

# Hub Jeweller

Security system control panel.  
Has two independent  
communication channels:  
Ethernet and a 2G SIM card.



Find the detailed information on the device at the link:

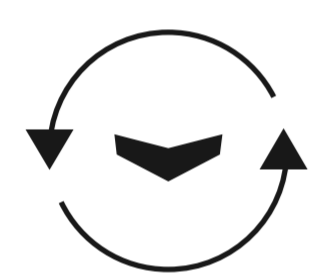
 [ajax.systems/support/devices/hub/](https://ajax.systems/support/devices/hub/)



2  
GRADE  
EN 50131

PD 6662  
2017

## Key features



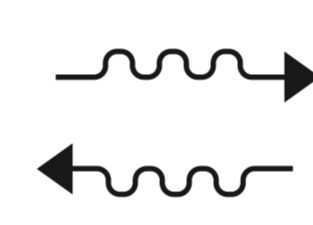
Free software updates



Informing users with push notifications, calls, and SMS



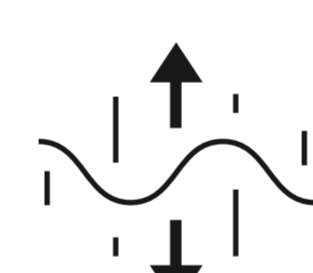
Connection to security company CMS



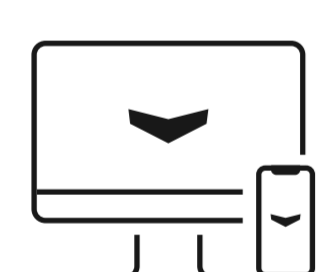
Communication with wireless Ajax devices at a distance of up to 2,000 m



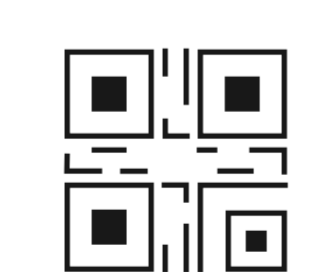
Tampering alarm



Frequency hopping



Remote control and setup via the app



Connecting to Ajax apps via QR code

## Always online

To guarantee prompt alarm transmission to the monitoring station and users, Hub can be connected to two Internet providers at a time via **Ethernet** and **SIM card (2G)**. Channels work in parallel, and automatic switching between them takes seconds.

Hub is connected to the apps, security companies and users through the Ajax Cloud server with an availability of 99.995% in 2021. For more excellent reliability, the servers are located in several data centres. We use the proprietary binary protocol and automatic load balancing for the uninterrupted processing of millions of data packets and the stable operation of security systems.



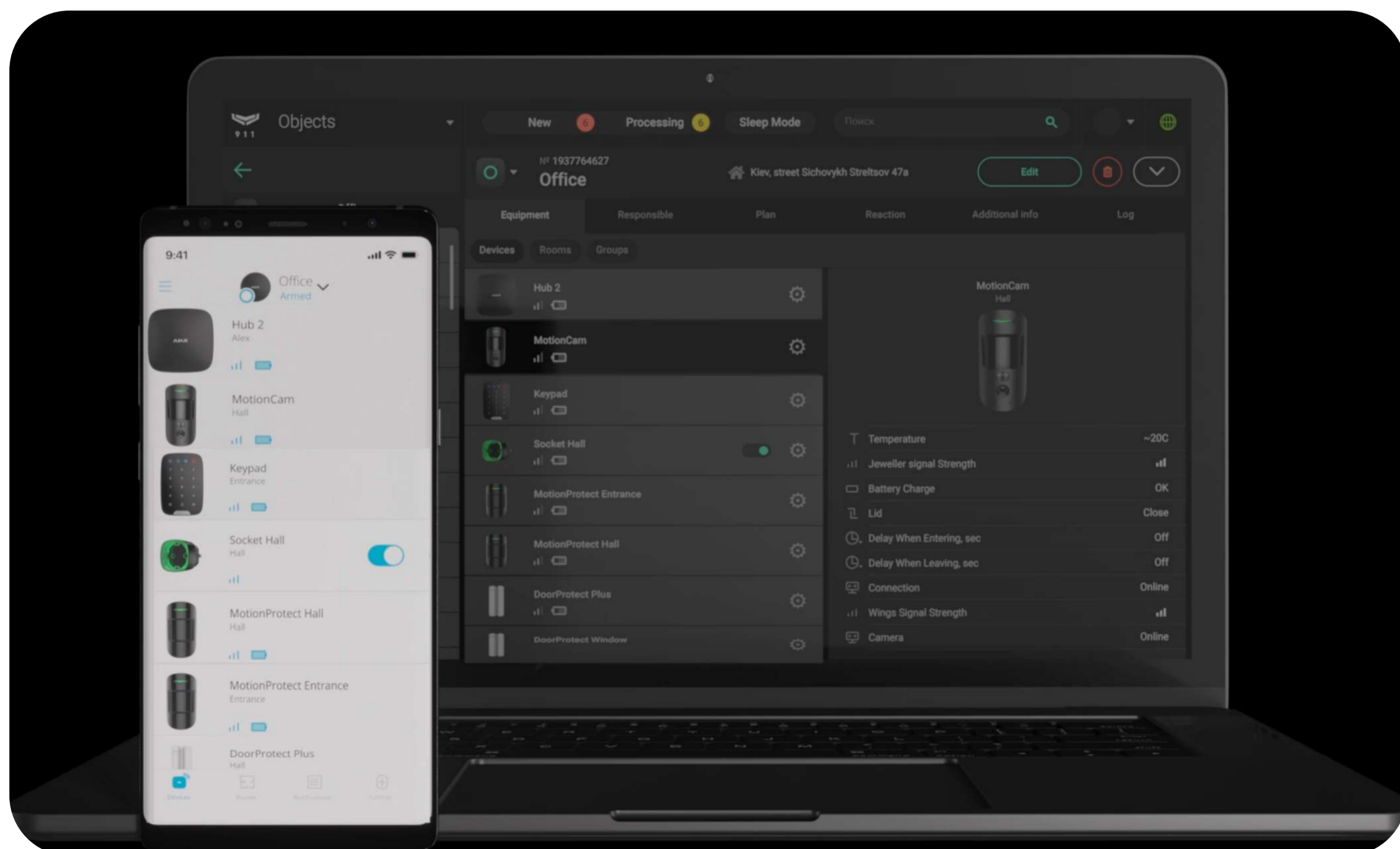
Hub reduces the security system dependence on the conditions at the facility. The control panel is equipped with a backup battery, providing **up to 16 hours of autonomous operation** in case of a blackout. The system will report a power-down and a power restoration to the CMS and all users.



**Jeweller radio protocol** provides two-way communication between a hub and devices at a distance of **up to 2,000 m**. Jeweller uses time frames to synchronize communication with connected devices, authentication to eliminate forgery, and encryption to protect against data theft.

To expand the radio coverage area, a **range extender** can be connected to Hub, increasing the range **to 1,800 m** more.

## Controlled with apps



We've developed two types of applications: for users and PRO. Users' apps are designed for monitoring alarms and managing security via smartphone. Apps for PRO are designed to manage system settings via PC or smartphone.


All types of Ajax apps connect to a hub using a secure channel with Ajax Cloud – our server solution located at several AWS data centres. All security system settings are always available in the app.

The keyboard also allows you to create passcodes for those who are not added to the hub users or use the system from time to time. In this case, the users and the monitoring company operator also know exactly who and when changed the security mode. It is convenient, for example, to create a passcode for a cleaning company.

## Fast connection and installation

Hub is ready to work right out of the box. It comes with pre-installed communication modules, a power supply unit, and a backup battery. To begin the system setup, an installer needs to plug the device into a power socket, connect it to the Internet, insert a SIM card, and scan the app's QR code. Thanks to SmartBracket, installers don't need to disassemble the enclosure to mount the hub.

# Technical specifications

Compliance with standards	EN 50131 (Grade 2) PD 6662:2017	Connection to CMS	SurGard (Contact ID) SIA (DC-09) ADEMCO 685 Other proprietary protocols
Connected devices	up to 100 wireless devices Including 1 range extender and up to 10 sirens.	Features	50 users 10 cameras or DVRs 5 automation scenarios 9 security groups
Communication channels with Ajax devices	 <b>Jeweller communication technology</b>  <b>Frequency bands</b> 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 sales region.  <b>Maximum effective radiated power (ERP)</b> ≤25 mW  <b>Communication range</b> up to 2,000 m In an open space.	External communication channels	<b>Ethernet</b> 8P8C slot Up to 100 Mb/s.  <b>Cellular network</b> 1 slot for micro-SIM  2G (GSM900/DCS1800 (B3/B8))
Power supply	<b>Main power supply</b> 100–240 V~, 50/60 Hz  <b>Backup power supply</b> Li-Ion battery with 2 A·h capacity Up to 16 hours of autonomous operation.	Installation	<b>Operating temperature range</b> from -10°C to +40°C  <b>Operating humidity</b> up to 75%  <b>Protection class</b> IP20

<p>Enclosure</p> <p><b>Colour</b> white black</p> <p><b>Dimensions</b> 163 × 163 × 36 mm</p> <p><b>Weight</b> 350 g</p> <p><b>Tampering alarm</b></p>	<p>Complete set</p> <p>Hub Jeweller Power cable Ethernet cable SIM card Depends on the region of sale. Installation kit Quick Start Guide</p>
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