

MotionCam Jeweller

Wireless indoor IR motion detector supporting photo verification of alarms.

An Ajax hub is required for operation.



2
GRADE
EN 50131

PD 6662
2017

Key features

12 m Up to 12 m detection distance

Pet immunity

False alarms prevention algorithm

Up to 4 years of operation on pre-installed batteries

Remote control and setup via the app

88.5°/80° viewing angles

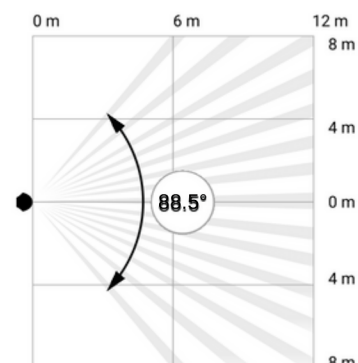
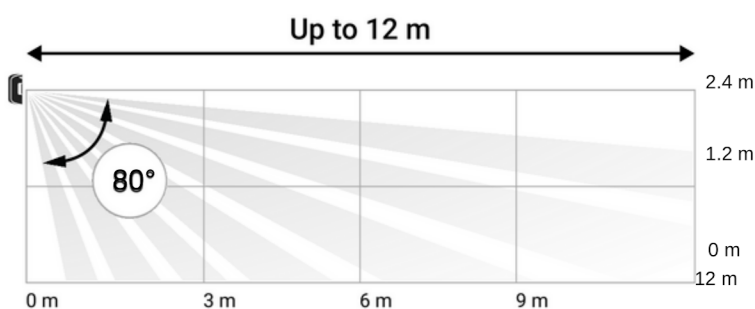
Temperature compensation

A built-in camera for photo verification

Effortless installation and replacement

Connecting via QR code

Angles and detection range



False alarms prevention

Optics

The detector lens increases sensitivity to human motion, cutting off false alarms caused by other sources of IR radiation. It is designed so that potential IR radiation from pets and other interferences affect only the small lens sections. Large sections, on the contrary, are aimed at the most likely places of burglar motion.

Software

For additional protection against false alarms, the detector uses the SmartDetect algorithm. The armed detector constantly analyses the thermal diagram from the IR sensor: the intensity of IR radiation, the size of the thermal spots, the speed of movement and other parameters.

Installation

When properly installed and configured, the detector does not react to common sources of false alarms and pets under 50 cm tall and 20 kg in weight. The detector has pre-installed batteries and the SmartBracket mounting panel. So, installers don't need to disassemble the device and won't damage the electronics during installation.

Photo verification



MotionCam equipped with a built-in camera to show the real situation at the facility. 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. The detector software architecture does not support taking a photo on demand.



Up to 640 × 480 pixels
photo resolution



Up to 5 photos in a series



IR backlight for low light
conditions

Privacy on demand

MotionCam is designed to control security, not privacy. Graphic data is securely protected by encryption at each step of transmission and storage. Only hub users can access its virtual storage on Ajax Cloud and view photos taken by MotionCam detectors. Photos are stored for up to 6 months in the hub event log in Ajax apps. The Ajax Cloud is located on geographically distributed servers in compliance with the General Data Protection Regulation (GDPR) requirements.

Monitoring software supporting the Ajax photo verification

HORUS

Horus

Manitou®

Manitou



SBN



Sentinel



WBB

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 connected devices. Jeweller delivers instant data-rich alarms: security companies and users know which device was triggered, when and where it happened. Wings delivers photos taken by a detector built-in camera.

Both protocols feature encryption and authentication to prevent forgery, and polling to display devices' status. Supporting up to 1,700 m of wireless connectivity between MotionCam detectors and hub (or range extender), Jeweller and Wings are ready to protect facilities and deliver the best user experience for both end users and installers.



The first photo delivery in 9 s1



Alarm delivery within 0.3 s

Technical specifications

Compliance with standards	EN 50131 (Grade 2) PD 6662:2017	CMS connectivity	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 sales. Maximum effective radiated power (ERP) ≤ 20 mW 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	Sensitive element PIR sensor Detection distance up to 12 m When installed at a height of 2.4 m. Detection angles horizontal — 88.5° vertical — 80° 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. Temperature compensation Sensitivity 3 levels Adjusted by PRO or user with admin rights in the Ajax app. Pet immunity weight: up to 20 kg height: up to 50 cm

Photo verification	Photo resolution in pixels 640 × 480 320 × 240 (default) 160 × 120 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	Installation	Recommended installation height 2.4 m Operating temperature range from –10°C to +40°C Operating humidity up to 75% Protection class IP50
Power supply	Battery 2 × CR123A Pre-installed. Battery life up to 4 years	Enclosure	Colour white, black Dimensions 110 × 65 × 50 mm Weight 86 g Tampering alarm
Complete set	MotionCam Jeweller 2 × CR123A battery Pre-installed SmartBracket mounting panel Installation kit Quick Start Guide		