HomeSiren Jeweller user manual

Updated October 24, 2024



HomeSiren Jeweller is a wireless home siren with the capacity up to 100 dB. Developed only for indoor use. It can be quickly installed and set up, is furnished with a LED (plus allows connecting an external LED), and can operate up to 5 years from a battery.

HomeSiren operates within the Ajax system, by connecting via the protected **Jeweller** protocol to the **hub**. The communication range is up to 2,000 meters if there are no obstacles.

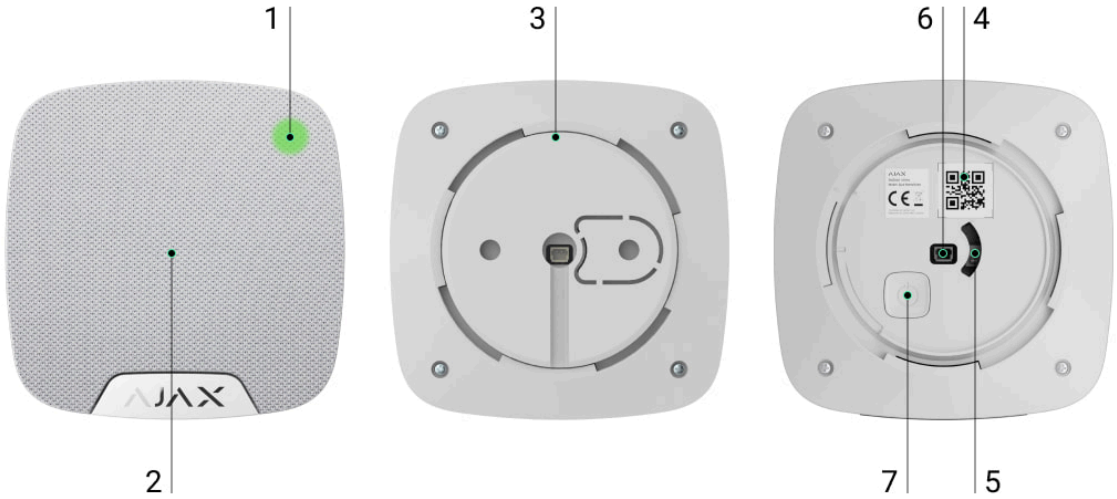
The siren is set up via a **mobile application** for iOS and Android-based smartphones. The user is notified of all events through push notifications, SMS messages and calls (if activated).

Operates only with Ajax hubs. Connection to ocBridge Plus and uartBridge integration modules is not provided.

The Ajax system is self-sustaining, but the user can connect it to the central monitoring station of a private security company.

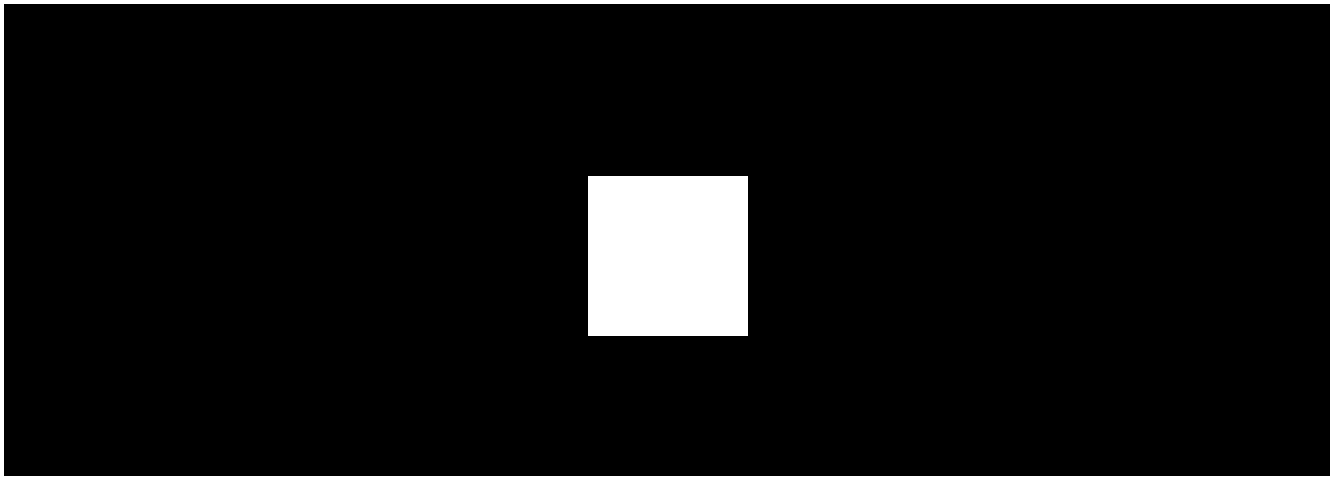
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Functional elements



1. Light indicator
2. Siren buzzer covered with a fabric
3. SmartBracket attachment panel (perforated part is required for actuating the tamper in case of any attempt to tear off the siren from the surface)
4. QR code
5. Tamper button
6. Socket for connecting an outside-mounted light indicator
7. On/off button

Operating Principle



00:00 00:12

The siren significantly improves the efficiency of the security system, being the most operational means of response to the intrusion into a room. With a high probability, its alarm signal will be sufficient to frighten away the intruders.

The device is furnished with a loud buzzer – the sound of the siren can be heard from far. Subject to correct installation, it would be hard to dismount and deactivate the actuated siren: the body is firm, the power supply is autonomous, and the on/off button will be blocked when the security system is set in the guard mode.

Connecting the Siren to the hub

The HomeSiren siren operates only with the Ajax system. Up to 10 sirens or keypads with a built-in siren may be connected to the Ajax hub.

Before starting connection:

1. Following the hub instruction recommendations, install the **Ajax application** on your smartphone. Create an account, add the hub to the application, and create at least one room.
2. Go to the Ajax application.

3. Switch on the hub and check the internet connection (via Ethernet cable and/or GSM network).
4. Ensure that the hub is disarmed and does not start updates by checking its status in the mobile application.

> Only users with administrative privileges can add the device to the hub

How to connect the siren to the hub:

1. Select the **Add Device** option in the Ajax application.
2. Name the device, scan/write manually the **QR Code** (located on the body and packaging), and select the location room.



3. Select **Add** — the countdown will begin.
4. Switch on the device (by pressing on/off button for 3 seconds).



For the detection and interfacing to occur, the siren should be located within the coverage area of the wireless network of the hub (at a single protected object). If

the device was already assigned to another hub, switch off HomeSiren and then perform the standard adding procedure.

Request for connection to the hub is transmitted for a short time at the time of switching on the device.

If the connection to the Ajax hub failed, the siren will switch off after 6 seconds. You may repeat the connection attempt then. To retry the connection, you do not need to turn off the device.

The siren connected to the hub will appear in the list of devices of the hub in the application. Update of the siren statuses in the list depends on the device inquiry time set in the hub settings, with the default value — 36 seconds.

States

Siren states can be found in the Ajax app:

1. Go to the **Devices** tab.
2. Select **HomeSiren** from the list.

Parameter	Value
Temperature	Temperature of the device. Measured on the processor and changes gradually. Acceptable error between the value in the app and the room temperature — 2°C. The value is updated as soon as the detector identifies a temperature change of at least 2°C. You can configure a scenario by temperature to control automation devices **Learn more**
Jeweller Signal Strength	Signal strength between the hub/range extender and siren.

	We recommend installing the siren in places with the signal strength of 2-3 bars
Connection	Connection status between the hub/range extender and siren: • **Online** — the siren is connected to the hub/range extender • **Offline** — the siren is not connected to the hub/range extender
ReX range extender name	Displayed if the siren is working via a **radio signal range extender**
Battery Charge	Battery level of the device. Two states available: • OK • Battery discharged **How battery charge is displayed in Ajax apps**
Lid	The tamper mode of the device, which reacts to the detachment of or damage to the body
Alarm Volume	Volume level in case of alarm • **Muted** — the siren does not sound when the alarm is raised • **Quiet** — 80 dB volume • **Loud** — 93 dB volume • **Very loud** — 100 dB volume The volume level is measured 1 m away from the siren
Alarm Duration	Duration of the audible alarm: from 3 seconds to 3 or 15 minutes.

	Alarm duration of more than 3 minutes is available only for HomeSiren Jeweller with firmware version NA 5.60.4.14 or higher.
LED indication	LED indication of the siren settings: • **Off** — LED indication is off • **Armed** — the siren blinks only when alarm is enabled • **Always** — the siren blinks regardless of the state of the security system ## More about indication
Beeps Settings	Shows the siren beeps settings.
Beep When Arming/Disarming	If active, the siren notifies you about the activation and deactivation the system of the guard mode by the LED and a short sound signal
Notify about switching the Night mode on/off	When enabled, the siren notifies you when the system is on and off the Night mode by flashing the LED and making a short beep
Beep on Entry/Exit delay	If activated, siren will beep delays (available in devices with **firmware version 3.51.0 and later**)
Notify about the entry/exit delay in the Night mode	If this option is enabled, the siren beeps to signal about an entry/exit delay in the Night mode
Chime on opening	When enabled, a siren notifies about opening detectors triggering in the Disarmed system mode ## What is chime
Beep Volume	Displayed if the notifications about arming/disarming, entry/exit delay, and opening are activated. Shows the siren volume level for notifications.

Permanent Deactivation	Shows the status of the device: active, completely disabled by the user, or only notifications about triggering of the device tamper button are disabled
Firmware	Device firmware version
Device ID	Device identifier
Device No.	Number of the device loop (zone)

Settings

To change the HomeSiren settings in the Ajax app:

1. Select the hub if you have several of them or if you are using the PRO app.
2. Go to the **Devices** tab.
3. Select **HomeSiren** in the list.
4. Go to **Settings** by clicking on the ⚙.
5. Set the required parameters.
6. Click **Back** to save the new settings.

Audible alarmSelecting when to enable audible alarm:

- **Always** — a siren activates an audible alarm regardless of the system's security state.
- **Only when armed** — an audible alarm is activated only if the system or the group to which a siren is assigned is armed.

Setting is available for hubs with the firmware version OS Malevich 2.16 or later.

Setting	Value
First field	Siren name that can be edited. The name of device you can see at notifications in the event feed. The name can contain up to 12 Cyrillic characters or up to 24 Latin symbols
Room	Selecting the virtual room to which HomeSiren is assigned. The room name you can see at notifications in the event feed
Alarms in Group Mode	Selecting the group to which the siren is assigned. You can select one or all groups: • **When assigned to a group**, the siren and its indication are related to alarms and events of this group • **When attached to all groups**, the siren and its indication are related to alarms and events of all groups in the system Regardless of the group selected, the siren will respond to Night Mode activation and alarms Learn more
Alarm Volume	Volume level in case of alarm: • **Muted** — the siren does not sound when the alarm is raised • **Quiet** — 80 dB volume • **Loud** — 93 dB volume • **Very loud** — 100 dB volume The volume level is measured 1 m away from the siren
Alarm Duration	Duration of the audible alarm: from 3 seconds to 3 or 15 minutes.

	Sets in increments of 3 seconds. **Alarm duration of more than 3 minutes is available only for HomeSiren Jeweller with firmware version NA 5.60.4.14 or higher.**
LED indication	LED indication of the siren settings: • **Disabled** — LED indication is off • **Armed** — LED blinks once every 2 seconds only when the system is armed • **Constantly** — LED blinks once every 2 seconds regardless of the mode state **More about indication**
Beeps Settings	Opens the siren notification settings. A detailed description of the settings is **available below**
Volume Test	Switches the device to the volume test mode **What is Volume Level Test**
Jeweller Signal Strength Test	Switching the siren to the Jeweller signal strength test mode. The test allows you to check the signal level between the hub and HomeSiren and determine the optimal installation location **What is Jeweller Signal Strength Test**
Signal Attenuation Test	Switches the siren to the signal fade test mode (available in devices with **firmware version 3.5.0 and later**) **What is Attenuation Test**
User Guide	Opens the HomeSiren User Manual
Permanent Deactivation	Allows the user to disconnect the device without removing it from the system.

	Three options are available: • **No** — the device operates normally and transmits all events • **Entirely** — the device will not execute system commands or participate in automation scenarios, and the system will ignore device alarms and other notifications • **Lid only** — the system will ignore only notifications about the triggering of the device tamper button Learn more about permanent deactivation of devices
Unpair Device	Disconnects the siren from the hub and deletes its settings

Siren beep settings

Event	Meaning
Beep on armed mode change	
Arming/Disarming	When this option is enabled, the siren warns of arming and disarming by lighting of the LED frame and by a short beep
Night mode Activation/Deactivation	If enabled, the siren alerts you by backlighting the LED frame and a short beep when arming and disarming the system from the Night mode What is Night mode
Mute the device when code on keypad is being entered	Available for HomeSiren Jeweller with firmware versions from

	5.60.4.0 to 6.0.0.0 and from 6.56.3.37 or later, operating with hubs with OS Malevich 2.19 or higher. Mutes the annunciation beeps once the user starts to enter a passcode on the keypad. This feature allows users to focus on the system disarming.
Beep on delays Available for HomeSiren Jeweller with firmware versions 3.51.0.0 or later.	
Entry Delays	If this option is enabled, the siren beeps to signal about an entry delay **What is Delay When Entering/Leaving**
Exit Delays	If this option is enabled, the siren beeps to signal about an exit delay **What is Delay When Entering/Leaving**
Entry Delays in Night Mode	If this option is enabled, the siren beeps to signal about an entry delay in the Night mode **What is Night mode** **What is Delay When Entering/Leaving**
Exit Delays in Night Mode	If this option is enabled, the siren beeps to signal about an exit delay in the Night mode **What is Night mode** **What is Delay When Entering/Leaving**

Fast beep on delays	
Fast beep on Entry delay expiration	Available for HomeSiren Jeweller with firmware versions from 5.60.4.0 to 6.0.0.0 and from 6.56.3.37 or higher, operating with hubs with OS Malevich 2.19 or later. Notifies the user that the **Delay When Entering** time is running out. There are 4 options to choose from when the fast beep should start: • **Never** • **Last 5 seconds** • **Last 10 seconds** • **Last 15 seconds**
Fast beep on Exit delay expiration	Available for HomeSiren Jeweller with firmware versions from 5.60.4.0 to 6.0.0.0 and from 6.56.3.37 or higher, operating with hubs with OS Malevich 2.19 or later. Notifies the user that the **Delay When Leaving** time is running out. There are 4 options to choose from when the fast beep should start: • **Never** • **Last 5 seconds** • **Last 10 seconds**

	• **Last 15 seconds**
Beep when disarmed	
Chime on opening	When enabled, the siren beeps 1 to 4 times to indicate that opening detectors in the Disarmed system mode were triggered What is Chime How to set up Chime
Beep volume	Selecting the volume level of the siren at the time of notification on arming/disarming or delay when entering/leaving and opening: • **Quiet** — 80 dB volume • **Loud** — 93 dB volume • **Very loud** — 100 dB volume The volume level was measured 1 m away from the siren

Setting up the processing of detector alarms

Through the Ajax app, you can configure which detector alarms can activate the siren. This can help to avoid situations when the security system notifies of LeaksProtect detector alarm or any other device alarm. The parameter is adjusted in the detector or device settings:

1. Sign in to the Ajax app.
2. Go to the **Devices** menu.
3. Select the detector or device.
4. Go to its settings and set the necessary parameters for activating the siren.

Setting the tamper alarm response

The siren can respond to the tamper alarm of devices and detectors. The option is disabled by default. Note that the tamper reacts to the opening and closing of the body even if the system is not armed!

What is a tamper

For the siren to respond to tamper triggering, in Ajax app:

1. Go to the **Devices** menu.
2. Select the hub and go to its settings.
3. Select the **Service** menu.
4. Go to **Sounds and Alerts**.
5. Enable the **Alert with a siren if the hub or detector lid is open** option.

Setting the response to pressing the panic button in the Ajax app

The siren can respond to pressing the panic button in Ajax apps. Note that the panic button can be pressed even if the system is disarmed!

For the siren to respond to pressing the panic button:

1. Go to the **Devices** menu.
2. Select the hub and go to its settings.
3. Select the **Service** menu.
4. Go to **Sounds and Alerts**.
5. Enable the **Alert with a siren if in-app panic button is pressed** option.

Setting the siren after-alarm indication



The siren can inform about triggerings in the armed system by means of LED indication.

The option functions as follows:

1. The system registers the alarm.
2. The siren plays an alarm (duration and volume depend on settings).
3. The siren LED and external LED (if connected) blinks twice (about once every 3 seconds) until the system is disarmed.

Thanks to this feature, system users and security companies patrols can understand that the alarm has occurred.

> The siren after-alarm indication does not work for always active detectors, if the detector was triggered when the system was disarmed.

To enable the siren after-alarm indication, in Ajax PRO app:

1. Go to siren settings:

- Hub → Settings → Service → Sounds and Alerts.

2. Specify what events the sirens will inform about by double blinking before the security system is disarmed:

- Confirmed alarm
- Unconfirmed alarm
- Lid opening

3. Select the sirens needed. Go back to **Sounds and Alerts.**
. The set parameters will be saved.

4. Click **Back**. All values will be applied.

> HomeSiren with firmware 5.55.2 and later supports this function.

Setting specific alerts on Alarm Cancellation and Alarm Abort

> Selecting devices to alert on Alarm Cancellation and Alarm Abort is only available in Ajax PRO apps. Settings are available for hubs with firmware version OS Malevich 2.19 or higher.

You can select which devices should beep if the alarm is cancelled and which should beep if the alarm is aborted in the hub settings in PRO apps. The **Alarm Cancellation Annunciation** and **Alarm Abort Annunciation** features are required for systems that should comply with ANSI/SIA CP-01-2019 standard.

To select the devices to annunciate on alarm cancellation and alarm abort in the Ajax PRO app:

1. Select the required hub and go to:

- Settings → Service → Arming/Disarming Process

2. Ensure that **ANSI/SIA CP-01-2019** is selected for the **Compliance with Standard** setting.
3. Select the devices for **Specific alert on Alarm Cancellation** and **Specific alert on Alarm Abort** options.
4. Click **Back** to apply the settings.

Features are available for HomeSiren Jeweller with firmware versions from 5.60.4.0 to 6.0.0.0 and from 6.56.3.37 or higher.

How to set Chime

Chime is a sound signal that indicates the triggering of the opening detectors when the system is disarmed. The feature is used, for example, in stores, to notify employees that someone has entered the building.

Notifications are configured in two stages: setting up sirens and setting up opening detectors.

Learn more about Chime

HomeSiren with firmware 5.55.1.0 and later supports this function.

Siren settings

1. Go to the **Devices** menu.
2. Select the siren.
3. Go to its settings by clicking the gear icon in the upper right corner.
4. Go to the **Beeps Settings** menu.

5. Scroll down and enable the **Chime on opening** option in the **Beep when disarmed** category.
6. Set the volume of the notifications. 3 options are available:

- Quiet (80 dB at a distance of 1 m).
- Loud (93 dB at a distance of 1 m).
- Very loud (100 dB at a distance of 1 m).

> The specified **Beep volume** also applies to the volume of siren notifications when arming/disarming and for the entry/exit delays.

7. Click **Back** to save the settings.
8. Repeat steps 2–7 for other sirens on which you want to enable the notifications.

Detectors settings

1. Go to the **Devices** menu.
2. Select the detector.
3. Go to its settings by clicking the gear icon in the upper right corner.
4. Go to the **Chime Settings** menu.
5. Select the events to be notified by the siren:

- If a door or a window is open.
- If an external contact is open (available if the External Contact option is enabled).

6. Select the chime sound (siren tone): 1 to 4 short beeps. Once selected, the Ajax app will play the sound.
7. Click **Back** to save the settings.

8. Repeat steps 2–7 for other detectors on which you need to enable the notifications.

Indication



Event	Indication
Alarm	Emits an acoustic signal (the duration depends on the settings) and all LED signaling ceases
An alarm was detected in the armed system (if after-alarm indication is enabled)	The siren LED and external LED (if connected) blinks twice approximately every 3 seconds until the system is disarmed.The indication turns on after the siren has completely played the alarm signal configured in settings
Switching on the device	LED lights up once
Switching off the device	LED will light up for 1 second, then blink three times
Registration failed	LED lights up and goes out, then the siren switches off
Security system set in the armed mode (if the indication is activated)	Blinks once with a LED and emits a short sound signal
Security system is disarmed (if the indication is activated)	Blinks twice with a LED and emits two short sound signals
Siren in the armed mode (if the indication is activated)	LED lights up for a short time every 3 seconds
Battery low	LED smoothly lights up and goes out when the system is armed or disarmed (if the indication is

	activated), the tamper is actuated or alarm is given

Performance testing

The Ajax system allows conducting tests for checking the functionality of connected devices.

The tests do not start straight away but within a period of 36 seconds when using the standard settings. The test time start depends on the settings of the devices scanning period (the paragraph on “**Jeweller**” settings in hub settings).

Volume Level Test

Jeweller Signal Strength Test

Attenuation Test

Installing the Siren

Location of the HomeSiren determines its remoteness from the hub and presence of any obstacles between the devices, hindering the radio signal and sound transmission: walls, inserted floors, large-size objects located within the room.

The device developed only for indoor use.

Check the signal level at the installation location.

The communication range is up to 2000 meters if there are no obstacles. Please consider it when choosing an installation place for HomeSiren.

If the signal level is one division, we cannot guarantee stable operation of the security system. Take possible measures to improve the quality of the signal! As a minimum, move the device — even 20 cm shift can significantly improve the quality of reception.

If after moving the device still has a low or unstable signal strength, use a **radio signal range extender**.

Recommended installation height — 2.5 meters and more. This will complicate the access to the device for intruders in case of intrusion.

Installation process

1. Fix the SmartBracket panel on the surface using bundled screws. After selecting other attachment hardware, make sure that they do not damage or deform the panel.



> The double-sided adhesive tape may be only used for temporary attachment of the siren. The tape will run dry in course of time, which may result in the falling and damage of the device.

2. Put the siren on the SmartBracket panel and turn it clockwise. When installing in the attachment panel, the tamper will switch and the siren will blink with a LED.

If the light indicator of the siren is not actuated after installation in SmartBracket, check the tamper mode in the Ajax Security System application and then the fixing tightness of the device on the panel.

In case of any attempt to dismount the siren, you will receive the notification.

Do not install the siren:

1. outside the premises (outdoors)
2. in places where the acoustic signal will be attenuated (inside furniture, behind thick curtains, etc.)
3. nearby any metal objects or mirrors causing attenuation and screening of the signal
4. within any premises with the temperature and humidity beyond the range of permissible limits
5. closer than 1 m from the hub.

External LED connection

The outside-mounted LED connected to the HomeSiren is paralleled with the built-in LED of the device and completely repeats its indication.

For connection, use the contact on the rear side of the siren body and observe the polarity during the connection. Black terminal wire — “**+**” contact.

Outlet power supply: 3 V, 10 mA.

Siren Maintenance and Battery Replacement

Check the operational capability of the HomeSiren on a regular basis.

Clean the siren body from dust, spider web and other contaminations as they appear. Use soft dry napkin suitable for equipment maintenance.

Do not use for cleaning the siren any substances containing alcohol, acetone, gasoline and other active solvents.

The batteries installed in the siren ensure up to 5 years of autonomous operation (with the inquiry frequency by the hub of 1 minute) or at least 6 hours of the buzzer sound. If the battery is discharged, the security system will send respective notices and the LED will smoothly light up and goes out when the armed mode is activated.

How long Ajax devices operate on batteries, and what affects this

Battery Replacement

Technical specifications

All technical specifications of HomeSiren Jeweller

Compliance with standards

Complete Set

1. HomeSiren
2. SmartBracket mounting panel
3. Battery CR123A (pre-installed) — 2 pcs
4. LED connection clamp
5. Installation kit
6. Quick start guide

Warranty

Warranty for the Limited Liability Company “Ajax Systems Manufacturing” products is valid for 2 years after the purchase and does not apply to the pre-installed battery.

If the device does not work correctly, you should first contact the support service — in half of the cases, technical issues can be solved remotely!

The full text of the warranty

User Agreement

Technical support: **support@ajax.systems**

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