MotionCam Jeweller user manual

Updated March 25, 2026

MotionCam Jeweller is a wireless motion detector that supports photo verification. Intended for indoor installation. It can recognize movement at a distance of up to 12 meters. Ignores pets when installed and configured correctly.

A hub is required for the detector to operate. Only Hub 2 Plus Jeweller and Hub 2 (4G) Jeweller are certified according to UL/ULC standards.

UL-approved models: MotionCam (9NA), MC.Y.J-000-NA.

List of compatible hubs and range extenders

MotionCam works as part of the Ajax system, communicating with the hub over two secure radio protocols: the detector uses Jeweller to transmit alarms and

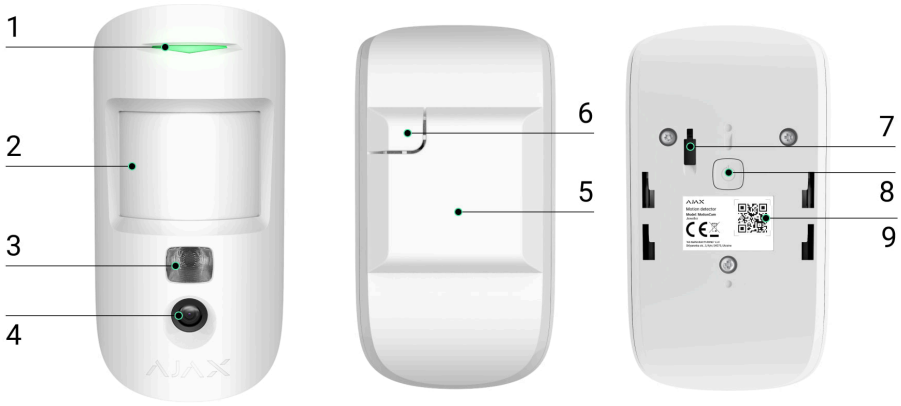
events and Wings to transmit photos. The hub communication range is up to 1,700 meters[1] without obstacles.

[1] Not evaluated by UL.

Buy MotionCam detector with photo verification

A **version of the detector** that also supports **Photo on Demand**, **Photo by Scenario**, and **Photo by Schedule** features is available.

Functional elements



1. LED indicator.
2. Motion detector lens.
3. Infrared backlight. It is used for night photos and low light conditions.
4. Camera.
5. SmartBracket mounting panel. To remove the panel, slide it down.
6. Perforated part of the mounting panel. Triggers a tamper in case of any attempt to detach the detector from the surface. Do not break it off.
7. **Tamper button**. Triggers when somebody attempts to detach the detector from the surface or remove it from the mounting panel.

8. Power button.
9. Detector’s QR code/identifier. It is used to connect the device to the Ajax system.

Compatible hubs and range extenders

MotionCam requires a hub[1] to operate.

Check devices compatibility

Connection to other **hubs**, **radio signal range extenders**, **ocBridge Plus**[2], and **uartBridge**[2] is not provided.

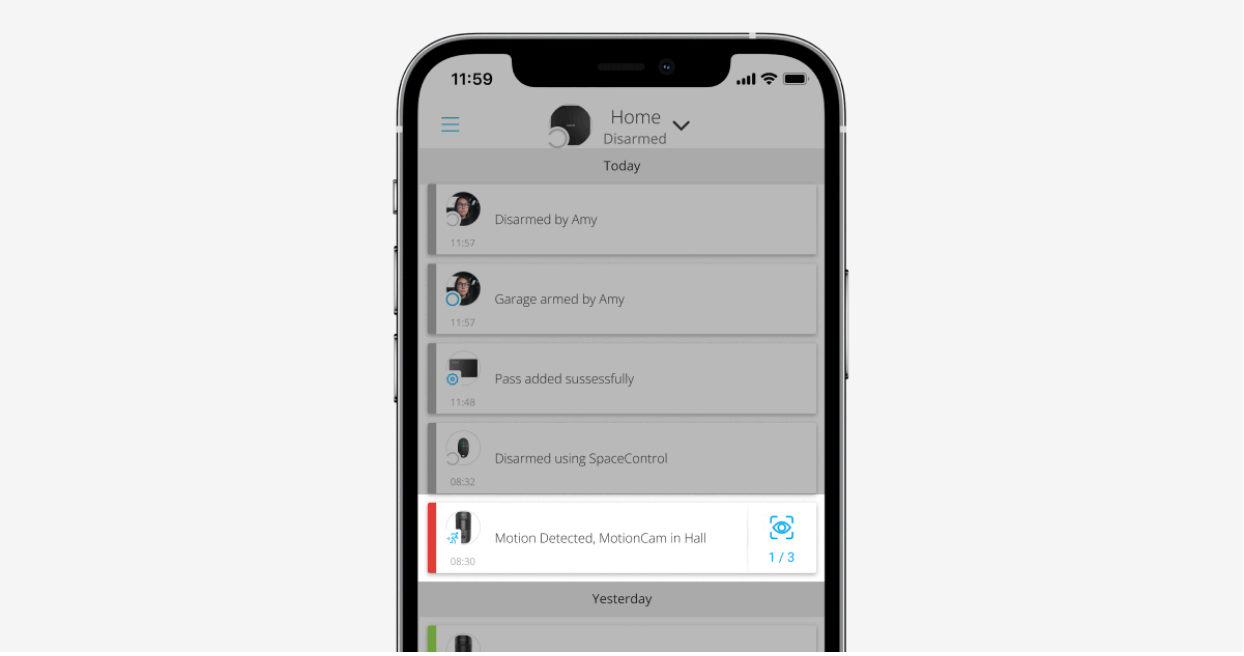
*[1] Only **Hub 2 Plus Jeweller** and **Hub 2 (4G) Jeweller** are certified according to UL/ULC standards.*
[2] Not evaluated by UL.

Operating principle

0:00 / 0:12

MotionCam Jeweller is a wireless motion detector supporting photo verification. It detects motion with a build-in infrared sensor by capturing moving objects with a temperature close to that of the human body. After motion is detected, the built-in camera takes a series of photos, which allows you to dynamically assess what is happening at the site, saving users from unnecessary anxiety, and security companies from false calls of patrol.

As soon as an armed detector identifies motion, it instantly sends an alarm to the hub, which activates the sirens connected to the system, triggers scenarios, and notifies users and the security company. All MotionCam alerts and events are recorded in the notification feed of the Ajax app.



Users know exactly where motion is detected. The notifications contain the name of the hub (the name of the secured facility), the name of the device, and the **virtual room** to which the detector is assigned.

The detector doesn't switch to the armed mode instantly. The switching time depends on two factors: the exit delay (detector settings, **Delay When Leaving/Entering**) and the hub–detector ping interval (hub settings, **Jeweller** or **Jeweller/Fibra**).

In the first case, the delay is set by an administrator or a PRO user with system configuration rights. In the second case, the delay occurs because the hub takes one ping interval to notify the detector about the security mode change.

How Ajax notifies users of alarms

Learn more about Ajax motion detectors

Photo verification

The detector alarms in the Ajax apps are accompanied by photos or an animated series, depending on the selected viewing mode. The detector takes a photo only when armed.

> A version of the detector that also supports Photo on Demand, Photo by Scenario, and Photo by Schedule features is available. In addition to photo by alarm, this detector can take photos on user's demand as well as photos by alarm of other Ajax detectors and devices.

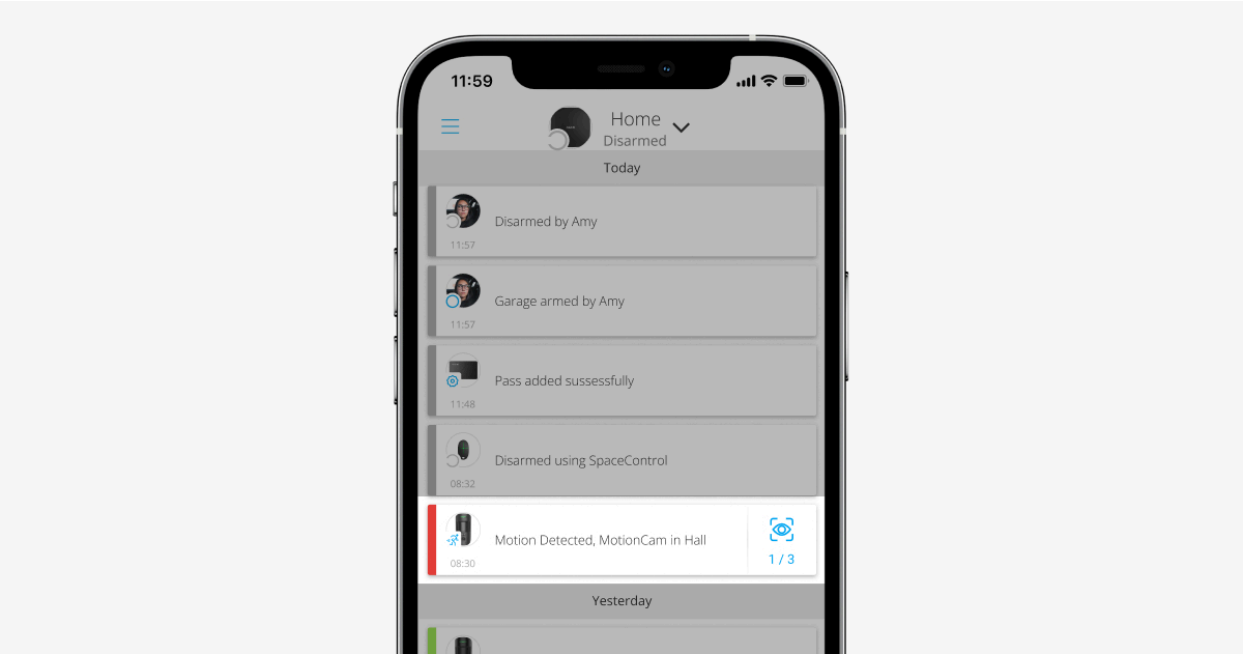
The built-in camera of the detector can take from 1 to 5 photos with a resolution of 160 × 120 and 320 × 240 pixels, as well as up to 3 photos with a resolution of 640 × 480 pixels.

The **HDR image** feature improves the accuracy of detail in bright and dark scenes, allowing you to capture detailed images regardless of the lighting level. To do this, MotionCam takes two shots with different shutter speeds, and a special algorithm combines them to select the best combination of light and shadow.

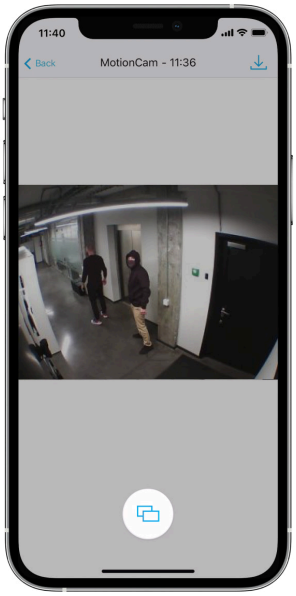
> The **HDR image** feature is available for devices with the 15.59.35.14 firmware version or later[1].

*[1] **Contact your Ajax supplier or authorized partner** to check the availability in your region.*

To view the photos, click on the MotionCam alarm notification in the events feed. Photos are available to all users with access to the events feed.



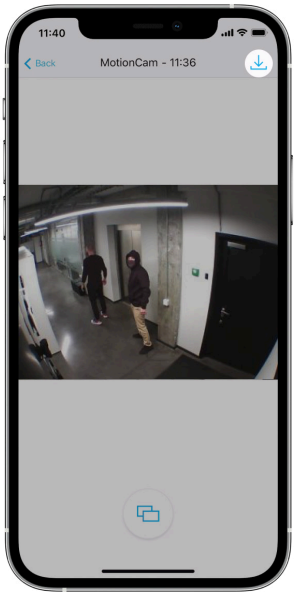
A series of photos are played back in the application as animation. It helps to evaluate the unfolding of the incident over time. You can also view all the photos individually by clicking on the icon at the bottom of the screen.



The detector has infrared backlight for shooting in the dark, which activates when there is insufficient light. Under such conditions, MotionCam takes black-and-white photos.

0:00 / 0:03

Photo verification can be saved as video or images by clicking the download icon.



Features of alarm photo verification

Jeweller and Wings data transfer protocols

MotionCam uses the Jeweller technology to transmit alarms and events and the Wings technology to transmit photos. These are two-way wireless data transfer protocols that provide fast and reliable communication between a hub or a range extender and the connected devices of the security system.

The protocols support floating key block encryption and device recognition on every session to prevent sabotage and spoofing.

To monitor connection with system devices and display their statuses Ajax apps have a system of hub–detector polls with a frequency of 12 to 300 seconds. The polling frequency is set by the user or PRO with administrator rights.

Learn more

Photo delivery time

The photo delivery time to Ajax apps depends on the selected resolution, detector connection method (to the hub directly or via the range extender), Wings signal strength, and the Internet connection speed. The alarm messages are delivered immediately.

Photo resolution	Delivery time		
	When connected directly to the hub[1]	When connected to the hub via ReX 2 (ReX 2 transmits photos via Wings)[2] [4]	When connected to the hub via ReX 2 (ReX 2 transmits photos via Ethernet)[3] [4]
160 × 120 pixels	up to 6 seconds	up to 8 seconds	up to 6 seconds
320 × 240 pixels (default)	up to 9 seconds	up to 18 seconds	up to 10 seconds
640 × 480 pixels	up to 17 seconds	up to 31 seconds	up to 17 seconds

[1] The delivery time of one photo when the signal strength between the hub and MotionCam is 2–3 bars and the hub is connected via Ethernet, Wi-Fi, or 4G.

[2] Values were calculated with a signal strength of 3 bars between ReX 2 and the detector or between the hub and ReX 2. The hub works via Ethernet, Wi-Fi, or 4G.

[3] Values were calculated with a signal strength of 3 bars between ReX 2 and the detector. The hub is connected via Ethernet, Wi-Fi, or 4G.

[4] Not evaluated by UL.

Temperature compensation

Temperature compensation[1] is a software mechanism that allows you to maintain the thermal diagram contrast even if the ambient temperature is close to the human body temperature.

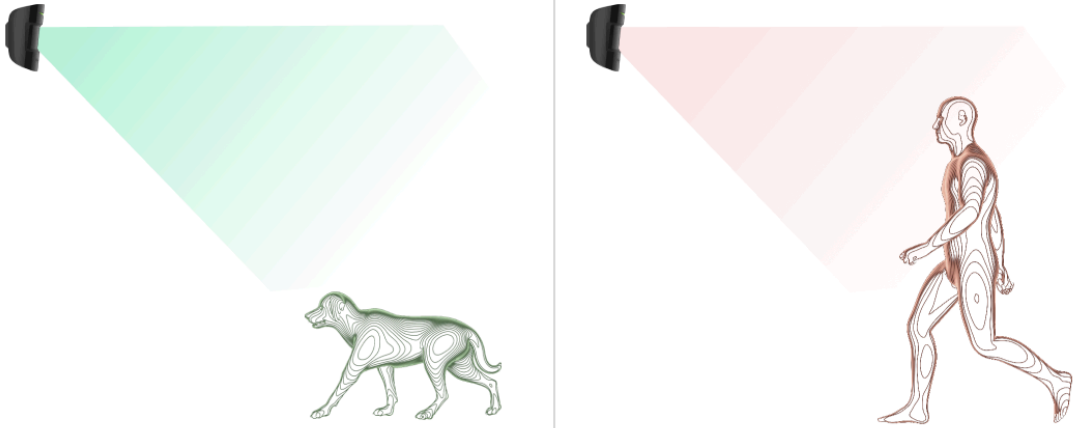
With each ambient temperature measurement, the detector introduces a correction according to the table of coefficients stored in its memory — increases or decreases the sensitivity of the IR sensor. This allows the detector to effectively identify motion over the entire operating temperature range.

[1] Not evaluated by UL.

Learn more

Pet immunity[1]

When properly installed and configured, MotionCam does not react to animals up to 50 centimeters tall and weighing up to 20 kilograms.



For this purpose, the detector is installed **at a height of 2.4 meters** in a place where nothing obstructs its view — for example, in a corner of a room, where the view won't be blocked by closets or other furniture. Correct setting requires the accurate choice of the detector sensitivity:

- **High** — the detector does not respond to cats (up to 25 cm tall).
- **Medium** — it does not respond to small dogs (up to 35 cm tall).
- **Low** — it does not respond to pets up to 50 cm tall.

If MotionCam is installed below the recommended height, then the animals will move in the high sensitivity zone. The detector can raise an alarm if a dog walks on its hind legs or plays on an armchair. It will also raise an alarm if the animal is able to jump to the level of the detector or move near it.

[1] Not evaluated by UL.

Why motion detectors react to animals and how to avoid this

How to install MotionCam correctly

Sending events to the CMS

The Ajax system can transmit alarms to the **PRO Desktop** monitoring app as well as the Central Monitoring Station (CMS) using **SurGard (Contact ID), SIA DC-09 (ADM-CID), ADEMCO 685**, and other proprietary protocols. See a complete list of supported protocols **here**.

Which CMSs can the Ajax system be connected to

MotionCam Jeweller transmits the following events to the monitoring station:

1. Motion alarm.
2. MotionCam visual alarm verifications.
3. Photos by Scenarios.
4. Tamper alarm/recovery.
5. Hub connection loss/restoration.
6. Permanent deactivation/activation of the detector.
7. Unsuccessful attempt to arm the security system (with the **system integrity check** enabled).

When an alarm is received, the operator of the security company monitoring station knows exactly what happened and where to send the fast response team. Addressability of Ajax devices allows you to send not only events but also the type of the device, the name assigned to it, and the room to the PRO Desktop or to the CMS. Note that the list of transmitted parameters may differ depending on the type of the CMS and the selected protocol for communication with the monitoring station.

The ID and number of the device can be found in its states in the Ajax app.

Photos are sent to the security company's monitoring station if the CMS software supports photo verification. A list of such CMSs is **available here**. **PRO Desktop** can also receive photo verification without additional setup.

Learn more about PRO Desktop

Adding to the system

Before adding a device

1. Install the **Ajax app** or **Ajax PRO app**.
2. Create an **account** if you don't already have one. Add a compatible hub to the app, make the necessary settings, and create at least one **virtual room**.
3. Make sure that the hub is on and has Internet access via Ethernet, Wi-Fi, and/or mobile network. You can do this in the Ajax app or by looking at the LED on the hub casing. It should light up white or green.
4. Make sure the hub is not armed and does not start updates by checking its status in the Ajax app.

Only Hub 2 Plus Jeweller and Hub 2 (4G) Jeweller are certified according to UL/ULC standards.

How to add MotionCam

Only a user or a PRO with administrator rights can connect MotionCam to the hub.

1. Open the **Ajax app**. If you have access to more than one hub or if you are using the PRO app, select the hub to which you want to add MotionCam.
2. Go to the **Devices** tab and click **Add Device**.
3. Name the detector, scan or type in the QR code (placed on the detector enclosure and the packaging), select a room and a group (if the **group mode** is enabled).

4. Click **Add**; the countdown will begin.

5. Switch on the device by holding the power button for 3 seconds.

To make sure MotionCam is connected to the hub, the detector must be located at the same protected object as the system (within the range of the hub's radio network). To work via the ReX 2 radio signal range extender, first pair the detector with the hub, and then connect it to ReX 2 in the range extender settings.

How to connect a device to ReX 2

The detector connected to the hub will appear in the list of hub devices in the Ajax app. Refreshing the device statuses in the list depends on the **Jeweller** (or **Jeweller/Fibra**) settings. The default value is 36 seconds.

If connection fails, turn the detector off and try again in 5 seconds. If the maximum number of devices have already been added to the hub (**the number depends on the hub model**), you will get an error notification when you try to add a new one.

The hub is incompatible with devices operating at different frequencies. The radio frequency range of the device may vary by region. We recommend buying and using Ajax devices in the same region. Please contact Technical Support for information on the operating frequency range.

MotionCam only works with one hub. When connected to a new hub, the detector stops sending commands to the old one. When added to a new hub, the detector is not removed from the device list of the old hub. This must be done through the Ajax app.

Malfunctions

When a detector identifies a fault (for example, there is no connection via the Jeweller protocol), the Ajax app displays a fault counter in the device field. All faults are shown in the detector states. Fields with malfunctions will be highlighted in red.

Malfunction is displayed if:

- The detector temperature is outside of the allowed limits: below -10°C and above +40°C.
- The detector enclosure is open (tamper is triggered).
- No connection with the hub or range extender via the Jeweller protocol.
- No connection with the hub or range extender via the Wings protocol.
- The detector battery is low.

Icons

The icons represent some of MotionCam statuses. You can check them in the Ajax app in the **Devices** tab.

Icon	Meaning
	Jeweller signal strength — displays signal strength between the detector and the hub/range extender. The recommended value is 2–3 bars. Learn more

	Battery charge level of the detector. **Learn more**
	Malfunction detected. A list and description are available in the detector states. **Learn more**
	The detector works via a **radio signal range extender**.
	The detector operates in the **Always Active** mode. **Learn more**
	Delay When Entering enabled. **Learn more**
	Delay When Leaving enabled. **Learn more**
	MotionCam will work when **Night Mode** is enabled. **Learn more**
	MotionCam has detected motion. The icon is only displayed when the detector is armed.
	The device is in the signal attenuation test mode. **Learn more**
	MotionCam is deactivated. **Learn more**

	MotionCam has been deactivated because the number of alarms has been exceeded. **Learn more**
	MotionCam has tamper triggering events deactivated. **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

The states include information about the device and its operating parameters. The states of MotionCam can be found in the Ajax app:

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

Parameter	Meaning
Data import	Displays the error when transferring data to the new hub: • **Failed** — the device has not been transferred to the new hub. **Learn more**

Malfunction	Click ⓘ to open the list of MotionCam malfunctions. The field is displayed if a malfunction is detected.
Temperature	Detector temperature. 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 or the range extender and the detector via the Jeweller channel. Recommended value is 2–3 bars. Jeweller is a protocol for transmitting MotionCam events and alarms.
Connection via Jeweller	Connection status via the Jeweller channel between the hub or the range extender and the detector: • **Online** — the detector is connected to the hub/range extender. • **Offline** — the detector is not connected to the hub/range extender.
Wings Signal Strength	Signal strength between the hub or the range extender and the detector via the Wings channel. Recommended value is 2–3 bars. Wings is a protocol for transmitting MotionCam photo verifications.

Connection via Wings	Connection status via the Wings channel between the hub or the range extender and the detector: • **Online** — the detector is connected to the hub/range extender. • **Offline** — the detector is not connected to the hub/range extender.
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
Battery Charge	The battery charge level of the device: • **OK** • **Battery low** When the batteries are low, the Ajax apps and the security company will receive appropriate notifications. After sending a low battery notification, the detector can work for up to 2 months[1]. *[1] Not evaluated by UL.* How the battery charge is displayed Battery life calculator
Lid	The status of the detector tamper that responds to detachment or opening of the device enclosure: • **Open** — the detector was removed from the SmartBracket or its integrity was compromised.

	• **Closed** — the detector is installed on the SmartBracket mounting panel. The integrity of the device enclosure and the mounting panel is not compromised. Normal state. Learn more
Sensitivity	Sensitivity level of the motion detector: • **Low** — the detector does not respond to pets up to 50 cm tall. • **Normal** (default) — the detector does not respond to small dogs (up to 35 cm tall). • **High** — the detector does not respond to cats (up to 25 cm tall).
Always Active	When this option is enabled, the detector is constantly armed, detects motion, and raises alarms. Learn more
Permanent Deactivation	Shows the status of the device permanent deactivation function: • **No** — the device operates in normal mode. • **Lid only** — the hub administrator has disabled notifications about tamper triggering. • **Entirely** — the detector is entirely disabled. The device does not follow system commands and does not report alarms or other events. • **By number of alarms** — the device is automatically disabled when the number of alarms is exceeded (the number is specified in the Devices Auto Deactivation settings).

	Learn more
Alarm Reaction	
Operating Mode	Shows how the detector reacts to alarms: • **Instant Alarm** — the armed detector immediately reacts to a threat and raises the alarm. • **Entry/Exit** — when a delay is set, the armed device starts the countdown and doesn't raise the alarm even if triggered until the countdown ends. • **Follower** — the detector inherits the delays from Entry/Exit detectors. However, when the Follower is triggered individually, it immediately raises the alarm.
Delay When Entering, sec	Delay time when entering: 5 to 120 seconds. Delay when entering (alarm activation delay) is the time the user has to disarm the security system after entering the secured area. Learn more
Delay When Leaving, sec	Delay time when leaving: 5 to 120 seconds. Delay when leaving (arming delay) is the time the user has to leave the secured area after arming. Learn more

Delay When Entering in Night Mode, sec	Delay time when entering in the **Night Mode**: 5 to 120 seconds. Delay when entering (alarm activation delay) is the time the user has to disarm the security system after entering the premises. Learn more
Delay When Leaving in Night Mode, sec	Delay time when leaving in the **Night Mode**: 5 to 120 seconds. Delay when leaving (arming delay) is the time the user has to leave the premises after arming. Learn more
Firmware	Detector firmware version.
Device ID	Detector ID. Also available on the QR code on the detector enclosure and the packaging.
Device №	Device loop (zone) number.

Settings

To change the MotionCam detector settings in the Ajax app:

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

Settings	Meaning
Name	Detector name. Displayed in the list of hub devices, SMS text, and notifications in the events feed. To change the name, 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 MotionCam is assigned. The room name is displayed in the text of SMS and notifications in the event feed.
Sensitivity	Sensitivity level of the motion detector. The choice depends on the type of the object, the presence of probable sources of false alarms, and the specifics of the protected area: • **Low** — the detector does not respond to pets up to 50 cm tall. • **Normal** (default) — the detector does not respond to small dogs (up to 35 cm tall). • **High** — the detector does not respond to cats (up to 25 cm tall). **Why motion detectors react to animals and how to avoid this**
Image resolution	Selecting the image resolution (in pixels): • 160 × 120 • 320 × 240 (default) • 640 × 480

	The higher the resolution, the more detailed the image is, but it takes longer to transfer the photos.
Photo by Alarm	Selecting the number of photos in case of alarm: • No photo • 1 photo • Series of 2 • Series of 3 • Series of 4 (only available with 320 × 240 or 160 × 120 resolutions) • Series of 5 (only available with 320 × 240 or 160 × 120 resolutions)
Alarms with photo verification	Selecting the number of alarms that are accompanied by photos. You can specify 1 to 10 alarms or set up the transmission of a photo each time the device is triggered. An alarm counter with photo verification is reset when the security system is disarmed and re-armed. The setting is available if the **Always Active** option is disabled. When the detector is in the **Always Active** mode, it will transmit a photo every time it is triggered.
Always Active	If active, the detector is always in the armed mode and detects motion. Learn more
HDR image	When enabled, the device improves the accuracy of detail in bright and dark scenes.

	The **HDR image** feature is available for devices with the 15.59.35.14 firmware version or later.
Alert with a siren if motion detected	If active, the **sirens** that are **added to the system** are activated when MotionCam detects movement.
Alarm Reaction	
Operating Mode	Specify how this device will react to alarms: • **Instant Alarm** — the armed detector immediately reacts to a threat and raises the alarm. • **Entry/Exit** — when a delay is set, the armed device starts the countdown and doesn't raise the alarm even if triggered until the countdown ends. • **Follower** — the detector inherits the delays from Entry/Exit detectors. However, when the Follower is triggered individually, it immediately raises the alarm.
Delay When Entering, sec	Delay time when entering: 5 to 120 seconds. Delay when entering (alarm activation delay) is the time the user has to disarm the security system after entering the secured area. **Learn more**
Delay When Leaving, sec	Delay time when leaving: 5 to 120 seconds. Delay when leaving (arming delay) is the time the user has to leave the secured area after arming.

	Learn more
Arm in Night Mode	If this option is enabled, the detector will go into the armed mode when the system is set to the **Night Mode**. **Learn more**
Delay When Entering in Night Mode, sec	Delay time when entering in the **Night Mode**: 5 to 120 seconds. Delay when entering (alarm activation delay) is the time the user has to disarm the security system after entering the premises. **Learn more**
Delay When Leaving in Night Mode, sec	Delay time when leaving in the **Night Mode**: 5 to 120 seconds. Delay when leaving (arming delay) is the time the user has to leave the premises after arming. **Learn more**
Jeweller Signal Strength Test	Switches the detector to the Jeweller signal strength test mode. The test allows you to check the signal strength between the hub or the range extender and the detector over the Jeweller wireless data transfer protocol to determine the optimal installation location. **Learn more**
Wings Signal Strength Test	Switches the detector to the Wings signal strength test mode. The test allows you to check the signal strength between the hub or the range extender and the detector over the Wings wireless data transfer

	protocol to determine the optimal installation location. **Learn more**
Detection Zone Test	Switches the detector to the detection zone test mode. The test enables users to check how the detector responds to movement and to determine the optimal installation location. **Learn more**
Signal Attenuation Test	Switches the device to the signal attenuation test mode. During the test, the transmitter power is decreased or increased to simulate a change in the environment to test the stability of communication between the detector and the hub. **Learn more**
User Guide	Opens the MotionCam 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**. • **Entirely** — the device neither executes system commands nor participates in automation scenarios, and the system ignores device alarms and other notifications. • **Lid only** — the system ignores the detector's tamper button triggering notifications. **More about permanent deactivation**

	The system can also automatically deactivate devices when the set number of alarms is exceeded. More about auto deactivation
Unpair Device	Unpairs the detector, disconnects it from the hub, and deletes its settings.

LED indication

The MotionCam LED indicator may light up red or green, depending on the status of the device.

0:00 / 0:02

Indication upon pressing the power button

LED indication	Event
Lights up green.	Turning the detector on.
Lights up red and then flashes three times.	Turning the detector off.

Enabled detector indication

LED indication	Event	Note
Lights up green for 1 second.	Motion alarm/tamper triggering.	The detector records movement once every 5 seconds.
Lights up green for a few seconds.	Connecting the detector to the hub.	
Lights up red and flashes after the first activation.	Hardware error.	The detector needs to be repaired; please contact our **Technical Support**.
In case of an alarm, it slowly lights up green and goes out.	Detector batteries need to be replaced.	The procedure for battery replacement is described **in this article**.
Flashes green frequently.	The batteries are completely discharged. The detector stopped detecting motion and transmitting alarms to the hub.	The procedure for battery replacement is described **in this article**.

Functionality testing

The Ajax system offers several types of tests to help you choose the right installation place for the devices. MotionCam tests do not start straight away but not later than over a single hub — detector polling period (36 seconds under default settings of the hub). You can change the device polling period in the **Jeweller** (or **Jeweller/Fibra**) menu in the hub settings.

To run a test in the Ajax app:

1. Select the required hub.
2. Go to the **Devices** menu.
3. Select **MotionCam**.
4. Go to Settings.

5. Choose a test:
    1. Jeweller Signal Strength Test
    2. Wings Signal Strength Test
    3. Detection Zone Test
    4. Attenuation Test
6. Run the test.

Detector placement

The device is for indoor use only.

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

- Motion detector detection area.
- The viewing angle of the detector's camera and the presence of obstacles in front of it.
- Jeweller and Wings signal strength.
- Distance between the detector and the hub.
- Presence of barriers for radio signal passage between devices: walls, interfloor ceilings, large objects located in the room.

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

Signal strength

Jeweller and Wings signal strength is determined by the number of undelivered or corrupted data packages that are exchanged between the detector and the hub or the range extender within a certain period of time. Signal strength is indicated by the icon on the **Devices** tab:

- **Three bars** — excellent signal strength.
- **Two bars** — good signal strength.
- **One bar** — low signal strength, stable operation is not guaranteed.
- **Crossed out icon** — signal is missing.

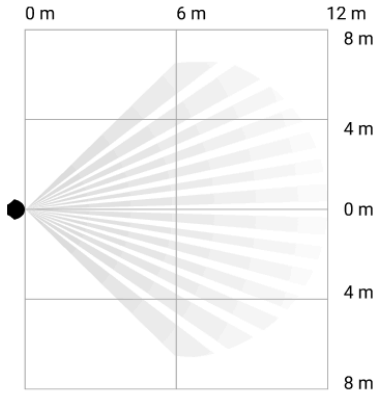
> Check the Jeweller and Wings signal strength at the installation site. If the signal strength is low (a single bar or lower), we cannot guarantee stable operation of the security system. Relocate the device as repositioning even by 20 cm can significantly improve the signal reception. If the detector still has a low or unstable signal strength after relocation, use ReX 2. **MotionCam does not work with other radio signal range extenders**.

Detection zone

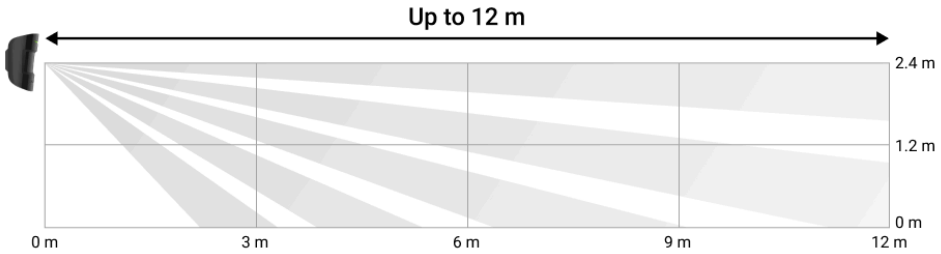
When choosing the place for installation, consider the following:

- Direction of the detector lens.
- Detector and camera viewing angles.
- Any obstacles that obstruct the view of the detector or its camera.

It is recommended for the lens of the detector to be aimed perpendicular to the intended path of intrusion into the premises. Ensure that furniture, house plants, vases, decorative or glass elements do not obstruct the view of the detector.



Horizontal viewing angle of the detector



Vertical viewing angle of the detector

When installing the detector, run a **Detection Zone Test**. This allows you to check the operation of the device and accurately determine the sector in which the detector reacts to movement.

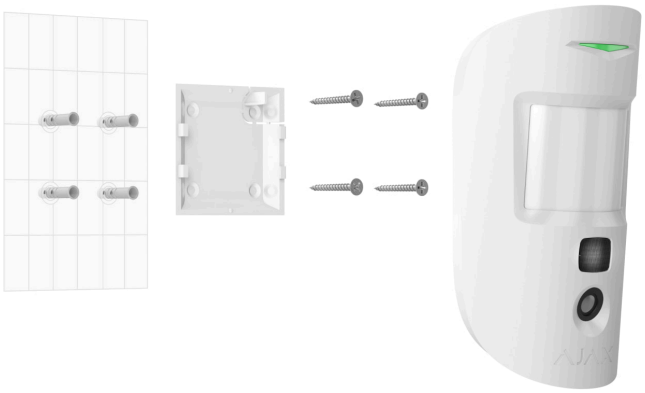
If possible, take several photos at the installation site to make sure that the camera is capturing the desired area and that no obstructions are blocking its view.

Do not install the detector

1. Outdoors. This can lead to false alarms and detector failure.
2. In the direction where direct sunlight hits the detector lens. This can lead to false alarms of the motion detector.
3. Opposite any objects with rapidly changing temperature — for example, electric and gas heaters. This can lead to false alarms of the motion detector.

4. Opposite any moving objects with a temperature close to that of the human body — for example, opposite the swinging curtains above a radiator. This can lead to false alarms of the motion detector.
5. In places with fast air circulation — for example, near fans, open windows, or doors. This can lead to false alarms of the motion detector.
6. In places where objects and structures may obstruct the detector's view — for example, behind a flower or a column. This way, the detector's view will be limited, and it will be more difficult for it to detect motion.
7. In places where glass structures may obstruct the detector's view. It does not register movement behind glass.
8. Inside premises with temperature and humidity outside the permissible limits. This could damage the detector.

Installation and connection

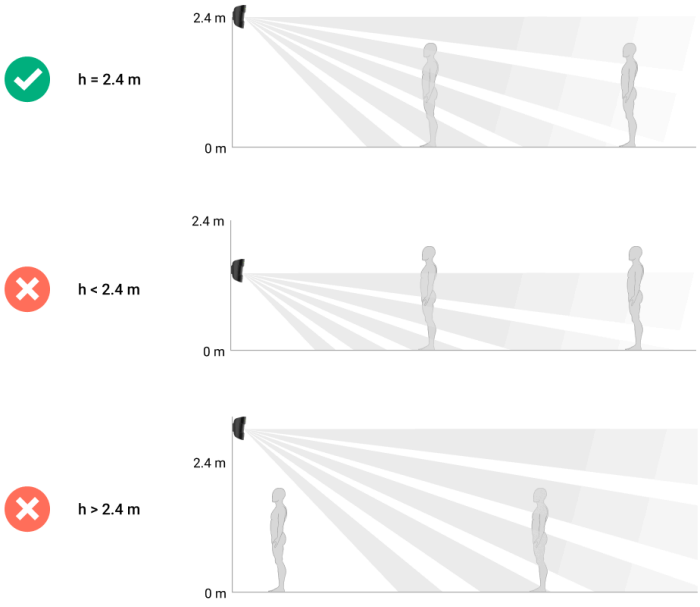


Before installing MotionCam, make sure that you have selected the optimal location and that it complies with the requirements of this manual.

In order to install the detector:

1. Remove the SmartBracket mounting panel from the detector.
2. Fix the SmartBracket panel to a vertical surface or in a corner of the room using double-sided adhesive tape or other temporary fasteners. **The**

installation height is 2.4 meters.



Use double-sided adhesive tape for temporary fixing only, as the device may come off the surface at any time and get damaged if dropped. As long as the device is taped, the tamper will not be triggered when the detector is detached from the surface.

3. Run the **Jeweller** and **Wings** signal strength tests. The recommended signal strength is two or three bars. If the signal strength is a single bar or lower, we cannot guarantee the stable operation of the security system. In this case, relocate the device as repositioning even by 20 cm can significantly improve the signal reception. If, after relocation, the detector still has a low or unstable signal strength, use **ReX 2 radio signal range extender**.

4. Run the **Detection Zone** test. In order to check the motion detector, walk around the premises while observing the LED and determine the detection zone of the detector. The maximum range of motion detection by the detector is 12 meters. If the detector does not respond to movement during the test in 5 cases out of 5, relocate the device.

5. Take some test photos to make sure that the camera is capturing the desired area and that no obstacles are blocking its view.

6. Fasten the SmartBracket panel with the bundled screws using all fixation points. (One of them is in the perforated part of the mounting panel above the tamper.) When using other fasteners, make sure they do not damage or deform the mounting panel.

   With the mounting panel, you can mount the MotionCam Jeweller detector on a vertical surface or in a corner of the room. SmartBracket has special holes that need to be drilled to fix the panel with the bundled screws.

7. Place the detector on the SmartBracket mounting panel.

Maintenance

Check the functioning of the detector on a regular basis. Clean the enclosure from dust, cobwebs, and other contaminants as they emerge. Use a soft dry cloth suitable for equipment care.

Do not use substances that contain alcohol, acetone, gasoline, and other active solvents to clean the detector. Carefully wipe the lens — scratches on the plastic can reduce the detector sensitivity.

The calculated battery life of the device from the pre-installed batteries is up to 3 years. When the detector batteries are discharged, the security system will send an appropriate notification, and the LED will light up and go out gradually when the detector detects a movement or the tamper is activated.

MotionCam battery life and what affects it

How to replace MotionCam detector batteries

Technical specifications

All technical specifications of MotionCam Jeweller

Compliance with standards

UL-compliant installation

Complete Set

1. MotionCam Jeweller.
2. SmartBracket mounting panel.
3. 2 CR123A batteries (pre-installed).
4. Installation kit.
5. Quick Start Guide.

Warranty

The warranty for the Limited Liability Company “Ajax Systems Manufacturing” products is valid for 2 years after purchase and does not extend to the bundled battery.

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

Warranty Obligations

User Agreement

Contact Technical Support:

- e-mail
- Telegram