

Hub-gebruikershandleiding

Bijgewerkt 7 september 2022



Hub is een centraal apparaat van het Ajax-beveiligingssysteem, coördineert de aangesloten apparaten en communiceert met de gebruiker en het beveiligingsbedrijf. Hub is alleen ontwikkeld voor gebruik binnenshuis.

Hub heeft internettoegang nodig om te communiceren met de cloudserver Ajax Cloud - voor het configureren en besturen vanaf elk punt van de wereld, het overdragen van gebeurtenismeldingen en het updaten van de software. De persoonlijke gegevens en logboeken van de systeemwerking worden opgeslagen onder bescherming op meerdere niveaus en informatie-uitwisseling met Hub vindt 24 uur per dag plaats via een gecodeerd kanaal.

Door te communiceren met Ajax Cloud kan het systeem de Ethernet-verbinding en het GSM-netwerk gebruiken.



Gebruik beide communicatiekanalen voor een betrouwbaardere communicatie tussen de hub en Ajax Cloud.

Hub kan worden bediend via de app voor iOS, Android, macOS of Windows. Met de app kan snel worden gereageerd op meldingen van het beveiligingssysteem.

Volg de link om de app voor uw besturingssysteem te downloaden:

Android

iOS

De gebruiker kan meldingen aanpassen in de hub-instellingen. Kies wat voor jou handiger is: pushmeldingen, sms of bellen. Als het Ajax-systeem is aangesloten op de centrale meldkamer, wordt het alarmsignaal er rechtstreeks naartoe gestuurd, waarbij Ajax Cloud wordt omzeild.

Koop intelligent beveiligingscontrolepaneel Hub

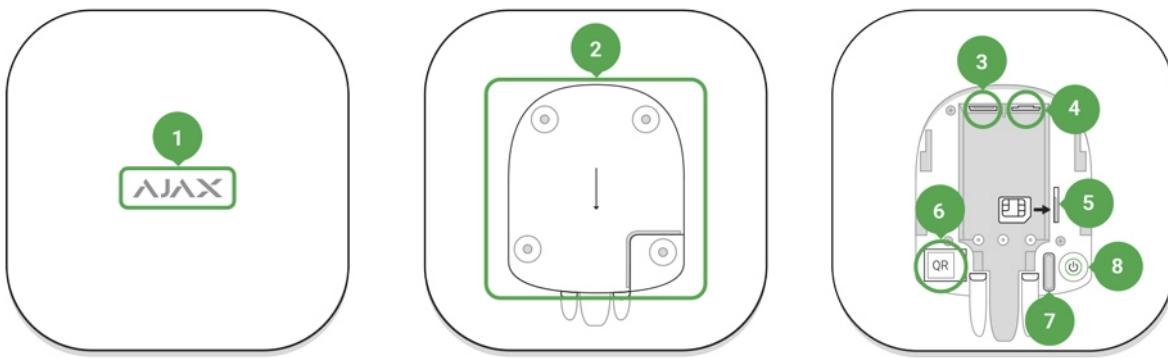
Er kunnen maximaal 100 Ajax-apparaten op de hub worden aangesloten. Het beveiligde Jeweler- radioprotocol zorgt voor een betrouwbare communicatie tussen de apparaten op een afstand van maximaal 2 km in het gezichtsveld.

Lijst met juwelierapparaten

Gebruik scenario's om het beveilingssysteem te automatiseren en het aantal routinematige acties te verminderen. Pas het beveilingsschema aan, programmeer acties van automatiseringsapparaten (Relay, WallSwitch of Socket) als reactie op een alarm, druk op een knop of volgens schema. In de Ajax-app kan op afstand een scenario worden aangemaakt.

Een scenario maken en configureren in het Ajax-beveilingssysteem

Stopcontacten en indicatie



1. LED-logo dat de hubstatus aangeeft
2. SmartBracket-bevestigingspaneel . Het geperforeerde deel is vereist voor het activeren van de sabotage in geval van een poging om de hub te demonteren
3. Aansluiting voor de voedingskabel
4. Aansluiting voor de ethernetkabel
5. Sleuf voor de micro-simkaart
6. QR code
7. Sabotage knop
8. Aan / uit knop

LED-indicatie

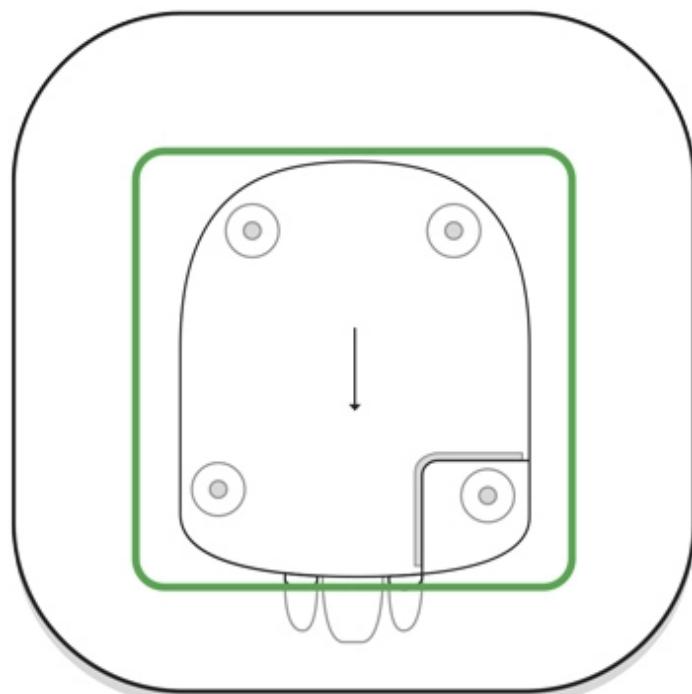


Het LED-logo kan rood, wit of groen oplichten, afhankelijk van de status van het apparaat.

Evenement	Lichte indicator
Ethernet en minimaal één simkaart zijn aangesloten	Licht wit op
Er is slechts één communicatiekanaal aangesloten	Licht groen op
De hub is niet verbonden met internet of er is geen verbinding met de Ajax Cloud-service	Licht rood op
Geen kracht	Licht 3 minuten op en knippert vervolgens elke 10 seconden. De kleur van de indicator is afhankelijk van het aantal aangesloten communicatiekanalen.

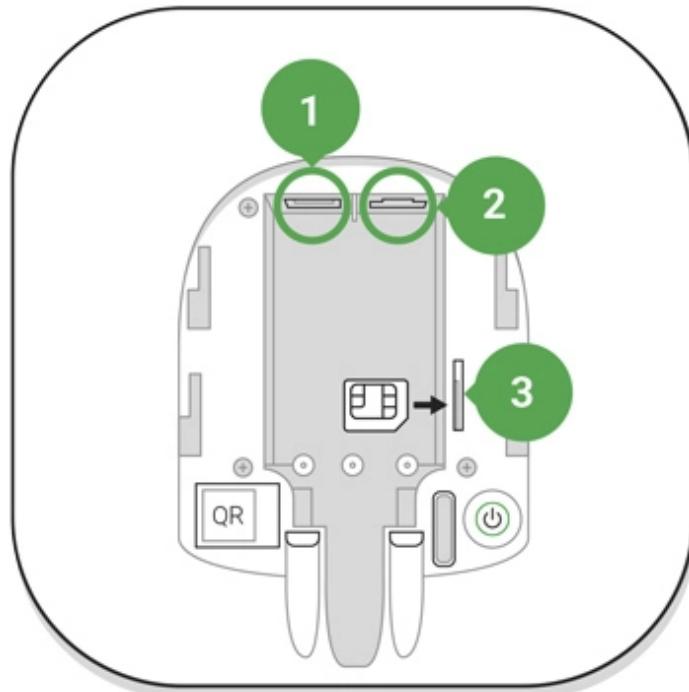
Verbinding maken met het netwerk

1. Open het naafdeksel door het met kracht naar beneden te schuiven.



Wees voorzichtig en beschadig de sabotage die de naaf beschermt tegen demontage niet.

2. Sluit de voeding en ethernetkabels aan op de stopcontacten.

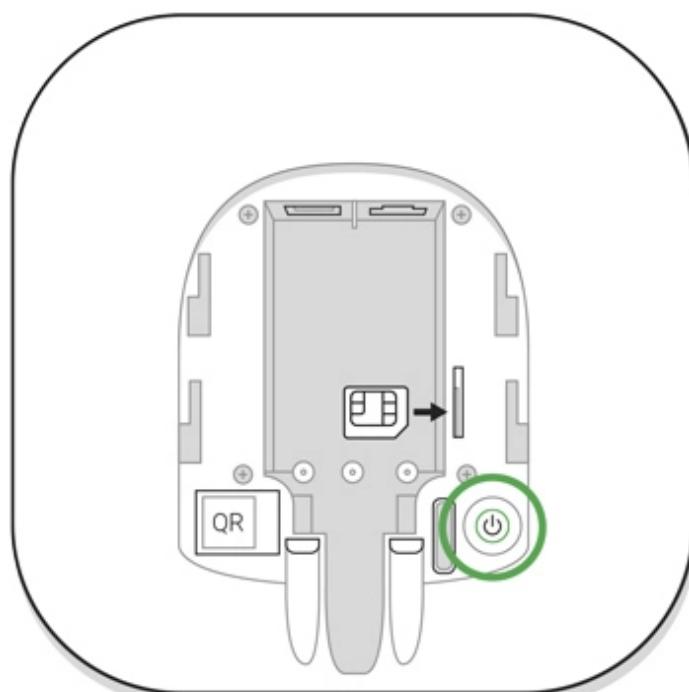


1 – Voedingsaansluiting

2 – Ethernet-aansluiting

3 – SIM-kaartsleuf

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.

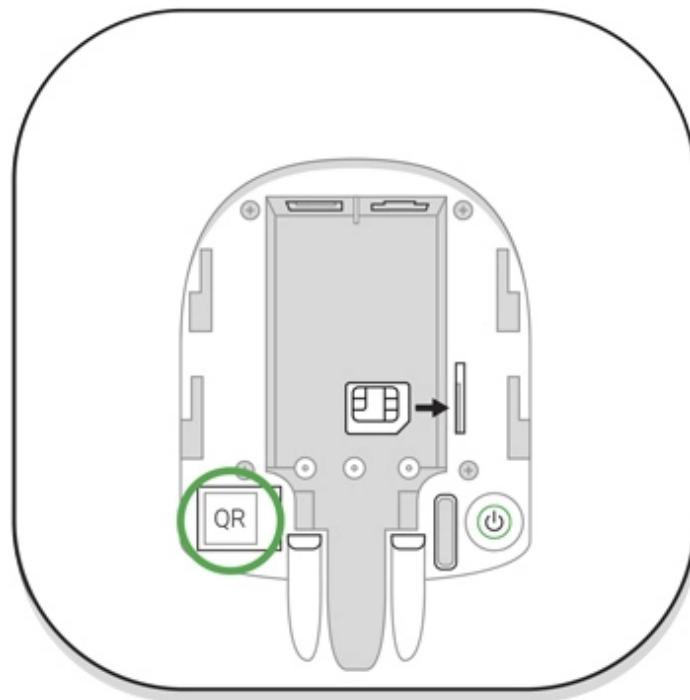
Create the Ajax account in the app following the step-by-step guide. As part of the process, you need to confirm your email and phone number.

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.

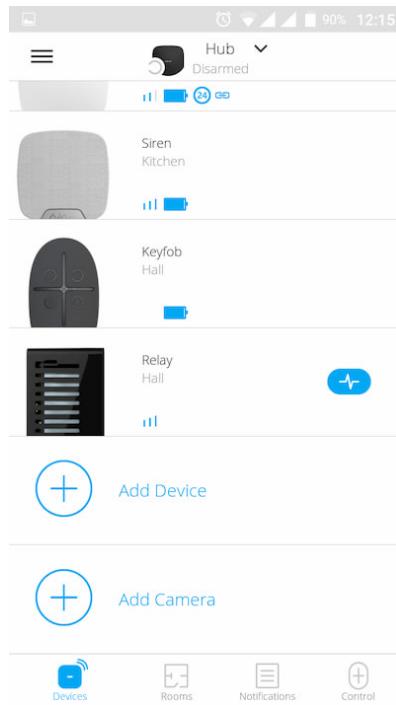
By pressing on the gear button go to the room settings menu.

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 when 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.

How to configure and connect an IP camera to the Ajax security system

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
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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>
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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>
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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
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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
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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
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	<ul style="list-style-type: none"> • 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 calls and send SMS messages even if the Not connected status is displayed in this field</p>
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>What is a direct connection?</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
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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



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

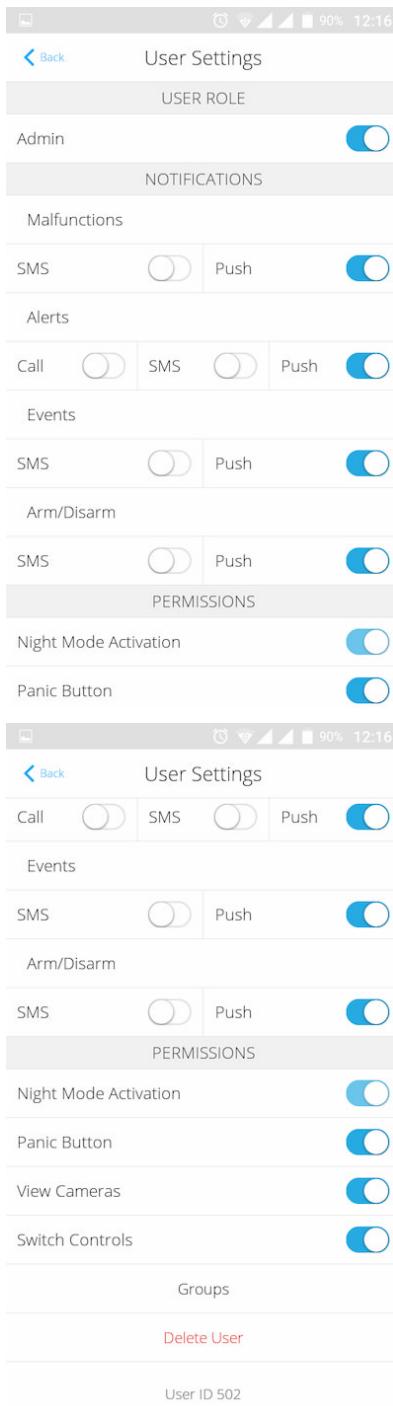
To return the hub to the factory default settings, switch it on, then hold the power button for 30 seconds (logo will start blinking red).

At the same time, all the connected detectors, room settings and user settings will be deleted. User 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
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	<ul style="list-style-type: none"> • Loss of connection between the device and the hub • Jamming • Low battery charge in device or hub • Masking • Tampering with the detector body 	<ul style="list-style-type: none"> • Push notifications • SMS
Malfunctions		
Alarm	<ul style="list-style-type: none"> • Intrusion • Fire • Flood • Loss of connection between the hub and the Ajax Cloud server 	<ul style="list-style-type: none"> • Calls • Push notifications • SMS
Events	Activation of <u>WallSwitch</u> , <u>Relay</u> , <u>Socket</u>	<ul style="list-style-type: none"> • Push notifications • SMS
Arming/Disarming	<ul style="list-style-type: none"> • Arming/Disarming entire premises or group • Turning on <u>Night mode</u> 	<ul style="list-style-type: none"> • Push notifications • SMS

- **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.

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 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.



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.

[What is Chime](#)

How Ajax notifies 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 SurGard (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 Specifications

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 <u>ReX</u>	1
Number of connected sirens	up to 10
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
Radio communication protocol with Ajax devices	Jeweller Learn more
Radio frequency band	866.0 – 866.5 MHz 868.0 – 868.6 MHz 868.7 – 869.2 MHz 905.0 – 926.5 MHz 915.85 – 926.5 MHz 921.0 – 922.0 MHz Depends 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 Limited Liability Company “Ajax Systems Manufacturing” 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

Schrijf je in voor de nieuwsbrief over veilig leven. Geen spam

E-mail

Abonneren