you.

Access to indications

Hub users can see the Alerts and Malfunctions indication after they:

- Arm/disarm the system using the Ajax keypad.
- Enter the correct user ID or personal code on the keypad and perform an action that has already been performed (for example, the system is disarmed and the disarm button is pressed on the keypad).

- Press the SpaceControl button to arm/disarm the system or activate Night Mode.
- Arm/disarm the system using Ajax apps.



All users can see the **Changing hub's state** indication.

British Disco

The function is enabled in the hub settings in the PRO app (Hub \rightarrow Settings \rightarrow Services \rightarrow LED indication).



Indication is available for hubs with firmware version OS Malevich 2.14 or higher and in apps of the following versions or higher:

- Ajax PRO: Tool for Engineers 2.22.2 for iOS
- Ajax PRO: Tool for Engineers 2.25.2 for Android
- Ajax PRO Desktop 3.5.2 for macOS
- Ajax PRO Desktop 3.5.2 for Windows

Indication	Event	Note
	Changing hub's state	
White LED flashes once per second.	Two-Stage Arming or Delay When Leaving.	One of the devices is performing Two-Stage Arming or Delay When Leaving .
Green LED flashes once per second.	Entry indication.	One of the devices is performing Delay When Entering .
White LED lights up for 2 seconds.	Arming is completed.	The hub (or one of the groups) is changing its state from Disarmed to Armed.

Green LED lights up for 2 seconds.	Disarming is completed.	The hub (or one of the groups) is changing its state from Armed to Disarmed.
	Alerts and Malfunctions	
Red and purple LED flashes in sequence for 5 seconds.	Confirmed hold-up alarm.	There is an unrestored state after a confirmed hold-up alarm. The indication is displayed only if Restoration after confirmed hold-up alarm is enabled in the settings.
Red LED lights up for 5 seconds.	Hold-up alarm.	There is an unrestored state after a hold-up alarm. The indication is not displayed if there is a confirmed hold-up alarm state. The indication is displayed only if Restoration after hold-up alarm is enabled in the settings.
Red LED flashes.	The number of flashes equals the Device No. of a hold-up device (DoubleButton), the first to generate the hold-up alarm.	There is an unrestored state after the confirmed or unconfirmed hold-up alarm:

		Single hold-up alarm
		or
		Confirmed hold-up alarm
		There is an unrestored state after the confirmed intrusion alarm.
Yellow and purple LED flashes sequentially for 5 seconds.	Confirmed intrusion alarm.	The indication is displayed only if Restoration after confirmed intrusion alarm is enabled in the settings.
Valland ED links on far E		There is an unrestored state after the intrusion alarm. The indication is not displayed if there is a confirmed intrusion alarm condition.
Yellow LED lights up for 5 seconds.	Intrusion alarm.	The indication is displayed only if Restoration after intrusion alarm is enabled in the settings.

Yellow LED flashes.	The number of flashes equals the Device No. that first generated the intrusion alarm.	There is an unrestored state after the confirmed or unconfirmed intrusion alarm: • Single intrusion alarm or • Confirmed intrusion alarm
Red and blue LED flashes in sequence for 5 seconds.	Lid opening.	There is an unrestored tamper state or an open lid on any of the devices, or the hub. The indication is displayed only if Restoration after Lid opening is turned on in the settings.
Yellow and blue LED flashes in sequence for 5 seconds.	Other malfunctions.	There is an unrestored fault state or a malfunction of any device or the hub. The indication is displayed only if Restoration after faults is enabled in the settings. Currently, Restoration after faults is not available in Ajax apps.

Dark blue LED lights up for 5 seconds.	Temporary deactivation.	One of the devices is temporarily deactivated or the lid state notifications are disabled.
Blue LED lights up for 5 seconds.	Automatic deactivation.	One of the devices is automatically deactivated by an opening timer or the number of detections.
Green and blue LED flashes in sequence.	Alarm timer expiration. Learn more about Alarm confirmation feature	Displayed after the alarm timer expires (to confirm the alarm).

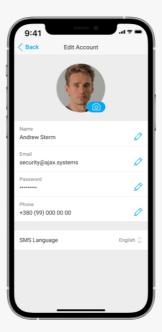
Alert indication

If the system is disarmed and any of the indications from the table is present, the yellow LED flashes once per second.



If there are several states in the system, the indications are displayed one by one, in the same sequence as shown in the table.

Ajax account



The security system is configured and managed via <u>Ajax applications</u> designed for iOS, Android, macOS, and Windows.

Use the Ajax Security System app to manage one or several hubs. If you intend to operate more than ten hubs, please install Ajax PRO: Tool for Engineers (for iPhone and Android) or Ajax PRO Desktop (for Windows and macOS). You can learn more about Ajax apps and their features here.

To configure the system, install the Ajax app and create an account. Please remember that there is no need to create a new account for each hub. One account can manage multiple hubs. Where necessary, you can configure individual access rights for each facility.

How to register an account

How to register a PRO account

Bear in mind that user and system settings and connected devices settings are stored in the hub memory. Changing the hub administrator does not reset the settings of the connected devices.

Connecting the hub to Ajax Cloud

Hub 2 needs internet access to connect to the Ajax Cloud service. This is necessary for the operation of Ajax apps, remote setup and control of the system, and receipt of push notifications by the users.

The central unit is connected via Ethernet and two SIM cards. The hub is available in two versions: with 2G and 2G/3G/4G (LTE) modem. We recommend that you connect all communication channels simultaneously for more stability and availability of the system.

To connect the hub to Ajax Cloud:

1. Remove the SmartBracket mounting panel by sliding it down with force. Do not damage the perforated portion, as it is needed to trigger the tamper protecting the hub from dismantling.



2. Connect power and Ethernet cables to the appropriate sockets and install SIM cards.



- 1 Power socket
- 2 Ethernet socket
- 3, 4 Slots for installing micro SIM cards
- **3.** Press and hold the power button for 3 seconds until the Ajax logo lights up.



It takes up to 2 minutes for the hub to connect to the internet and upgrade to the latest version of OS Malevich, provided there is stable internet connection. A green or white LED indicates that the hub is running and connected to the Ajax Cloud. Also bear in mind that to be upgraded, the hub must be connected to the external power supply.

If Ethernet connection fails

If the Ethernet connection is not established, disable proxy and MAC address filtration and activate DHCP in the router settings. The hub will automatically receive an IP address. After that, you will be able to set up a static IP address of the hub in the Ajax app.

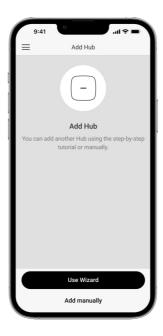
If SIM card connection fails

To connect to the cellular network, you need a micro SIM card with a disabled PIN code request (you can disable it using a mobile phone) and a sufficient amount on your account to pay for the services at your operator's rates.

If the hub does not connect to the cellular network, use Ethernet to configure the network parameters: roaming, APN access point, username, and password. Contact your telecom operator for support to find out these options.

How to set or change APN settings in the hub

Adding a hub to the Ajax app



- 1. Connect the hub to the internet and power supply. Turn on the security central panel and wait until the logo lights up green or white.
- **2.** Open the Ajax app. Give access to the requested system functions to fully use the capabilities of the Ajax app and not to miss alerts about alarms or events.
 - How to set up push notifications on iOS
 - · How to set up push notifications on Android
- 3. Click Add Hub.
- **4.** Choose a suitable method: manually or using a step-by-step guidance. If you are setting the system up for the first time, use step-by-step guidance.
- 5. Specify the name of the hub and scan the QR code or enter the ID manually.
- **6.** Wait until the hub is added. The linked hub will be displayed in the **Devices** tab.

After adding a hub to your account, you automatically become the administrator of the device. Changing or removing the administrator does not reset the settings of the hub or delete connected devices.

Administrators can invite other users to the security system and determine their rights. Hub 2 supports up to 100 users.



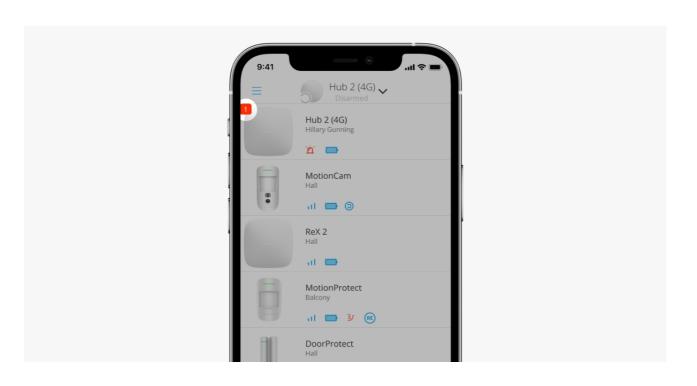
If there are already users on the hub, the hub admin, PRO with full rights, or the installation company maintaining the selected hub can add your account. You will receive a notification that the hub is already added to another account. Contact with Technical Support to determine who has admin rights on the hub.

How to add new users to the hub

Ajax's security system user rights



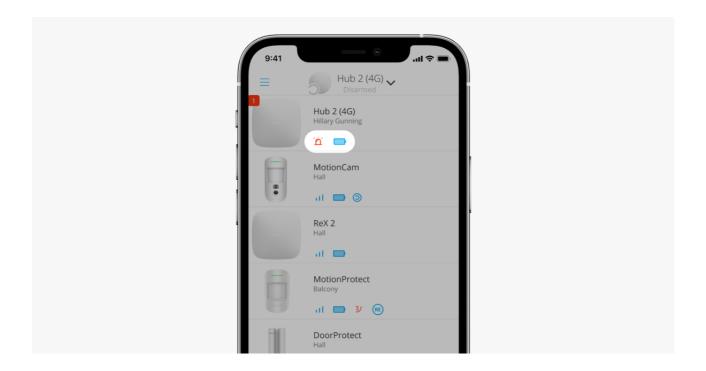
Faults counter



If a hub fault is detected (e.g., no external power supply is available), a faults counter is displayed on the device icon in the Ajax app.

All faults can be viewed in the hub states. Fields with faults will be highlighted in red.

Hub icons

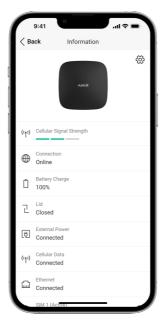


Icons display some of the Hub 2 statuses. You can see them in the **Devices** tab in the Ajax app.

Icon	Value
(2G)	SIM card operates in 2G network.
(3G)	SIM card operates in 3G network. Available for Hub 2 (4G) only.
(4G)	SIM card operates in 4G network. Available for Hub 2 (4G) only.
	No SIM cards.
	The SIM card is faulty, or PIN code has been set up for it.

	Hub battery charge level. Displayed in increments of 5%.
Î	Learn more
!	Hub failure detected. The list is available in the hub states list.
Ä	The hub is directly connected to the central monitoring station of the security company.
Ä	The hub is not directly connected to the central monitoring station of the security company.

Hub states



The states include information about the device and its operating parameters. Hub 2 states can be viewed in the **Ajax app**:

- 1. Select the hub if you have several of them or if you are using a PRO app.
- 2. Go to the **Devices** tab.
- 3. Select Hub 2 from the list.

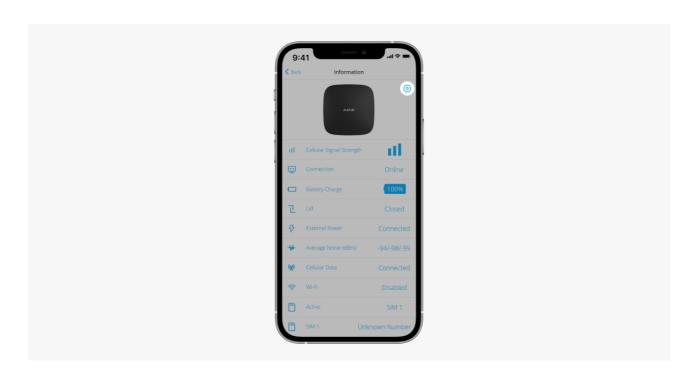
	Parameter	Value	
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	Clicking on (i) opens the hub malfunctions list.
Malfunction	The field appears only if a malfunction is detected.
	Shows the signal strength of the mobile network for the active SIM card.
Cellular signal strength	We recommend installing the hub in places with the signal strength of 2-3 bars. If the signal strength is 0 or 1 bar, the hub may fail to dial up or send an SMS about an event or alarm.
Pottory charge	Battery charge level of the device. Displayed as a percentage.
Battery charge	Learn more
	Status of the tamper that responds to hub dismantling:
	Closed — the hub lid is closed.
Lid	Opened — the hub is removed from SmartBracket holder.
	Learn more
	External power supply connection status:
External power	 Connected — the hub is connected to external power supply.
	Disconnected — no external power supply is available.
	Connection status between the hub and Ajax Cloud:
Connection	Online — the hub is connected to Ajax Cloud.
	Offline — the hub is not connected to Ajax Cloud.

	The hub connection status to the mobile Internet:
	Connected — the hub is connected to Ajax Cloud via mobile Internet.
Cellular data	Disconnected — the hub is not connected to Ajax Cloud via mobile Internet.
	If the hub has enough funds on the account or has bonus SMS/calls, it will be able to make calls and send SMS messages even if the Not connected status is displayed in this field.
	Displays active SIM card:
	SIM card 1 — if the first SIM card is active.
Active SIM card	SIM card 2 — if the second SIM card is active.
	You cannot switch between the SIM cards manually.
	The number of the SIM card installed in the first slot. To copy the number, click on it.
SIM card 1	Bear in mind that the number is displayed if it has been hardwired into the SIM card by the operator.
	The number of the SIM card installed in the second slot. To copy the number, click on it.
SIM card 2	Bear in mind that the number is displayed if it has been hardwired into the SIM card by the operator.
	Internet connection status of the hub via Ethernet:
Ethernet	Connected — the hub is connected to Ajax Cloud via Ethernet.
	Disconnected — the hub is not connected to Ajax Cloud via Ethernet.
	1

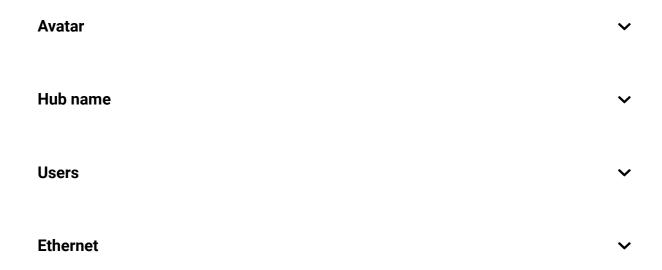
Average Noise (dBm)	Noise power level at the hub installation site. The first two values show the level at Jeweller frequencies, and the third — at Wings frequencies. The acceptable value is 80 dBm or lower. Installing the hub in places with higher noise levels may lead to loss of signal from connected devices or notifications on jamming attempts.
Monitoring Station	The status of direct connection of the hub to the central monitoring station of the security company: • Connected — the hub is directly connected to the central monitoring station of the security company. • Disconnected — the hub is not directly connected to the central monitoring station of the security company. If this field is displayed, the security company uses a direct connection to receive events and security system alarms. Even if this field is not displayed, the security company still can monitor and receive event notifications via the Ajax Cloud server. Learn more
Hub model	Hub model name.
Hardware version	Hardware version. Not updated.
Firmware	Firmware version. Can be updated remotely. Learn more
ID	Hub identifier (ID or serial number). Also located on the device box, on the device circuit board, and on the QR code under the SmartBracket lid.

Hub settings



Hub 2 settings can be changed in the Ajax app:

- 1. Select the hub if you have several of them or if you are using a PRO app.
- 2. Go to **Devices** tab and select **Hub 2** from the list.
- **3.** Go to **Settings** by clicking on the gear icon [©] in the upper right corner.
- **4.** Set the required parameters.
- **5.** Click **Back** to save the new settings.



Cellular	~
Geofence	~
Keypad access codes	~
Groups	~
Security schedule	~
Detection Zone Test	~
Jeweller	~
Service	~
Monitoring Station	~
PRO	~
Security companies	~
User Guide	~
Data Import	~
Unpair hub	~

Settings reset

Resetting the hub to the factory settings:

- 1. Turn on the hub if it is off.
- 2. Remove all users and installers from the hub.
- **3.** Hold the power button for 30 s the Ajax logo on the hub will start blinking red.
- **4.** Remove the hub from your account.

Malfunctions

Hub 2 may notify about malfunctions, if any. **Malfunctions** field is available in **Device States**. Clicking on (i) opens the list of all malfunctions. Note that the field is displayed if a malfunction is detected.

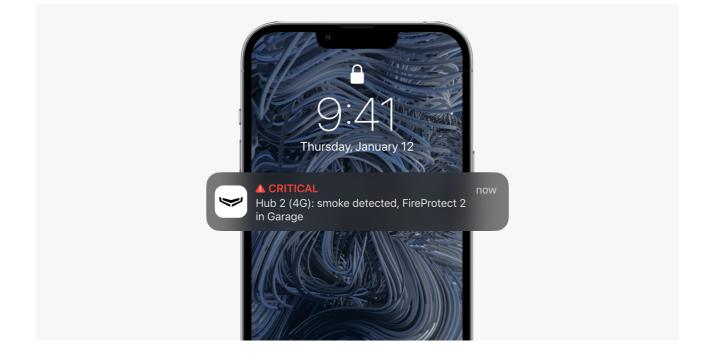
Connection of detectors and devices



The hub is incompatible with <u>uartBridge</u> and <u>ocBridge Plus</u> integration modules. You also cannot connect other hubs to it.

When adding a hub using a step-by-step guidance, you will be prompted to add devices that will protect the premises. However, you can refuse and return to this step later.

Prior to linking a detector or device to a hub, create at least one room. Rooms are used to group detectors and devices, as well as to increase the information content of notifications. Names of devices and rooms will be displayed in the text of the event or alarm of the security system.



To create a room in the Ajax app:

- **1.** Select the hub if you have several of them or if you are using a PRO Ajax app.
- 2. Go to the Rooms tab.
- 3. Click Add Room.
- **4.** Assign a name to it. If possible, attach or take a picture of the room this will make it easier to find in the list.
- 5. Click Save.

To change the room picture or name or to remove it, go to the room settings by pressing the gear icon in the **Rooms** \blacksquare menu.

How to connect a detector or device to the hub

- **1.** Select the hub if you have several of them or if you are using a PRO Ajax app.
- 2. Go to the Rooms tab.
- **3.** Open the room and select **Add Device**.
- **4.** Name the device, scan its QR code (or enter it manually), select a group (if group mode is enabled).

- **5.** Click **Add** the countdown for adding a device will begin.
- **6.** Follow the instructions in the app to connect the device.

In order to link a device to the hub, the device must be located within the hub's radio communication range (at the same secured premises). If connection fails, follow the instructions in the user guide for a respective device.

Events and alarms notifications

The Ajax security system informs the user about alarms and events using three types of notifications: push notifications, SMS, and phone calls. Notification settings can only be changed for registered users that are connected to the hub.



Hub 2 does not support calls and SMS transmission using VoLTE (Voice over LTE) technology. Before buying a SIM card, please make sure that it only supports the GSM standard.

Causes of notifications	What are they used for	Types of notifications
Alarms	System alarm: Intrusion Fire Leakage Loss of connection between the hub and the Ajax Cloud server	 Phone calls (not available for messages about the loss of connection between the hub and the Ajax Cloud server) Push notifications (siren sound) SMS
Malfunctions	 Loss of connection between the device and the hub Jamming 	Push notifications

	 Low battery charge in device or hub Masking Tampering with the device or hub casing Hub lost connection with server (can notify as alert) 	(standard signal sound) • SMS
Security Mode Change	 Arming/Disarming entire premises or group Turning on Night Mode 	Push notifications (standard signal sound)SMS
System Events	Hub updatesMaintenance	Push notifications (standard signal sound)SMS
Non-security Alerts	 The changing of the air quality parameters: Temperature Humidity CO₂ The non-security alerts settings are available with firmware version OS Malevich 2.15 or higher and in apps of the following versions or higher: Ajax Security System 2.23.1 for iOS Ajax Security System 2.26.1 for Android Ajax PRO: Tool for Engineers 1.17.1 for iOS 	 Push notifications (standard signal sound) SMS

Ajax PRO: Tool for Engineers 1.17.1 for Android Ajax PRO Desktop 3.6.1 for macOS Ajax PRO Desktop 3.6.1 for Windows Turning on/off WallSwitch, Relay, Socket, WaterStop, LightSwitch Pulse The settings of the automation devices notifications are available with firmware version OS Malevich 2.15 or higher and in apps of the following versions or higher: Push Ajax Security System 2.23.1 for iOS notifications Automation (standard signal Ajax Security System 2.26.1 for **Devices** sound) Android **SMS** Ajax PRO: Tool for Engineers 1.17.1 for iOS Ajax PRO: Tool for Engineers 1.17.1 for Android Ajax PRO Desktop 3.6.1 for macOS Ajax PRO Desktop 3.6.1 for Windows



The hub does not notify users of opening detectors triggering in the Disarmed mode when the Chime feature is enabled and configured. Only the sirens connected to the system notify about the opening.

How Ajax notifies users of alerts

Selection of location for installation



When choosing a location, consider three main factors:

- Jeweller signal strength,
- Wings signal strength,
- cellular signal strength.

Locate Hub 2 in a place with stable Jeweller and Wings signal strength of 2–3 bars with all connected devices (you can view the signal strength with every device in the list of states for a respective device in the Ajax app).

When choosing a place for installation, consider the distance between the devices and the hub and any obstacles between the devices hindering the radio signal passage: walls, intermediate floors, or large-size objects located in the room.

To roughly calculate the signal strength at the place of installation, use our <u>radio</u> communication range calculator.

The cellular signal strength of 2–3 bars is necessary for the correct stable operation of SIM cards installed in the hub. If the signal strength is 0 or 1 bar, we cannot guarantee all events and alarms by calls, SMS, or mobile internet.



Be sure to check the Jeweller and Wings signal strength between the hub and all devices at the place of installation. If the signal strength is low (a single bar), we cannot guarantee a stable operation of the security system since a device with a low signal strength may lose connection with the hub.

If the signal strength is insufficient, try moving the device (hub or detector) as repositioning by 20 cm can significantly improve the signal reception. If repositioning the device has no effect, try using a **range extender**.

Hub 2 should be hidden from direct view to reducing the likelihood of sabotage or jamming. Also, keep in mind that the device is intended for indoor installation only.

Do not place Hub 2:

- Outdoors. Doing so may cause the device to malfunction or not work correctly.
- Near metal objects or mirrors, for example, in a metal cabinet. They can shield and attenuate the radio signal.
- Inside any premises with the temperature and humidity beyond the range of permissible limits. Doing so may cause the device to malfunction or not work properly.
- Close to radio interference sources: less than 1 meter from the router and power cables. This could result in the loss of connection with the hub or devices connected to the range extender.
- In places with low or unstable signal strength. This could result in the loss of connection with connected devices.
- Less than 1 meter away from Ajax wireless devices. This could result in the loss of connection with the detectors.

Installation



Before installing the hub, make sure that you have selected the optimal location and that it complies with the requirements of this manual.

When installing and operating the device, follow the general electrical safety rules for using electrical appliances and the requirements of electrical safety regulations.

To install the hub:

1. Fix the SmartBracket mounting panel with bundled screws. When using other fasteners, make sure they do not damage or deform the panel. When attaching, use at least two fixing points. To make the tamper react to attempts to detach the device, be sure to fix the perforated corner of SmartBracket.



Do not use double-sided adhesive tape for mounting. It can cause a hub to fall. The device may fail if hit.

- **2.** Connect the power cable, Ethernet cable, and SIM cards to the hub. Turn on the device.
- 3. Secure the cables with the supplied cable retainer clamp and screws. Use cables with a diameter no larger than the supplied ones. The cable retainer clamp must fit tightly to the cables so that the hub lid closes easily. This will reduce the likelihood of sabotage, as it takes a lot more to tear away a secured cable.
- **4.** Slide Hub 2 onto the mounting panel. After installation, check the tamper status in the Ajax app and then the quality of the panel fixation. You will

receive a notification if an attempt is made to tear the hub off the surface or remove it from the mounting panel.

5. Fix the hub on the SmartBracket panel with bundled screws.



Do not turn the hub upside down or sideways when attaching vertically (for example, on a wall). When properly fixed, the Ajax logo can be read horizontally.

Maintenance

Check the operational capability of the Ajax security system regularly. The optimal frequency of checks is once every three months. Clean the body from dust, cobwebs, and other contaminants as they emerge. Use a soft and dry cloth that is suitable for equipment care.

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

If the hub battery becomes faulty, and you wish to replace it, use the following guidance:

How to replace hub battery

Technical Specifications

All technical specifications

Compliance with standards

Complete set

- 1. Hub 2 (2G) or Hub 2 (4G).
- 2. Power cable.
- 3. Ethernet cable.

- 4. Installation kit.
- **5.** SIM card (supplied depending on the region).
- 6. Quick Start Guide.

Warranty

Warranty for the Limited Liability Company "Ajax Systems Manufacturing" products is valid for 2 years after the purchase.

If the device does not function properly, we recommend that you first contact the support service as technical issues can be resolved remotely in half of the cases.

Warranty obligations

User Agreement

Contact Technical Support:

- e-mail
- Telegram