🔲 Superior MotionCam AM (PhOD) Jeweller   More ⌄

Tech specs

SUPERIOR

Superior MotionCam AM (PhOD) Jeweller

Wireless PIR motion detector with an anti-masking system and extended photo verification possibilities. Supports HD resolution.

Device compatibility   Check

Communication

⬦ Jeweller communication technology

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

Key features:

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

Learn more ⟩

Frequency bands

868.0–868.6 MHz

Maximum effective radiated power (ERP)

up to 20 mW

Automatic power control to reduce power consumption and noise interference.

Radio signal modulation

GFSK

Radio signal range

up to 1,700 m

Between the detector and a hub (or a range extender) in an open space.

Calculate the radio signal range at the facility ❯

Encrypted communication

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

Frequency hopping

Radio communication uses frequency hopping to prevent interception and jamming.

Learn more ❯

◈ Wings communication technology

Proprietary wireless communication technology to transmit photo verifications.

Key features:

- Two-way communication.
- Block encryption featuring a dynamic key.
- Advanced sabotage protection.
- Reloading the data packages in case of transmission errors.
- Photo delivery check.

Learn more ❯

Frequency bands

868.0–868.6 MHz

Radio signal range

up to 1,700 m

Between the detector and a hub (or a range extender) in an open space.

Calculate the radio signal range at the facility ⊙

Encrypted communication

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

Frequency hopping

Radio communication uses frequency hopping to prevent interception and jamming.

Learn more ⊙

Detection

Sensitive elements
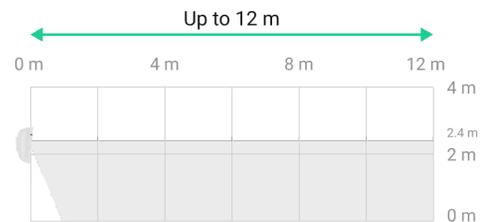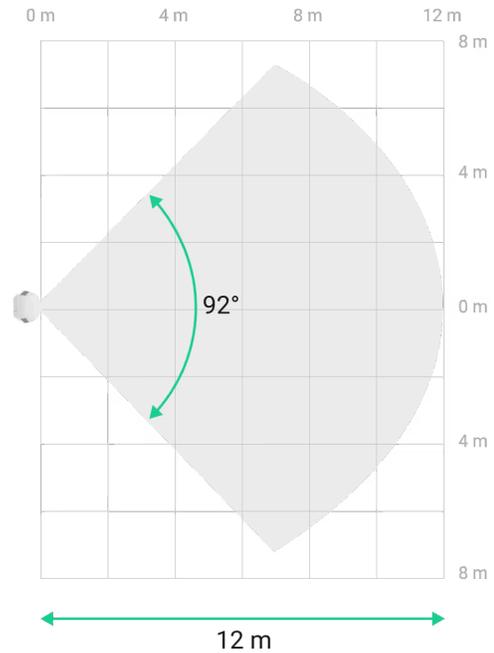
1 × PIR sensor

Motion detection distance

up to 12 m

When installed at a height of 2.4 m.

Reduced blind zone

from 80 cm

It detects a standing person at a distance of 80 cm from the device when the detector is properly installed at a height of 2.4 m. Does not depend on the sensitivity level. Testing was performed with a person of 175 cm height.

Crawling detection zone

from 2 m (TBC)

Detects a person crawling at a distance of 2 m from the device when the detector is properly installed at a height of 2.4 m. The test results may be updated.

Motion detection angles

horizontal: 92°

Motion detection speed

from 0.2 to 2.0 m/s

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

Sensitivity

3 levels

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

Temperature compensation

Effective motion detection at temperatures from −10 °C to +40 °C.

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False alarm prevention

SmartDetect

Software algorithm.

Photo verification

Photo by alarm

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

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Photo by tamper alarm

A built-in camera takes a photo if the tamper triggering is detected. The feature is disabled by default.

Photo by masking

A built-in camera takes a photo if the masking is detected. The feature is disabled by default.

Photo on demand

The user takes photos at any time or when the detector is armed (depending on settings). The feature is disabled by default.

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Photo by scenario

The detector's camera takes photos automatically when other Ajax detectors are triggered. The feature is disabled by default.

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Photo by schedule

The detector automatically takes photos at a specified time.

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Photo by arming/disarming

The detector automatically takes photos when the security state is changed.

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Adjustable photo resolution

960 × 720 px*
640 × 480 px(by default)
320 × 240 px
160 × 120 px

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

* The firmware version confirmation is required. First photo delivery in 15.5 seconds with TurboWings protocol.

IR illumination

For photography at night and in low-light conditions.

Series of pictures

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 or 960 × 720 px*

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

* The firmware version confirmation is required. First photo delivery in 15.5 seconds with TurboWings protocol.

Photo delivery time

up to 3 s — 160 × 120 px resolution
up to 4.5 s — 320 × 240 px resolution
up to 11 s — 640 × 480 px resolution
up to 15.5 s — 960 × 720 px resolution

Photo delivery time depends on the image resolution selected in the device settings.

Recommendations

It is recommended that the detector be installed at a height of 2.4 m.

The **pet immunity** feature is not available for this device.

The device is designed for indoor use only.

Sabotage protection

Tamper alarm

1 tamper

Notifications of attempts to detach the detector from the surface or unlock the SmartBracket and remove the detector from the mounting panel.

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Protection against spoofing

device authentication

Anti-masking system

detects attempts to block the detector view

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Communication loss detection

after 36 s

Detection time depends on the Jeweller/Fibra settings.

Power supply

Batteries

2 × CR123A

Pre-installed.

Type

Type C.

Calculated battery life

up to 4 years

With the **Photo on demand** feature disabled.

up to 3 years

With the **Photo on demand** feature enabled.

Learn more ❯

Detector's operating voltage range

4.2–6.2 V⎓

Detector's nominal operating voltage

6 V⎓

Quiescent detector's current consumption at nominal voltage

0.040 mA

Maximum detector's current consumption at nominal voltage

400 mA

Full capacity

3,300 mAh

Low battery voltage

4.85 V⎓

Low battery recovery voltage

4.9 V⎓

End-of-life battery voltage

4.2 V⎓

The device is switched off.

End-of-life battery capacity

600 mAh

Enclosure

Dimensions

134 × 70 × 59 mm

Weight

176 g

Operating temperature range

from −10 °C to +40 °C

Operating humidity

up to 75% non-condensing

Protection class

IP50

Color

White

Complete set

Superior MotionCam AM (PhOD) Jeweller

SmartBracket mounting panel

Installation kit

Quick start guide

Certification and compliance with standards

	Superior MotionCam AM (PhOD) Jeweller	⌄

Additional information

Compliance with standards

Learn more ⊘

User manual

Learn more ⊘

Warranty

24 months

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Subscribe to our emails about secure life. No spam.

Subscribe

Request extra help

✉ support@ajax.systems

⊘ @AjaxSystemsSupport_Bot

💬 Send a request

★ Trustpilot

★★★★★

Rating 4.7

4,000,000

people worldwide under Ajax protection

💡 Suggest a feature

f ▶ 📷 𝕏 in

Products

Intrusion protection

Video surveillance

Fire and life safety

Comfort and automation

All products

Services

System integrations

Ajax Ready products

Fibra wired protocol

Ajax radio protocols

Software

For users

Ajax PRO: Tool for Engineers

Ajax Desktop

Ajax PRO Desktop

Ajax Translator PRO

Ajax Cloud Signaling

Scenarios

Available on App Store

Available on Google Play

Solutions

Customer stories

Solutions by facility type

Commercial fire detection and alarm system

Upgrades and retrofits

Why Ajax

How it works
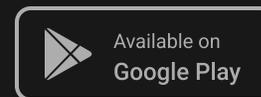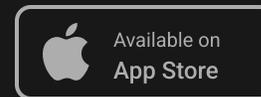
Support

Manuals and articles

Compliance with standards

Tools

Ajax device compatibility

Video storage calculator

Video device calculator

Battery life calculator

Radio communication range calculator

Switches and outlets configurator

Fibra power supply calculator

All web tools

Connecting to CMS

Intrusion alarm monitoring

Video monitoring and visual alarm verification

Audio alarm verification

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End user agreement   Warranty