



MotionCam Outdoor (PhOD) Jeweller

Wireless outdoor PIR motion detector supporting photo verification of alarms, **Photo on Demand** and **Photo by Scenario** features.

An Ajax hub is required for operation.



2
GRADE
EN 50131

PD 6662
2017

Key features



Up to 15 m detection distance



Pet immunity



False alarms prevention algorithm



Effortless installation and replacement



Remote control and setup via the app



Anti-masking system



Temperature compensation



A built-in camera for photo verification



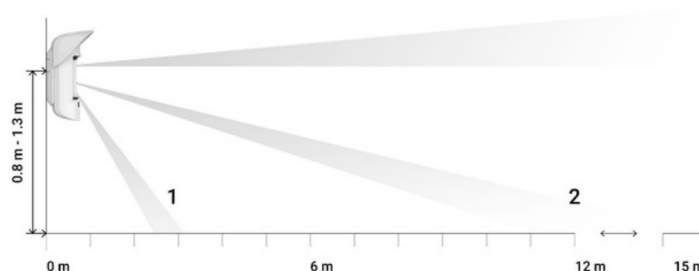
Up to 3 years of operation on pre-installed battery

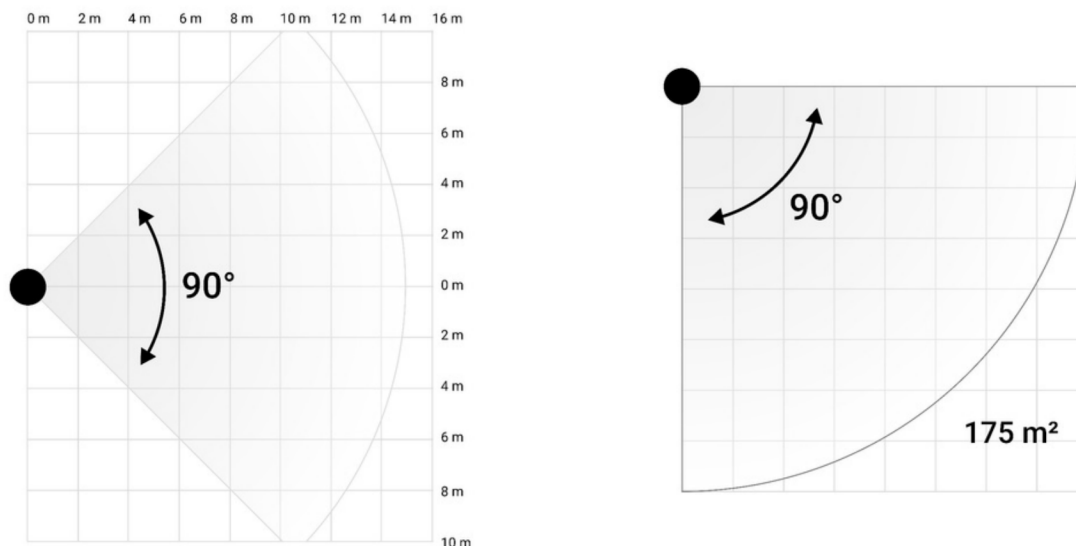


Connecting via QR code

Angles and detection range

The detection distance can be adjusted from 3 to 15 meters using the scrollbar on the back panel of the detector. Setting the correct detection range will protect against false alarms.





With the 90° horizontal viewing angle, MotionCam Outdoor (PhOD) Jeweller can cover up to 175 m² area.

False alarms prevention

MotionCam Outdoor (PhOD) Jeweller features a system of two independent PIR sensors that collect enough data to analyse the threat's reality with the SmartDetect and LISA software algorithms.

SmartDetect constantly analyses the thermal diagram from the PIR sensors: the intensity of IR radiation, the size of the thermal spots, movement speed, and other parameters. LISA compares the frequency components of sensors signals — it is a technology that guarantees detector accuracy. When the detector is correctly installed and configured, it does not react to common sources of false alarms and pets under 80 cm tall.



Pet immunity



Filtering sun glints and hot air streams

Photo verification

MotionCam Outdoor (PhOD) Jeweller is equipped with a built-in camera to show the real situation at the facility. There are three types of photo verification: by alarm, by scenario, and on demand. The user can request and see photos with one click in the Ajax app.

Photo by Alarm

A built-in camera is activated if the detector is armed and motion is detected. Only users with access to the hub event feed and security company employees can view the photos.

Photo by Scenario

A detector camera takes pictures automatically when other Ajax devices are triggered.

Photo on Demand

The user takes pictures at any time or when a detectors is armed (depending on settings). Photos on demand are not sent to the security company monitoring station.



HDR camera for clear photos



Up to 640 × 352 pixels photo resolution



IR backlight for low light conditions



Up to 5 photos in a series



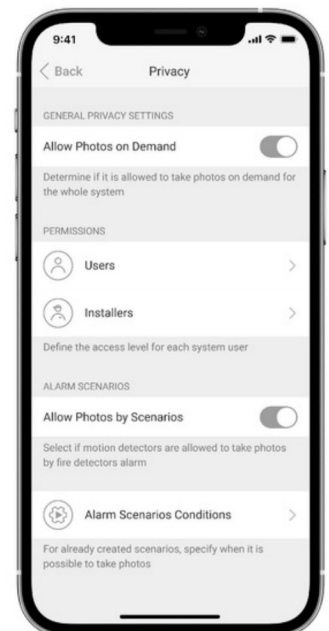
The Ajax security system product line also includes detectors without **Photo on Demand** and **Photo by Scenario** features. These detectors do not have the “PhOD” mark in the product name.

Privacy on demand

Users can manage access rights to detectors with photo verification. The access level can be defined for each system user. Privacy settings determine:

- Which user can take and view photos on demand.
- Which detectors with photo verification can be used to take photos on demand.
- When the user can take photos on demand: at any moment or only when a detector is armed.

By default, all hub admins have the right to manage privacy settings. PRO users cannot manage privacy settings.



Photos are encrypted throughout the transmission and storage processes



Photos are available only for users with proper access rights

Monitoring software that supports Ajax photo verification

HORUS

Horus

Manitou®

Manitou



SBN



Sentinel



WBB

Weatherproof design

MotionCam Outdoor (PhOD) Jeweller is ready to operate in various climate zones. The detector is protected from dust and splashes and features a temperature compensation technology, making it effective in any weather conditions. The bundled hood protects masking sensors from rain and snow.



IP55 enclosure



-25° to +60°C temperature range



Hood in the set

Antisabotage protection

The anti-masking system calibrates automatically when mounting the device onto SmartBracket. Then, if an obstacle appears in the field of view of anti-masking sensors or if they are painted, the detector notifies users and a security company. A tamper is immediately activated when the detector is dismantled from the bracket. The system needs less than a minute to identify communication loss with the detector.



Grade 2 anti-masking



Tampering alarm



Polling period from 12 s

Two-way encrypted communication



Jeweller



Wings

communication technology



Jeweller and **Wings** are two-way **wireless data transfer protocols** that provide fast and reliable communication between hubs and devices. Radio protocols work independently of each other and focus on their own function. The **Jeweller** protocol delivers instant data-rich alarms: security companies and users know which device was triggered, when and where it happened. The **Wings** protocol delivers photos taken by a detector built-in camera.

Both protocols feature **encryption** and **authentication** to prevent forgery, and **polling** to display devices' status in real time. Supporting **up to 1,700 m** of wireless connectivity, Jeweller and Wings are ready to protect facilities and deliver **the best user experience** for both end users and installers.



Up to 1,700 m of two-way encrypted wireless communication between hub and detector



Alarm delivery in 0.15 s,
the first photo – less than in 9 s

Hassle-free installation

To add a detector to the system, the installer scans the QR code with the Ajax app and assigns a name and a room. Configuring is done in the app in real-time using detection zone and signal strength tests. The detector can be disabled or its system parameters can be reconfigured remotely.



Technical specifications

Compliance with standards	EN 50131 (Grade 2)	Compatibility	Hubs Hub 2 Hub 2 Plus Hub Hybrid (2G) Hub Hybrid (4G) Range extenders ReX 2
Communication channels with Ajax devices	 Jeweller communication technology  Wings communication technology 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 region of sale Maximum effective radiated power (ERP) ≤ 20 mW	Motion detection	Sensitive element 2 × PIR sensor Detection distance up to 15 m When installed at a height of 0.8–1.3 m from the ground level 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

Communication channels with Ajax devices	Communication range up to 1,700 m In an open space Polling interval 12–300 s Adjusted by PRO or user with admin rights in the Ajax app Protection against forgery Device authentication	Motion detection	Temperature compensation Sensitivity 3 levels Adjusted by PRO or user with admin rights in the Ajax app Pet immunity height: up to 80 cm weight: N/A
Photo verification	Photo resolution in pixels 640 × 352 320 × 176 (default) Adjusted by PRO or user with admin rights in the Ajax app Photos in a series from 1 to 5 pics Adjusted by PRO or user with admin rights in the Ajax app IR backlight	Power supply	Battery 4 x CR123A, 3 V Pre-installed Battery life up to 3 years
Enclosure	Colour white Dimensions 206 × 108 × 93 mm Weight 470 g Tampering alarm	Installation	Recommended installation height 0.8–1.3 m from the ground level Operating temperature range from –25°C to +60°C Operating humidity up to 95% Protection class IP55

Complete set	MotionCam Outdoor (PhOD) Jeweller 4 × CR123A battery (pre- installed) SmartBracket mounting panel Hood Installation kit Quick Start Guide	
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