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AJAX Hub 2 Plus Wireless Intelligent Security System Control Panel User Manual

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Hub 2 Plus Wireless Intelligent Security System Control Panel



User Manual

Hub 2 Plus is a central device in the Ajax security system, which controls the operation of all connected devices and interacts with the user and the security company. The hub reports the opening of doors, breaking of windows, the threat of fire or flood, and automates routine actions using scenarios. If outsiders enter the secure room, Hub 2 Plus will send photos from MotionCam MotionCam Outdoor/motion detectors and notify a security company patrol.

 Hub 2 Plus central unit must be installed indoors only.

Hub 2 Plus needs Internet access to connect to the Ajax Cloud service. The central unit is connected to the Internet via Ethernet, Wi-Fi, and two SIM cards (2G/3G/4G). Connecting to Ajax Cloud is necessary for configuring and managing the system through Ajax apps, transmitting notifications about alarms and events, as well as for updating OS Malevich. All data on Ajax Cloud is stored under multilevel protection, information is exchanged with the hub via an encrypted channel.

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

You can manage the security system and quickly respond to alarms and notifications through apps for iOS, Android, macOS, and Windows. 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](#)

If the system is connected to a security company, events and alarms will be transmitted to the monitoring station — **directly and/or through Ajax Cloud**.

Buy Hub 2 Plus central unit

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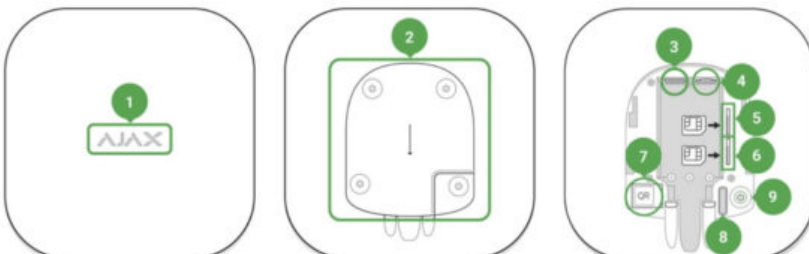
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Functional elements



1. Ajax logo featuring LED indicator
2. SmartBracket mounting panel. Slide it down with force to open



A 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
8. Tamper button
9. Power button

Operating principle

The hub monitors the security system operation by communicating with connected devices via the Jeweller encrypted protocol. The communication range is up to 2000 m without obstacles (for example, walls, doors, inter-floor constructions). If the detector is triggered, the system raises the alarm in 0.15 seconds, activates the sirens, and notices the central monitoring station of the security organization and the users.

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

What jamming of a wireless security system is and how to resist it

Hub 2 Plus supports up to 200 Ajax devices connected, which protect against intrusion, fire, and flooding, as well as control electrical appliances automatically according to scenarios or manually from an app.

To send photos from MotionCam MotionCam Outdoor/motion detector, a separate Wings radio protocol and a dedicated antenna are used. This ensures the delivery of visual alarm verification even with an unstable signal level and interruptions in communication.

List of Jeweller devices

Hub 2 Plus is running under a real-time operating system OS Malevich. Similar OS control spacecraft systems, ballistic missiles, and car brakes. OS Malevich expands the capabilities of the security system, automatically updating by air without user intervention.

Use scenarios to automate the security system and decrease the number of routine actions. Set up the security schedule, and program actions of automation devices (Relay WallSwitch Socket, or) in response to an alarm, pressing of the Button, 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

LED indication



The Ajax logo on the hub front lights up red, white, or green depending on the status of the power supply and Internet connection.

Event	LED indicator
At least two communication channels — Wi-Fi, Ethernet, or SIM card — are connected	Lights up white
A single communication channel is connected	Lights up green
The hub is not connected to the Internet or there is no connection with the Ajax Cloud server	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

Ajax account

The security system is configured and controlled through Ajax apps. Ajax applications are available to professionals and users on iOS, Android, macOS, and Windows. The settings of Ajax security system users and the parameters of connected devices are stored locally on the hub and are inextricably linked with it. Changing the hub administrator does not reset the settings of the connected devices.

To configure, the system, install the Ajax app and create an account. One phone number and email address may be used to create only one Ajax account! There is no need to create a new account for each hub — one account can manage multiple hubs.



Your account can combine two roles: the administrator of one hub and the user of another hub.

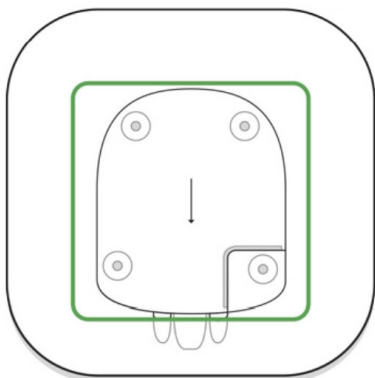
Security requirements

When installing and using Hub 2 Plus, strictly adhere to the general electrical safety regulations for using electrical appliances, as well as the requirements of regulatory legal acts on electrical safety.

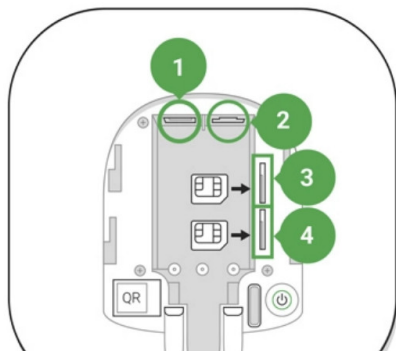
It is strictly forbidden to disassemble the device under voltage! Also, do not use the device with a damaged power cable.

Connecting to the network

1. Remove the SmartBracket mounting panel by sliding it down with force. Avoid damaging the perforated part — it's essential for the tamper activation in case of hub dismantling!



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



Documents / Resources



[AJAX Hub 2 Plus Wireless Intelligent Security System Control Panel](#) [pdf] User Manual

Hub 2 Plus, Wireless Intelligent Security System Control Panel, Hub 2 Plus Wireless Intelligent Security System Control Panel

References

- [How to set up alarm push notifications on Android | Ajax Systems Blog](#)
- [How OS Malevich updates | Ajax Systems Blog](#)
- [OS Malevich — how we made a system that embodies the idea of absolute simplicity | Ajax Systems Blog](#)
- [What jamming of a wireless security system is and how to resist it | Ajax Systems Blog](#)
- [Wireless panic button with control mode | Ajax Systems](#)
- [Hub 2 Plus — Advanced control panel with 4 communication channels](#)
- [Ajax wireless security system devices](#)
- [MotionCam Outdoor — Wireless outdoor motion detector with photo](#)
- [MotionCam - Motion sensor with photo verification of alarms](#)
- [Relay — Low current remote control relay with dry contact](#)
- [Socket \(type F\) — Wireless smart plug with energy monitor](#)
- [Ajax WallSwitch — Wireless power relay with energy monitor](#)
- [Automation scenarios | Your Ajax security automation](#)
- [Software | Ajax Systems](#)
- [How to set up notifications for the Ajax app on iPhone | Ajax Systems Support](#)
- [How to create the Ajax account? | Ajax Systems Support](#)
- [Jeweller radio protocol: technology and capabilities | Ajax Systems Support](#)
- [How to create and configure a scenario in the Ajax system | Ajax Systems Support](#)
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