

Superior ReX G3 Jeweller user manual

Updated March 24, 2026



Superior ReX G3 Jeweller is a wireless radio signal range extender with support for photo verification and Ethernet connection. The range extender communicates with the hub via Ethernet and two secure radio protocols: Jeweller and Wings. The communication range is up to 3,500 m in open space. The device is designed for indoor use only and complies with EN 50131 (Grade 3) requirements.

Superior ReX G3 Jeweller can operate autonomously for 16 or 60 hours, depending on the battery. The backup battery is not included in the complete set. Only compatible batteries can be used: **Superior**

Internal Battery (16h) or Superior Internal Battery (60h).

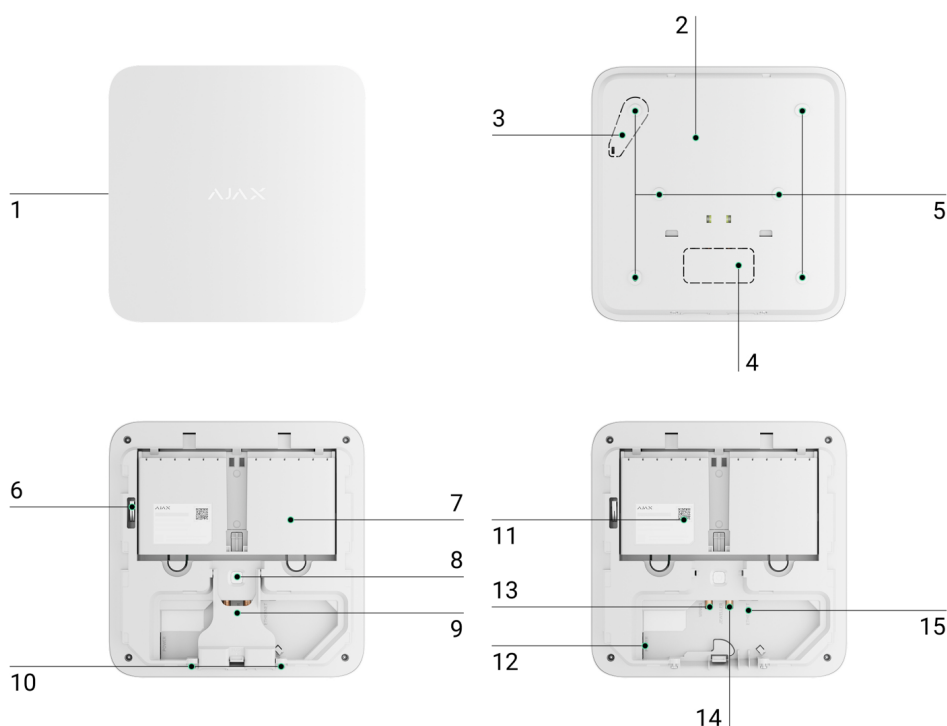
Superior ReX G3 Jeweller is a device of the Superior product line. Only accredited Ajax Systems partners can sell, install, and maintain Superior products.

 [Buy Superior ReX G3 Jeweller](#)

 [Buy Superior Internal Battery \(16h\)](#)

 [Buy Superior Internal Battery \(60h\)](#)

Functional elements



1. LED logo indicating the range extender state.

2. SmartBracket mounting panel.
3. Perforated part of the enclosure. It is required for the tamper button to trigger in case of any attempt to detach the device from the surface. Do not break it off.
4. Perforated parts of the enclosure for running power wires and antenna cables.
5. Holes for attaching SmartBracket to the surface.
6. Tamper button.
7. Slot for Internal battery (not included).
8. Power button.
9. Strain relief clip.
10. Holding screws for securing the range extender to SmartBracket.
11. QR code with the device ID. It is used to add the range extender to the space.
12. Power cable socket.
13. External antenna connector for Wings communication channel (SMA female connector).
14. External antenna connector for Jeweller communication channel (SMA female connector).
15. Ethernet cable socket.

Compatible hubs

The device requires an Ajax hub with OS Malevich 2.35 or later.



Check device compatibility

Operating principle



Superior ReX G3 Jeweller extends the system radio communication range, allowing Ajax devices to be installed at a greater distance from the hub. Superior ReX G3 Jeweller communicates with the hub using radio technology (Jeweller and Wings protocols) or via Ethernet cable if the devices are within the same network.

Superior ReX G3 Jeweller receives signals from the hub, transmits them to the connected devices, and sends signals from the devices to the hub. The hub polls the range extender with a frequency of 12 to 300 seconds. The polling interval depends on the settings and is 36 seconds by default. Superior ReX G3 Jeweller polls all connected devices with the same frequency.



Regardless of the settings, all alarms are delivered in less than 0.3 seconds.



The communication range between Superior ReX G3 Jeweller and the connected device is limited by the device's radio signal range. It is provided in the device's technical specifications available on the website and in the user manual.

If the device loses communication with the range extender, it does not automatically connect to another range extender or hub.

Communication protocols

The range extender communicates with the connected devices and the hub using three encrypted protocols:

- **Superior Jeweller** is an upgraded radio protocol for Superior devices, ensuring compliance with EN 50131 (Grade 3). It features advanced encryption and frequency hopping. Full frequency hopping is available only when all devices in the system use Superior Jeweller. If at least one device operates via the regular Jeweller protocol, the system will be limited to **Grade 2**: encryption remains, but frequency hopping is disabled.
- **Jeweller** is a radio protocol for transmitting events and alarms from Ajax wireless devices without Superior Jeweller support.



[Learn more about Jeweller](#)

- **Wings** is a radio protocol for transmitting large data packets, such as firmware updates and photos.



[Learn more about Wings](#)

The communication range is up to 3,500 m without obstacles: walls, doors, or inter-floor constructions.

Advanced encrypted communication

The communication between Superior ReX G3 Jeweller and a hub and between Superior ReX G3 Jeweller and devices is protected by an advanced encryption scheme that ensures data confidentiality and integrity. This means that all sensitive data in the message is encrypted, and each message includes a unique authentication tag allowing the system to verify that the data has not been modified during transmission. The system can reliably detect tampering and reject forged or altered messages, providing robust protection against both passive and active attacks. This ensures secure communication between the device and the hub, as well as reliable system and data protection.



[Learn more about advanced encrypted communication](#)

Frequency hopping

To comply with the Grade 3 requirements, Superior ReX G3 Jeweller uses **frequency hopping** for radio communication with the hub and devices. With this method, the hub and devices added to it change their operating frequency according to a defined pattern. The hopping sequence covers a defined set of channels within the

operating bands, and devices switch frequencies synchronously with the hub. Even if some channels are affected by jamming, messages can be transmitted successfully via other channels. Frequency hopping improves the system's reliability and performance and ensures its resistance to intentional interference and jamming attempts.

Frequency hopping does not cause delays or pauses during radio communication and does not reduce the data transfer speed. If **range extenders** are added to the system, the frequency hopping is used for all radio communications: "device ↔ range extender" and "range extender ↔ hub".



The system uses frequency hopping for radio communication only if all wireless devices support this method.

If at least one device added to the system does not support frequency hopping, the hub and all devices switch to the operating frequencies of that device and do not use frequency hopping for radio communication.

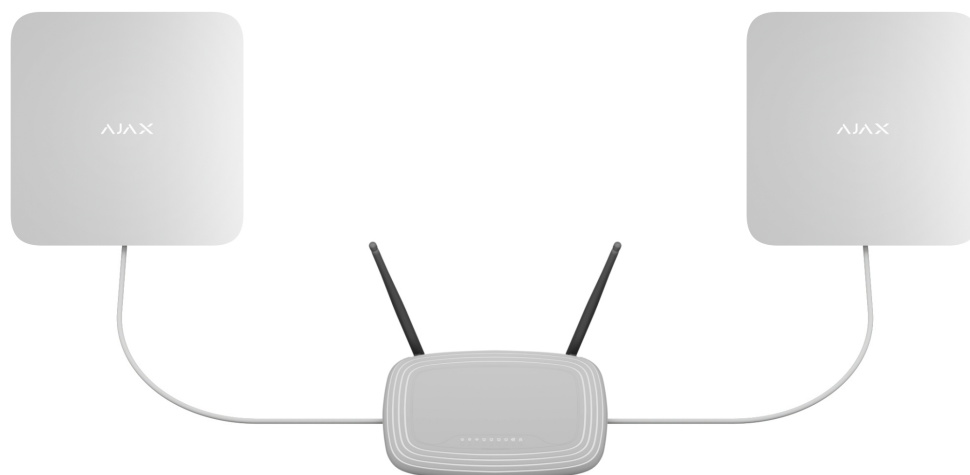


[Learn more about frequency hopping](#)



[Learn more about jamming](#)

Connection via Ethernet



Superior ReX G3 Jeweller supports connection to the hub via radio protocols and Ethernet. With the cable connection, a single Ajax system can cover sites such as an office center with underground parking, a metal hangar, or a warehouse complex consisting of several large buildings. Ethernet can be the only communication channel or work in parallel with Jeweller and Wings. If Superior ReX G3 Jeweller connects to the hub via both Ethernet and radio communication channels, Ethernet is prioritized.

To communicate via Ethernet, the hub and Superior ReX G3 Jeweller must be connected to the same network through a router, which is needed to assign an IP address to the range extender. The network to which Superior ReX G3 Jeweller connects must allow broadcast queries and have an open 4269 port for all types of traffic.



Connecting Superior ReX G3 Jeweller directly to the hub via an Ethernet cable is not provided.

Superior ReX G3 Jeweller can work with both static and dynamic IP addresses. If the range extender cannot establish an Ethernet

connection with the hub, the Superior ReX G3 Jeweller states will display a malfunction. For convenience, the MAC address of the range extender is also available in the error details, which can be used to locate and resolve the problem.



The system sends a communication loss notification in two cases: if the hub completely loses connection with the range extender, and if the hub loses connection with the range extender via the photo transmission channel. If communication is lost **only via Jeweller** or **only via Wings** (when Ethernet is connected), no notification is sent.

Support for photo verification

Detectors with support for photo verification can connect to Superior ReX G3 Jeweller. The range extender can transmit not only events and alarms but also photos taken by such detectors.

Photo delivery time via the range extender depends on the communication channel with the hub, the detector type, and the image resolution.

Photo delivery time via the Wings radio protocol:

Detector	Photo resolution, px	Photo delivery time via range extender ¹ , s
<u>Superior MotionCam AM (PhOD) Jeweller</u>	160 × 120	up to 11
	320 × 240	up to 18
<u>Superior MotionCam HD (PhOD) Jeweller</u>	640 × 480 (by default)	up to 39

	960 × 720	up to 53
<u>MotionCam (PhOD) Jeweller</u>	160 × 120	up to 8
	320 × 240	up to 18
<u>Superior MotionCam (PhOD) Jeweller</u>	(by default)	
<u>MotionCam Jeweller</u>	640 × 480	up to 31
<u>MotionCam Outdoor Jeweller</u>	320 × 176 (by default)	up to 13
	640 × 352	up to 30
<u>MotionCam Outdoor (PhOD) Jeweller</u>	320 × 176 (by default)	up to 37
	640 × 352	up to 50
<u>MotionCam Outdoor HighMount (PhOD) Jeweller</u>	320 × 176 (by default)	up to 20
	640 × 352	up to 38

¹ Values are calculated assuming that the hub is working via Ethernet or 4G, and there are three bars of a signal level between Superior ReX G3 Jeweller and the detector, as well as between the hub and Superior ReX G3 Jeweller. If you use the Photo on demand feature, there may be a short delay (up to 3 seconds) before the detector takes a photo.

Photo delivery time via Ethernet:

Detector	Photo resolution, px	Photo delivery time via range extender ² , s
<u>Superior MotionCam AM (PhOD) Jeweller</u> <u>Superior MotionCam HD (PhOD) Jeweller</u>	160 × 120	up to 4
	320 × 240	up to 5.5
	640 × 480 (by default)	up to 13
	960 × 720	up to 17.5
<u>MotionCam (PhOD) Jeweller</u> <u>Superior MotionCam (PhOD) Jeweller</u>	160 × 120	up to 6
	320 × 240 (by default)	up to 10
	640 × 480	up to 16
	160 × 120	up to 6
<u>MotionCam Jeweller</u>	320 × 240 (by default)	up to 10
	640 × 480	up to 17
	320 × 176 (by default)	up to 10
<u>MotionCam Outdoor Jeweller</u>	640 × 352	up to 21
	320 × 176	up to 24

<u>MotionCam Outdoor (PhOD) Jeweller</u>	(by default)	
	640 × 352	up to 32
<u>MotionCam Outdoor HighMount (PhOD) Jeweller</u>	320 × 176 (by default)	up to 11
	640 × 352	up to 18

² Values are calculated assuming that the hub is working via Ethernet or 4G, and there are three bars of a signal level between Superior ReX G3 Jeweller and the detector. If you use the Photo on demand feature, there may be a short delay (up to 3 seconds) before the detector takes a photo.



Features of photo verification in the Ajax system

Number of range extenders and devices that can be added to the system

Up to **five** range extenders can be added to the hub. It does not matter exactly what type of range extender is used: **ReX Jeweller**, **ReX 2 Jeweller**, or **Superior ReX G3 Jeweller**. They can be added to the system in any combination within the hub limits.

Superior ReX G3 Jeweller can only be added to the hub directly. Connection to another range extender is not provided.

Superior ReX G3 Jeweller does not increase the number of devices added to the hub. The maximum number of devices connected to Superior ReX G3 Jeweller depends on the hub model.

Sending events to the monitoring station

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

Adding to the system



[Check the device compatibility](#) before the detector is added to the system. Only verified partners can add and configure Superior devices in [Ajax PRO apps](#)

[Types of accounts and their rights](#)

Before adding a device

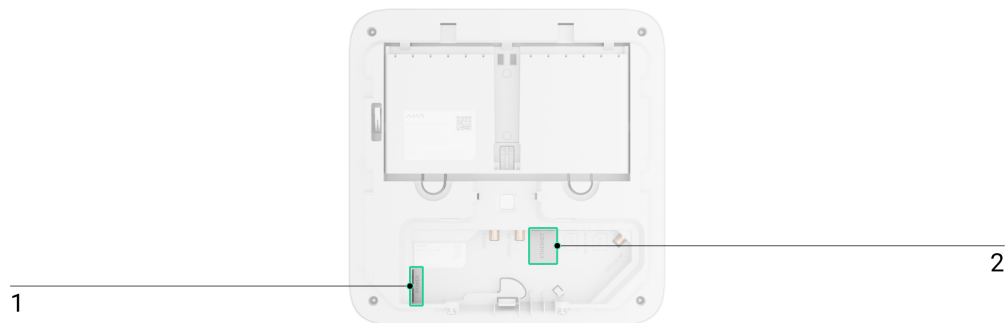
1. Install an [Ajax PRO app](#).
2. Log in to a [PRO account](#) or create a new one.
3. Select a [space](#) or create a new one.
4. Add at least one [virtual room](#).
5. Add a [compatible hub](#) to the space. Ensure the hub is switched on and has internet access via Ethernet, Wi-Fi, and/or mobile network.
6. Check the states in the Ajax app to ensure the space is disarmed and the hub is not starting an update.

To power Superior ReX G3 Jeweller and connect it to the internet:

1. Unscrew the holding screws at the bottom of the range extender. Then, remove the SmartBracket mounting panel from the range extender by pulling down the back panel.
2. Remove the strain relief clip by pressing the latch.



3. Connect Ethernet and power supply cables to the appropriate connectors.



- 1 – power cable connector.
2 – Ethernet cable connector.


4. Install the internal battery.



Use only Superior Internal Battery (16h) or Superior Internal Battery (60h). We do not guarantee correct device operation on third-party batteries, as they may cause the range extender to fail.

5. Add the range extender to the system and install it.

Adding the device to the hub

1. Open an Ajax PRO app. Select a space to which you want to add the range extender.
2. Go to the **Devices**  tab and tap **Add device**.
3. Assign a name to the range extender.
4. Scan a QR code or enter the range extender ID manually. The QR code with the device ID is placed on the device enclosure. Also, it is duplicated on the device packaging.
5. Select a virtual room and a security group (if Group mode is

enabled).

6. Tap **Add**, and the countdown will begin.
7. Switch on the device by holding the power button for 3 seconds.

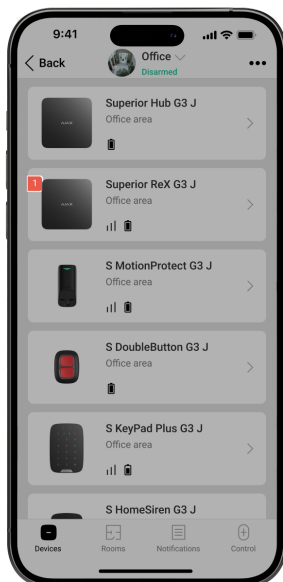
If the connection fails, try again in 5 seconds. If the maximum number of devices has already been added to the hub, you will receive an error notification when you try to add more.

Once added to the hub, the device will appear in the list of hub devices in the Ajax app. The update frequency for device states in the list depends on the **Jeweller** or **Jeweller/Fibra** settings and is 36 seconds by default.

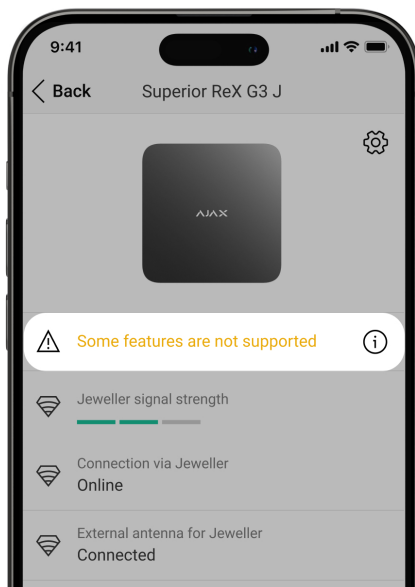


Superior ReX G3 Jeweller works with only one hub. When paired with a new hub, it stops sending events to the old one. Adding the range extender to a new hub does not automatically remove it from the device list of the old hub. This must be done through the Ajax app.

Malfunction



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

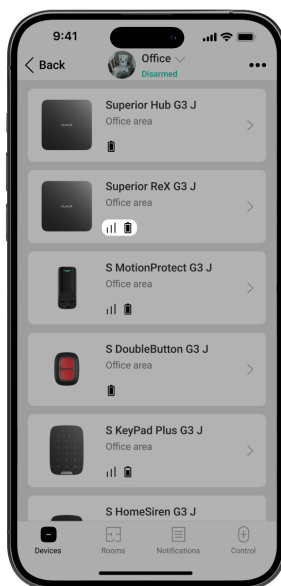



Superior ReX G3 Jeweller can notify users of malfunctions, if any. The **Malfunction** field is available in device States. Tapping on ⓘ opens the list of all malfunctions. The field is displayed if a










malfunction is detected.


Malfunction	Description	Solution
Some functions do not work.	The field is displayed if the hub and Superior ReX G3 Jeweller firmware versions do not match.	Make sure that automatic updates are enabled in the hub settings. Superior ReX G3 Jeweller updates within half an hour if the system is disarmed and a new firmware version is available on the server.

Icons

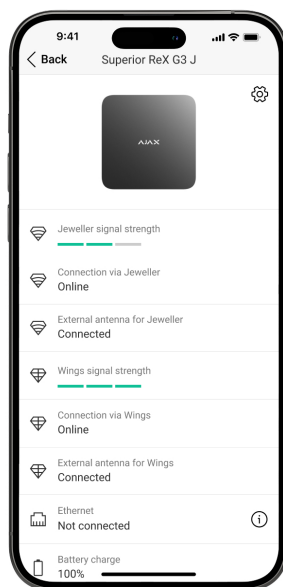


Icons in an Ajax app display some of the Superior ReX G3 Jeweller states. You can check the icons in the **Devices**  tab.

Icon	Meaning
	<p>Jeweller signal strength. It displays the signal strength between the hub and the device. The recommended value is 2–3 bars.</p> <p>Learn more</p>
	<p>Battery charge level of the device.</p> <p>Learn more</p>
	<p>The device is in the signal attenuation test mode.</p> <p>Learn more</p>
	<p>A firmware update is available. Go to the device states or settings to find the description and launch an update.</p>
	<p>A firmware update is in progress: downloading/installing the latest version.</p>
	<p>New firmware installation has failed.</p>
	<p>The device is permanently deactivated.</p> <p>Learn more</p>
	<p>Tamper alarm notifications are permanently deactivated.</p> <p>Learn more</p>
	<p>The device is deactivated until the system is disarmed for the first time.</p>

	<u>Learn more</u>
	<p>Tamper alarm notifications are deactivated until the system is disarmed for the first time.</p> <p><u>Learn more</u></p>
Offline	<p>The device has lost connection with the hub, or the hub has lost connection with the Ajax Cloud server.</p>
Not transferred	<p>The device has not been transferred to the new hub.</p> <p><u>Learn more</u></p>


States




The states include information about the device and its operating parameters. The states of Superior ReX G3 Jeweller can be found in



Ajax apps:

1. Go to the **Devices**  tab.
2. Select **Superior ReX G3 Jeweller** from the list.

Parameter	Meaning
Some features are not supported	<p>The field is displayed if the hub and Superior ReX G3 Jeweller firmware versions do not match.</p> <p>Superior ReX G3 Jeweller updates within half an hour if the system is disarmed.</p> <p>To update the firmware, it is important to have a stable:</p> <ul style="list-style-type: none"> • external power supply to the hub and the range extender; • connection between the hub and the range extender; • hub connection to the internet. <p><u>How OS Malevich updates</u></p>
Malfunction	<p>Tapping on  opens the list of device malfunctions.</p> <p>The field is displayed only if a malfunction is detected.</p>
	<p>Displays the error when transferring data to the new hub:</p>

Data import	<ul style="list-style-type: none">• Failed – the device has not been transferred to the new hub. <p><u>Learn more</u></p>
Jeweller signal strength	<p>Jeweller signal strength between Superior ReX G3 Jeweller and the hub. The recommended value is 2–3 bars.</p> <p>Jeweller is a protocol for transmitting events and alarms.</p> <p><u>Learn more</u></p>
Connection via Jeweller	<p>The state of the connection via the Jeweller channel between the hub and Superior ReX G3 Jeweller:</p> <ul style="list-style-type: none">• Online – the device is connected to the hub. Normal state.• Offline – the device is not connected to the hub. Check the device connection.
External antenna for Jeweller	<p>External antenna connection state:</p> <ul style="list-style-type: none">• Connected – the antenna is connected to a Jeweller port.• Not connected – the antenna is not connected to a Jeweller port.• Damaged – the antenna is broken.

	<div data-bbox="820 114 1358 398" style="background-color: #333; color: #fff; padding: 10px; border-radius: 10px;">  <p style="margin: 0;">External antenna breakage detection is possible only when the range extender enclosure is closed properly.</p> </div>
<p>Wings signal strength</p>	<p>Wings signal strength between Superior ReX G3 Jeweller and the hub. Recommended value is 2–3 bars.</p> <p>Wings is a protocol for transmitting photos taken by the detectors with photo verification.</p> <p><u>Learn more</u></p>
<p>Connection via Wings</p>	<p>The state of the connection via the Wings channel between the hub and Superior ReX G3 Jeweller:</p> <ul style="list-style-type: none"> • Online – the device is connected to the hub. Normal state. • Offline – the device is not connected to the hub. Check the device connection.
<p>External antenna for Wings</p>	<p>External antenna connection state:</p> <ul style="list-style-type: none"> • Connected – the antenna is connected to a Wings port. • Not connected – the antenna is not connected to a Wings port. • Damaged – the antenna is broken.

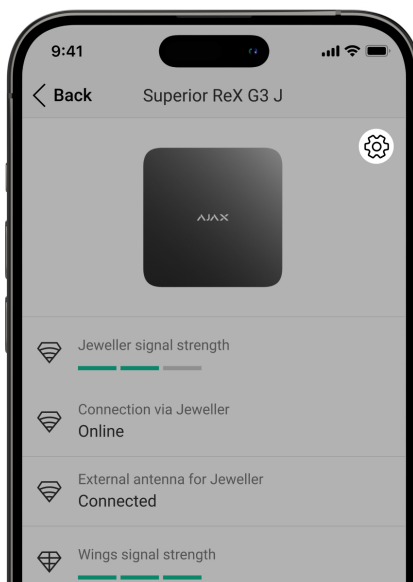
	<div data-bbox="820 114 1358 398" style="background-color: #333; color: white; padding: 10px; border-radius: 10px;">  External antenna breakage detection is possible only when the range extender enclosure is closed properly. </div>
<p>Ethernet</p>	<p>State of connection between the hub and the Superior ReX G3 Jeweller range extender via Ethernet:</p> <ul style="list-style-type: none"> • Connected – the range extender is connected. • Not connected – no connection with the range extender. • Disabled – Ethernet connection is disabled in the range extender settings. <p>Pressing the  button displays the connection information: IP Address, Subnet Mask, Gateway, and MAC Address of the range extender.</p>
<p>Transmitter power</p>	<p>Displays the selected power of the transmitter.</p> <p>The parameter appears when the Max or Attenuation option is selected in the Signal attenuation test menu.</p> <p><u>Learn more</u></p>
<p>Battery charge</p>	<p>The charge level of Superior ReX G3 Jeweller backup battery. Displayed in increments of 5%.</p>

	<p><u>Learn more</u></p>
<p>Lid</p>	<p>The tamper state of the range extender that responds to detachment or violation of the integrity of the body:</p> <ul style="list-style-type: none"> • Open – the range extender mounting panel was removed or the integrity of the device body was violated. • Closed – the range extender is installed on the mounting panel. <p><u>Learn more</u></p>
<p>External power</p>	<p>The presence of external power supply 110–240 V:</p> <ul style="list-style-type: none"> • Connected – the external power supply is connected. • Disconnected – the external power supply is disconnected.
<p>Advanced encryption</p>	<p>The state of the communication with advanced encryption between the device and the hub or radio signal range extender:</p> <ul style="list-style-type: none"> • Active – the device communication is protected by advanced encryption. • Inactive – the device communication operates without advanced encryption. <p><u>Learn more</u></p>



Permanent deactivation	<p>Shows the state of the device permanent deactivation function:</p> <ul style="list-style-type: none">• No – the device operates normally and transmits all events.• Lid only – the hub administrator has disabled notifications about the device tamper button being triggered.• Entirely – the device is completely excluded from the system operation by the hub administrator. <p>When the range extender is entirely deactivated, the paired devices continue to operate normally via Superior ReX G3 Jeweller.</p> <p><u>Learn more</u></p>
One-time deactivation	<p>Shows the state of the device one-time deactivation setting:</p> <ul style="list-style-type: none">• No – the device operates in the normal mode.• Lid only – notifications on the device tamper triggering are disabled until the first disarm.• Entirely – the device is entirely excluded from the operation of the system until the first disarm. The device does not execute system commands and does not report alarms or other events.


	<p>When the range extender is entirely deactivated, the paired devices continue to operate normally via Superior ReX G3 Jeweller.</p> <p><u>Learn more</u></p>
Firmware	<p>Superior ReX G3 Jeweller firmware version. Updated remotely as soon as the update is available on the Ajax Cloud server.</p> <p><u>Learn more</u></p>
Device ID	<p>Superior ReX G3 Jeweller ID/serial number. Also located on the device box, its board, and the body (under the SmartBracket mount).</p>
Device No.	<p>Number of the device loop (zone).</p>

Settings



To change Superior ReX G3 Jeweller settings in the Ajax apps:

1. Go to the **Devices**  tab.
2. Select **Superior ReX G3 Jeweller** in the list.
3. Go to **Settings** .
4. Set the required settings.
5. Tap **Back** to save the new settings.

Settings	Meaning
Name	<p>Superior ReX G3 Jeweller name. Displayed in the text of SMS and notifications in the event feed.</p> <p>To change the device name, tap the pencil icon .</p> <p>The name can contain up to 12 Cyrillic characters or up to 24 Latin characters.</p>

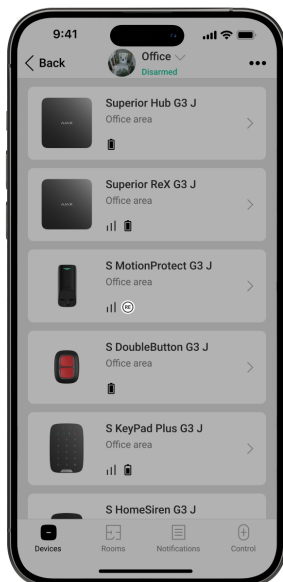
Room	<p>Selecting the virtual room to which Superior ReX G3 Jeweller is assigned.</p> <p>The room name is displayed in the text of SMS and notifications in the event feed.</p>
Ethernet	<p>Menu for connecting to the hub via Ethernet:</p> <ul style="list-style-type: none">• Connection via Ethernet – enables or disables the connection via Ethernet.• Connection settings – allows you to adjust the type of connection: DHCP or static IP address.• MAC address – shows and allows you to copy the range extender MAC address.
Jeweller/Wings communication	<p>The setting allows selecting the preferred antenna for transmitting cellular data:</p> <ul style="list-style-type: none">• Auto-switching between antennas – the range extender will prioritize Ajax <u>ExternalAntenna</u> if it is available (connected and not damaged).• External – the range extender does not switch to an internal antenna and tries to use only the external one.• Built-in – the range extender uses an internal antenna.

	<p>Enable the Mark Jeweller/Wings connection loss with malfunction badges option if you want to see the malfunction badge in the device list when the range extender loses connection via radio channels.</p>
Led indication settings	<p>Setting the brightness of the Ajax logo backlight on the range extender.</p>
Pair with device	<p>Menu for selecting devices that operate via the range extender.</p> <p>Learn more</p>
Jeweller signal strength test	<p>Switches the device to the Jeweller signal strength test mode.</p> <p>The test allows you to check the signal strength between the hub and the radio signal range extender and the device via the wireless Jeweller data transfer protocol to select the optimal installation site.</p> <p>Learn more</p>
Wings signal strength test	<p>Switches the device to the Wings signal strength test mode.</p> <p>The test allows you to check the signal strength between the hub and the radio signal range extender and the device via the wireless Wings data transfer protocol to select the optimal installation site.</p> <p>Learn more</p>



Signal attenuation test	<p>Switches the device to the signal attenuation test mode.</p> <p>Learn more</p>
User manual	<p>Opens Superior ReX G3 Jeweller user manual in the Ajax app.</p>
Permanent deactivation	<p>The setting allows a user to disable device events without removing it from the system.</p> <p>Three options are available:</p> <ul style="list-style-type: none">• 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 tamper alarm notifications only. <p>Learn more</p> <p>The system will only ignore the disabled device. The devices connected via Superior ReX G3 Jeweller will continue to operate normally.</p>
	<p>The setting allows a user to disable device events before the system is first disarmed.</p> <p>Three options are available:</p> <ul style="list-style-type: none">• No – the device operates normally


<p>One-time deactivation</p>	<p>and transmits all events.</p> <ul style="list-style-type: none"> • Entirely – the device is completely excluded from the system operation until the first disarming. The device does not execute system commands and does not report alarms or other events. • Lid only – tamper alarm notifications are disabled until the system is first disarmed. <p><u>Learn more</u></p> <p>The system will only ignore the disabled device. The devices connected via Superior ReX G3 Jeweller will continue to operate normally.</p>
<p>Delete device</p>	<p>The setting allows a user to disconnect the device from the hub and delete its settings.</p> <p>After unpairing Superior ReX G3 Jeweller, devices previously connected to it will try to reconnect to the hub.</p>

Connecting devices to Superior ReX G3 Jeweller





To assign a device to a range extender, in the Ajax app:

1. Select the space if you have several of them.
2. Go to the **Devices**  tab.
3. Select **Superior ReX G3 Jeweller** from the list.
4. Go to **Settings** by tapping the gear icon  in the upper right corner.
5. Select the **Pair with device** menu.
6. Select the devices that should operate via the range extender.
7. Tap **Back** to save the settings.

Once connected, the selected devices are displayed with the icon  in the Ajax app. The device can connect to one Superior ReX G3 Jeweller only. When the device connects to a new range extender, it automatically disconnects from the old one.

To assign the device to the hub, in the Ajax app:

1. Select the space if you have several of them.
2. Go to the **Devices**  tab.
3. Select **Superior ReX G3 Jeweller** from the list.
4. Go to **Settings** by tapping the gear icon  in the upper right corner.
5. Select the **Pair with device** menu.
6. Uncheck the devices that need to be reconnected to the hub.
7. Tap **Back** to save the settings.

Indication

The Superior ReX G3 Jeweller LED indicator can light up white, red, or green, depending on the device's state and connection via Ethernet.

Indication when connection via Ethernet is disabled

Indication	Event	Note
Lights up white.	Connection to the hub is established via at least one channel: Jeweller and/or Wings.	If the external power supply is off, the indicator will flash every 10 seconds.
Lights up red.	No connection to the hub.	If the external power supply is off, the indicator will flash every 10 seconds.

Lights up for 3 minutes, then flashes every 10 seconds.	The external power supply is disconnected.	The indication color depends on the connection to the hub.
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Indication when connection via Ethernet is enabled

Indication	Event	Note
Lights up white.	<p>Connection to the hub is established via two channels:</p> <ol style="list-style-type: none"> 1. Jeweller and/or Wings 2. Ethernet 	If the external power supply is off, the indicator will flash every 10 seconds.
Lights up green.	<p>Connection to the hub is established via at least one of two channels:</p> <ol style="list-style-type: none"> 1. Jeweller and/or Wings 2. Ethernet 	If the external power supply is off, the indicator will flash every 10 seconds.
Lights up red.	No connection to the hub.	If the external power supply is off, the indicator will flash every 10 seconds.
Lights up for 3 minutes, then flashes every 10 seconds.	The external power supply is disconnected.	The indication color depends on the connection to the hub.

Functionality testing

Superior ReX G3 Jeweller functionality tests do not start immediately, but no later than after one device polling interval (36 seconds by default). You can change this polling interval in the **Jeweller** or **Jeweller/Fibra** menu in the hub settings.

To run a test, in an Ajax app:

1. Select the space if you have several of them.
2. Go to the **Devices**  tab.
3. Select **Superior ReX G3 Jeweller**.
4. Go to **Settings** .
5. Select one of the available tests:
 1. Jeweller signal strength test
 2. Wings signal strength test
 3. Signal attenuation test

Selecting the installation site

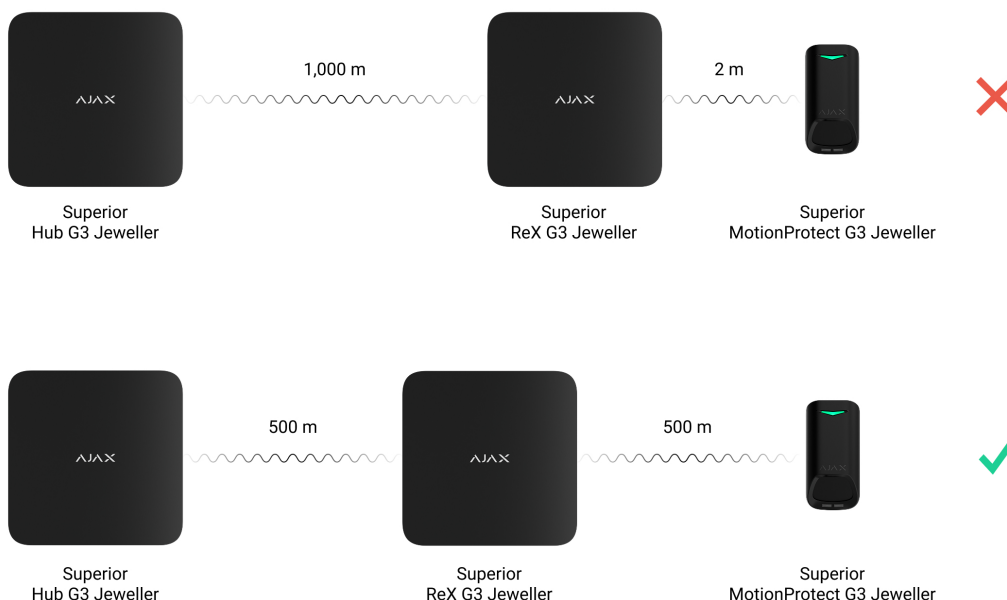
When choosing where to place Superior ReX G3 Jeweller, consider the parameters that affect its operation:

- Jeweller signal strength.
- Wings signal strength.
- The distance between the device and the hub.

Consider the signal strength between the hub and the range extender, as well as between the range extender and all devices connected to it.

Locate Superior ReX G3 Jeweller in a place with stable Jeweller and Wings signal strength (2–3 bars in the Ajax app). When choosing an installation location, consider the distance between the range extender and the hub. You should also check if there are any obstacles between the devices that could interfere with the radio signal, such as walls, intermediate floors, or large objects.

Superior ReX G3 Jeweller should be placed between the hub and a device with a weak signal. The range extender does not amplify the radio signal, so installing it near the hub or a device with a signal level of 1 or 0 bars will not produce the desired result. Our [Radio communication range calculator](#) will help you roughly calculate the signal level at the installation site.





Check the Jeweller and Wings signal strength at the installation site. If the signal strength is low (a single bar), we cannot guarantee the stable operation of the system. At the very least, relocate the device as repositioning even by 20 cm can significantly improve the signal reception.

If there is no stable signal level (2–3 bars) via Jeweller and Wings between the range extender and a hub at the installation site, use Ethernet as a main communication channel. This allows you to install range extenders in basements, metal hangars, and other places where there is no radio signal.

Ethernet can be the only communication channel or work in parallel with radio protocols. Connecting via cable and radio protocols will increase the reliability and fault tolerance of the system. If the range extender connects to the hub via both Ethernet and radio communication channels, Ethernet is prioritized.

Superior ReX G3 Jeweller should be hidden from direct view. This will help reduce the likelihood of sabotage or jamming. Also, keep in mind that the device is intended for indoor installation only.

Where not to install Superior ReX G3 Jeweller

- Outdoors. This could damage the device.
- Near the metal objects and mirrors. They can cause attenuation or shielding of the radio signal. This could result in the loss of connection between the range extender, the hub, and Ajax devices. If it is necessary to install in such condition, use [ExternalAntenna](#) to overcome obstacles to the signal.

- In places with high levels of radio interference. This could result in the loss of connection between the range extender, the hub, and wireless Ajax devices or false notifications about security system jamming. If necessary, use ExternalAntenna to move the reception spot.
- Inside premises with temperature and humidity beyond the permissible limits. This could result in a failure of the range extender.
- Less than 1 meter away from the router and power cables. This could result in the loss of connection between the range extender, the hub, and wireless devices.
- Less than 1 meter away from devices. This could result in the loss of connection between the range extender, the hub, and wireless devices.
- In places with low or unstable signal strength if Ethernet is not used as a main communication channel. This could result in the loss of connection with the hub or devices connected to the range extender.

Installation



Before installation, make sure that you have selected the optimal location for the device and that it complies with the requirements of this manual.

When installing and operating the device, follow the general electrical safety rules for using electrical appliances and the requirements of electrical safety regulations.

To install Superior ReX G3 Jeweller:

1. Prepare the place for running cables by carefully breaking off the perforated part of the Superior ReX G3 Jeweller enclosure.



2. Run power and Ethernet cables, as well as cables from ExternalAntenna (if necessary), into the enclosure through the prepared cable entry.
3. Secure the enclosure to a surface at the selected installation place with the provided screws using all fixing points. One of them is located in the perforated part above the tamper button, which is triggered if any attempt is made to detach the enclosure.
4. If necessary, connect ExternalAntenna to the appropriate communication port.



Before installation, make sure you read the [ExternalAntenna user manual](#)

5. Install the strain relief clip.
6. Put the range extender on the SmartBracket mounting panel and secure it with the provided screws.



Do not turn the range extender upside down when installing it vertically (for instance, on a wall). When the device is mounted correctly, the Ajax logo can be read horizontally.



Securing the range extender to the SmartBracket mounting panel with screws prevents any accidental displacement of the device and minimizes the risk of device theft.

If the range extender is securely fixed, any attempt to remove it will trigger the tamper button, and the system will send a notification.

Maintenance

Regularly check the functioning of Superior ReX G3 Jeweller and connected devices. The optimal frequency of checks is once every three months. Clean the device enclosure from 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, and other active solvents to clean the device.

Technical specifications



[All technical specifications of Superior ReX G3 Jeweller](#)



[Compliance with standards](#)



[Setup in compliance with EN 50131 requirements](#)

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 support service first, as most technical issues can be resolved remotely.



[Warranty obligations](#)



[User Agreement](#)

Contact Technical Support:

- **[email](#)**
- **[Telegram](#)**

Manufactured by “AS Manufacturing” LLC