

Superior StreetSiren DoubleDeck Jeweller

Wireless outdoor and indoor siren with a clip lock for a branded faceplate. Superior edition

Expanded features, reliability, and compliance for PROs	
Superior is a project-oriented product line. It includes advanced wireless versions of Jeweller devices. Experience exceptional features, cutting-edge hardware, improved certification compliance, effortless installation, and more.	
The Superior difference	
Baseline	Superior
StreetSiren DoubleDeck Jeweller	Superior StreetSiren DoubleDeck Jeweller
Compliance with international security standards	Compliance with both international and local security standards
Common batteries	Enhanced batteries for stable operation in any temperature
No jamming detection	Jamming detection
Available for all PROs	Available only for accredited partners

Alarms on time. Advertising all the time

Superior StreetSiren DoubleDeck Jeweller is designed to inform users and security companies about alarms while also advertising security services. It is equipped with an LED frame and a piezoelectric alarm indicator that produces sound volumes¹ of up to 113 dB. The siren alerts users to delays when entering/leaving and system security statuses and can even notify them when a door opens. The siren is flexible in its settings, making it suitable for both quiet gated communities and loud industrial areas. With its easy-to-install Brandplate faceplate, security or installation companies can display their logo, name, phone number, or site. This serves as additional advertising visible to passersby and neighbors.

Key features

Advertising for a security, installation, or service company	Easy-to-install Brandplate front panel	Bright LED frame	Chime ³ feature
Adjustable volume of alarms and notifications	Adjustable alarm duration ²	IP54 enclosure	After-alarm indication
		Jamming detection	
Terminals for connecting an external power supply	Tamper to react to enclosure opening and accelerometer to detect attempts to move or dismount the siren	Up to 1,500 m (4,900 ft) of wireless communication range with an Ajax hub or range extender ⁴	Up to 5 years of operation on the pre-installed enhanced batteries
Jeweller radio communication	Remote control and configuration	Two colors	Fixing screw for attaching the siren to the mount
Power adjustment Frequency hopping		Push notifications Lid is open, Superior StreetSiren DoubleDeck Jeweller in	

Encryption TDMA Two-way communication Power adjustment		Backyard	
		Hassle-free installation QR code SmartBracket App	Compliance EN 50131 (Grade 2) PD 6662:2017 INCERT SSF

In an Ajax system, you can combine devices of all product categories: Intrusion protection (both Superior and Baseline), Video surveillance, Fire and life safety, or Comfort and automation. Create the system to suit your needs and manage it in a single interface.

This is a device of the Superior product line. Only accredited Ajax Systems partners can sell, install, and administer Superior products.

How to order Brandplate

Brandplate is sold in batches (10 pcs), separately from Superior StreetSiren DoubleDeck Jeweller. The panel is available in black or white and is compatible with both wired and wireless StreetSiren DoubleDeck. When ordering four Brandplate batches (40 pcs) or more, you get a free print of one design on all panels. Compose your Brandplate layout in 3 steps using the Brandplate constructor.

To order Brandplate, please contact the Ajax Systems partner in your region.

Wherever one needs to be informed

Office	Cafe	House	School	Store	Warehouse	Wind turbine	Medical center
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One device. Five missions

Informs of any alert The siren deters intruders and notifies of fire detection, water leaks, and other alarms. An installer can set up the detector that triggers the LED and sound indication. The volume can be changed remotely via the app. The sound can also be muted, leaving only the LED alarm indication.	Indicates the delays Superior StreetSiren DoubleDeck Jeweller can be set to indicate a delay when entering or leaving. If the feature is on, the built-in LED frame and sound remind a user that the site needs to be disarmed.	Displays a security mode The siren’s LED frame can turn on to show that the site is armed or that the system’s security mode has changed or can always be on to avoid unwanted tracking. This is convenient for those who control the security system using a keypad or key fob. Also, the sound indication can be used to notify when the security mode is changed.	Notifies of the door opening Superior StreetSiren DoubleDeck Jeweller can make a special sound to indicate that the opening detectors are triggered when the site is disarmed. It is a Chimes feature, and it is perfect for stores. Employees will be immediately notified that new visitors have entered.	Signals the after-alarms When activated, the LED frame indicates confirmed and unconfirmed alarms and lid openings until the site is disarmed.
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Discover future-proof hardware

Latches for mounting Brandplate	Place for fixing Brandplate with a screw	LED frame	Piezoelectric alarm indicator with sound volume of up to 113 dB	Tamper button	Accelerometer	Terminals for connecting an external power supply	Pre-installed enhanced batteries	SmartBracket mounting panel	Fixing points for mounting the siren	Place for fixing the siren with a screw
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The right protection for every setting

Superior StreetSiren DoubleDeck Jeweller is flexible when it comes to settings. It is as relevant in a quiet gated community as in a loud industrial area. The piezoelectric alarm indicator can be set to generate sound¹ from 85 to 113 dB for an adjustable period: from 3 seconds to 3 minutes. Alternatively, it can be completely silent when the device is set to respond to alarm triggers only with an LED indication. The Ajax app allows installers to choose which detectors activate the siren, helping to prevent awkward situations where neighbors are notified every time a washing machine leaks.

- Alarm indicator loudness¹ level of up to 113 dB
- Alarm duration of up to 3 minutes

Weatherproof

Superior StreetSiren DoubleDeck Jeweller is resistant to heat, cold, and rapid temperature changes. Its hermetically sealed enclosure has been rated IP54 level of ingress protection. The outdoor siren is ready to withstand exposure to rain or snowfall and can be installed on exterior walls without a canopy.

- Withstands heat of up to +60 °C (140 °F)
- Withstands cold of up to -25 °C (-13 °F)
- IP54-rated: the siren is protected from dust and precipitation

Stable performance in heat and cold

The Superior devices are equipped with high-quality batteries from proven manufacturers only. In addition to real-time testing during battery production, Ajax Systems inspects every unit to ensure the accuracy of the batteries' characteristics. The temperature range does not affect the capacity, as the batteries provide stable performance at temperatures from -25 °C to +60 °C. (-13 °F to 140 °F)

- Minimal impact of threshold temperatures on battery life
- High quality proven by regular tests
- Up to 5 years of autonomous operation

Unique wireless technology

An Ajax system uses two-way secure radio communication based on the **Jeweller** proprietary protocol. It provides block cipher encryption and device authentication at each communication session with the hub to prevent sabotage, spoofing, or data theft.

- Up to 1,500 m (4,900 ft) of radio communication with a hub or range extender⁴
- Encrypted two-way radio communication
- Notifications of jamming and connection loss

Scaled and comprehensive

For complex radio signal conditions, the **ReX Jeweller** range extender **boosts the range** of all Ajax devices and manages their communication with the hub via Jeweller. And **ReX 2 Jeweller** assures stable communication even through steel and concrete via **Ethernet** using the wire as the additional communication channel. **Up to 5 range extenders** can operate within one Ajax system to expand the network twice as big, covering multistorey buildings with underground parking and basements.

Up to 5 range extenders within one system
Ethernet as an alternative communication channel

- Big estate and large facilities
- Business center with underground parking
- Sectional metal hangar
- Warehouse or industrial complex

System supervision

All Ajax devices perform automatic self-diagnosis and report their states to a hub. Essential parameters, including tamper, communication, power supply, and sensor statuses, are continuously monitored. The Ajax Cloud server controls communication between the hub and Ajax apps, ensuring instant notifications for alarm receiving centers (ARCs), security companies, and users. In case of any malfunction or connection failure, an engineer is informed immediately to provide necessary services.

- Automatic device self-diagnosis with status report
- Regular polling to display the current device state on apps
- Instant maintenance notifications

Sabotage resistance

Tamper alarm and accelerometer The tamper button is triggered when the siren enclosure is opened. With the appropriate settings, other sirens in the system will also respond to a tamper alarm. The accelerometer is activated when someone tries to move or dismount the device.	Data encryption All data the system stores and transmits is protected by block encryption featuring a dynamic key. This encryption deters intentional sabotage attempts on the detector.
Data-rich notifications The Ajax system instantly delivers informative notifications of alarms and events. Security companies and users receive precise details about the incident, including the triggered device, along with the time and location.	Device authentication against spoofing The hub checks the siren's unique parameters for authentication during each communication session. If any parameter fails the check, the hub ignores device commands.
Regular polling The device regularly exchanges data with the hub. The system controls each device state and reports if there is a malfunction or connection loss.	Connection loss detection With minimal polling interval settings (3 data packages in 12 seconds), it takes 36 seconds to identify connection loss and notify the security company and users of the incident.
Protected enclosure The siren enclosure is designed to minimize the impact of vandals and the environment on its operation. A dense enclosure with special sealing bands and sealant provides weather protection and is certified with an IP54 rating. Durable plastic and metal grating ensure additional security. Secure mounting prevents the siren from being detached from the wall.	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.

Effortless installation and setup

Superior StreetSiren DoubleDeck Jeweller is ready to operate straight out of the box. Using the SmartBracket panel, an installer can effortlessly mount the device, eliminating the need to disassemble the enclosure. Ajax apps help quickly make the device a part of the system: simply pair the siren with the hub by scanning the QR code. It can always be reconfigured remotely without the need for on-site visits.

Connection	Installation	Setup	Monitoring
Pairing with the hub by scanning the QR code	The SmartBracket mounting panel: no need to disassemble the enclosure	Configuring and testing in mobile and desktop apps	The PRO Desktop app for macOS and Windows

¹ The volume level was measured 1 meter (3.3 ft) away from the siren.

² From 3 seconds to 3 minutes.

³ The Chime feature requires an opening detector to operate. [Learn more about Chime.](#)

⁴ In an open space.