LifeQuality Lite Jeweller user manual

Updated June 1, 2026



LifeQuality Lite Jeweller is a wireless temperature and humidity monitor. If a threshold is exceeded, it informs users via LED indication and push notifications in Ajax apps. Also, the device can trigger automation scenarios to activate humidifiers, HVAC systems, or other equipment to restore the required conditions.

LifeQuality Lite Jeweller communicates with the hub via two secure protocols. The device uses Jeweller to transmit measurements and Wings to transmit data backups. The communication range in open space is up to 1,700 m.

Buy LifeQuality Lite Jeweller

A wireless temperature, humidity, and CO_2 monitor is also available. Learn more about LifeQuality Jeweller.

Functional elements



1. LED indicator with a touch button.
2. SmartBracket mounting panel. To remove the panel, turn it counterclockwise.
3. Power button.
4. Device QR code and ID (serial number). It is used to add the device to the hub.

Operating principle



LifeQuality Lite Jeweller monitors temperature and humidity by measuring them once per minute.

The measurements are available in Ajax apps in the **Devices** tab. A PRO user or a user with system configuration rights can set up comfort thresholds for temperature and humidity. When the readings are outside the defined thresholds, users immediately receive a notification.

Ajax automation devices respond to changes in LifeQuality Lite Jeweller readings and perform user-defined actions using automation scenarios. For example, WallSwitch Jeweller turns on the heating system when the specified minimum temperature is reached. By using LifeQuality Lite Jeweller with Ajax automation devices, HVAC systems, humidifiers, and air conditioners, it's easy to maintain a comfortable indoor climate.

Temperature and humidity sensors

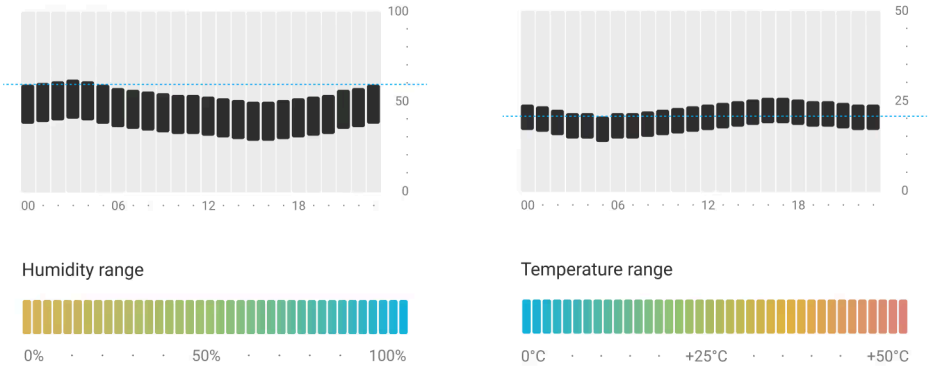
Temperature and humidity are measured with a built-in SHT40 digital sensor manufactured by Sensirion (Switzerland). The sensor is installed in an isolated section of the main board. This eliminates the influence of other board components and ensures measurement accuracy. Temperature measurement accuracy depends on operating conditions and ranges from ±0.2 °C to ±0.5 °C, while humidity measurement accuracy is ±1.8%.

At low temperatures, humidity measurement accuracy may decrease.

After the device has been exposed to low temperatures, keep it at room temperature for 8–12 hours to prevent condensation and ensure stable sensor operation.

LifeQuality Lite Jeweller provides more accurate temperature readings than other Ajax devices. Therefore, if the system includes LifeQuality Lite Jeweller, the **Rooms** tab in Ajax apps displays only the temperature measured by LifeQuality Lite Jeweller. Temperature measurements from other devices are ignored. When indoor climate is measured, data from all LifeQuality Lite Jeweller devices in the room is taken into account.

Data storage



LifeQuality Lite Jeweller measures temperature and humidity once per minute. In Ajax apps, users can view the monitor's current readings and historical data in charts. The charts show the trend of the selected air quality parameter over the last hour, day, week, month, or year. Ajax systems store this data on the Ajax Cloud server for up to two years.

LifeQuality Lite Jeweller also has a backup memory that allows the device to store measurements for up to 72 hours if connection with the hub or radio signal range extender is lost. As soon as the connection is restored, all readings are sent to Ajax apps and synchronized with the charts.

How to view charts

Jeweller and Wings data transfer protocols

Jeweller and Wings are wireless data transfer protocols that provide fast and reliable two-way communication between the hub and devices. LifeQuality Lite Jeweller uses **Jeweller** to transmit events and measured values, and **Wings** to send data backups from the device to the hub when the connection is restored.

Learn more

Sending events to a monitoring station

An Ajax system can transmit alarms to the Ajax PRO Desktop monitoring app and a monitoring station in formats of **SurGard (Contact ID), SIA (DC-09), ADEMCO 685**, and other protocols.

LifeQuality Lite Jeweller can transmit the following events:

- The monitor is moved.
- Temperature is outside acceptable limits / has returned to acceptable limits.
- Humidity is outside acceptable limits / has returned to acceptable limits.
- Hub connection loss/restoration.
- Permanent device deactivation/activation.
- One-time device deactivation/activation.

When an alarm is received, a monitoring station operator knows what happened and precisely where to dispatch a rapid response unit. The addressability of Ajax devices allows sending events to Ajax PRO Desktop or monitoring software. The events include the device type and name, security group, and virtual room. Note that the list of transmitted parameters may vary depending on the type of monitoring station and the selected communication protocol.

Adding to the system

Before adding the device

- Install the Ajax app.
- Log in to your account or create a new one.
- Select a space or create a new one.

  What a space is

  How to create a space
- Add at least one virtual room.
- Add a compatible hub to the space. Ensure the hub is switched on and has internet access via Ethernet, Wi-Fi, and/or mobile network.
- Ensure the space is disarmed, and the hub is not starting an update by checking statuses in the Ajax app.

Only a PRO or a space admin with the rights to configure the system can add a device to the hub.

Types of accounts and their rights

Adding to the hub

1. Open the Ajax app. Select a space where you want to add the device.
2. Go to the **Devices** tab and tap **Add device**.
3. Name the device, scan, or type in the QR code (placed on the device under the SmartBracket mounting panel and on the package box), and select a room and a group (if Group mode is enabled).
4. Tap **Add** — the countdown will begin.
5. Switch on the device by holding the power button for 3 seconds.

Once added to the hub, the device will appear in the list of hub devices in the Ajax app. The device state update frequency in the list depends on the **Jeweller** or **Jeweller/Fibra** settings; the default value is 36 s.

If the connection fails, try again in 5 seconds. If the maximum number of devices is added to the hub, you will be notified when trying to add a new one.

LifeQuality Lite Jeweller works with only one hub. Once the device is connected to a new hub, it stops sending events to the old one. Adding LifeQuality Lite Jeweller to a new hub does not automatically remove it from the device list of the old hub. This must be done in an Ajax app.

Malfunctions

When the device detects a malfunction (for example, there is no connection via the Jeweller protocol), a malfunction counter is displayed in the Ajax app in the uppe corner of the device icon.

All malfunctions can be seen in the device states. Fields with malfunctions will be highlighted in red.

Malfunction is displayed if:

- No connection with the hub or radio signal range extender via Jeweller.
- No connection with the hub or radio signal range extender via Wings.
- The device sensor is faulty.
- The accelerometer of the device is faulty.
- The device battery is low.

Icons

Icons in the Ajax app display some of LifeQuality Lite Jeweller states. The icons can be checked in the **Devices** tab.

State icons

Icon	Meaning
	Jeweller and Wings signal strength — displays the signal strength between the hub and the device. Recommended values: 2–3 bars. Learn more
	Battery charge level of the device. Learn more
	The device operates via the radio signal range extender. Learn more
	The device is permanently deactivated. Learn more
	The device is deactivated until the first disarming of the system. Learn more
	The device has lost connection with the hub, or the hub has lost connection with the Ajax Cloud server.
	The device has not been transferred to the new hub.

	Learn more

Air quality indicator icons

24.5°	Temperature at the location where LifeQuality Lite Jeweller is installed. Measured in degrees Celsius or Fahrenheit, depending on the app settings. When the reading is acceptable, the text is colored black. The text turns yellow when the temperature falls outside the threshold specified in the settings.
45%	Humidity at the location where LifeQuality Lite Jeweller is installed. Measured as a percentage. When the reading is acceptable, the text is colored black. The text turns yellow when the humidity level falls outside the threshold specified in the settings.

States

The states include information about the device and its operating parameters. The states of LifeQuality Lite Jeweller can be found in Ajax apps:

1. Go to the **Devices** tab.
2. Select **LifeQuality Lite Jeweller** in the list.

Parameter	Meaning
Data import	Displays the error when transferring data to the new hub: • **Failed** — the device has not been transferred to the new hub. Learn more
Malfunction	Tapping on opens a list of LifeQuality Lite Jeweller malfunctions. The field is displayed if a malfunction is detected.
Temperature	Temperature at the location where LifeQuality Lite Jeweller is installed. Measured in degrees Celsius or

	Fahrenheit, depending on the app settings. When the reading is acceptable, the text is colored black. The text turns yellow when the temperature falls outside the specified limits.
Humidity	Humidity at the location where LifeQuality Lite Jeweller is installed. Measured as a percentage. When the reading is acceptable, the text is colored black. The text turns yellow when the humidity level falls outside the specified limits.
Jeweller signal strength	Jeweller signal strength between the device and the hub (or the radio signal range extender). The recommended value is 2–3 bars. Jeweller is a protocol for transmitting LifeQuality Lite Jeweller events and alarms.
Connection via Jeweller	Connection status on the Jeweller channel between the device and the hub (or the range extender): • **Online** — the device is connected to the hub (or the range extender). Normal state. • **Offline** — the device is not connected to the hub (or the range extender). Check the device connection.
Wings signal strength	Wings signal strength between the device and the hub (or the range extender). The recommended value is 2–3 bars. Wings is a protocol to transmit data backups.
Connection via Wings	Connection status on the Wings channel between the hub (or the range extender) and the device: • **Online** — the device is connected to the hub (or the range extender). Normal state. • **Offline** — the device is not connected to the hub (or the range extender). Check the device connection.
<Range extender name>	Status of device connection to the radio signal range extender. • **Online** — the device is connected to the ra extender. • **Offline** — the device is not connected to the range extender.

	The field is displayed if the device operates via the radio signal range extender.
Battery charge	The battery charge level of the device. Two states are available: • **OK**. • **Low**. When the batteries need to be replaced, Ajax apps and the security company will receive appropriate notifications. Learn more
Alert if moved	Displayed only if **Alert if moved** is enabled: • **Yes**. • **No**.
Permanent deactivation	Shows the status of the device's permanent deactivation setting: • **No** — the device operates in normal mode and transmits all events. • **Entirely** — the device is entirely excluded from the operation of the system. The device does not execute system commands and does not report alarms or other events.
One-time deactivation	Shows the status of the device's one-time deactivation setting: • **No** — the device operates in normal mode. • **Entirely** — the device is completely excluded from the operation of the system until the system is disarmed for the first time. The device does not execute system commands or report alarms and other events. Learn more
Device ID	Device ID.
Device No.	Device loop (zone) number.

Settings

To change the settings in the Ajax app:

1. Select a space.
2. Go to the **Devices** tab.
3. Select **LifeQuality Lite Jeweller** from the list.
4. Go to **Settings** by tapping on the icon.
5. Set the required parameters.
6. Tap **Back** to save the settings.

Settings	Meaning
Name	Device name. Displayed in the list of hub devices, text of SMS and notifications in the events feed. To change the device name, tap on the text field. The name can contain up to 12 Cyrillic characters or up to 24 Latin characters.
Room	Selecting the virtual room to which LifeQuality Lite Jeweller is assigned. The room name is displayed in the text of SMS and notifications in the events feed.
Air monitor settings	
Temperature	Settings for lower and upper comfort temperature limits. If the temperature falls outside these limits, users will receive a notification. The temperature can be set within a range of −30 °C to +50 °C.
Humidity	Settings for lower and upper comfort humidity limits. If the humidity level falls outside these limits, users will receive a notification. Humidity can be set within a range of 0% to 100%.
Sensor sensitivity	
Temperature	Settings for the device's sensor sensitivity threshold and the delay before users are notified of air quality deterioration: • **Temperature** — if enabled, users can set ε acceptable fluctuation of 0.1 °C to 10 °C.
Humidity	Settings for the device's sensor sensitivity threshold and the delay before users are notified of air quality deterioration:

	• **Humidity** — if enabled, users can set an acceptable fluctuation of 0.1% to 10%.
Notifications	Notifications users receive from LifeQuality Lite Jeweller: • **Notify when device moved** — if enabled, users will receive a notification when the device is moved or detached from the mounting panel. • **Notify when temperature is out of range** — if enabled, users will receive a notification when the temperature falls outside the specified limits. • **Notify when humidity is out of range** — if enabled, users will receive a notification when the humidity level falls outside the specified limits. You can configure the notification type using one of the following alert options: • **Standard** — sending a push notification only. • **Alarm** — triggering a critical alert with a siren sound; the event is also sent to a monitoring station.
LED indication settings	When the **Enable LED indication** option is enabled, touch the device's LED to check whether the selected parameter is outside the acceptable limits specified in the device settings. Enabling the option affects the device's battery life. Settings for the parameters that will be indicated when the device's LED is touched: • **Temperature.** • **Humidity.** • **Worsening of any indicator.** If the option **Blink on abnormal values** is enable the device's LED will start flashing when the se parameter falls outside the acceptable limits specified in the device settings.

Clear air monitor data	Allows deleting all device data for the entire period of use.
Scenarios	Allows setting up automation scenarios by temperature and humidity. Learn more
Jeweller signal strength test	Switches the device to the Jeweller signal strength test mode. The recommended value is 2–3 bars. Learn more
Wings signal strength test	Switches the device to the Wings signal strength test mode. The recommended value is 2–3 bars. Learn more
User manual	Opens the LifeQuality Lite Jeweller user manual in the Ajax app.
Permanent deactivation	Allows the user to deactivate the device without removing it from the system. Three options are available: • **No** — the device operates in normal mode and transmits all events. • **Entirely** — the device does not execute system commands and does not participate in automation scenarios, and the system ignores alarms and other device notifications. • **Lid only** — the system ignores notifications about the device tamper triggering. Learn more
One-time deactivation	Allows the user to disable device events until the system is disarmed for the first time. Three options are available: • **No** — the device operates in normal mode and transmits all events. • **Entirely** — the device is completely excluded from the operation of the system until the system is disarmed for the first time. The

	device does not follow system commands and does not report alarms or other events. • **Lid only** — notifications of the tamper triggering are disabled until the system is disarmed for the first time. Learn more
Delete device	Unpairs the device, disconnects it from the hub, and deletes its settings.

How to set up automation scenarios

1. Open an Ajax app.
2. Select the space if you have multiple spaces or if you are using the PRO app.
3. Go to the **Devices** tab.
4. Select **LifeQuality Lite Jeweller** from the list.
5. Go to Settings by tapping on the gear icon.
6. Go to the **Scenarios** menu.
7. Tap **Create scenario** if you are creating a scenario for the first time, or **Add scenario** if any scenarios have already been created in the system.
8. Select the indicator:
   - Temperature
   - Humidity
9. Specify the parameter values:
   - **Higher than** or **Lower than** to define the event that triggers the scenario.

     To create a scenario for both values, you need to create two different scenarios: one for **Higher than** and the other for **Lower than**.

   - The value at which the scenario is triggered.

> By default, the comfort limits configured in the LifeQuality Lite Jeweller settings are used. You can change them for the scenario. This will not affect the notification settings when the comfort limits are exceeded.

10. Tap **Next**.
11. Select the automation devices that should trigger when the measurement values fall outside the limits specified in the scenario settings.
12. Specify:
    - Scenario name
    - Device action
13. Tap **Save**.

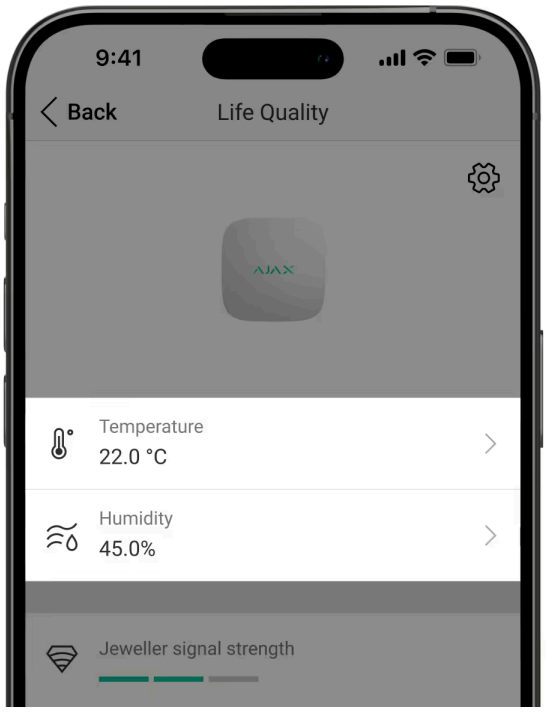
If the device is offline, it will not execute the scenario because it cannot receive a trigger signal (e.g., during a power outage or when the connection between the hub and device is lost).

Use case: an automated action is scheduled for 10 a.m. The electrical power goes out at 9:55 a.m. and is restored 10 minutes later. The automation scenario does not run at 10 a.m. and does not start immediately after power is restored. This scheduled action is skipped.

Learn more about scenarios

How to view device measurement charts

1. Open an Ajax app.
2. Select the space if you have multiple spaces or if you are using the PRO app.
3. Go to the **Devices** tab.
4. Select **LifeQuality Lite Jeweller**.
5. Select the indicator:
    - Temperature
    - Humidity

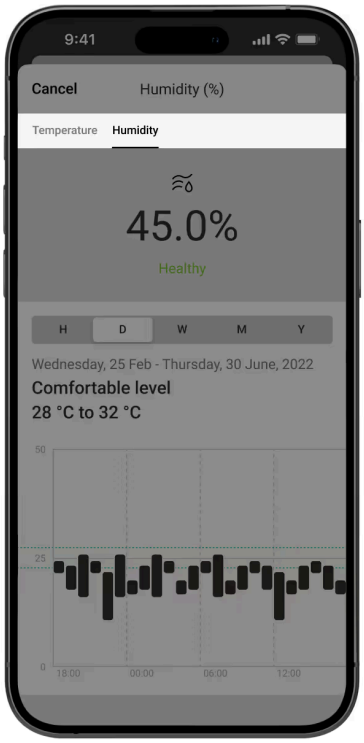


6. Select the interval:

- Hour
- Day
- Week
- Month
- Year



You can also switch between the readings directly on the screen. To do this, select the indicator in the menu above.



To view the readings for the specified period, tap the corresponding column on the chart.

The charts may have gaps if the connection between the monitor and the hub has been lost for more than 72 hours or if the monitor was disabled.

Indication



LifeQuality Lite Jeweller LED indication can report device’s status as well as air quality with a backlight.

LED indication	Event	Notes
When touched, the LED indicator slowly lights up and then slowly goes out.	Touching the LED indicator.	The level for the selected parameter, such as **Temperature**, **Humidity**, or **Worsening of any indicator**, is displayed. The color of the device’s LED depends on the value of the selected parameter: • **Green** — the selected parameter is within the acceptable range. • **Yellow** — the selected parameter is outside the acceptable range. If a sensor malfunction is detected, the LED lights up blue. The device does not respond to touching the LED indicator when the batteries are discharged.
The LED indicator flashes yellow once every six seconds.	The **Blink on abnormal values** option is enabled, and the selected parameter, such as **Temperature**, **Humidity**, or **Worsening of any indicator**, is outside the acceptable range.	
The LED indicator lights up green for 1 second.	Turning the device on.	

The LED indicator lights up red, then flashes three times.	Turning the device off.	
The LED indicator lights up red.	Pressing the power button when the device is on.	The indication appears only when the power button is pressed. If the button is held down for more than 2 seconds, the device briefly lights up three times and turns off.
The LED indicator flashes red six times, then flashes three more times, but more quickly.	The device has been deleted from the hub.	The indication appears when the device receives information that it has been deleted from the hub.
The LED indicator lights up green for 1 second, then flashes red six times, then flashes three more times, but more quickly.	Turning on the device when it is not added to the hub.	
The LED indicator slowly lights up red three times.	The battery is low.	The indication appears when the device's LED is touched.
The LED indicator lights up red for 1 second.	The accelerometer is triggered, indicating that the device has been moved.	

Functionality testing

The Ajax system offers several types of tests to help choose the correct installation place for the devices. Testing does not start immediately. However, the waiting time does not exceed the duration of one hub–device polling interval. The polling interval can be checked and configured in hub settings (**Hub** → **Settings** ⚙ → **Jeweller or Jeweller/Fibra**).

To run the test in the Ajax app:

1. Select a space.
2. Go to the **Devices** – tab.
3. Select **LifeQuality Lite Jeweller** from the list.
4. Go to **Settings** ⚙.
5. Select a test:

   a. Jeweller signal strength test.

   b. Wings signal strength test.

6. Run the test.

Device placement



⚠ The device is for indoor use only.

LifeQuality Lite Jeweller can be mounted on a vertical surface using an included installation kit. The device can also be placed on a horizontal surface without mounting. We recommend mounting the device on a vertical surface or on a ceiling. It will prevent the device from being displaced or accidentally dropped.

When choosing the location of the device, consider the parameters that affect its operation:

- Jeweller signal strength. Radio communication may not be available in industrial refrigeration chambers with shielded panels. It is recommended to perform the signal strength test at the installation site.
- Wings signal strength.
- Distance between the device and the hub.
- Presence of barriers for radio signal passage between devices: walls, interfloor ceilings, and large objects located in the premises.

Consider the placement recommendations when designing your Ajax system for the object. The security system must be designed and installed by specialists. The list of recommended Ajax partners is available here.

Signal strength

The signal strength is determined by the number of undelivered or corrupted data packages over a certain period of time. The ||| icon in the **Devices** tab in Ajax apps indicates the signal strength:

- **three bars** — excellent signal strength;
- **two bars** — good signal strength;
- **one bar** — low signal strength, stable operation is not guaranteed;
- **crossed out icon** — no signal.

⚠ Check the Jeweller and Wings signal strength before final installation. With a signal strength of one or zero bars, we do not guarantee the device will operate stably. Consider relocating the device, as adjusting its position even by 20 cm can significantly improve the signal strength. If the signal remains poor or unstable after relocation, consider using a radio signal range extender.

Where not to install the device

- Outdoors. This could damage the device.
- In places with fast air circulation. For example, near fans, open windows, or doors. This may result in inaccurate measurements.
- Opposite any objects with rapidly changing temperatures. For example, near electric and gas heaters. This may result in inaccurate temperature measurements.
- In places where the device has a low or unstable signal strength. This can lead to a connection loss between the device and the hub or radio signal range extender.
- Inside premises with temperature and humidity outside the device's operating limits. This could damage the device.
- In enclosed botanical gardens, greenhouses, and rooms with a large number of plants. The device is not suitable for use in such conditions.

Installation

⚠ Before installing LifeQuality Lite Jeweller, ensure that you have chosen the optimal location that complies with the requirements of this manual.

To install the device:

1. Remove the SmartBracket mounting panel from the device. To remove the panel, turn it counterclockwise.
2. Fix the SmartBracket panel to a vertical surface using double-sided adhesive tape or another temporary fastener. The mounting panel has an UP sign, which indicates the correct position of the panel.

   ⚠ Use double-sided adhesive tape for temporary fixation only. The device that is permanently fixed with adhesive tape may peel off the surface at any time, leading to damage if the device is dropped.

3. Run the Jeweller signal strength test and Wings signal strength test. The recommended signal strength is two or three bars. With a signal strength of one or zero bars, we do not guarantee the device will operate stably. Consider relocating the device, as repositioning even by 20 cm can significantly improve the signal strength. If the signal remains poor or unstable after relocation, consider using a radio signal range extender.
4. Remove the device from the mounting panel.
5. Fasten the SmartBracket panel using the bundled screws at all fixation points. If using other fasteners, ensure they do not damage or deform the mounting panel.
6. Place the device on the SmartBracket mounting panel.

Maintenance

Regularly check the device operation. The optimal frequency of checks is once every three months. Clean the device enclosure of dust, cobwebs, and other contaminants as they emerge. Use soft, dry wipes suitable for equipment maintenance.

Do not use substances that contain alcohol, acetone, gasoline, or other active solvents to clean the device.

The pre-installed batteries provide up to 5 years of autonomous operation at room temperature and up to 2.5 years at sub-zero temperatures. When the battery is low, the system sends a corresponding notification to users in Ajax apps.

Technical specifications

All technical specifications

Compliance with standards

Warranty

The warranty for the products of the Limited Liability Company “Ajax Systems Manufacturing” is valid for 2 years after purchase.

If the device does not operate properly, we recommend contacting the support service first, as most technical issues can be resolved remotely.

Warranty obligations

User Agreement

Contact Technical Support:

- e-mail
- Telegram

Manufactured by “AS Manufacturing” LLC



Need help?

Explore the full potential of an Ajax system through detailed manuals, articles, tools, and FAQs. For immediate assistance, our AI-powered chatbot and professional technical support team are available 24/7.

Ask a question

Subscribe

Subscribe to our emails about secure life. No spam.

Subscribe

Request extra help

support@ajax.systems
@AjaxSystemsSupport_Bot
Ask a question

Trustpilot
Rating 4.8

4,500,000
people worldwide under Ajax protection

Suggest a feature

Products

- Intrusion protection
- Video surveillance
- Fire and life safety
- Comfort and automation
- All products
- Services
- System integrations
- Ajax Ready products
- Fibra wired protocol
- Ajax radio protocols

Software

- Ajax Security System
- Ajax PRO: Tool for Engineers
- Ajax Desktop
- Ajax PRO Desktop
- Ajax TV
- Ajax Translator PRO
- Ajax Cloud Signaling
- Ajax Media Player
- Scenarios

Available on App Store

Available on Google Play

Solutions

- Customer stories
- Solutions by facility type
- Commercial fire detection and alarm system
- Wireless Grade 3 solution
- Video surveillance solution
- Integration with Yale smart locks

Support

- Manuals and articles
- Compliance with standards

Tools

- Ajax device compatibility
- CMS software compatibility

Upgrades and retrofits

Why Ajax

How it works

Ajax Services availability

Video storage calculator

Video device calculator

Battery life calculator

Radio communication range calculator

Switches and outlets configurator

Fibra power supply calculator

All web tools

Monitoring solutions and integrations

Intrusion alarm monitoring

Video monitoring and visual alarm verification

Audio alarm verification

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Ajax PRO channel

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Anti-Spam Policy Ajax Services T&C End user agreement Warranty

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