

Tech specs

BASELINE

# MotionCam Outdoor (PhOD) Jeweller

Wireless IR motion detector with photo camera



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## Compatibility

Compatible hub models [Hub 2 \(2G\)](#) [Hub 2 \(4G\)](#) [Hub 2 Plus](#) [Hub Hybrid \(2G\)](#) [Hub Hybrid \(4G\)](#)

Compatible range extenders [ReX 2](#)

## Communication

Jeweller communication technology

Proprietary wireless communication technology to transmit alarms and events. It features:

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

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 detector and hub or range extender in an open space.

[Calculate radio signal range at the facility](#)

### **Encrypted communication**

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

### Radio frequency hopping

Radio communication uses frequency hopping to prevent interception and jamming.

#### Wings communication technology

Proprietary wireless communication technology to transmit photo verifications. It features:

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

### Frequency bands

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Radio signal range: up to 1,700 m Between detector and hub or range extender in an open space.

[Calculate radio signal range at the facility](#)

### Radio frequency hopping

Radio communication uses frequency hopping to prevent interception and jamming.

## Detection

Sensitive elements: 2 × PIR sensor

Motion detection distance: up to 3–15 m

When installed at a height of 0.8–1.3 m. Adjusted with a scrollbar on the device enclosure.

Motion detection angles: horizontal — 90° vertical — N/A

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 PRO or user with admin rights in the Ajax app.

Pet immunity: weight: not relevant height: up to 80 cm

False alarm prevention

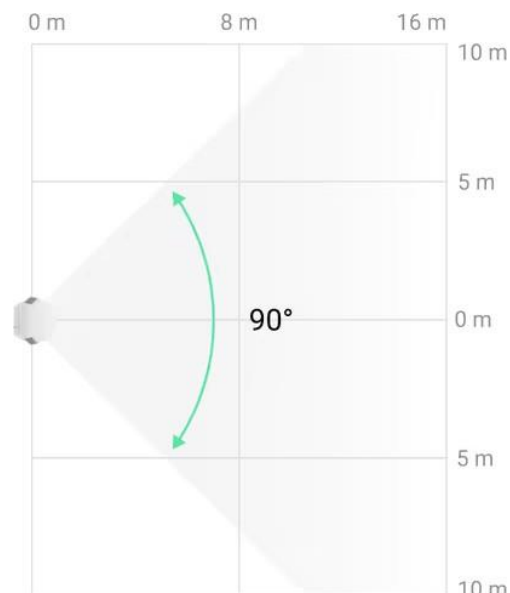
LISA

SmartDetect

Software algorithms.

Temperature compensation

Effective motion detection at temperatures from  $-25^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ .



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## Photo verification

Photo by alarm

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

Photo on demand

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

Photo by scenario

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

Photo resolution

640 × 352 px

320 × 176 px (by default)

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

Camera viewing angles: horizontal — 105° vertical — 50°

IR backlight: For night photography and low light conditions.

Pictures in a series

from 1 to 5 images with resolution of 320 × 176 px

from 1 to 3 images with resolution of 640 × 352 px

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

Photo delivery time

up to 9 s — 320 × 176 px resolution

up to 20 s — 640 × 352 px resolution

When the hub is connected via Ethernet or 4G and the Wings signal strength between hub and device is 2–3 bars.

TV distortion (EBU standard): barrel — 17%

### Recommendations

It is recommended to install the detector at a height of 0.8–1.3 m.

The device is designed for indoor and outdoor use.

Anti-sabotage protection

Anti-masking system

The detector is equipped with masking sensors reacting to hindering, covering and painting the lens.

Tampering alarm: Alerts of attempts to detach the detector from the surface or remove it from the mounting panel.

Protection against forgery: device authentication

Communication loss detection: within 36 s

Detection time depends on the Jeweller settings.

Power supply

4 × CR123A battery

Up to 3 years of battery life.

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### Enclosure

Dimensions: 206 × 108 × 93 mm

Weight: 470 g

Operating temperature range

from -25°C to +60°C

Operating humidity: up to 95%

Protection class: IP56



## Colour

White



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## Complete set

MotionCam Outdoor (PhOD) Jeweller Hood

To protect the camera and masking sensors from snow and rain.

SmartBracket mounting panel

Installation kit

4 × CR123A battery

Pre-installed.

Quick Start Guide

## Additional information

Warranty: 24 months