

Tech specs

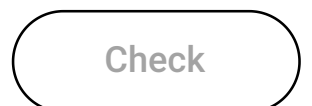
BASELINE

MotionCam Jeweller

Wireless IR motion detector supporting photo by alarm feature



Devices compatibility



Communication

Jeweller communication technology

Proprietary wireless communication technology to transmit commands, alarms, and events.

Key features:

- Two-way communication.
- Advanced anti-sabotage.
- Block encryption featuring a dynamic key.
- Instant notifications.
- Remote control and configuration in Ajax apps.

[Learn more](#) >

Frequency bands

866.0–866.5 MHz

868.0–868.6 MHz

868.7–869.2 MHz

905.0–926.5 MHz

915.85–926.5 MHz

921.0–922.0 MHz

Depends on the sales region.

Maximum effective radiated power (ERP)

up to 20 mW

Radio signal modulation

GFSK

Radio signal range

up to 1,700 m

Between a hub and connected devices (in an open space). The maximum range depends on the connected device.

[Learn more](#) >

Encrypted communication

All stored and transmitted data are protected by block encryption featuring a dynamic key.

Frequency hopping

To prevent radio interference and jamming.

[Learn more](#) >

Wings communication technology

Proprietary wireless communication technology to transmit photos.

Key features:

- Two-way communication.
- Block encryption featuring a dynamic key.
- Advanced anti-sabotage.
- Data package reload in case of transmission errors.
- Photo delivery check.

[Learn more](#) >

Frequency bands

866.0 – 866.5 MHz

868.0 – 868.6 MHz

868.7 – 869.2 MHz

905.0 – 926.5 MHz

915.85 – 926.5 MHz

921.0 – 922.0 MHz

Depends on the sales region.

Radio signal range

up to 1,700 m

Between detector and hub or range extender in an open space.

[Learn more](#) >

Encrypted communication

All the data stored and transmitted are protected by block encryption with a dynamic key.

Frequency hopping

To prevent radio interference and jamming.

[Learn more >](#)

Detection

Sensitive element

PIR sensor

Motion detection distance

up to 12 m

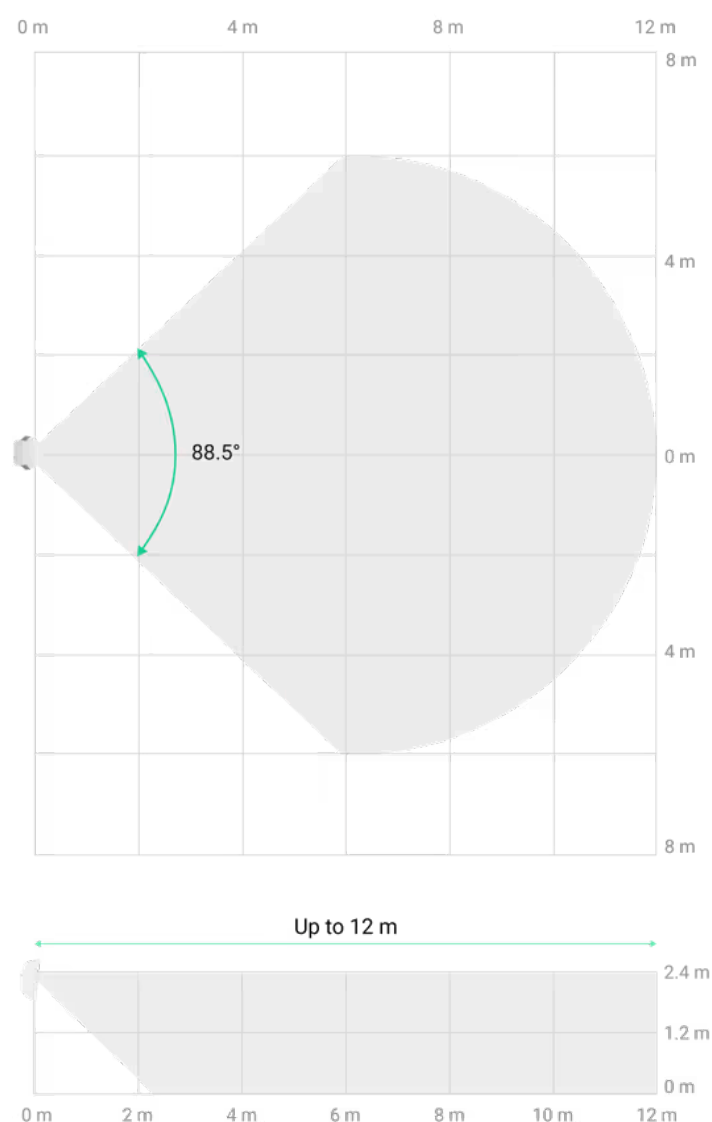
When installed at a height of 2.4 m.

Motion detection angles

horizontal – 88.5°

Motion detection speed

from 0.3 to 2.0 m/s



The direction of the detector lens should be perpendicular to an alleged intrusion path into the facility.

Sensitivity

3 levels

Adjusted by a PRO or user with admin rights in Ajax apps.

Pet immunity

weight: up to 20 kg

height: up to 50 cm

[Learn more](#) >

False alarm prevention

SmartDetect

Software algorithm.

Temperature compensation

Effective motion detection at temperatures from -10°C to $+40^{\circ}\text{C}$.

Photo verification

Photo by alarm

A built-in camera is activated if the detector is armed and motion is detected.

[Learn more](#) >

Photo resolution

640 × 480 px

320 × 240 px (by default)

160 × 120 px

Adjusted by a PRO or user with admin rights in Ajax apps.

HDR image

Improves the accuracy of detail in bright and dark scenes.

The feature is available for devices with the 15.59.35.14 firmware version or later¹.

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

IR backlight

For night photography and low light conditions.

Pictures in a series

from 1 to 5 images with a resolution of 320 × 240 px or 160 × 120 px

from 1 to 3 images with a resolution of 640 × 480 px

Adjusted by a PRO or user with admin rights in Ajax apps.

Photo delivery time

up to 7 s – 160 × 120 px resolution

up to 9 s – 320 × 240 px resolution

up to 20 s – 640 × 480 px resolution

When the hub is connected via Ethernet or 4G and the Wings signal strength between a hub and device is 2–3 bars. Photo delivery time when the detector is connected via a range extender is [available here](#).

Recommendations

It is recommended to install the detector at a height of 2.4 m.

Device is designed for indoor use only.

Anti-sabotage protection

Tamper alarm

Notifications on attempts to detach the device from the surface or remove it from the mounting panel.

[Learn more >](#)

Protection against spoofing

device authentication

Communication loss detection

within 36 s

Detection time depends on the **Jeweller** or **Jeweller/Fibra** settings.

[Learn more >](#)

Power supply

Battery

2 × CR123A

Pre-installed.

Calculated battery life

up to 4 years

[Learn more >](#)

Enclosure

Dimensions

135 × 70 × 60 mm

Weight

170 g

Operating temperature range

from -10 °C to +40 °C

Operating humidity

up to 75%

Protection class

IP50



Colors

Black

White



Complete set

MotionCam Jeweller

SmartBracket mounting panel

Installation kit

2 × CR123A battery (pre-installed)

Quick start guide

Certification and compliance with standards



MotionCam Jeweller



Additional information

Compliance with standards

[Learn more](#) >

User manual

[Learn more](#) >

Warranty

24 months

[Learn more](#) >

Products

Superior

Fibra

Intrusion protection

Video surveillance

Fire detection

Water leak prevention

Comfort & Productivity

All products

Ajax ecosystem
integrations

Software

For users

PRO Desktop

Ajax Translator

Scenarios



Available on
App Store



Available on
Google Play

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Rating 4.6

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