

AJAX 6099 UAH Intelligent Security Control Panel Hub User Manual

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Hub User manual Updated October 6, 2023

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6099 UAH Intelligent Security Control Panel Hub



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 conguring and controlling from any point of the world, transferring event notications, 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 <u>app</u> for iOS, Android, macOS, or Windows. The app allows responding promptly to any notications of the security system.

Follow the link to download the app for your OS:

Android iOS

The user can customize notications in the hub settings. Choose what is more convenient for you: push notications, 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

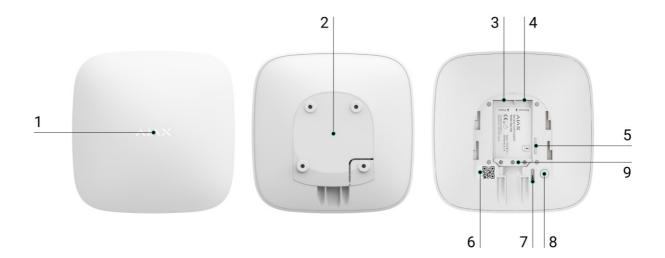
Up to 100 Ajax devices can be connected to the hub. The protected <u>Jeweller</u> radio protocol ensures reliable communication between the devices at a distance of up to 2 km in the line of sight.

List of Jeweller 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 congure 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
- 9. Cable retainer clamp

LED indication



00:00

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 in ternet or there is no connection with the Ajax Cloud se rvice.	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 lo ss 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 indications, please contact our **Technical Support** . 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 Space Control button to arm/disarm the system or activate Night Mode.
- Arm/disarm the system using Ajax apps.



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 rmware 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 secon d.	Two-Stage Arming or Delay When Leaving.	One of the devices is performing T wo-Stage Arming or Delay When Leaving.
Green LED flashes once per second.	Entry indication.	One of the devices is performing D elay When Entering.
White LED lights up for 2 seconds.	Arming is completed.	The hub (or one of the groups) is c hanging its state from Disarmed to Armed.
Green LED lights up for 2 seconds.	Disarming is completed.	The hub (or one of the groups) is c hanging its state from Armed to Di sarmed.
Alerts and Malfunctions		

		There is an unrestored state after a confirmed hold-up alarm.
Red and purple LED flashes in se quence for 5 seconds.	Confirmed hold-up alarm.	The indication is displayed on ly if Restoration after confirmed hold-up alarm is enabled in the s ettings.
		There is an unrestored state after a hold-up alarm. The indication is not displaye d if there is a confirmed hold- up al arm state.
Red LED lights up for 5 seconds.	Hold-up alarm.	The indication is displayed on ly if Restoration after hold-up ala rm is enabled in the settings.
Red LED flashes.	The number of flashes equals the Device No. of a hold-up device (D ouble Button), 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

Yellow and purple LED ashe s sequentially for 5 seconds.	Conrmed intrusion alarm.	There is an unrestored state after the conrmed intrusion alarm. The indication is displayed only if Restoration after conrmed intrusion alarm is enabled in the settings.
Yellow LED lights up for 5 se conds.	Intrusion alarm.	There is an unrestored state after the in trusion alarm. The indication is not displayed if the ere is a conrmed intrusion alarm condition. The indication is displayed only if Restoration after intrusion alarm is enabled in the settings.

Yellow LED ashes.	The number of ashes equals the D evice No. that rst generated the int rusion alarm.	There is an unrestored state after the conrmed or unconrmed intrusion alarm: Single intrusion alarm or Conrmed intrusion alarm	
Red and blue LED ashes 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 ashes 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 Resto ration 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.	Permanent deactivation.	One of the devices is permanently deactivated or the lid state motivations are disabled.	
Blue LED lights up for 5 seconds.	Automatic deactivation.	One of the devices is automatically dea ctivated by an opening timer or the number of detections.	
Green and blue LED ashes in sequence.	Alarm timer expiration. Learn more about Alarm conrmation feature	Displayed after the alarm timer expires (to conrm the alarm).	

Alert indication

If the system is disarmed and any of the indications from the table is present, the yellow LED ashes 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.

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
- 4 Cable retainer clamp
- 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, literation 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 sucient 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 congure 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 conrm 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 motivations in particular) is a mandatory condition for controlling the Ajax security system via the smartphone.

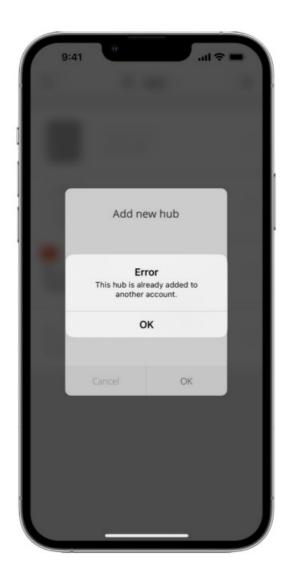
- 1. Login into your account.
- 2. Open the Add Hub menu and select the way of registering: manually or step by-step guidance.
- 3. At the registration stage, type the name of the hub and scan the QR code located under the lid (or enter a registration key manually).



4. Wait until the hub is registered.

If there are already users on the hub, the hub administrator, PRO with full rights or the installation company of the selected hub can add your account to it. You will receive a notications that the hub is already added to another account.

Get in touch with our <u>support</u> to determine who has admin rights on the hub. <u>User account types and rights</u>



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 simples 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 Xing accessories, make sure that they do not damage or deform the hub lid.

2. Fix the power and Ethernet 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 t tightly to the cables so that the hub lid closes easily.

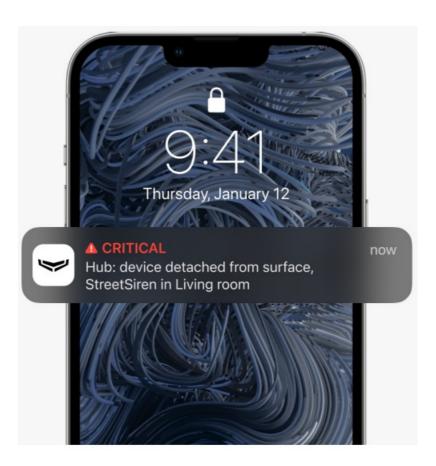
- The cable retainer clamp helps to prevent sabotage the power and Ethernet cables will not be pulled out on purpose.
- 3. Put the hub on the lid and x it with bundled screws.



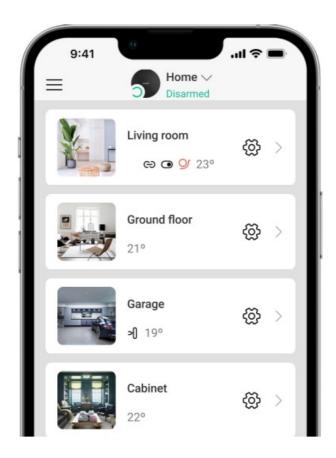
Do not ip the hub when attaching vertically (for instance, on a wall). When properly xed, the Ajax logo can be read horizontally.

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 rmly xed, the attempt to tear it off triggers the tamper, and the system sends a motivation.



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 nd the needed room in the list quickly.

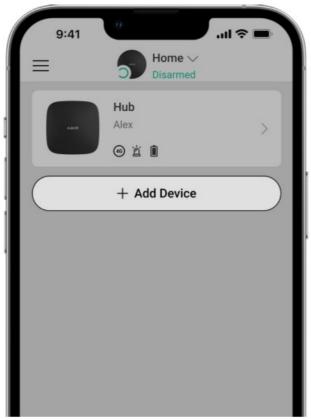
By pressing on the gear button \mathfrak{S} go to the room settings menu.

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 <u>uartBridge</u> and <u>ocBridge</u> Plus integration modules.



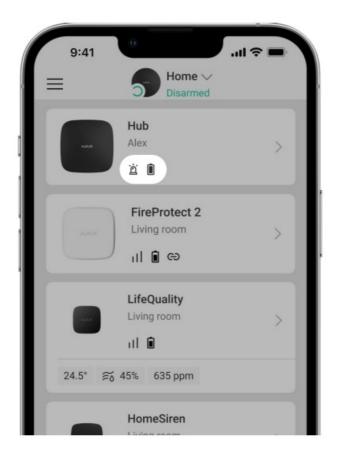
During the rst hub registration in the app, you will be prompted to add devices to guard the room. However, you can refuse and return to this step later.



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 when switching on the device. If the connection fails on the rst 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. How to congure and connect an IP camera to the Ajax security system Hub icons

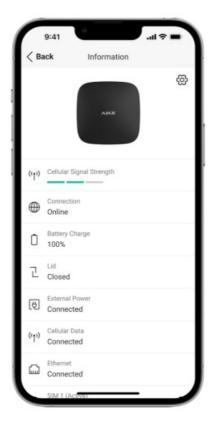


Icons display some of Hub statuses. You can see them in the Ajax app, in the Devices menu



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

Hub 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 eld 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 a nevent or alarm
Battery Charge	Battery level of the device. Displayed as a percentage How battery charge is displayed in Ajax apps
Lid	Status of the tamper that responds to hub dismantling: Closed — the hub lid is closed Opened — the hub removed from Smart Bracket holder What is a tamper?
External power	External power supply connection status: Connected — the hub is connected to external power supply Disconnected — no external power supply
Connection	Connection status between the hub and Ajax Cloud: Online — the hub is connected to Ajax Cloud Offline — the hub is not connected to Ajax Cloud

Cellular data	The hub connection status to the mobile Internet: Connected — the hub is connected to Ajax Cloud via mobile Internet 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 ab le to make calls and send SMS messages even if the Not connected status is di splayed in this eld	
Ethernet	Internet connection status of the hub via Ethernet: Connected — the hub is connected to Ajax Cloud via Ethernet Not connected — the hub is not connected to Ajax Cloud via Ethernet	
Average Noise (dBm)	Noise power level at Jeweller frequencies at the hub installation site. The acceptable value is –80 dBm or lower	
Monitoring Station	The status of direct connection of the hub to the central monitoring station of the security organization: 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 If this eld is displayed, the security company uses a direct connection to receive events and security system alarms What is a direct connection?	
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, an d on the QR code under the Smart Bracket 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 $^{\scriptsize\textcircled{\textcircled{2}}}$.
- Note that after changing the settings, you should click the Back button to save them.

Avatar	~
Hub name	~
Users	~
Ethernet	~
Cellular	~
Geofence	~
Groups	~
Security schedule	~
Detection zone test	~
Jeweller	~
Service	~
Monitoring Station	~
Installers	~
Security Companies	~
User Guide	~
Data Import	~
Unpair hub	~

Settings Reset

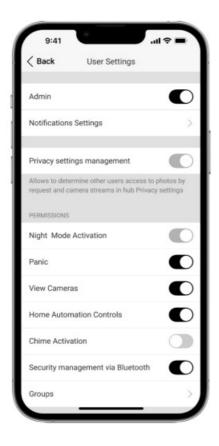
To return the hub to the factory default settings, switch it on, then hold the power button for 30 seconds (logo will start blinking red).

At the same time, all the connected detectors, room settings and user settings will be deleted. User proles 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 Notications





The hub notices users of events in three ways: push notications, SMS and calls. Notications are set in the menu Users:

Event types	For what it is used	Types of notifications
Malfunctions	Loss of connection between the device and the hub Jamming Low battery charge in device or hub Masking Tampering with the detector body	Push notifications SMS
Alarm	Intrusion	Calls

	Fire Flood Loss of connection between the hub and the Ajax Cloud serv er	Push notifications SMS
Events	Activation of WallSwitch, Relay, Socket	Push notifications SMS
Arming/Disarming	Arming/Disarming entire premises or group Turning on Night mode	Push notifications SMS

- Push notications 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 specied in the Ajax account.

We call only in the event of an alarm to get your attention and reduce the feasibility of you missing an important alert. We recommend to enable this type of notications. The hub consecutively calls all users who have enabled this type of notications in the order specied 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.

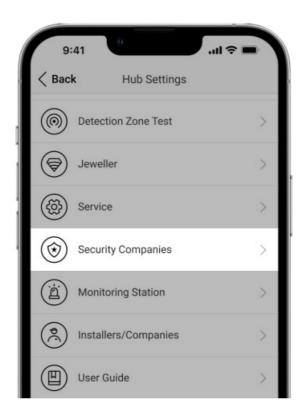
Notications settings may be only changed for registered users.

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

What is Chime

How Ajax noties users of alerts

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 Sur Gard (Contact ID), ADEMCO 685, SIA (DC-09), and other proprietary protocols. A complete list of supported protocols is available at the link.

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.

Technical Specications

All technical specications of Hub Compliance with standards

Warranty

Warranty for the Limited Liability Company "Ajax Systems Manufacturing" products is valid for 2 years after the purchase and does not apply to the preinstalled accumulator.

If the device does not work correctly, you should rst 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



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Documents / Resources



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6099 UAH Intelligent Security Control Panel Hub, 6099 UAH, Intelligent Security Control Panel Hub, Security Control Panel Hub, Hub

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- Wireless panic button with control mode | Ajax Systems
- <u>Hub</u> Intelligent security control panel | Ajax Systems
- Ajax wireless security system devices
- ocBridge Plus Module for Ajax devices integration with wired systems
- <u>Relay Low current remote control relay with dry contact</u>
- Socket (type F) Wireless smart plug with energy monitor
- <u>Hub Jeweller | Technical specifications</u>
- <u>uartBridge Module for Ajax devices integration with third-party wireless alarms systems</u>
- <u>Ajax WallSwitch</u> Wireless power relay with energy monitor
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- <u>Support request</u>
- <u>Warranty Ajax Systems</u>
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