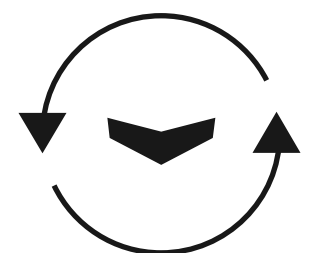




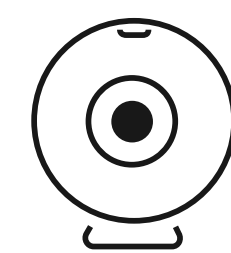
Baseline product line

## Hub 2 (2G) Jeweller

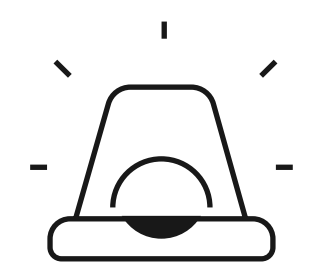
Security system control panel with 3 communication channels: Ethernet and 2 SIM cards (2G). Supports **photo verification** provided by detectors of the MotionCam series.



Free over-the-air software updates



Integration with third-party CCTV cameras or DVRs



Connection to CMS

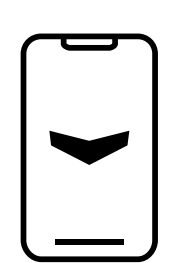


Informing users with push notifications, calls, and SMS

## Always online

To guarantee timely alarm transmission to the security company and users, Hub 2 supports connection to three Internet providers simultaneously: via **Ethernet** and **two SIM cards with a 2G cellular network**. Communication channels operate in parallel, and automatic switching between them takes seconds.

The Ajax product portfolio includes Hub 2 with a 4G cellular modem. This version supports 2G, 3G, and LTE cellular networks. Please note that 2G/3G networks have been shut down in some regions or are planned to be disabled soon.



## In-app control and configuration

Hub is connected to Ajax apps, security companies, and users via a secure channel through the Ajax Cloud server located in several AWS data centres. Server availability is 99.995%.

Intuitive Ajax apps provide remote configuration and all information about system devices from anywhere the Internet is available, on a smartphone or PC. An installer can remotely change the settings and provide services in time — no need to visit the object.

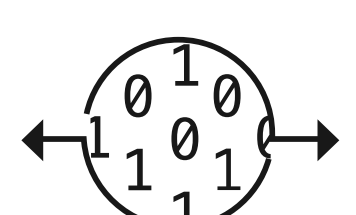


## Sabotage-resistant

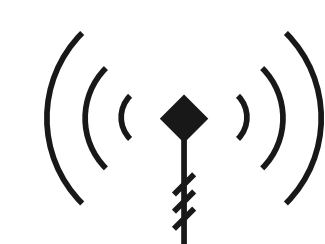
- Built-in backup battery giving up to 16 hours of autonomous operation
- Detecting loss of connection with Ajax Cloud in 1 minute
- Detecting loss of connection with devices in 36 seconds
- Tamper alarm

## Guaranteed delivery of alarms and photos

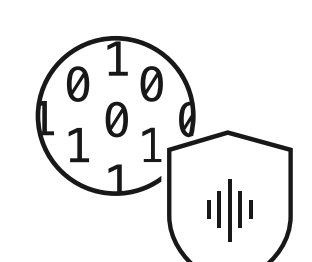
An Ajax system uses two-way secure radio communication based on **Jeweller** and **Wings** proprietary protocols. Radio protocols work in parallel and focus on their function, guaranteeing instant data delivery despite weak signal and communication interruptions.



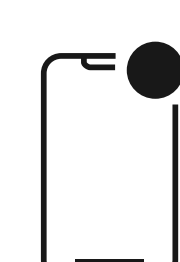
Encrypted two-way radio communication



Automatic power adjustment of radio transmitters



Frequency hopping against radio interference and signal interception



Notifications about jamming and connection loss



 Jeweller

transmits alarms, events, and all readings

- Up to 2,000 m of radio communication in an open space
- Encryption and device authentication to prevent spoofing
- Regular polling to display current devices' statuses

 Wings

transmits photos and large data packages

- Up to 1,700 m of radio communication in an open space
- Unique uploading algorithm and data delivery confirmation
- Data backup and resend in case of transmission interruptions

 Hassle-free installation

The hub is ready to operate straight out of the box. There is no need to disassemble the enclosure during installation. With a SmartBracket panel, an installer can effortlessly mount the hub on the wall or ceilings. The installation kit with all the necessary fasteners is included in a complete set.

 Quick connection and setup

Firstly, an installer needs to plug the hub into a power socket, and connect it to the Internet via Ethernet and SIM cards. The next step is pairing with Ajax apps by scanning the hub's QR code or entering its ID manually. And lastly, an installer only needs to name the hub and add other Ajax devices.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>Compliance with standards</div> <div>EN 50131 (Grade 2)<br/>PD 6662:2017<br/>NIST (AES-128)</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <div>Connected devices</div> <div>up to 100 wireless Ajax devices<br/>Including up to 5 range extenders<br/>and up to 10 sirens or keypads with<br/>a built-in siren.</div>                                                                                                                                                | <div>Connection to CMS</div> <div>SurGard (Contact ID)<br/>SIA (DC-09)<br/>ADEMCO 685<br/>And other proprietary protocols.</div>                                                                                                                                                                                                                                                  | <div>Features</div> <div>50 users<br/>25 cameras or DVRs<br/>32 automation scenarios<br/>9 security groups<br/>photo verification support</div>                         |
| <div>Communication with Ajax devices</div> <div><div> Jeweller communication technology</div><div> Wings communication technology</div></div> <div>Frequency bands<br/>866.0–866.5 MHz<br/>868.0–868.6 MHz<br/>868.7–869.2 MHz<br/>905.0–926.5 MHz<br/>915.85–926.5 MHz<br/>921.0–922.0 MHz<br/>Depends on the sales region.</div> <div>Jeweller communication range<br/>up to 2,000 m<br/>In an open space.</div> <div>Wings communication range<br/>up to 1,700 m<br/>In an open space.</div> | <div>External communication channels</div> <div>Ethernet<br/>8P8C slot<br/>Up to 100 Mb/s.</div> <div>Cellular network<br/>2 slots for micro-SIM<br/>2G (GSM900/DCS1800 (B3/B8)).</div> <div>Enclosure</div> <div>Dimensions<br/>163 × 163 × 36 mm</div> <div>Weight<br/>362 g</div> <div>Colors<br/>white<br/>black</div> | <div>Power supply</div> <div>Main power supply<br/>100–240 V~, 50/60 Hz</div> <div>Backup power supply<br/>built-in Li-Ion battery, 2 A·h<br/>Up to 16 hours of autonomous<br/>operation.</div> <div>Complete set</div> <div>Hub 2 (2G) Jeweller<br/>Power cable<br/>Ethernet cable<br/>SIM card<br/>Depends on the sales region<br/>Installation kit<br/>Quick start guide</div> | <div>Installation</div> <div>Operating temperature range<br/>from -10°C to +40°C</div> <div>Operating humidity<br/>up to 75%</div> <div>Protection class<br/>IP20</div> |



Find detailed information by the link:  
[ajax.systems/support/devices/hub-2/](https://ajax.systems/support/devices/hub-2/)

-  support@ajax.systems
-  @AjaxSystemsSupport\_Bot
-  ajax.systems