Hub 2 (2G) / (4G) Gebruikershandleiding

Bijgewerkt7 september 2022



Hub 2 is een controlepaneel van een beveiligingssysteem dat fotoverificatie van alarmen ondersteunt. Het regelt de werking van alle aangesloten apparaten en communiceert met de gebruiker en het beveiligingsbedrijf. Het apparaat is alleen ontworpen voor installatie binnenshuis.

De hub meldt het openen van deuren, het breken van ramen, de dreiging van brand of overstroming, en automatiseert routinematige acties met behulp van scenario's. Als buitenstaanders de beveiligde ruimte betreden, stuurt Hub 2 foto's van **MotionCam / MotionCam Outdoor** -bewegingsdetectoren en stelt een patrouille van het beveiligingsbedrijf op de hoogte.

Hub 2 heeft internettoegang nodig om verbinding te maken met de Ajax Cloudservice. De centrale heeft drie communicatiekanalen: Ethernet en twee SIMkaarten. De hub is verkrijgbaar in twee uitvoeringen: met 2G en 2G/3G/4G (LTE) modem.



U kunt het beveiligingssysteem beheren en reageren op alarmen en gebeurtenismeldingen via iOS-, Android-, macOS- en Windows- **apps**. Met het systeem kunt u kiezen welke gebeurtenissen en hoe u de gebruiker op de hoogte wilt stellen: via pushmeldingen, sms of oproepen.

- Pushmeldingen instellen op iOS
- Pushmeldingen instellen op Android

Koop Hub 2 centrale eenheid

Functionele elementen



- 1. Ajax-logo met een LED-indicator.
- **2.** SmartBracket montageplaat. Schuif het met kracht naar beneden om te openen.

Het geperforeerde deel is vereist voor het activeren van de sabotage in geval van een poging om de hub te demonteren. Breek het niet af.

3. Stroomkabel aansluiting.

- 4. Ethernet-kabelaansluiting.
- **5.** Sleuf voor micro-SIM 2.
- 6. Sleuf voor micro-SIM 1.
- 7. QR-code en ID-/servicenummer van de hub.
- 8. Knoeien.
- 9. Aanknop.

Operatie principe



Hub 2 ondersteunt tot 100 aangesloten Ajax-apparaten, die beschermen tegen inbraak, brand of overstromingen en elektrische apparaten besturen volgens scenario's of via een app.

De hub regelt de werking van het beveiligingssysteem en alle aangesloten apparaten. Hiervoor communiceert het met de systeemapparaten via twee gecodeerde radioprotocollen:

1. **Juwelier** – is een draadloos protocol dat wordt gebruikt om gebeurtenissen en alarmen van draadloze Ajax-detectoren te verzenden. Het communicatiebereik is 2000 m zonder obstakels (muren, deuren of constructies tussen verdiepingen).

Meer informatie over Juwelier

2. **Wings** is een draadloos protocol dat wordt gebruikt om foto's van MotionCamen MotionCam Outdoor-detectoren te verzenden. Het communicatiebereik is 1700 m zonder obstakels (muren, deuren of constructies tussen verdiepingen).

Meer informatie over vleugels

Telkens wanneer de detector wordt geactiveerd, slaat het systeem alarm in minder dan een seconde. In dit geval activeert de hub de sirenes, start de scenario's en verwittigt de meldkamer van het beveiligingsbedrijf en alle gebruikers.



Anti-sabotagebeveiliging

Hub 2 heeft drie communicatiekanalen: Ethernet en twee simkaarten. Hierdoor kan het systeem worden aangesloten op Ethernet en twee mobiele netwerken. De hub is verkrijgbaar in twee uitvoeringen: met 2G en 2G/3G/4G (LTE) modem.

Vast internet en mobiele netwerkverbinding worden parallel onderhouden om een stabielere communicatie te bieden. Dit maakt het ook mogelijk om zonder vertraging over te schakelen naar een ander communicatiekanaal als een van hen uitvalt.

Als er storing is op Jeweller-frequenties of als er wordt geprobeerd te storen, schakelt Ajax over naar een vrije radiofrequentie en stuurt het meldingen naar de centrale meldkamer van het beveiligingsbedrijf en de systeemgebruikers.

Wat is een storing in het beveiligingssysteem

Niemand kan ongemerkt de hub loskoppelen, ook niet als de faciliteit is uitgeschakeld. Als een indringer het apparaat probeert af te koppelen, wordt de sabotage onmiddellijk geactiveerd. Elke gebruiker en het beveiligingsbedrijf ontvangen triggermeldingen.

Wat is een tamper

De hub controleert regelmatig de Ajax Cloud-verbinding. De polling-periode wordt gespecificeerd in de hub-instellingen. De server kan de gebruikers en het beveiligingsbedrijf binnen 60 seconden op de hoogte stellen na het verlies van de verbinding bij minimale instellingen.

Leer meer

De hub bevat een back-upbatterij die een batterijlevensduur van 16 uur biedt. Hierdoor kan het systeem blijven werken, zelfs als de stroomvoorziening in de faciliteit wordt onderbroken. **Gebruik 12V PSU** en 6V **PSU** om de levensduur van de batterij te verlengen of de hub aan te sluiten op 6V- of 12V-netwerken.

OS Malevich



Hub 2 wordt gerund door het real-time besturingssysteem OS Malevich. Het systeem is immuun voor virussen en cyberaanvallen.

Over-the-air updates van OS Malevich openen nieuwe mogelijkheden voor het Ajax-beveiligingssysteem. Het updateproces is automatisch en duurt minuten wanneer het beveiligingssysteem is uitgeschakeld.

Hoe OS Malevich wordt bijgewerkt

Aansluiting voor videobewaking



U kunt Dahua, Hikvision, Safire, EZVIZ en Uniview camera's en DVR's aansluiten op het Ajax beveiligingssysteem. Dankzij de ondersteuning van het RTSPprotocol is het mogelijk om videobewakingsapparatuur van derden te integreren. U kunt maximaal 25 videobewakingsapparaten op het systeem aansluiten.

Automatisering scenario's

Gebruik scenario's om het beveiligingssysteem te automatiseren en het aantal routinematige acties te verminderen. Stel het beveiligingsschema in, programmeer acties van automatiseringsapparaten (Relais, WallSwitch of Socket) als reactie op een alarm, door op de knop te drukken of volgens een schema. In de Ajax-app kun je op afstand een scenario aanmaken.

Een scenario maken in het Ajax-beveiligingssysteem

Verbinding maken met een beveiligingsbedrijf

Het Ajax beveiligingssysteem kan worden aangesloten op een centraal meldpunt (CMS) van het beveiligingsbedrijf. De lijst met bedrijven die het systeem verbinden met de meldkamer staat in het menu **Beveiligingsbedrijven** (Apparaten \longrightarrow Hub \rightarrow Instellingen $\textcircled{O} \rightarrow$ Beveiligingsbedrijven).

Alle gebeurtenissen worden verzonden in SurGard (Contact ID), ADEMCO 685, SIA (DC-09) en **andere eigen protocollen**. Een volledige lijst met ondersteunde protocollen is beschikbaar via de link.

Selecteer het bedrijf en klik op **Verstuur een verzoek** of neem contact op met de vertegenwoordigers van het bedrijf die diensten aanbieden op uw locatie om de verbinding te regelen.

LED-indicatie

Lights up white.	Two communication channels are connected: Ethernet and SIM card.	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 **our technical support**. They will help you.

Ajax account

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The security system is configured and managed via **Ajax applications** 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 <u>Ajax PRO: Tool for Engineers</u> (for iPhone and Android) or <u>Ajax PRO Desktop</u> (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 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

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	AJAX	•
- itt	Cellular Signal Streng	gth
	Connection	Online
	Battery Charge	100%
ъ	Lid	Closed
3	External Power	Connected

- **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.
- 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.

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

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10	DoorProtect Hall

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

lcon	Value
26	SIM card operates in 2G network.
36)	SIM card operates in 3G network. Available for Hub 2 (4G) only.
(46)	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.
Ì	Hub battery charge level. Displayed in increments of 5%.
!	Hub failure detected. The list is available in the hub states list.
ě	The hub is directly connected to the central monitoring station of the security company.
ě	The hub is not directly connected to the central monitoring station of the security company.

Hub states

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< Back	Information	
	XALA	(
al.	Cellular Signal Strength	al l
÷	Connection	Online
	Battery Charge	100%
٦	Lid	Closed
9	External Power	Connected
*	Average Noise (dBm)	-94/-98/-99
(<u>m</u>)	Cellular Data	Connected
(0)	Wi-Fi	Disabled
	Active	SIM 1
	SIM 1 U	nknown Number

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

- **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
Malfunction	Clicking on (i) opens the hub malfunctions list. 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 0 or 1 bar, the hub may fail to dial up or send an SMS about an event or alarm.
Battery charge	Battery charge level of the device. Displayed as a percentage.

	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.
Active SIM card	Displays active SIM card:
	• SIM card 1 – if the first SIM card is active.

	 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.
	Noise power level at the hub installation site. The first two values show the level at Jeweller frequencies, and the third — at Wings frequencies.
Average Noise (dBm)	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.
Hub model	Hub model name.
Hardware version	Hardware version. Not updated.
Firmware	Firmware version. Can be updated remotely.
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

C		
9:4 < Back	Informat	ion
	AJAX	
- 01	Cellular Signal Streng	sth
	Connection	Online
	Battery Charge	100%
a.		Closed
9		Connected
*	Average Noise (dBm)) -94/-98/-99
(<u>x</u>)	Cellular Data	Connected
÷	WI-FI	Disabled
	Active	SIM 1
	SIM 1	Unknown Number

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 \bigotimes in the upper right corner.
- **4.** Set the required parameters.
- 5. Click **Back** to save the new settings.

Avatar	~
Hub name	~
Users	~
Ethernet	~
Cellular	~
Geofence	~
Keypad access codes	~
Groups	~
Security schedule	~
Detection Zone Test	~
Jeweller	~

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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



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 \bigotimes 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.

Type in app	System events	Notifications
Malfunctions	 Loss of connection between the device and the hub 	Push notifications SMS

	• Jamming	
	 Low battery charge in device or hub 	
	Masking	
	 Tampering with the detector body 	
	Intrusion	
	• Fire	Calls
Alarm	• Flood	Push notifications
	 Loss of connection between the hub and the Ajax Cloud server 	SMS
	 Turning on / off 	Push notifications
Events	WallSwitch, Relay, Socket	SMS
Arming / Disarming	 Arming / Disarming entire premises or group Turning on Night mode 	Push notifications SMS

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

i

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 **radio 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:

 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 a plastic retainer plate. 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

General settings		
Classification	Security system control panel	
Colour	White, black	
Installation method	Indoors	
Communication with Ajax Cloud		
Hub 2 (2G) communication channels	2 SIM cards • 2G (GSM900/DCS1800 (B3/B8)) Ethernet	
Hub 2 (4G) communication channels	 2 SIM cards 2G (GSM900/DCS1800 (B3/B8)) 3G (WCDMA 850/900/2100 (B1/B5/B8)) LTE (FDD B1/B3/B5/B7/B8/B20/B28) Ethernet 	
Communication with devices		
Communication protocols	Encrypted two-way radio protocols: Jeweller – for transmitting events and alarms. Wings – for transmitting photos.	

Radio communication range	Up to 2000 m without obstacles
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 (depending on the sales region)
Radio signal modulation	GFSK
Maximum effective radiated power (ERP)	≤ 25 mW
Polling interval	12–300 s (set by administrator in the app)
Time for alarm delivery from detector to hub	0.15 s
Time for photo delivery from detector to hub	up to 9 s at default settings Learn more
Capabilities	
Capabilities	
Capabilities Number of connected devices	up to 100 including range extenders and sirens
Capabilities Number of connected devices Number of connected ReX	up to 100 including range extenders and sirens up to 5
CapabilitiesNumber of connected devicesNumber of connected ReXNumber of connected sirens	up to 100 including range extenders and sirens up to 5 up to 10
CapabilitiesNumber of connected devicesNumber of connected ReXNumber of connected sirensNumber of security groups	up to 100 including range extenders and sirens up to 5 up to 10 up to 9
CapabilitiesNumber of connected devicesNumber of connected ReXNumber of connected sirensNumber of security groupsNumber of users	up to 100 including range extenders and sirens up to 5 up to 10 up to 9 up to 50
CapabilitiesNumber of connected devicesNumber of connected ReXNumber of connected sirensNumber of security groupsNumber of usersVideo surveillance	up to 100 including range extenders and sirensup to 5up to 10up to 9up to 50up to 25 cameras or DVRs
CapabilitiesNumber of connected devicesNumber of connected ReXNumber of connected sirensNumber of security groupsNumber of usersVideo surveillanceNumber of rooms	up to 100 including range extenders and sirensup to 5up to 10up to 9up to 50up to 25 cameras or DVRsup to 50
CapabilitiesNumber of connected devicesNumber of connected ReXNumber of connected sirensNumber of security groupsNumber of usersVideo surveillanceNumber of roomsNumber of scenarios	up to 100 including range extenders and sirensup to 5up to 10up to 9up to 50up to 25 cameras or DVRsup to 32Learn more

	ADEMCO 685
	Other proprietary protocols
	Learn more
Power supply	
Power supply	 110-240 V with a pre-installed power supply unit 12 V with an alternative power supply unit 12V PSU 6 V with an alternative power supply unit 6V PSU
Backup battery	Li-Ion 2 Ah (up to 16 h of battery life with Ethernet disabled)
Energy consumption from the grid	10 W
Anti-sabotage protection	
Tamper	+
Radio frequency hopping	+
Fraud protection	+
Lid	
Operating temperature range	From -10°C to +40°C
Operating humidity	Up to 75%
Dimensions	163 × 163 × 36 mm
Weight	362 g
Service life	10 years

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

E-mail

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