

# MotionCam Jeweller

Wireless indoor IR motion detector supporting photo verification of alarms.



An Ajax hub is required for operation. Find the detailed information on the device by the link:

<http://ajax.systems/support/devices/motioncam/>



2  
GRADE  
EN 50131

PD 6662  
2017

## Key features

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

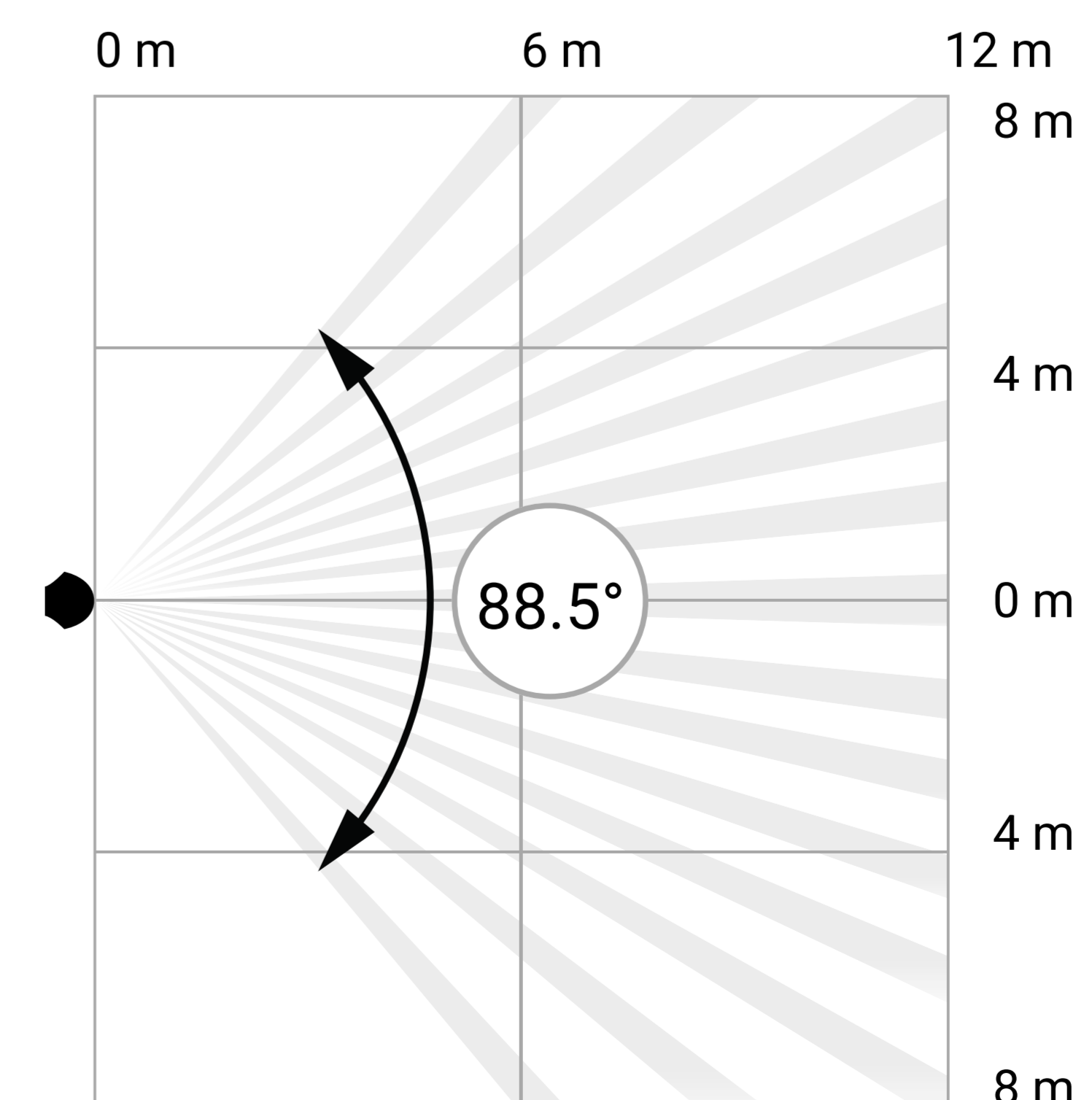
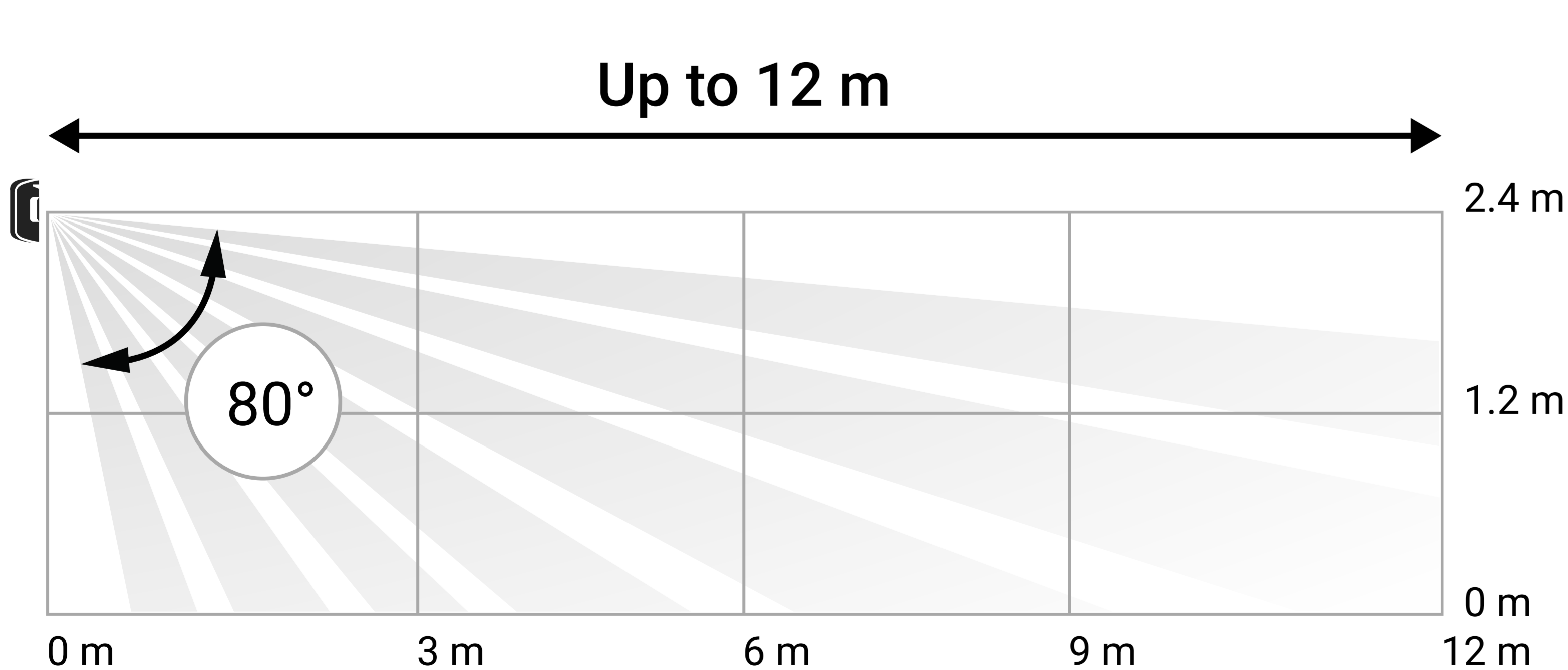
Temperature compensation

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.

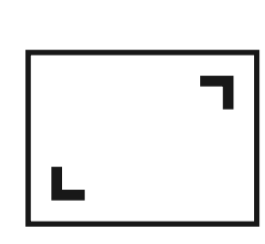
## Installation

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



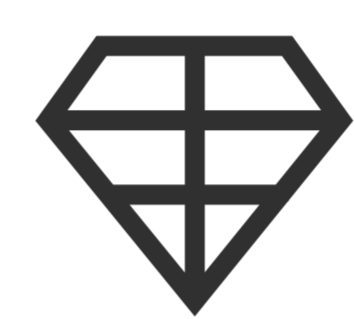
WBB

See the full list by the link: [ajax.systems/connecting-to-cms/](https://ajax.systems/connecting-to-cms/)

## Two-way encrypted communication



Jeweller



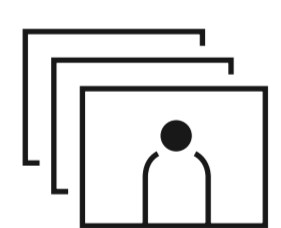
Wings

communication technology

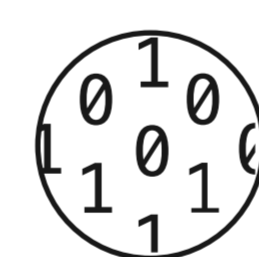


**Jeweller** and **Wings** are two-way **wireless data transfer protocols** that provide fast and reliable communication between hubs and connected devices. **Jeweller** delivers instant data-rich alarms: security companies and users know which device was triggered, when and where it happened. **Wings** 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 s<sup>1</sup>



Alarm delivery within 0.3 s

# Technical specifications



<p>Compliance with standards</p>	<p>EN 50131 (Grade 2) PD 6662:2017</p>	<p>Communication channels with Ajax devices</p> <p> <b>Jeweller communication technology</b></p> <p> <b>Wings communication technology</b></p> <p><b>Frequency bands</b> 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.</p> <p><b>Maximum effective radiated power (ERP)</b> ≤ 20 mW</p> <p><b>Communication range</b> up to 1,700 m In an open space.</p> <p><b>Polling interval</b> 12–300 s Adjusted by PRO or user with admin rights in the Ajax app.</p> <p><b>Protection against forgery</b> Device authentication</p>	<p>CMS connectivity</p> <p><b>Hubs</b> Hub 2 Hub 2 Plus Hub Hybrid (2G) Hub Hybrid (4G)</p> <p><b>Range extenders</b> ReX 2</p> <p>Motion detection</p> <p><b>Sensitive element</b> PIR sensor</p> <p><b>Detection distance</b> up to 12 m When installed at a height of 2.4 m.</p> <p><b>Detection angles</b> horizontal – 88.5° vertical – 80°</p> <p><b>Motion detection speed</b> 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.</p> <p><b>Temperature compensation</b></p> <p><b>Sensitivity</b> 3 levels Adjusted by PRO or user with admin rights in the Ajax app.</p> <p><b>Pet immunity</b> weight: up to 20 kg height: up to 50 cm</p>
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Photo verification	<p><b>Photo resolution in pixels</b> 640 × 480 320 × 240 (default) 160 × 120 Adjusted by PRO or user with admin rights in the Ajax app</p> <p><b>Photos in a series</b> from 1 to 5 pics Adjusted by PRO or user with admin rights in the Ajax app</p> <p><b>IR backlight</b></p>	Installation	<p><b>Recommended installation height</b> 2.4 m</p> <p><b>Operating temperature range</b> from -10°C to +40°C</p> <p><b>Operating humidity</b> up to 75%</p> <p><b>Protection class</b> IP50</p>
Power supply	<p><b>Battery</b> 2 x CR123A Pre-installed.</p> <p><b>Battery life</b> up to 4 years</p>	Enclosure	<p><b>Colour</b> white, black</p> <p><b>Dimensions</b> 110 × 65 × 50 mm</p> <p><b>Weight</b> 86 g</p> <p><b>Tampering alarm</b></p>
Complete set	<p>MotionCam Jeweller 2 × CR123A battery Pre-installed SmartBracket mounting panel Installation kit Quick Start Guide</p>		