

Tech specs

AJAX SUPERIOR

Superior MotionCam G3 (PhOD) Jeweller

Wireless PIR motion detector with extended photo verification possibilities. Supports HD resolution.



Device compatibility

Check

Communication



Superior Jeweller data transfer protocol

Proprietary wireless protocol for transmitting commands, alarms, and events. An upgraded version of the Jeweller radio protocol for Ajax Superior devices, ensuring compliance with Grade 3 (EN 50131).

Key features:

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

Learn more >

Frequency bands

865.0–868.0 MHz

868.0–868.6 MHz

868.7–869.2 MHz

869.4–869.65 MHz

Maximum effective radiated power (ERP)

up to 20 mW

Automatic power control to reduce power consumption and radio interference.

Radio signal modulation

GFSK

Radio communication range

up to 3,500 m

Between the device and a hub (or a range extender) in an open space. The maximum range depends on the hub model.

Calculate the radio communication range at the facility >

Encrypted communication

All stored and transmitted data is protected with advanced encryption, ensuring both confidentiality and integrity.

Frequency hopping

To prevent radio interference and jamming.

Learn more >

TurboWings communication technology

Proprietary wireless communication technology for uploading firmware updates.

Key features:

- Two-way communication.
- Advanced sabotage protection.
- Block encryption featuring a dynamic key.
- Data packet reload in case of transmission errors.
- Data packets delivery check.

Frequency bands

865.0–868.0 MHz

868.0–868.6 MHz

868.7–869.2 MHz

869.4–869.65 MHz

Radio communication range

up to 3,500 m

Between the device and a hub (or a range extender) in an open space. The maximum range depends on the hub model.

Calculate the radio communication range at the facility >

Encrypted communication

All stored and transmitted data is protected with advanced encryption, ensuring both confidentiality and integrity.

Frequency hopping

To prevent radio interference and jamming.

Learn more >

Detection

Sensitive element

1 PIR sensor

Motion detection distance

up to 15 m

When installed at a height of 2.4 m.

Motion detection angles

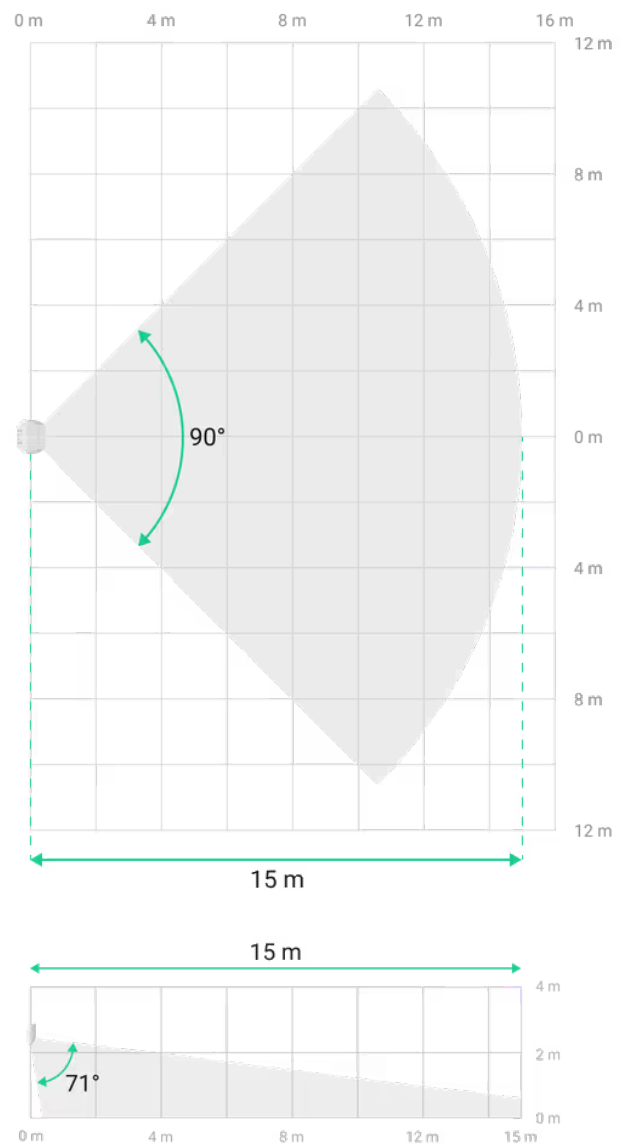
horizontal: 90°

vertical: 71°

Motion detection speed

from 0.1 to 4.0 m/s

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



Sensitivity

3 levels

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

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 on demand

User takes pictures at any time or when the detector is armed (depends on settings). The feature is disabled by default.

[Learn more](#) >

Photo by scenario

A detector camera takes pictures automatically when Ajax fire detectors are triggered. The feature is disabled by default.

[Learn more](#) >

Photo by schedule

The detector automatically takes photos at a specified time. This feature is available for hubs with firmware version OS Malevich 2.19 or higher.

[Learn more](#) >

Photo by masking or tamper alarm

The detector automatically takes photos when masking is detected or when the tamper is triggered. The feature is disabled by default.

Photo by arming/disarming

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

[Learn more](#) >

Photo resolution

HD (864 × 720 pixels)

VGA (576 × 480 pixels)

QVGA (288 × 240 pixels)

QQVGA (160 × 128 pixels)

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

HDR image

Improves the accuracy of detail in bright and dark scenes.

IR backlight

For night photography and low light conditions.

Pictures in a series

from 1 to 5 images with a resolution of 288 × 240 px or 160 × 128 px

from 1 to 3 images with a resolution of 576 × 480 px or 864 × 720 px

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

Photo delivery time

up to 3 s — 160 × 128 px resolution

up to 4 s — 288 × 240 px resolution

up to 10 s — 576 × 480 px resolution

up to 14 s — 864 × 720 px resolution

When the hub is connected via Ethernet or 4G and the Wings signal strength between the hub and the device is 3 bars. Photo delivery time refers to the time required to deliver a photo from the detector to the hub. For a detector connected via a range extender, the photo delivery time is available [here](#).

Recommendations

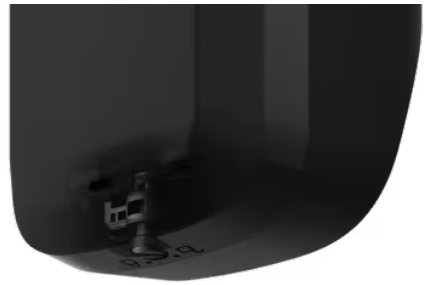
It is recommended to install the detector at a height of 2.4 m. The device is designed for indoor use only.

Sabotage protection

Tamper alarm

2 tamperers

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



[Learn more](#) >

Protection against spoofing

device authentication

Anti-masking system

detects attempts to block the detector view

[Learn more](#) >

Lock for SmartBracket

To secure the detector on SmartBracket.

Communication loss detection

after 36 s

Detection time depends on the Jeweller/Fibra settings.

Power supply

Battery

4 × CR123A

Pre-installed.

Type

type C

Calculated battery life

up to 6 years

Operating voltage range

4.2–6.2 V $\approx$

Nominal operating voltage

6 V $\approx$

Quiescent current consumption at nominal voltage

0.464 mA

Maximum current consumption at nominal voltage

1200 mA

Full capacity

3,200 mAh

Low battery voltage

Low battery recovery voltage

5.055–5.355 V₌₌

End-of-life battery voltage

3.80 V₌₌

Device is switched off.

End-of-life battery capacity

300 mAh

Manufacturer

Duracell Procell

Enclosure

Dimensions

66,6 × 64 × 140

Weight

294 g

Operating temperature range

from -10 °C to +40 °C



Operating humidity

up to 75%

Protection class

IP30, IK04

Colours

Black



White



Complete set

Superior MotionCam G3 (PhOD) Jeweller

SmartBracket mounting panel

Installation kit

4 × CR123A battery (pre-installed)

Certification and compliance with standards



Superior MotionCam G3 (PhOD) Jeweller



Additional information

Compliance with standards

Learn more >

User manual

Learn more >

Warranty

24 months

Learn more >

Subscribe

Subscribe to our emails about secure life. No spam.

Subscribe

Request extra help

+447451279411

support@ajax.systems

@AjaxSystemsSupport_Bot

Ask a question



Rating 4.8

4,500,000

people worldwide under Ajax protection

Suggest a feature



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

Ajax Security System

Ajax PRO: Tool for Engineers

Ajax Desktop

Ajax PRO Desktop

Ajax TV

Ajax Translator PRO

Ajax Cloud Signaling

Ajax Media Player

Scenarios



Available on
App Store



Available on
Google Play

Solutions

Customer stories

Solutions by facility type

Commercial fire detection and alarm system

Wireless Grade 3 solution

Wired Grade 3 solution

Video surveillance solution

Integration with Yale smart locks

Water damage prevention

Support

Manuals and articles

Compliance with standards

Tools

Ajax kit configurator

Ajax device compatibility

CMS software compatibility

[Upgrades and retrofits](#)

[Why Ajax](#)

[How it works](#)

[Ajax Services availability](#)

[Video storage calculator](#)

[Video device calculator](#)

[Battery life calculator](#)

[Radio communication range calculator](#)

[Switches and outlets configurator](#)

[Fibra power supply calculator](#)

[All web tools](#)

Monitoring solutions and integrations

[Intrusion alarm monitoring](#)

[Video monitoring and visual alarm verification](#)

[Audio alarm verification](#)

Company

[Blog](#)

[About us](#)

[Press page](#)

[Events](#)

[Career](#)

[Ajax Next](#)

[Ajax PRO channel](#)

[Reviews and feedback](#)

For partners

[For partners](#)

[Ajax Academy](#)

[Partner Portal](#)

[Ajax PRO channel](#)

[!\[\]\(61cbff8bbd25336861f10067343260c6_img.jpg\) United Kingdom](#) [Privacy policy](#) [Report a vulnerability](#) [GDPR White Paper](#) [NDAA Statement](#) [Cookie policy](#)

[Anti-Spam Policy](#) [Ajax Services T&C](#) [End user agreement](#) [Warranty](#)

© 2026 AJAX SYSTEMS CH. All rights reserved