## 

## MotionCam (PhOD) Jeweller

Wireless indoor IR motion detector supporting photo verification of alarms, Photo on Demand









#### and Photo by Scenario features



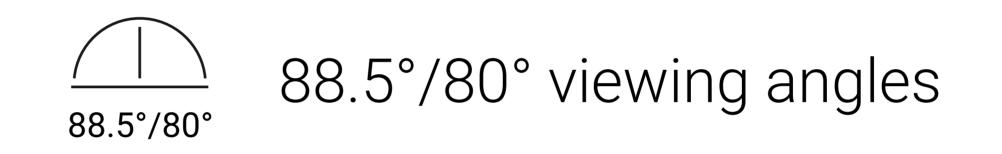
An Ajax hub is required for operation. Find the detailed information on the device by the link:



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

## Key features

 $=\overline{\mathbb{Z}}$ Up to 12 m detection distance



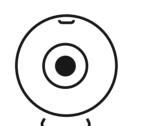






Up to 4 years of operation on pre-installed battery





A built-in camera for photo verification

## 

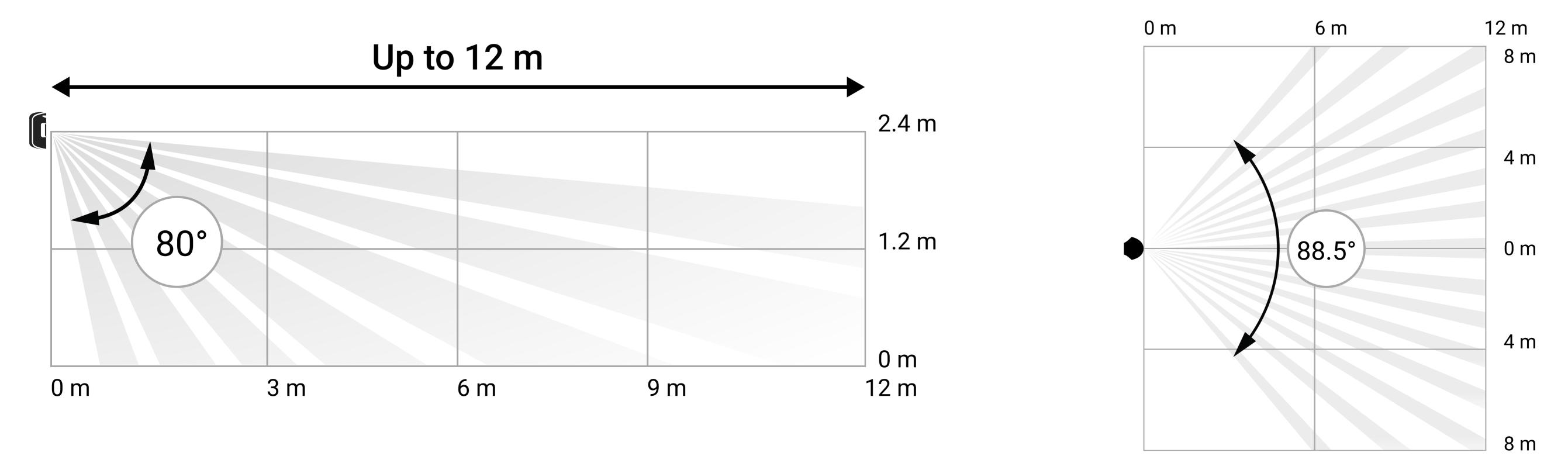
Effortless installation and replacement



Remote control and setup via the app

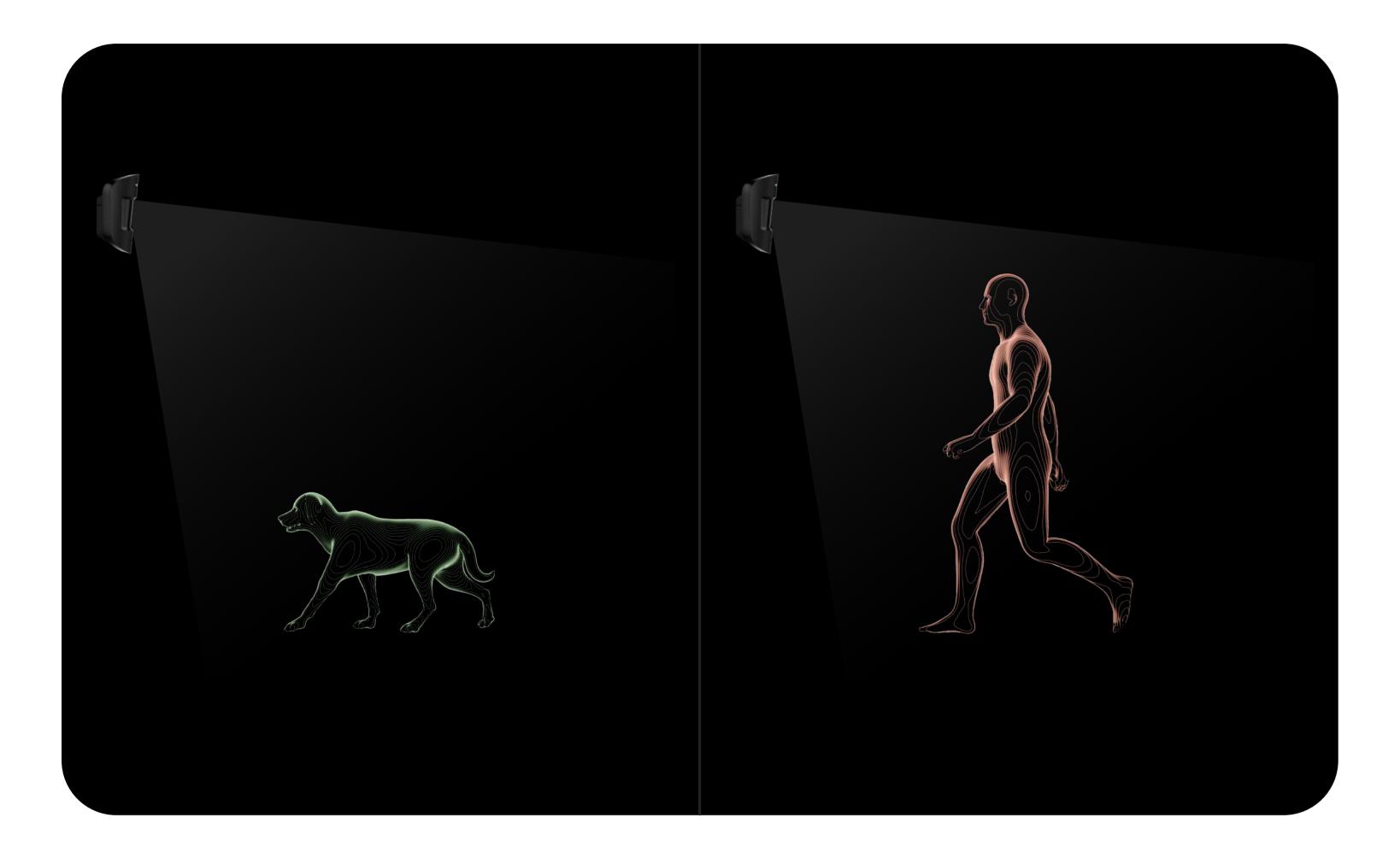
Connecting via QR code

## 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.



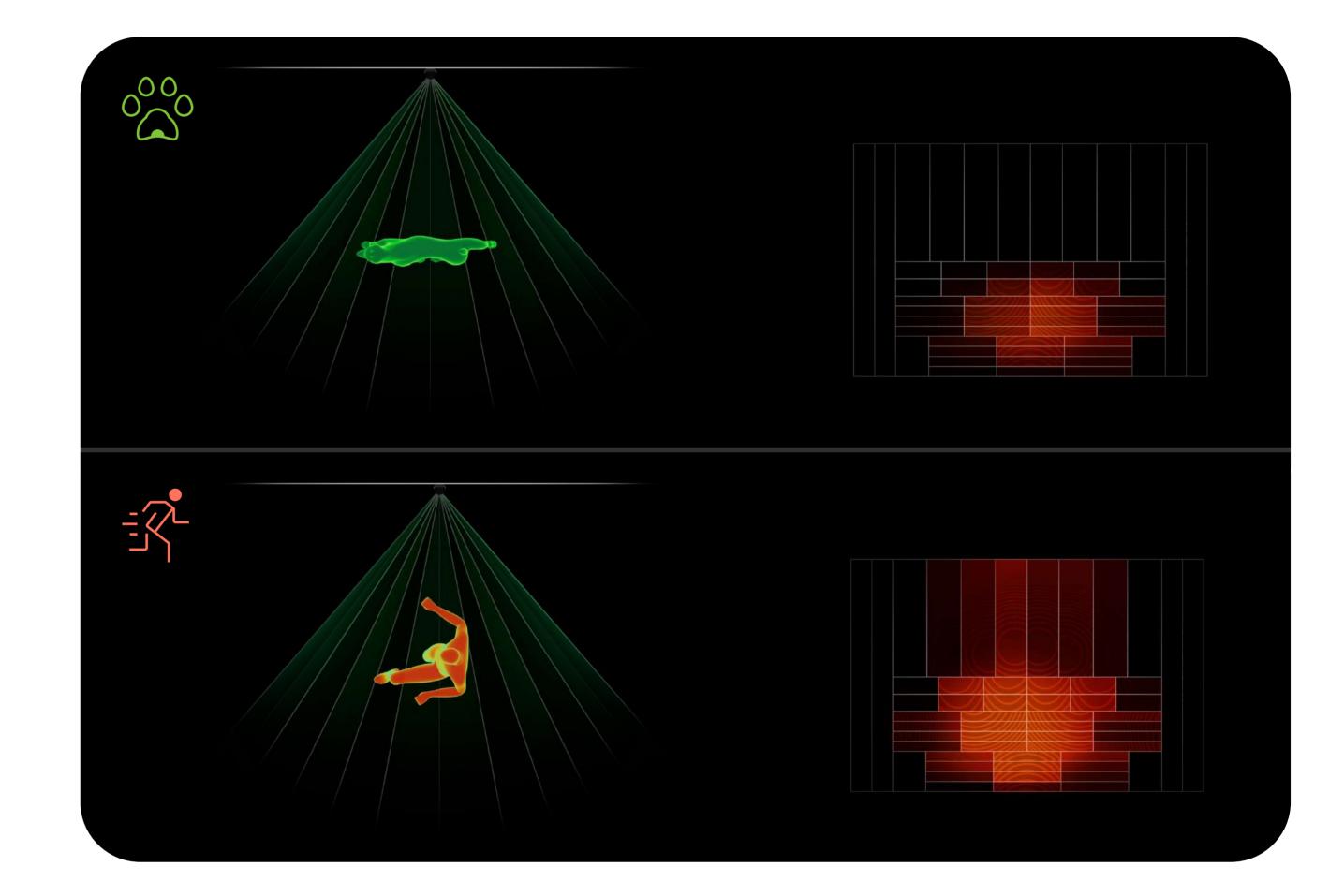
#### Optics

The detector lens increases sensitivity to human

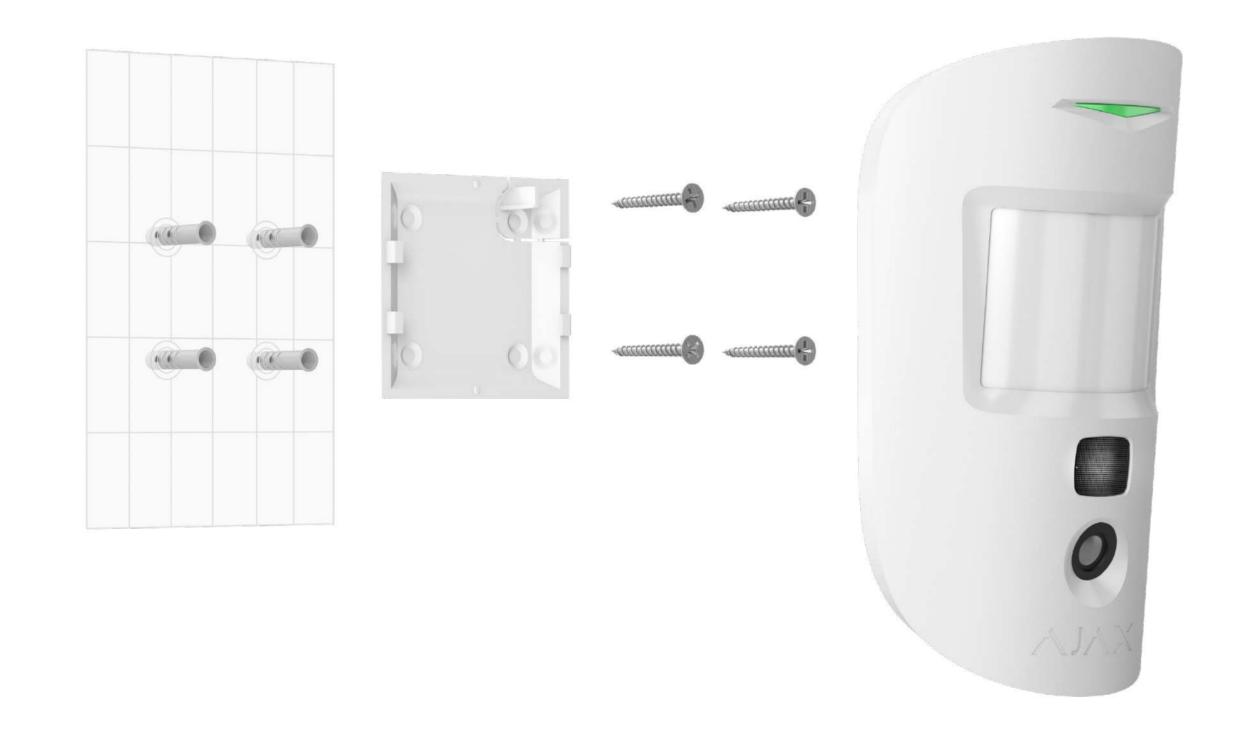
motion, cutting off false alarms to other sources of IR radiation. It is designed so that potential IR radiation from pets and other interferences affect only the small lens sections. Large sections, on the contrary, are aimed at the most likely places of burglar motion.

#### 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 three types of photo verification: by alarm, by scenario, and on demand. The user can request and view photos with one click in the Ajax app.

#### Photo by Alarm

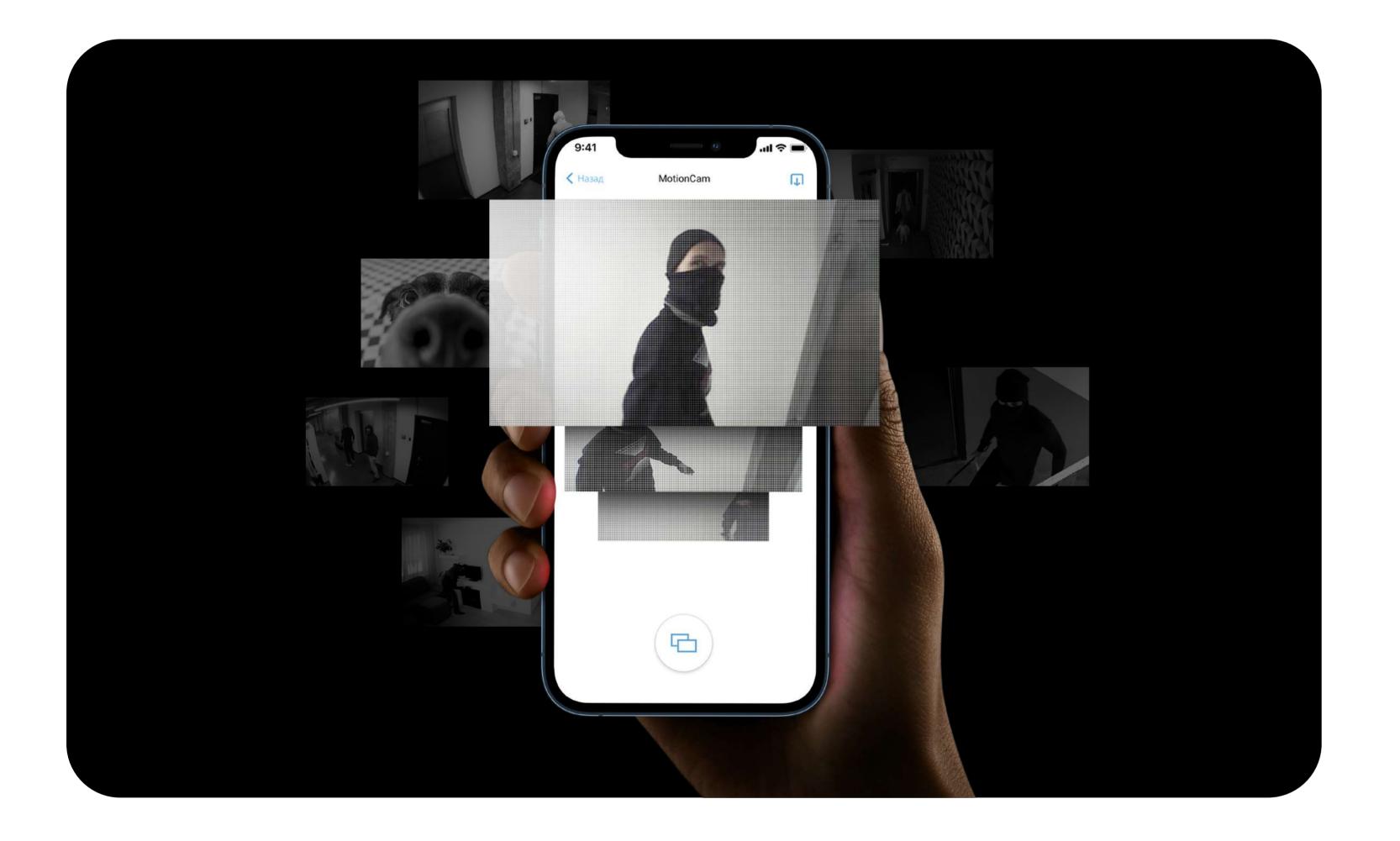
A built-in camera is activated if the detector is armed and motion is detected. Only users with access to the hub event feed and security company employees can view the photos.

#### 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.







Up to 5 photos in a series



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

#### Monitoring software that supports Ajax photo verification









Horus



SBN



WBB

3

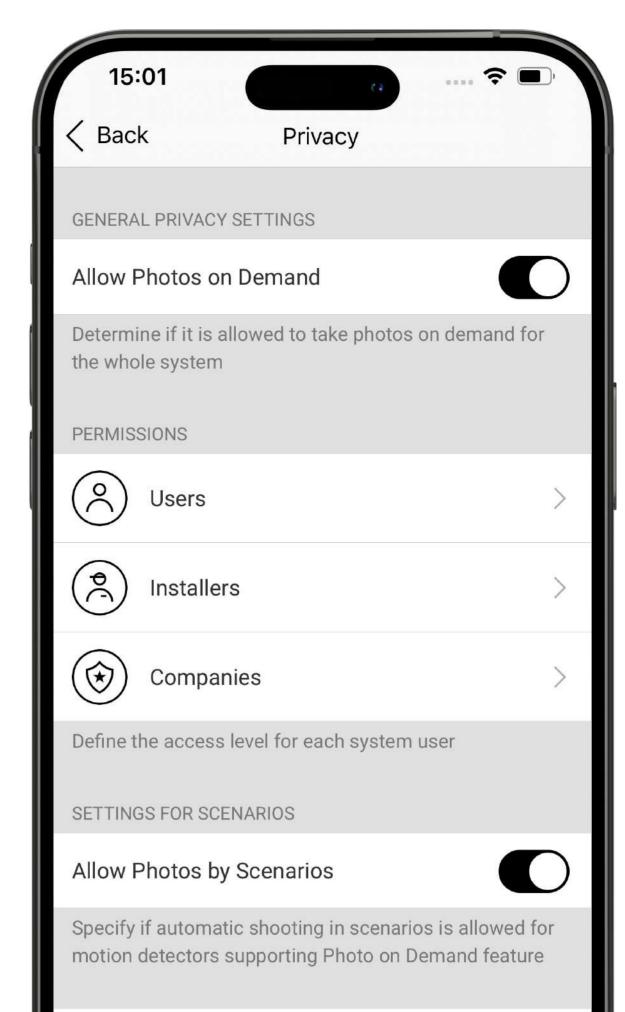
#### See the full list by the link: ajax.systems/connecting-to-cms/

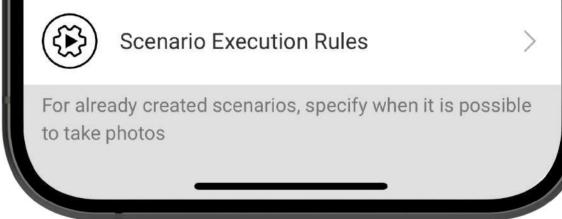
#### Privacy on demand

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.

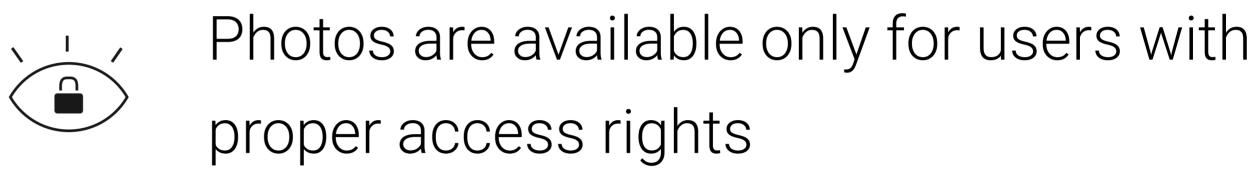
By default, all hub admins have the right to manage privacy settings. PRO users



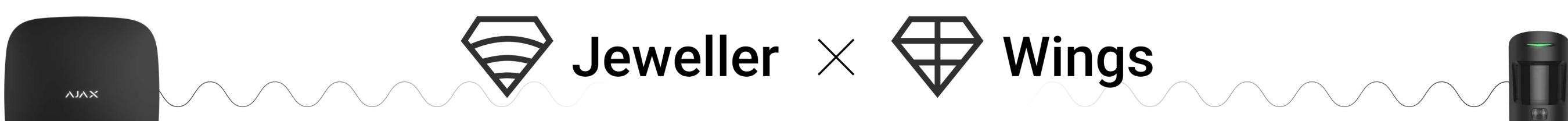




Photos are encrypted throughout the transmission and storage processes



## Two-way encrypted communication



#### communication technology



4

# 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.

 $\begin{pmatrix} 0 & 1 & 0 \\ 1 & 0 & 1 \\ 1 & 1 & 1 \end{pmatrix}$ 



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

Hubs

Hub 2

Hub 2 Plus Hub Hybrid (2G) Hub Hybrid (4G)

Range extenders

ReX 2

Communication channels with Ajax devices

Jeweller  $\langle \Delta \rangle$ communication technology

Wings communication technology

Frequency bands 866.0 - 866.5 MHz 868.0 - 868.6 MHz

Motion detection

Sensitive element 1 × PIR sensor

**Detection distance** up to 12 m When installed at a height of 2.4 m

**Detection angles** horizontal – 88.5° vertical – 80°

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

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

Polling interval 12-300 s Adjusted by PRO or user with admin rights in the Ajax app

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

Communication with control panel or range extender	Protection against forgery 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 $640 \times 480$ $320 \times 240$ (dofault)	Installation	Recommended installation height

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

2.4 m

Operating temperature range from -10°C to +40°C

**Operating humidity** up to 75%

Protection class IP50



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

Colour white, black

Dimensions 110 × 65 × 50 mm

Weight 86 g

Tampering alarm

6

Complete set

MotionCam (PhOD) Jeweller 2 × CR123A battery Pre-installed SmartBracket mounting panel Installation kit Quick Start Guide