

MotionCam (PhOD) Jeweller

Wireless IR motion detector supporting **photo** by alarm, photo on demand, photo by schedule, and photo by scenario features



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



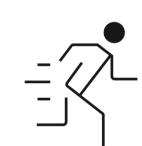
http://ajax.systems/support/devices/motioncam-phod/







Key features



Up to 12 m detection distance



Pet immunity



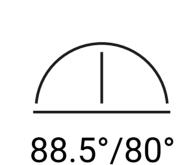
False alarms prevention algorithm



Up to 4 years of operation on pre-installed battery



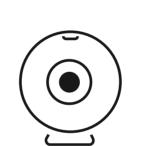
Remote control and setup via the app



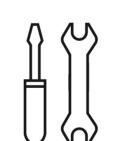
88.5°/80° viewing angles



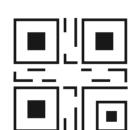
Temperature compensation



A built-in camera for photo verification

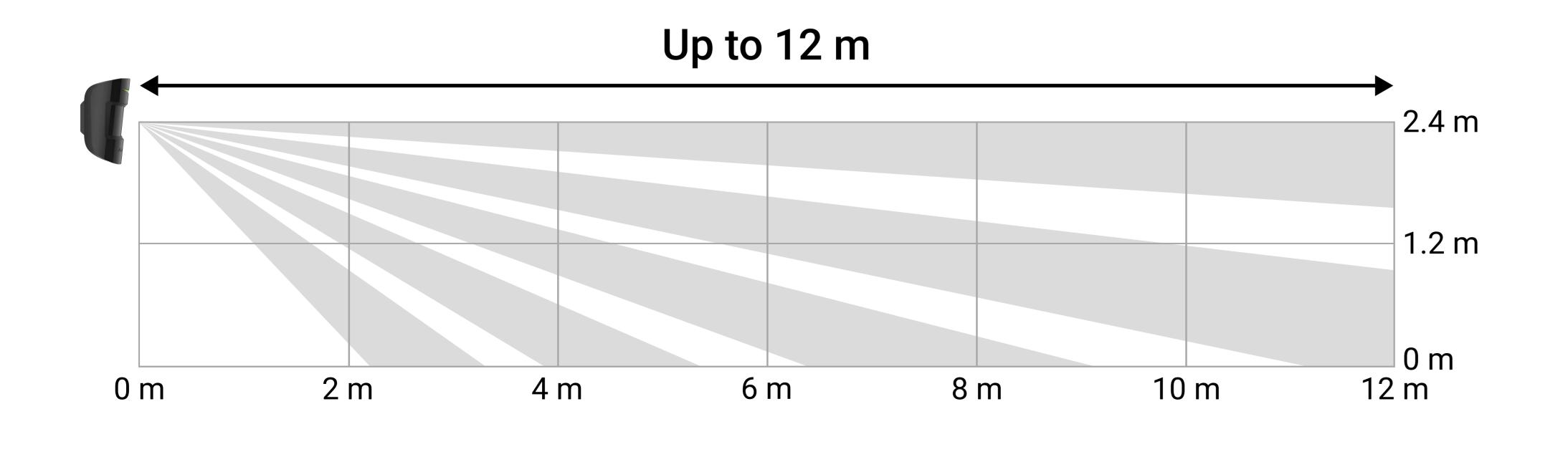


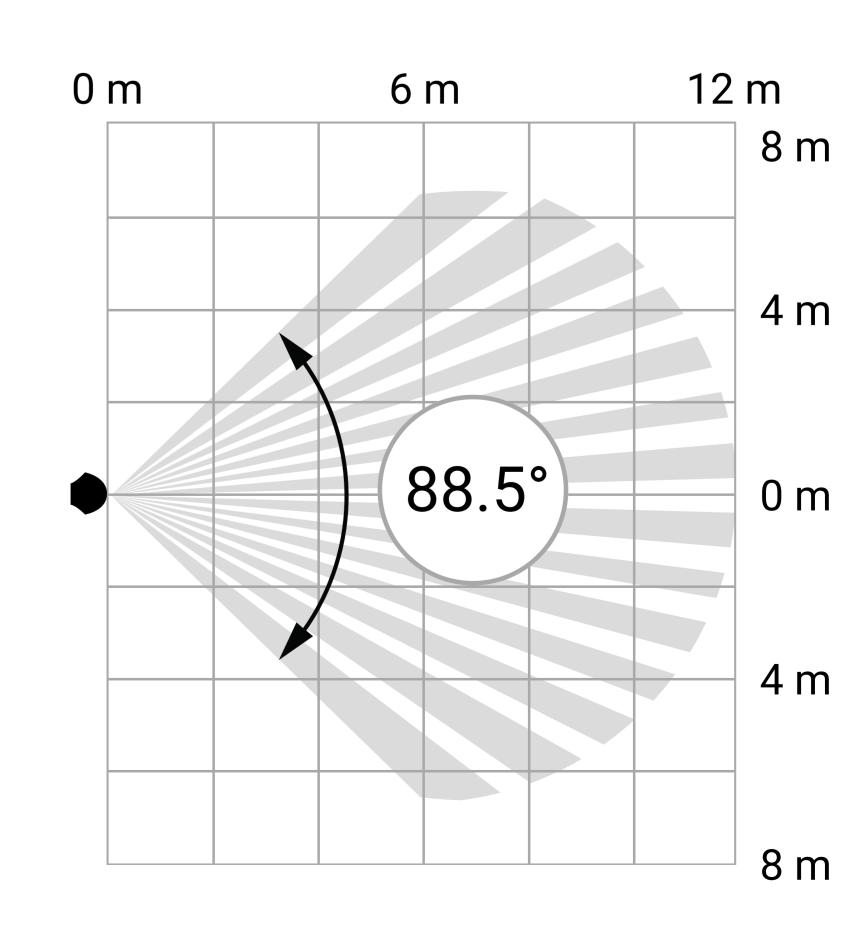
Effortless installation and replacement



Connecting via QR code

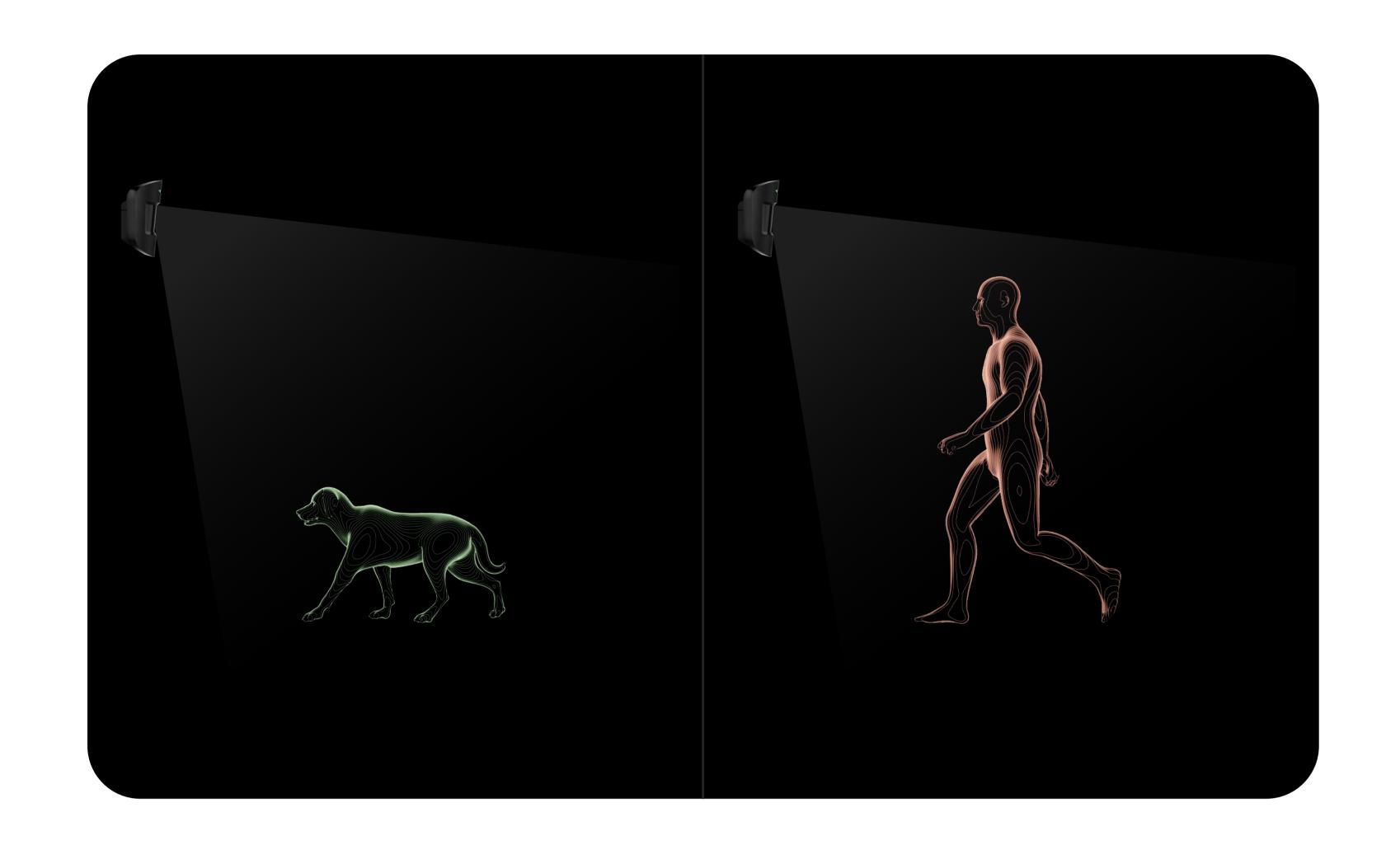
Angles and detection range





False alarms prevention

MotionCam (PhOD) Jeweller combines special optics and software to filter false alarms. When professionally installed, the detector doesn't react to pets and other common sources of false alarms.

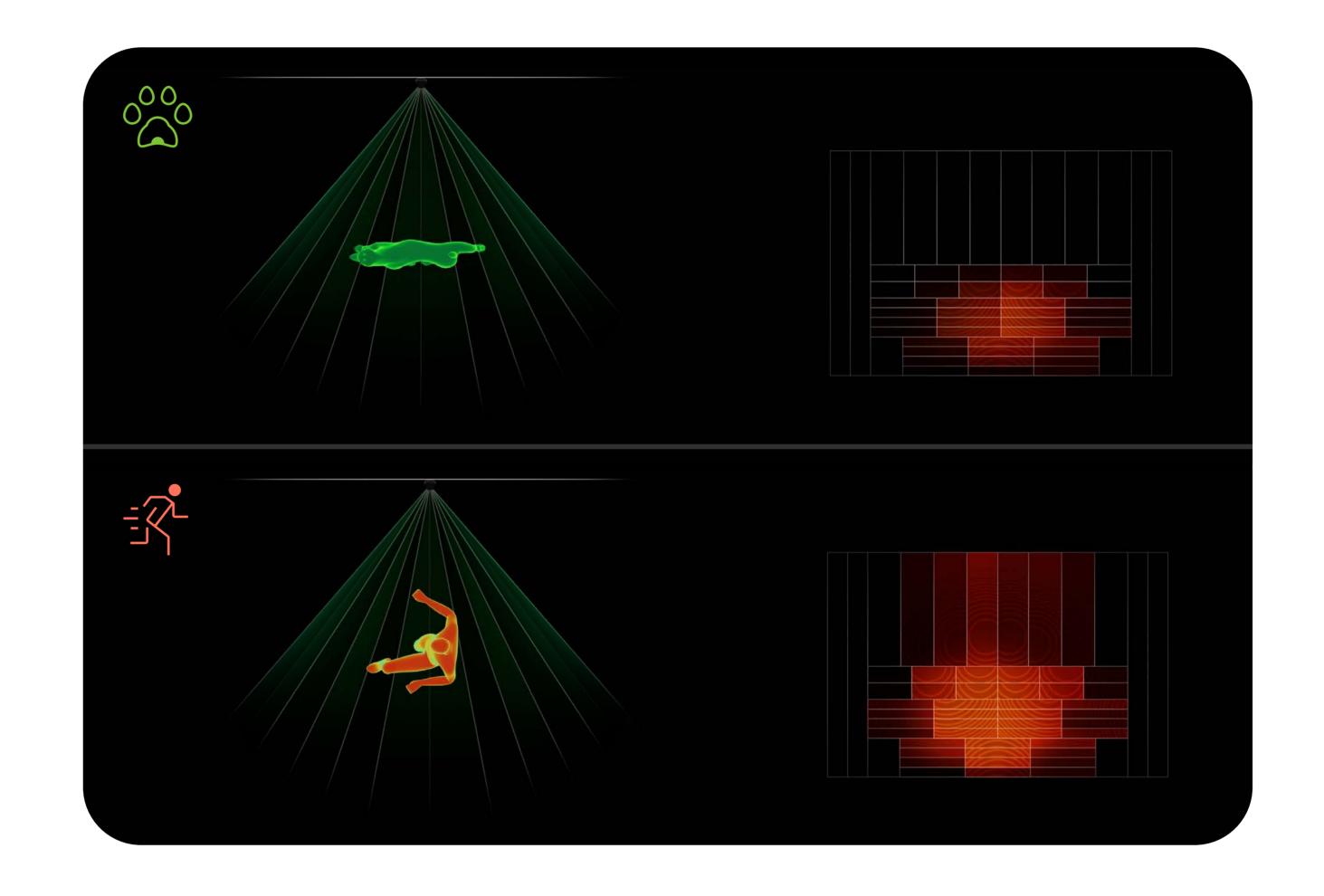


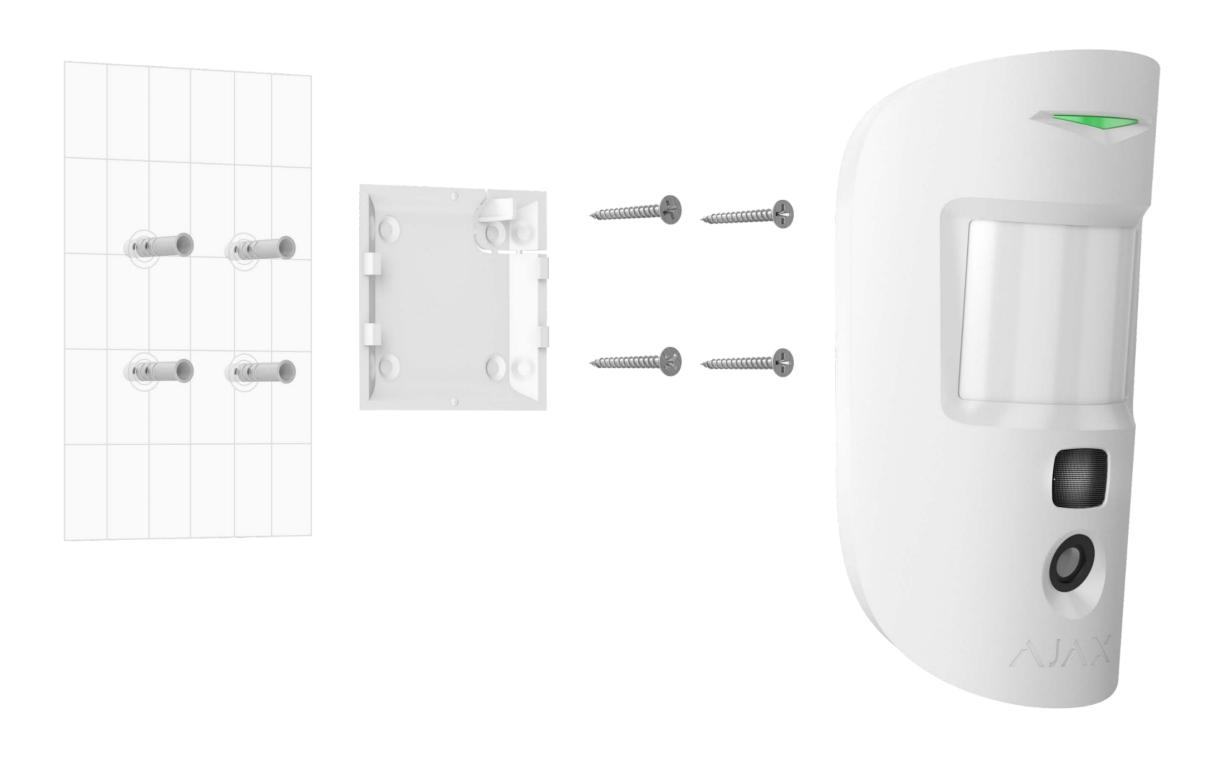
Optics

The detector lens increases sensitivity to human motion, cutting off false alarms to 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 PIR 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 weight. For seamless installation, it has pre-installed batteries and the SmartBracket mounting panel. So, installers don't need to disassemble the detector and won't damage the electronics during installation.

Photo verification

MotionCam (PhOD) Jeweller equipped with a built-in camera to show the real situation at the facility. There are four types of photo verification: by alarm, by scenario, by schedule, and on demand. The user can request and view 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

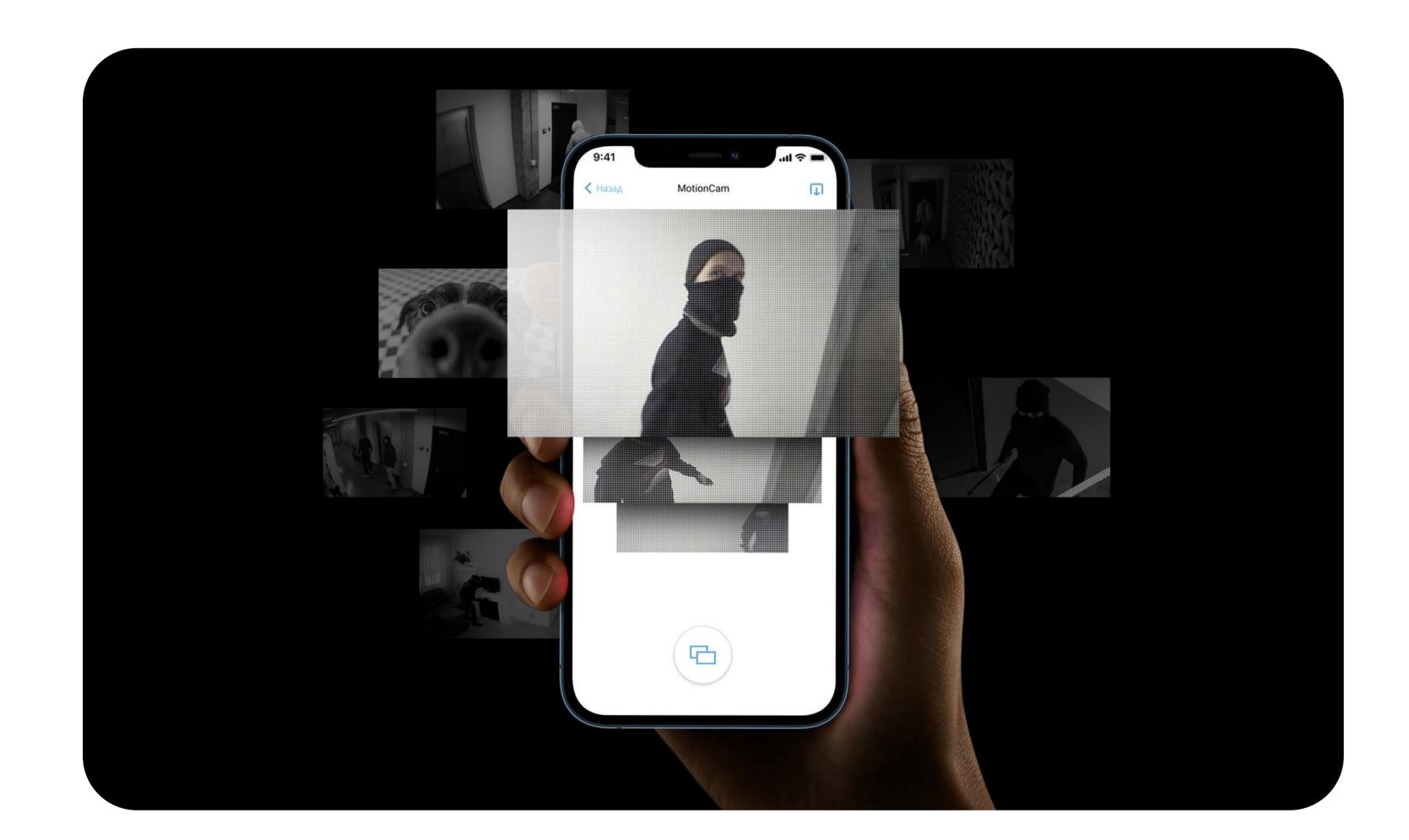
A detector camera takes pictures automatically when other Ajax devices are triggered.

Photo on Demand

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

Photo by Schedule

The detector automatically takes photos at a specified time.



- Up to 640 × 480 pixels photo resolution
- Up to 5 photos in a series
- IR backlight for low light conditions

(L)

The MotionCam series includes detectors without **Photo on Demand, Photo by Schedule,** and **Photo by Scenario** features. These devices do not have the "PhOD" mark in the product name.

Monitoring software that supports Ajax photo verification



Manitou®







Horus

Manitou

SBN

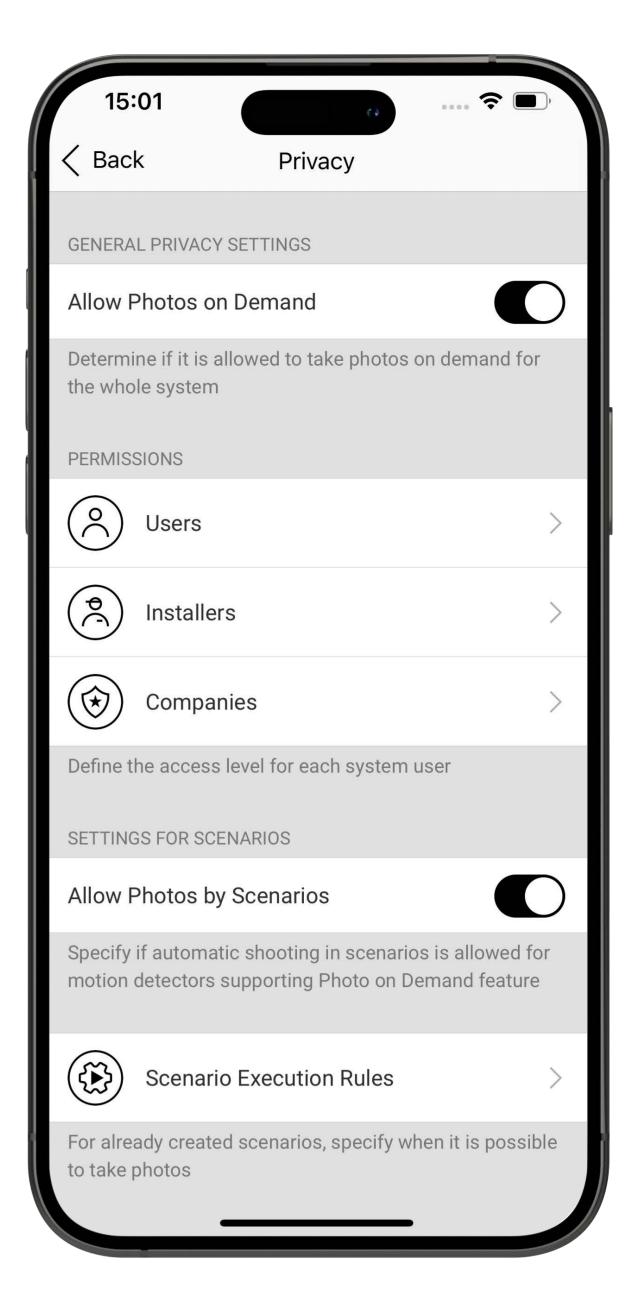
See the full list by the link: ajax.systems/connecting-to-cms/

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

Two-way encrypted communication

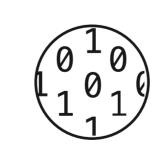


Jeweller and **Wings** are two-way **wireless data transfer protocols** that provide fast and reliable communication between hubs and devices. Radio protocols work independently of each other and focus on their own function. The **Jeweller** protocol delivers instant data-rich alarms: security companies 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 experienc**e for both end users and installers.



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



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

Technical specifications

Compliance with standards	EN 50131 (Grade 2) PD 6662:2017	CMS connectivity	Hub 2 Hub 2 Plus Hub Hybrid (2G) Hub Hybrid (4G) Range extenders ReX 2
Communication channels with Ajax devices	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 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	Motion detection	Sensitive element 1 × PIR sensor Detection distance up to 12 m When installed at a height of 2.4 m Detection angle horizontal — 88.5° 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

Communication with control panel or range extender	Protection against spoofing Device authentication	Motion detection	Pet immunity weight: up to 20 kg height: up to 50 cm SmartDetect software algorithm filtering false alarms
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 x CR123A, 3 V Pre-installed Battery life up to 4 years With Photo on demand disabled up to 3 years With Photo on demand enabled	Enclosure	Color white, black Dimensions 110 × 65 × 50 mm Weight 86 g Tampering alarm
Complete set	MotionCam (PhOD) Jeweller 2 × CR123A battery Pre-installed SmartBracket mounting panel Installation kit Quick start guide		