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 Hub 2 Plus Jeweller

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Tech specs

BASELINE

Hub 2 Plus Jeweller

Wireless control panel with support for photo verification. Connectable via Wi-Fi, Ethernet, and two SIM cards (2G/3G/LTE)



Devices compatibility

Check >

Capacity

Wireless Ajax devices

up to 200

Specifically, up to 10 sirens or keypads with a built-in siren and up to 5 range extenders.

More about devices >

IP cameras or DVRs

up to 100

- Seamless integration with Dahua, Hikvision, Safire, EZVIZ, Uniview IP cameras, and DVRs.
- RTSP support.

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Users

up to 200

- Any number of admin users within the hub limit.
- PRO accounts for installers.
- PRO accounts for installation and monitoring companies.
- Access management for users.

Automation scenarios

up to 64

- Alarm responses.
- Scheduled actions.
- Security mode changing reactions.
- Temperature changing reactions.
- Humidity changing reactions.
- Reactions to changes in CO₂ concentration.
- Reactions to pressing Button.

[Learn more](#) >

Security groups

up to 25

[Learn more](#) >

Rooms

up to 50

Wireless communication

Jeweller communication technology

Proprietary wireless communication technology to transmit alarms and events.

Key features:

- Two-way communication.
- Advanced anti-sabotage.
- Block encryption featuring a dynamic key.
- Instant notifications.
- Remote configuration via the Ajax apps.

Learn more >

Frequency bands

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.

Maximum effective radiated power (ERP)

up to 20 mW

Featured automatic power control to reduce power consumption and noise interference.

Radio signal modulation

GFSK

Radio signal range

up to 2,000 m

Between the hub and connected devices (in an open space).
Maximum range depends on the connected device.

Learn more >

Polling interval

from 12 to 300 s

Adjusted by PRO or user with admin rights in the Ajax apps.

Encrypted communication

All the data stored and transmitted are protected by block encryption with a dynamic key.

Frequency hopping

To prevent radio interference and radio signal interception.

Learn more >

Wings communication technology

Proprietary wireless communication technology to transmit photo verifications.

Key features:

- Two-way communication.
- Block encryption featuring a dynamic key.
- Advanced anti-sabotage.
- Package re-uploading in case of transmission errors.
- Photo delivery check.

Frequency bands

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.

Maximum effective radiated power (ERP)

up to 20 mW

Featured automatic power control to reduce power consumption and noise interference.

Radio signal range

up to 1,700 m

Between the hub and connected devices (in an open space).

Maximum range depends on the connected device.

Learn more >

Encrypted communication

All the data stored and transmitted are protected by block encryption with a dynamic key.

Frequency hopping

To prevent radio interference and radio signal interception.

Learn more >

Recommendations

The device operating voltage is 110–240 V~.

Hub is designed for indoor installation only.

Communication channels

Ethernet

1 8P8C socket

Up to 100 Mbps.

Cellular

2 micro-SIM slots

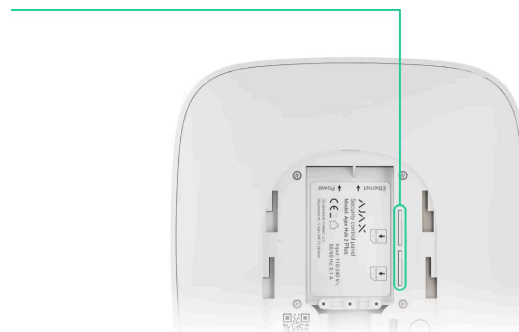
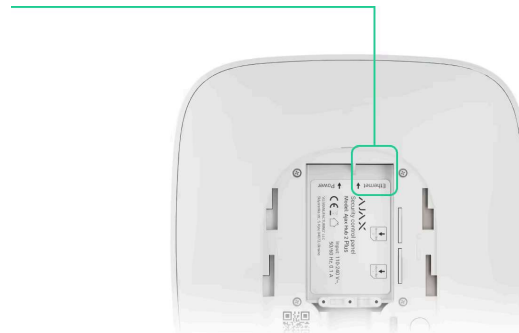
Cellular bands

2G

GSM900/DCS1800 (B3/B8)

3G

WCDMA 850/900/2100 (B1/B5/B8)



4G (LTE)

FDD B1/B3/B5/B7/B8/B20

Wi-Fi

802.11 b/g/n module

up to 600 Mbps.

Automatic switching between communication channels

Instant switching between Ethernet, Wi-Fi and SIM.

Instant switching between 4G (LTE), 3G, and 2G networks of one SIM.

Switching between SIMs takes up to 4 minutes.

Communication channels prioritization

1. Ethernet
2. Wi-Fi
3. Cellular connection

Communication channels work in parallel to increase the system's reliability.

Most of the data is transmitted via Ethernet.

Notifications

Supported notification types

- Push
- SMS
- Calls

[Learn more](#) >

Event types

- Alarms
- Malfunctions
- Security mode changing
- System events
- Non-security alerts
- Automation devices' events

The notification types are configured individually for each user.

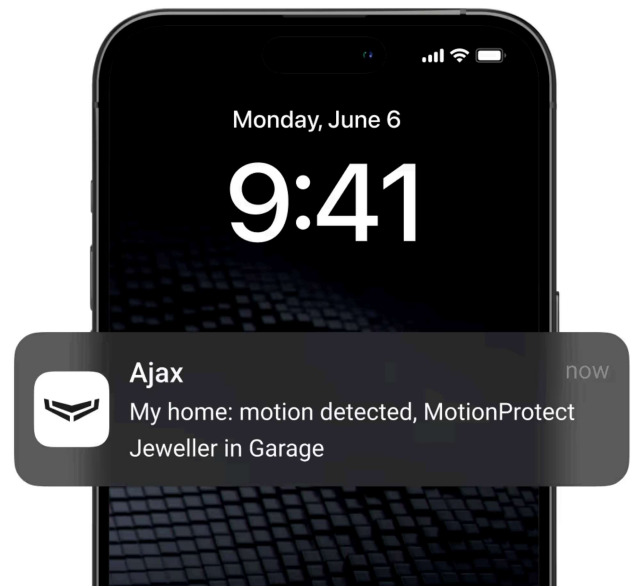


Photo verification

Photo verification types

- Photo by alarm
- Photo by scenario
- Photo on demand

- **Photo by schedule**

The **Photo by Schedule** feature is available for hubs with firmware version OS Malevich 2.19 or higher.

More about photo by scenario >

More about photo on demand >

More about photo by schedule >

Photo delivery time

up to 9 s

by default.

Learn more >

Photo resolution

up to 640 × 480 pixels

Depends on the detector.

Number of photos in a series

from 1 to 5 pictures

Monitoring

Supported protocols

- SIA (DC-09)
- SurGard (Contact ID)
- ADEMCO 685
- Other proprietary protocols

[Learn more](#) >

Event types

- System alarms and events
- Panic button coordinates
- Photo verification

[Learn more](#) >

Power supply

Main

110–240 V~, 50/60 Hz

Up to 10 W of mains power consumption.

Backup

built-in backup rechargeable battery: Li-ion 3 A·h

Up to 15 hours of offline operation when Ethernet is disconnected.

Up to 15 hours of offline operation when Ethernet is disconnected.

Learn more >

The hub has a **3-pin** battery. To replace the hub battery, use the same one.

Learn more >

Alternative

6 V₌₌

Connected via an alternative power supply unit **6V PSU (type A)**, which is **sold separately**.

12–24 V₌₌

Connected via an alternative power supply unit **12–24V PSU (type A)**, which is **sold separately**.

Learn more >

Anti-sabotage

Tamper alarm

The system receives notifications about attempts to detach the device from the surface or remove it from the mounting panel.

Learn more >

Protection against spoofing

devices' authentication

Proprietary authentication algorithms make it impossible to spoof the hub or connected devices.

[Learn more](#) >

Frequency hopping

The users and the security company receive notifications in case of jamming or when the hub loses connection with the devices.

[Learn more](#) >

Enclosure

Dimensions

163 × 163 × 36 mm

Weight

367 g

Operating temperature range

from -10°C to +40°C

Operating humidity

up to 75%



Protection class

IP20

Colours

Black



White



Complete set

Hub 2 Plus Jeweller

SmartBracket mounting panel

Power cable

Ethernet cable

Installation kit

SIM card (depends on the sales region)

Quick start guide

Certification and compliance with standards



Hub 2 Plus Jeweller



Additional information

Compliance with standards

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User manual

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Warranty

24 months

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Rating 4.8

4,000,000

people worldwide under Ajax protection

? Suggest a feature



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- All products
- Services
- System integrations
- Ajax Ready products
- Fibra wired protocol
- Ajax radio protocols

Solutions

- Customer stories
- Solutions by facility type
- Commercial fire detection and alarm system
- Wireless Grade 3 solution
- Upgrades and retrofits
- Why Ajax

Software

- For users
- Ajax PRO: Tool for Engineers
- Ajax Desktop
- Ajax PRO Desktop
- Ajax Translator PRO
- Ajax Cloud Signaling
- Scenarios

Available on
App StoreAvailable on
Google Play

Support

- Manuals and articles
- Compliance with standards

Tools

- Ajax kit configurator

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[Ajax device compatibility](#)

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Monitoring solutions and integrations

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