Superior StreetSiren DoubleDeck Jeweller User manual

Updated March 11, 2026

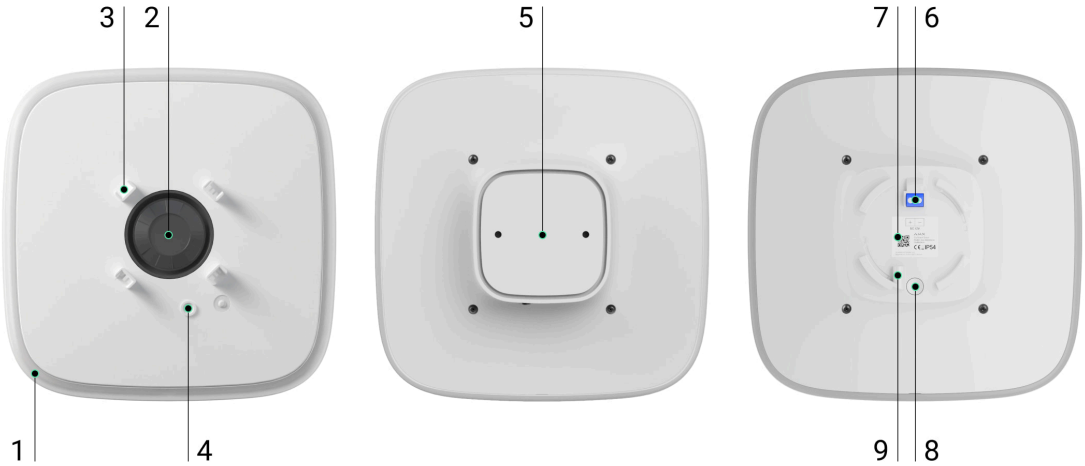
Superior StreetSiren DoubleDeck Jeweller is a wireless outdoor and indoor siren with a mount for the branded faceplate. It is equipped with a LED frame and piezoelectric alarm indicator that produces sound volume up to 113 dB. It can also be powered from a remote 12 V⎓ power supply.

Superior StreetSiren DoubleDeck Jeweller operates within the Ajax system, connected to a **hub** via two protected radio protocols. The siren uses **Jeweller** to transmit alarms or events and **Wings** to transmit photos and update firmware. The communication range in an open space is up to 1,500 meters. **Superior StreetSiren DoubleDeck Jeweller** operates for up to 5 years from a pre-installed battery.

This product line is developed for projects. Only accredited Ajax Systems partners can sell, install and administer **Superior** products.

Superior, **Fibra**, and **Baseline** product lines are mutually compatible. This opens up numerous possibilities for building systems of any configuration.

Functional elements



1. LED frame.

2. Piezoelectric alarm indicator.

3. Latches for mounting Brandplate.

4. Place to secure Brandplate with a screw.

5. SmartBracket mounting panel.

6. Terminals to connect a third-party power supply unit.

7. QR code with the device ID/serial number.

8. On/off button.

9. Place to secure the SmartBracket panel with a holding screw.

Brandplate is sold separately.

Compatible hubs and range extenders

The device requires an Ajax hub with **OS Malevich 2.16** or later.

Check device compatibility

Operating principle

0:00 / 0:12

Superior StreetSiren DoubleDeck Jeweller performs four tasks:

1. **Informs about the alarms**. The siren responds to system alarms and tamper or accelerometer triggering, enabling a buzzer and LED backlight to scare off intruders and attract attention.
2. **Indicates the security status**. With a LED indication, the siren can notify that the object is armed and inform with a sound signal and backlight about **delays when entering/leaving**.
3. **Notifies of opening**.(**Chimes**). Sirens with a particular sound inform you about 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 premises.
4. **Notifies of triggering until the system is disarmed**. The lower right corner of the siren's LED frame flashes after the sound signal. Thanks to this option, users and passing patrols of security companies can see that the system was triggered.

Alarm volume and duration

By alarm, the siren sounds from 3 seconds to 3 minutes, emitting a sound volume of 85 to 113 dB. In the Ajax apps, you **can set** the duration and volume of the alarm, as well as determine which devices will activate the siren.

Protection against sabotage

Superior StreetSiren DoubleDeck Jeweller is equipped with a **tamper** button and an accelerometer. The tamper button is triggered when the device enclosure is opened/broken, and the accelerometer is triggered when somebody attempts to move or dismantle the device.

In the event of sabotage, the users and the security company know exactly which siren the intruders are trying to disable. The notifications contain the following:

- The hub name (name of the protected object).
- The incident time.
- The siren's name.
- The alarm type.
- The **virtual room** to which the device is assigned.

When installed properly, it is hard to dismount and disconnect an activated siren: its enclosure is robust, the buzzer is protected, and power is from the bundled batteries, so the siren will continue to work even if there is a power outage at the object. Also, the power button is blocked if the system is armed, preventing the siren from being turned off.

Jamming detection

Superior StreetSiren DoubleDeck Jeweller features a radio interference detection algorithm. When a potential jamming attempt occurs, the algorithm

detects a sudden increase or decrease in the noise level. It takes into account not only the amplitude of the noise but also the duration over time. This helps to differentiate between short, temporary disruptions caused by environmental factors and sustained interference indicative of intentional jamming.

When Superior StreetSiren DoubleDeck Jeweller detects a potential jamming signal, it initiates a signal analysis to confirm the presence of jamming. If confirmed, it activates an alarm.

When the **Radio Interference Detection** function is activated, the security company and users will receive a notification of a sabotage attempt, and the sound of a siren will scare away the intruders.

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. The siren uses **Jeweller** to transmit alarms and events and **Wings** to transmit photos and update the firmware.

Learn more

Firmware update

A firmware update is available for Superior StreetSiren DoubleDeck Jeweller with firmware version **10.XX.XX.XX** or later.

If a new firmware version for Superior StreetSiren DoubleDeck Jeweller is available, the icon appears in Ajax apps in the **Devices** tab. An admin or a PRO with access to the system settings can run an update via device **states** or **settings**. The on-screen instructions help to update the firmware successfully.

Adding to the system

Superior StreetSiren DoubleDeck Jeweller is incompatible with Hub and third-party security control panels.

To connect **Superior StreetSiren DoubleDeck Jeweller** to the hub, the device must be located at the same secured facility as the system (within the range of the hub radio network). For the detector to work via **ReX** or **ReX 2** radio signal range extender, you must first add the detector to the hub, then connect it to **ReX** or **ReX 2** in the settings of the range extender.

The hub and the device operating at different radio frequencies are incompatible. The radio-frequency range of the device may vary by region. We recommend purchasing and using Ajax devices in the same region. You can check the range of operating radio frequencies with the technical support service.

Before adding a device

1. Install an **Ajax PRO app**.
2. Log in to a **PRO account** or create a new one.
3. Select a space or create a new one.

What is a space

How to create a space

The **space** functionality is available for apps of such versions or later:

- Ajax Security System 3.0 for iOS;
- Ajax Security System 3.0 for Android;
- Ajax PRO: Tool for Engineers 2.0 for iOS;
- Ajax PRO: Tool for Engineers 2.0 for Android;

- Ajax PRO Desktop 4.0 for macOS;
- Ajax PRO Desktop 4.0 for Windows.

4. Add at least one virtual room.
5. 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.
6. Ensure the space is disarmed, and the hub is not starting an update by checking statuses in the Ajax app.

> This product line is developed for projects. Only accredited Ajax Systems partners can install, and administer Superior products.

Connecting to the hub

1. Open an **Ajax PRO app**. Select the hub where you want to add the device.
2. Go to the **Devices** tab in the Ajax app and click **Add Device**.
3. Name the device, scan, or type in the QR code (placed on the device and the package box), and select a room and a group (if **Group mode** is enabled).

4. Click **Add**.

5. Switch on the device by holding the power button for 3 seconds. The hub sends the connection request only when the siren turns on.

The power button is recessed into the enclosure and is tight to press. You can use a thin, hard object, like a pencil, to press it.

For detection and pairing to occur, Superior StreetSiren DoubleDeck Jeweller must be within the hub's radio communication range, i.e., at the same guarded object.

Superior StreetSiren DoubleDeck Jeweller shuts down automatically 6 seconds after turning on if it fails to connect to the hub. There is no need to deactivate the device to retry the connection. If Superior StreetSiren DoubleDeck Jeweller has already been assigned to another hub, turn off the siren and follow the standard addition procedure.

The connected siren will appear in the list of hub devices in the app. Updating device statuses in the list depends on the ping time defined in Jeweller settings. The default value is 36 seconds.

Up to 10 sirens or keypads with a built-in siren can be connected to one hub.

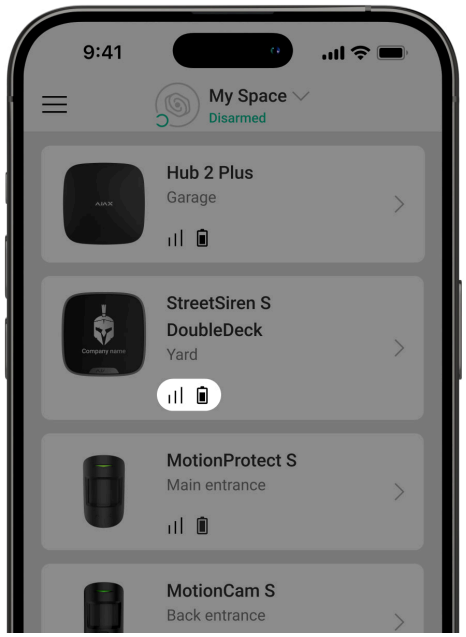
Malfunctions

When a malfunction is detected, the Ajax app displays a malfunction counter on the device icon. All malfunctions are shown in the device states. Fields with malfunctions will be highlighted in red.

A malfunction is displayed if:

- The device temperature is outside acceptable limits.
- The device enclosure is open (tamper is triggered).
- 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 accelerometer of the device is faulty.
- The device battery is low.

Icons



The icons display some **Superior StreetSiren DoubleDeck Jeweller** states. To access them:

1. Sign in to the **Ajax app**.

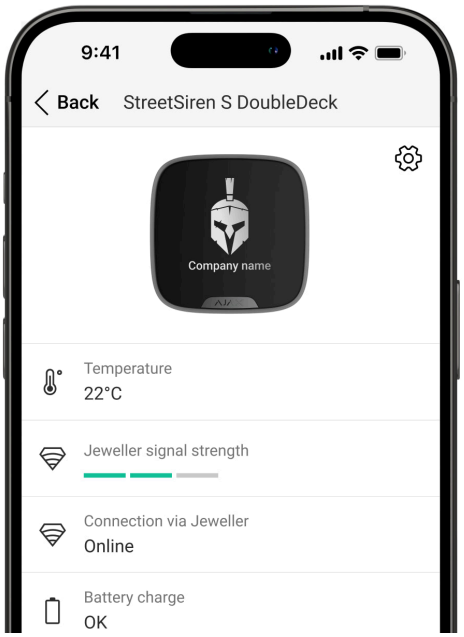
2. Select the hub.

3. Go to the **Devices** tab.

Icon	Meaning
	Jeweller signal strength. Displays the signal strength between the hub and the detector. The recommended value is 2–3 bars. **Learn more**
	The detector battery charge level is OK, or it is charging. **Learn more**
	The device has a malfunction. The list of malfunctions is available in the device states. **Learn more**
RE	Displayed when the detector is operating via a **radio signal range extender**.
	A firmware update is available. Go to the device states or settings to find the description and launch an update.
Updating	Firmware update in progress: downloading/installing the latest version.
	New firmware installation has failed.
	The device is in the signal attenuation test mode. **Learn more**
	Siren is permanently deactivated. **Learn more**

	Siren has tamper triggering events permanently deactivated. **Learn more**
	Siren is deactivated until for a time the armed mode is active. **Learn more**
	Siren has tamper triggering events deactivated for a time the armed mode is active. **Learn more**
Offline	The device has lost connection with the hub or the hub has lost connection with the Ajax Cloud server.
Not transferred	The device has not been transferred to the new hub. **Learn more**

States



Siren states can be found in the Ajax app:

1. Go to the **Devices** tab.
2. Select **Superior StreetSiren DoubleDeck Jeweller** from the list.

Parameter	Meaning
Firmware update	A firmware update is available for Superior StreetSiren DoubleDeck Jeweller with firmware version **10.XX.XX.XX** or later. The field is displayed when the firmware update is available: • **New firmware version available** — the new firmware is available for download and installation. • **Downloading...** — firmware downloading is in progress. It is displayed as a percentage. • **Installing...** — the firmware is being installed. • **Failed to update firmware** — the new firmware could not be installed. Tapping on ⓘ opens more information about the device's firmware update.

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	Clicking on ⓘ opens the list of the devices malfunctions. The field is displayed only if a malfunction is detected.
Temperature	The acceptable error between the value in the app and the temperature at the installation site: 2°C. The value is updated as soon as the module detects a temperature change of at least 1°C. You can create a scenario by temperature to control automation devices. Learn more
Jeweller Signal Strength	Signal strength between the siren and the hub (or the range extender) via the Jeweller channel. The recommended value is 2–3 bars. Jeweller is a protocol for transmitting **Superior StreetSiren DoubleDeck Jeweller** events and alarms.

Connection via Jeweller	Connection status between the hub/range extender and Superior StreetSiren DoubleDeck Jeweller: • **Online** — the siren is connected to the hub/range extender. • **Offline** — the siren is not connected to the hub/range extender.
Wings signal strength	Wings signal strength between the device and the hub (or the range extender). The recommended value is 2–3 bars.
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. • **Offline** — the device is not connected to the hub or the range extender. Check the device connection.
Transmitter power	Displays the selected power of the transmitter. The parameter appears when the **Max** or **Attenuation** option is selected in the **Signal attenuation test** menu. Learn more
ReX	Displays the status of using a radio signal range extender. The field is not displayed if the siren works directly with the hub.

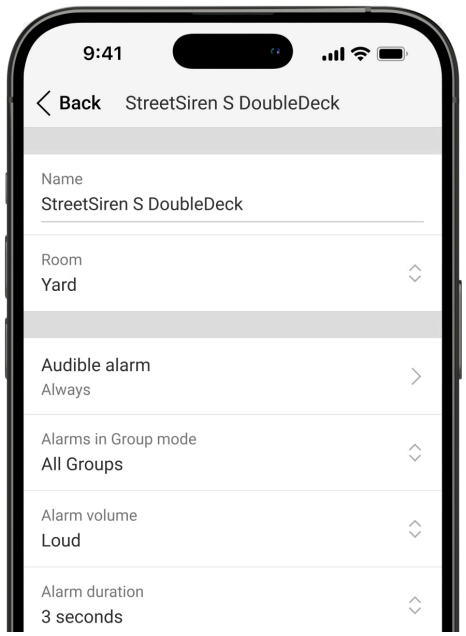
Battery Charge	Battery level of the device. Two states available: • **OK.** • **Battery discharged.** When the batteries are discharged, the Ajax apps and the security company will receive appropriate notifications How battery charge is displayed in Ajax apps
Lid	The status of the device tamper, which reacts to the detachment of or damage to the enclosure: • **Open** — the siren was removed from the SmartBracket, or its integrity was compromised. Check the device. • **Closed** — the siren is installed on the SmartBracket mounting panel. The integrity of the device enclosure and the mounting panel is not compromised. Normal state. What is a tamper
External Power	External power supply status of the siren: • **Connected** — remote 12 V⎓ power supply is connected to the siren. • **Disconnected** — siren powered by pre-installed batteries.
Alarm Volume	Volume level in case of alarm: • **Muted** — the siren does not sound when the alarm is raised. • **Quiet** — 85 dB volume. • **Loud** — 100 dB volume.

	• **Very loud** — 113 dB volume. The volume level was measured 1 m away from the siren.
Alarm Duration	Duration of sound signal in case of alarm: from 3 seconds to 3 minutes. Sets in increments of 3 seconds.
Alert If Moved	Alarm when the accelerometer is triggered. When enabled, the siren is triggered if you turn the enclosure or detach the device from the mount. If the accelerometer is faulty, the system will not notify about the siren displacement.
LED indication	Settings of the siren LED indication: • **Off** — LED indication is off. • **Armed** — the device's LED frame flashes once every 3 seconds when the system is in Armed mode. • **Always** — the LED frame of the device flashes once every 3 seconds, regardless of the siren security mode.
Beeps Settings	
Arming/Disarming	When enabled, the siren notifies about arming and disarming by flashing the LED and a short beep.
Night Mode Activation/Deactivation	When enabled, the siren notifies you when the **Night Mode** is switched on/off by flashing the LED and making a short beep.
Entry Delays	When enabled, the siren beeps about **Delays When Entering** with a short beep.

Exit Delays	When enabled, the siren beeps about **Delays When Leaving** with a short beep.
Entry Delays in Night Mode	When enabled, the siren beeps to signal about a delay when entering in the **Night Mode**.
Exit Delays in Night Mode	When enabled, the siren beeps to signal about a delay when leaving in the **Night Mode**.
Chime on opening	When enabled, a siren notifies about opening detectors triggering in the **Disarmed** system mode. **Learn more**
Beep Volume	Volume of the audible notification signal about arming/disarming, entry/exit delay, opening detector triggering: • **Quiet** — 85 dB volume. • **Loud** — 100 dB volume. • **Very loud** — 113 dB volume. The volume level was measured 1 m away from the siren.
Permanent Deactivation	Shows the status of the siren permanent deactivation setting: • **No** — the siren operates in the normal mode. • **Lid only** — the hub administrator has disabled notifications about triggering of the siren tamper. • **Entirely** — the siren is entirely excluded from the operation of the system. The device does not execute system commands and does not report alarms or other events. **Learn more**

One-Time Deactivation	Shows the status of the siren one-time deactivation setting: • **No** — the siren operates in the normal mode. • **Lid only** — notifications on the siren tamper triggering are disabled until the first disarm. • **Entirely** — the siren is entirely excluded from the operation of the system until the first disarm. The siren does not execute system commands and does not report alarms or other events. Learn more
Firmware	Siren firmware version.
Device ID	Siren ID. Also available on the back of the siren casing and its packaging.
Device No.	Number of the device loop (zone).

Settings



To change **Superior StreetSiren DoubleDeck Jeweller** settings in the Ajax apps:

1. Go to the **Devices** tab.
2. Select **Superior StreetSiren DoubleDeck Jeweller** from the list.
3. Go to **Settings** by clicking on the gear icon.
4. Set the required parameters.
5. Click **Back** to save the new settings.

Settings	Meaning
Name	Name of the device. Displayed in the list of hub devices, text of SMS and notifications in the events feed. To change the name of the device, click 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 **Superior StreetSiren DoubleDeck Jeweller** is assigned. The room name is displayed in the text of SMS and notifications in the events feed.
Audible Alarm	• Always. • Only when armed.
Alarm Volume	The siren responds to system alarms with the selected volume: • **Muted** — the siren does not sound when the alarm is raised. • **Quiet** — 85 dB volume.

	• **Loud** — 100 dB volume. • **Very loud** — 113 dB volume. The volume level is measured 1 m away from the siren.
Alarms in Group Mode	Selecting the group to which the siren is assigned. You can select all groups or just one: • **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 Duration	Duration of sound signal in case of alarm: from 3 seconds to 3 minutes. Sets in increments of 3 seconds.
Alert If Moved	Alarm when the accelerometer is triggered: the siren is triggered if you turn the enclosure or detach the device from the mount. The built-in accelerometer takes 60 seconds to remember the normal position. Do not rush to check the performance of the function before this time expires.
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. Learn more
Radio Interference Detection	If the function is activated, the security company and users will receive a notification of a sabotage attempt.
Beeps settings	Opens the siren notification settings. A detailed description of the settings is available below.
Jeweller Signal Strength Test	Switches the device to the signal strength test mode. Learn more
Wings signal strength test	Switches the device to the Wings signal strength test mode. The test allows you to check the signal strength between the hub (or the radio signal range extender) and the device via the wireless Wings data transfer protocol to select the optimal installation site. Learn more
Volume Test	Switches the siren to the volume test mode. Learn more
Signal Attenuation Test	Switches the device to the signal attenuation test mode. Learn more

User Guide	Opens Superior StreetSiren DoubleDeck Jeweller user manual in the Ajax app.
Permanent Deactivation	Allows the user to disable 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 only ignore notifications about the triggering of the device tamper button. Learn more The system can also automatically deactivate devices when the preset number of alarms is exceeded or when the recovery timer expires. Learn more
One-Time Deactivation	Allows the user to disable events of the device until the first disarm. Three options are available: • **No** — the device operates in the normal mode. • **Lid only** — notifications on the tamper triggering are disabled for a time the armed mode is active. • **Entirely** — the device is entirely excluded from the system's operation when the armed mode is active. The device does not execute system commands or alarms or other events.

	Learn more
Unpair Device	Unpairs Superior StreetSiren DoubleDeck Jeweller, disconnects it from the hub, and deletes its settings.

Siren beeps settings

Parameter	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**. Learn more
Mute the device when code on keypad is being entered	Available for Superior StreetSiren DoubleDeck Jeweller with firmware versions from 5.60.5.0 to 6.0.0.0 and from 6.56.1.57 or higher, 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	

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 Superior StreetSiren DoubleDeck Jeweller with firmware versions from 5.60.5.0 to 6.0.0.0 and from 6.56.1.57 or higher, operating with hubs with OS Malevich 2.19 or higher. 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 Superior StreetSiren DoubleDeck Jeweller with firmware versions from 5.60.5.0 to 6.0.0.0 and from 6.56.1.57 or higher, operating with hubs with OS Malevich 2.19 or higher. 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 this option is enabled, the siren informs you with a short beep that the opening detectors are triggered in the **Disarmed** system mode. Learn more
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** — 85 dB volume. • **Loud** — 100 dB volume. • **Very loud** — 113 dB volume. The volume level was measured 1 m away from the siren.

Setting up the processing of detector alarms

In Ajax apps, you can separately configure the siren's reaction to the alarms of each detector in the system. The function is helpful if you do not need to activate the siren in case of the alarm of a specific device, for example, to LeaksProtect water leak detector triggering.

To set the siren response to a device alarm:

1. Open the Ajax app.
2. Go to the **Devices** tab.
3. Select the device for which you want to configure the siren response from the list.
4. Go to the device **Settings**.
5. Find the **Alert with a siren** option and select the toggles which will activate it. Enable or disable the function.
6. Repeat steps 3-5 for the rest of the system devices.

By default, the siren response is enabled for alarms of all devices in the system.

Setting the tamper alarm response

In Ajax apps, you can configure the siren's response to enclosure alarms of each system device. When the function is activated, the siren will emit a sound signal when triggering the tamper button or the accelerometer of the device.

To set the siren response to a tamper alarm:

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 body 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.

> The panic button can be pressed even if the system is not armed.

To set the siren response to the panic button:

1. Go to the **Devices** tab in the Ajax app.
2. Select a 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 panic button is pressed in the app** option.

Setting the siren after-alarm indication

0:00 / 0:02

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 lower right corner of the siren LED frame blinks twice (about once every 3 seconds) until the system is disarmed.

Thanks to this feature, system users and passing security companies patrols can see that the system was triggered.

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

- Confirmed intrusion/hold-up alarm
- Single intrusion/hold-up alarm
- Lid opening

3. Select the sirens needed. Go back to **Led Indication**. The set parameters will be saved.
4. Click **Back**. All values will be applied.

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 Superior StreetSiren DoubleDeck Jeweller with firmware versions from 5.60.5.0 to 6.0.0.0 and from 6.56.1.57 or higher.

Learn more about ANSI/SIA CP-01-2019 system requirements

** Superior StreetSiren DoubleDeck Jeweller is not certified according to ANSI/SIA CP-01-2019.*

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.

How to setup Chimes

Indication

0:00 / 0:05

Event	Indication

Alarm	The siren emits an acoustic signal and the LED frame blinks red. The duration and volume of the alarm, as well as the presence of LED indication, depends on the siren settings.
An alarm was detected in the armed system (if after-alarm indication is enabled)	The siren LED frame blinks red twice in the lower right corner about 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 LED frame blinks red once.
Switching off	The LED frame lights up red for 1 second and then blinks 3 times.
Hub connection failed	The LED frame blinks 6 times in the lower right corner. Then the whole LED frame blinks 3 times, and then the siren turns off.
Security system is armed (if indication is enabled)	The LED frame blinks once, and the siren emits a short beep.
Security system is disarmed (if indication is enabled)	The LED frame blinks twice and the siren emits two short beeps.
Siren in the armed mode (if indication is enabled)	The LED in the lower right corner lights up every 2 seconds. When the remote power supply is connected, the LED frame in the lower right corner lights constantly.
Battery low	The LED in the lower right corner lights up and goes out when arming and disarming, alarming, dismantling, or opening the siren.

Functionality test

The Ajax system offers several tests to help select the device installation place. Tests do 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 at hub settings (**Hub** → **Settings** ⚙ → **Jeweller** or **Jeweller/Fibra**).

To run a test in the Ajax app:

1. Select the required hub.
2. Go to the **Devices** ▪ tab.
3. Select **Superior StreetSiren DoubleDeck Jeweller** from the list.
4. Go to **Settings** ⚙.
5. Select a test:
    - Jeweller Signal Strength Test.
    - Wings Signal Strength Test.
    - Signal Attenuation Test.
    - Volume Level Test.
6. Run the test.

Device placement

The placement of Superior StreetSiren DoubleDeck Jeweller determines its distance from the hub and the presence of obstacles that impede the passage of the radio signal: walls, inter-floor constructions, or large-sized objects in the room.

When choosing a place, consider the audibility of the siren, as well as the visibility of its LED indication, as this determines the device's performance.

Superior StreetSiren DoubleDeck Jeweller withstands heat, cold, and temperature drops. The sealed enclosure is certified and complies with protection class IP55. The outdoor siren is protected from rain and snow and can be installed on the facade of the building without a canopy.

Signal strength

The Jeweller and Wings signal strength is determined by the number of undelivered or corrupted data packages over a certain period of time. The icon ıll on the **Devices** tab 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 stable operation of the device. Consider to relocate the device as repositioning even by 20 cm can significantly improve the signal strength. If there is still poor or unstable signal after the relocation, use a radio signal range extender.

How not to install a siren

1. Near glass break detectors. The siren sound may trigger an alarm.

2. In places where the audio signal of the siren can be jammed.
3. In places where the LED indication of the siren will not be visible.
4. Near the metal objects and mirrors. They can shield and attenuate the radio signal.
5. Closer than 1 meter from the hub or radio signal range extender. This can lead to a loss of communication with the device.
6. In a place with a low signal level. This may result in the loss of the connection with the hub.

Installation

Connecting a third-party power supply unit

When connecting a third-party power supply unit and using Superior StreetSiren DoubleDeck Jeweller, follow the general electrical safety regulations for using electrical appliances and the requirements of regulatory legal acts on electrical safety.

Superior StreetSiren DoubleDeck Jeweller runs on pre-installed batteries for up to 5 years and is equipped with terminals for connecting a 12 V⎓ power supply unit.

> ⚠ Before installing the device, be sure to check the insulation of the wires for damage. Use only a grounded power source. It is strictly forbidden to disassemble the device under voltage! Do not use the device with a damaged power cable.

To connect a third-party power supply unit:

1. Drill a hole for a cable anywhere in the indicated area of the SmartBracket mounting panel.

2. Route the dead power supply unit cable through the mounting panel.
3. Connect the cable to the terminal strips observing polarity.

4. Turn on power — the **External Power Supply** field value changes to **Connected** in Superior StreetSiren DoubleDeck Jeweller statuses.
5. Install the siren.

After connecting a remote power supply, do not remove the batteries from the siren: they act as a backup power source.

> The system will notify about the need for service when the battery level drops to 20%.

Mounting Brandplate

To mount the faceplate:

1. Turn off the remote power of the siren if connected.
2. Unscrew the fixing screw from the bottom of the siren with a PH2 screwdriver if the siren is mounted on the SmartBracket mounting panel.

3. If the SmartBracket mounting panel is fixed to the surface, remove the siren: turn it counterclockwise and pull. If the mounting panel is not fixed to the surface, turn the panel counterclockwise and remove it from the siren.

4. Turn off the device by pressing the power button for 3 seconds.

5. Turn off the remote power supply (if applicable) by unscrewing the terminal blocks and disconnecting the power wires.

6. Place the front side of the siren on a hard surface and unscrew the 4 screws on the rear panel with a PH2 screwdriver.

7. Turn the siren over while holding the front and back of the body. Remove the protective plastic panel.

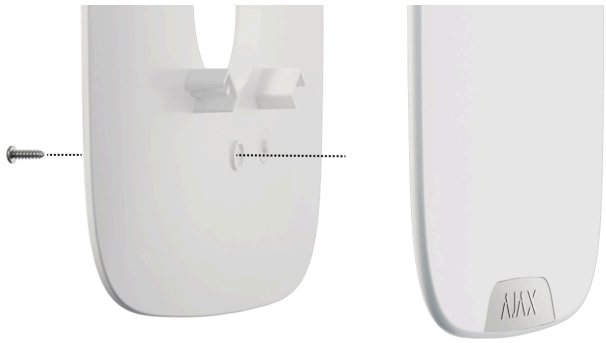
When installing the panel, do not remove the plastic frame and do not remove the LED strip from the seat!

8. Drill a hole in the plastic protective plate at the defined location.

The non-hardening sealant may be on the piezoelectric sensor and in the hole of the protective plastic panel. Do not wipe it! If the sealant contaminates your hands, wipe it off with a napkin.

9. Mount Brandplate on the protective plastic panel.

10. Fix Brandplate to the protective plastic panel using the bundled bolt.



11. Fit the protective plastic panel in place (the Ajax logo on the connection side of the LED strip to the board) with little effort. The properly mounted plastic panel will protrude above the LED frame no more than 1 to 1.5 mm.

12. Turn the siren over while holding the front and back of the enclosure, and tighten 4 screws.

13. Turn on the siren and check the status of tampers in the app.

Siren mounting

Before mounting the siren, be sure to choose the optimal location that meets the requirements of this manual.

The recommended installation height is 2.5 meters or more. This will make it difficult for intruders to access the device. If you try to detach the device from the mount, the system will raise an alarm. The security company and users will receive a notification of a sabotage attempt, and the siren will scare away the intruders.

To install a siren:

1. Fasten the SmartBracket mounting panel to the surface using the bundled screws. When using other fasteners, ensure they do not damage or deform the panel.

> Double-sided tape can only be used for temporary installation. The device attached by the tape may come unstuck from the surface at any time. As long as the device is taped, the tamper will not be triggered when the device is detached from the surface.

2. Mount the siren on SmartBracket and turn it clockwise.

3. Secure the siren with a screw. This reduces the risk of burglary.

Maintenance

Check the functioning of the device regularly. Clean the device enclosure of dust, cobwebs, and other contaminants as they emerge. Use soft dry wipes suitable for equipment care.

Do not use any substances containing alcohol, acetone, petrol, and other active solvents to clean the device.

The batteries installed in the siren provide up to 5 years of battery life. When the batteries are discharged, the system will send a corresponding notification, and the LED frame in the lower right corner will light up and go out when the system is arming and disarming (if the indication is disabled), when alarming, dismantling, or opening the siren enclosure.

How to replace batteries in Superior StreetSiren DoubleDeck Jeweller

Technical Specifications

All technical specifications of Superior StreetSiren DoubleDeck Jeweller

Compliance with standards

Setup in compliance with EN requirements

Setup in compliance with ANSI/SIA CP-01-2019 requirements

Warranty

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

If the device does not function correctly, please contact the Ajax Technical Support first. In most cases, technical difficulties can be resolved remotely.

Warranty obligations

User agreement

Contact Technical Support:

- e-mail

- **Telegram**

Manufactured by “AS Manufacturing” LLC