

MotionCam Fibra

Wired IR motion detector supporting photo by alarm feature



The device is compatible only with hubs supporting the Fibra protocol. Find the detailed information by QR code or the link:

ajax.systems/support/devices/motioncam-fibra/

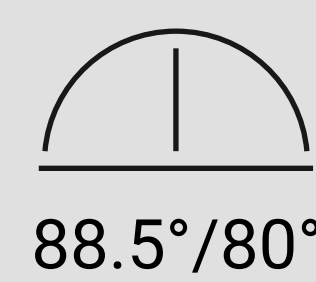
- 2 GRADE EN 50131
- PD 6662 2017
- INCERT
- NFA2P



MotionCam Fibra is a device of the wired Fibra product line. Only accredited Ajax Systems partners can sell, install, and administer Fibra products.



Up to 12 m¹ motion detection distance



Viewing angles: horizontal – 88.5°, vertical – 80°



SmartDetect software algorithm to prevent false alarms

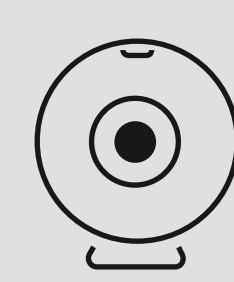
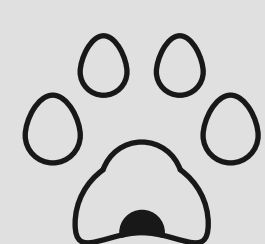
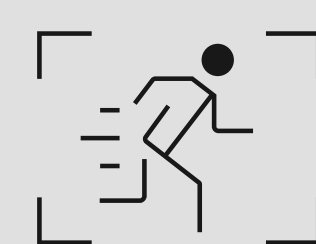


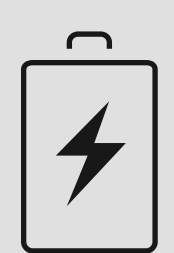
Photo by Alarm support



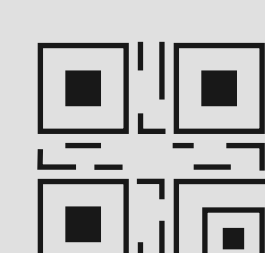
Pet immunity



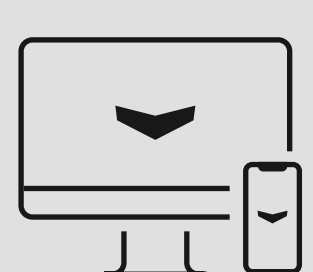
9 seconds to deliver the first photo



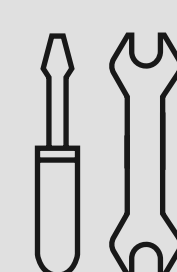
Low power consumption: up to 0.12 W



Pairing with the security system via QR code or Fibra lines scanning

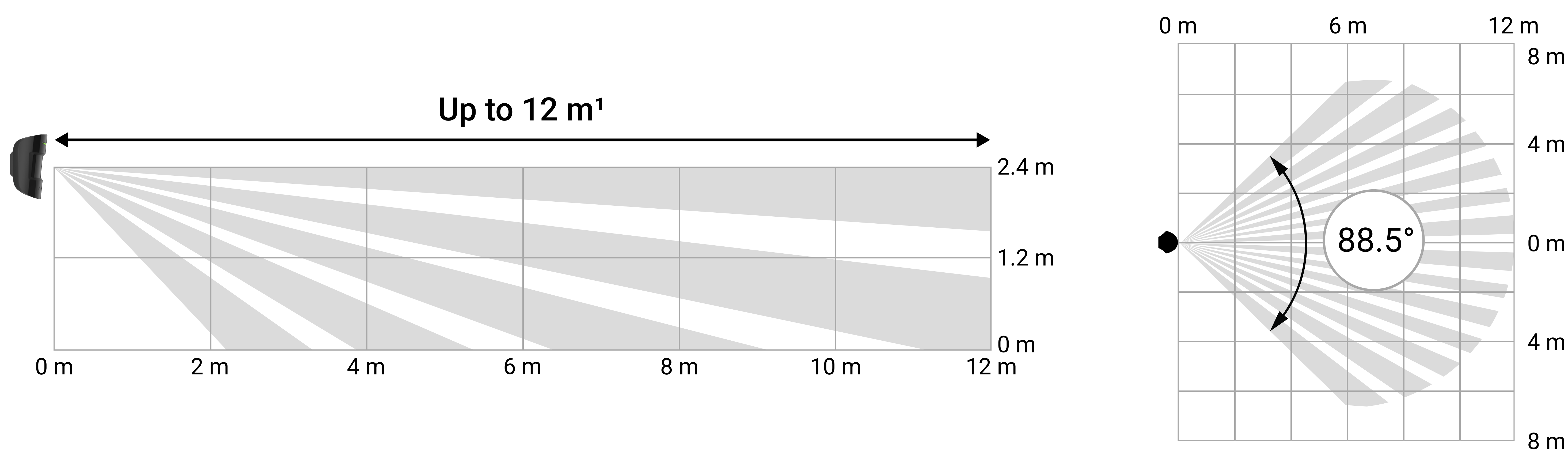


Remote control and configuration in desktop and mobile apps

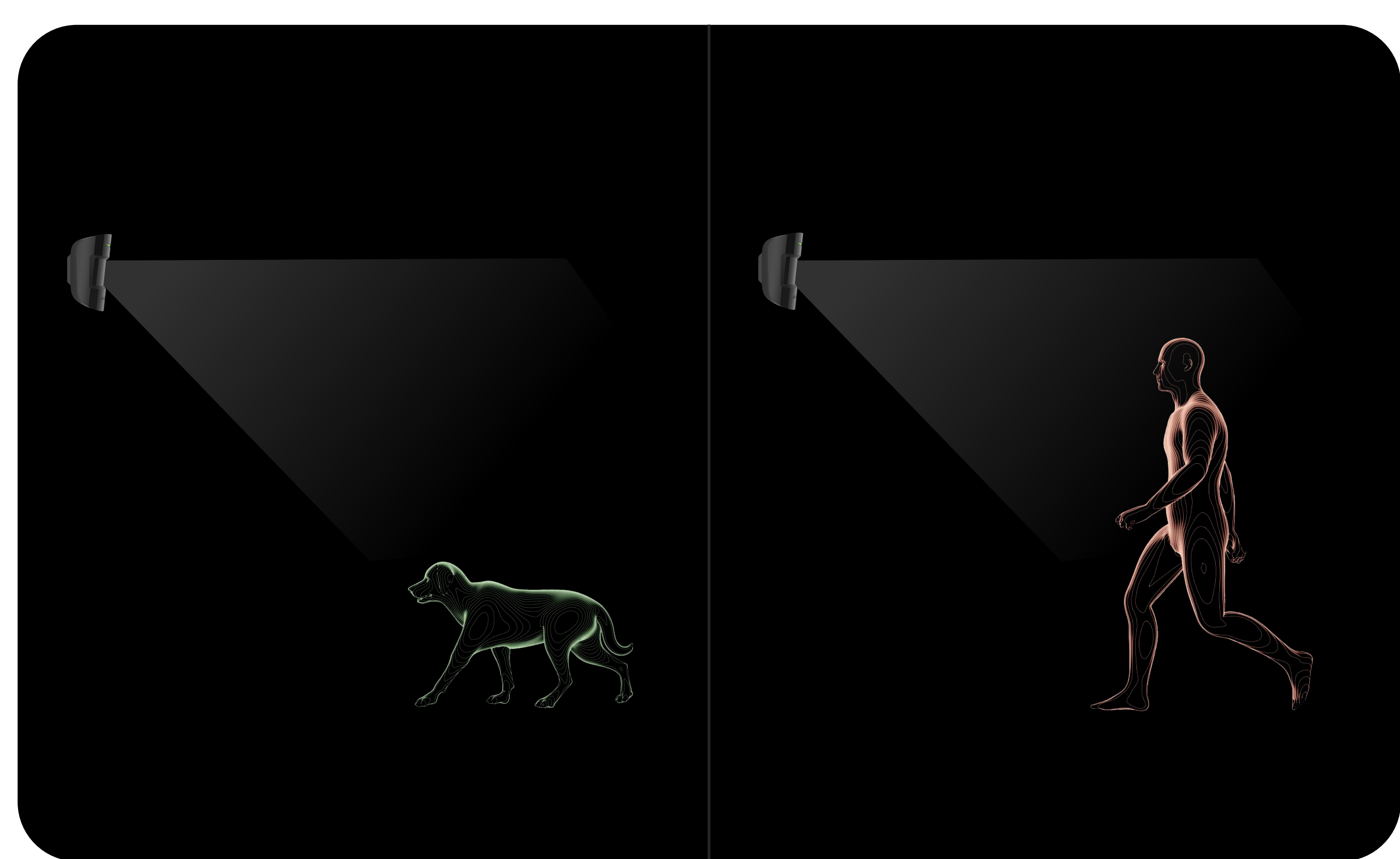


Mounting on SmartBracket without disassembling the enclosure

Detection distance and viewing angles



False alarms prevention

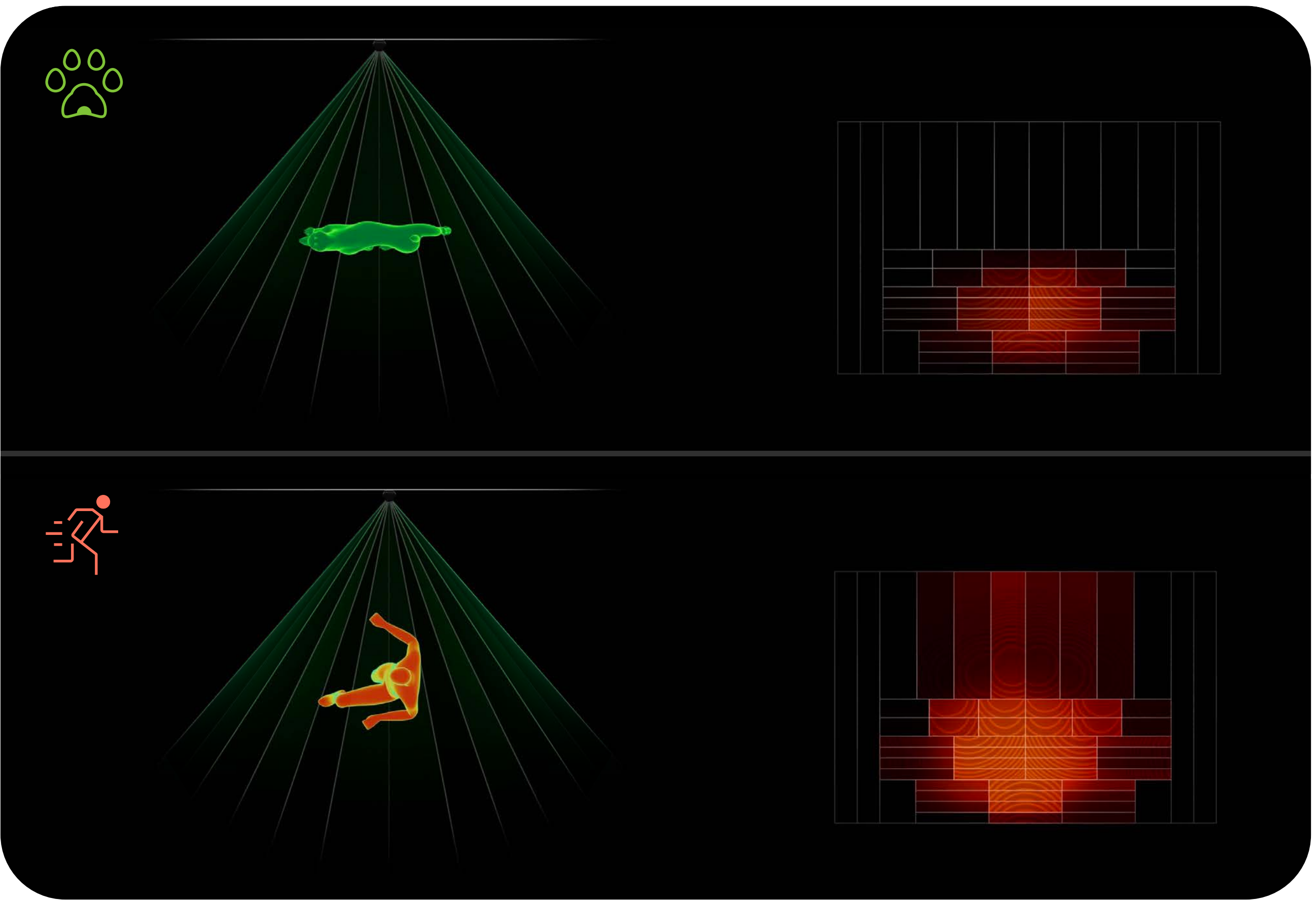


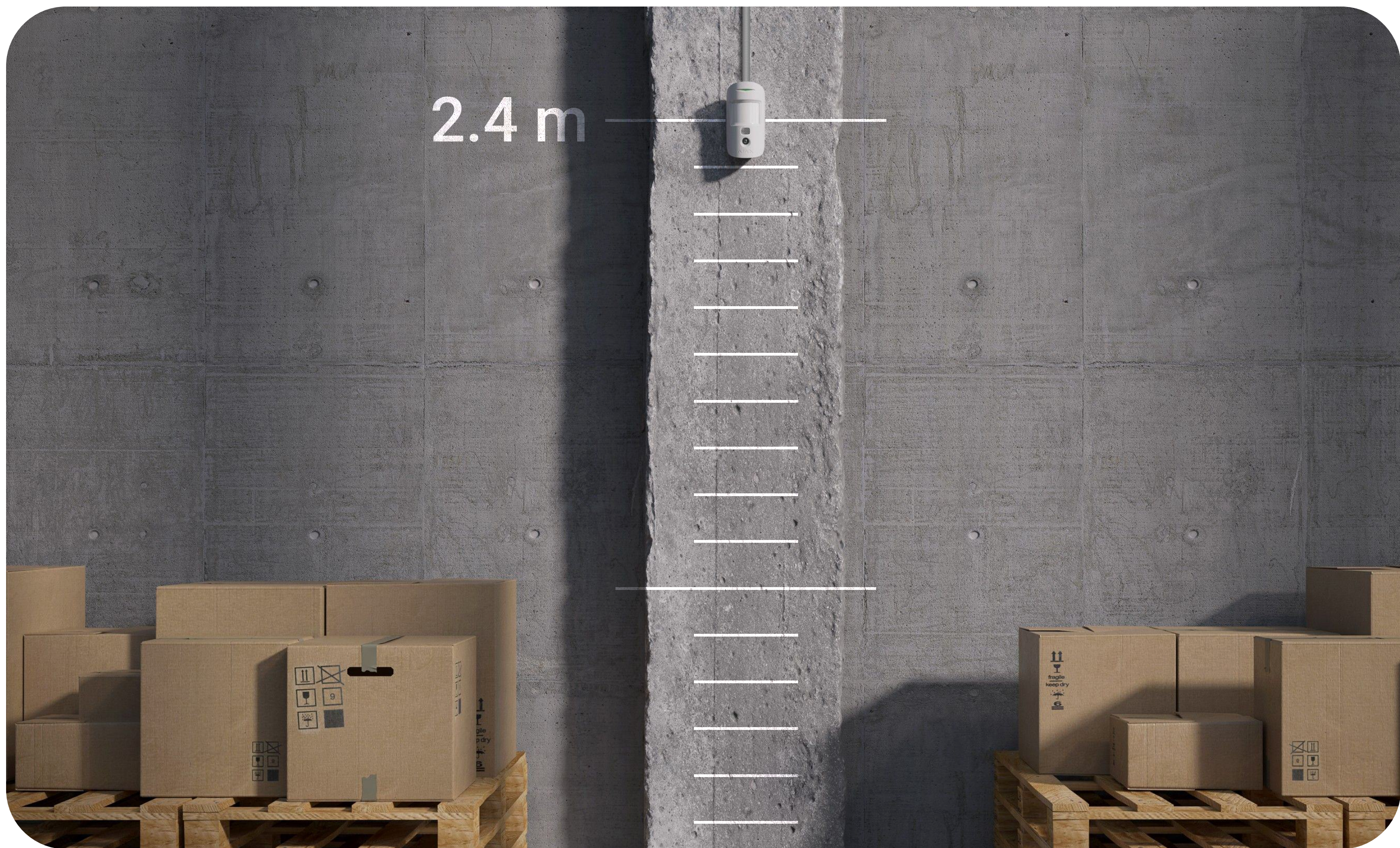
Optics

The detector lens is sensitive to human motion, cutting off false alarms caused by other sources of IR radiation. The potential IR radiation from pets and other interferences affects only the small lens sections. Large sections are focused on the alleged intruder's movement.

SmartDetect to filter IR interference

For additional protection against false alarms, the detector uses the SmartDetect software algorithm. When the system is armed, the detector constantly analyses the thermal diagram from the PIR sensor, including the IR radiation intensity, thermal spot size, movement speed, and other parameters. As a result — the detector accurately responds to human motion without false alarms.



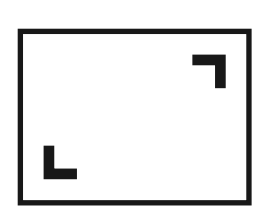
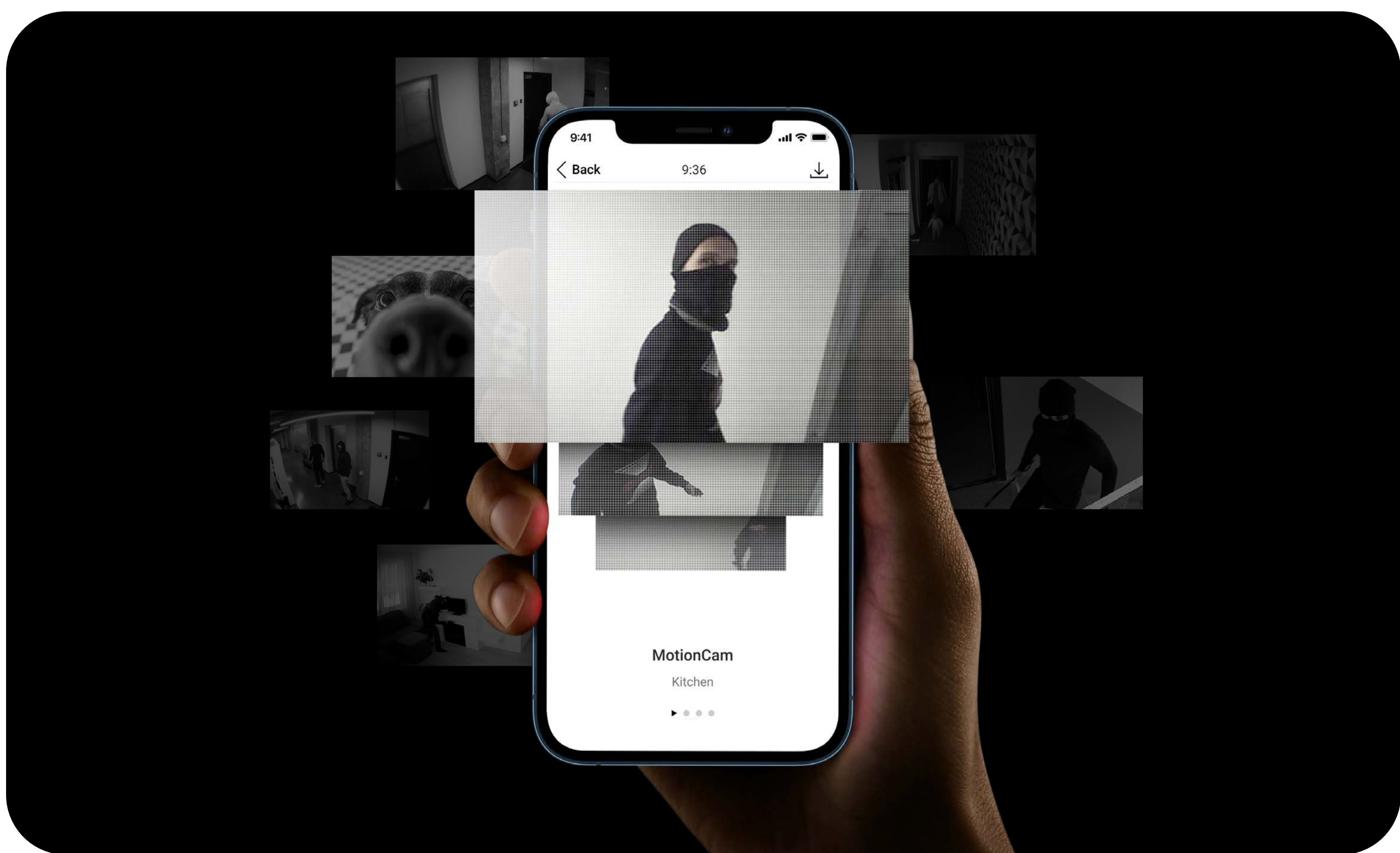


Professional installation

The direction of the detector lens should be perpendicular to an alleged intrusion path into the facility. Mount MotionCam Fibra at a height of 2.4 m. When installed correctly, the detector provides an accurate thermal diagram and instantly responds to a real threat. Adjust pet immunity settings to minimise false alarms caused by animals weighing up to 20 kg and below 50 cm in height.

Photo verification

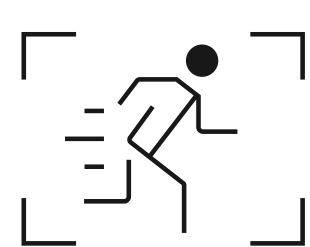
MotionCam Fibra detects an intruder from the first steps and verifies the alarm with animated photos. Photo verification helps to assess the situation at the protected facility. It allows system users and monitoring station operators to check whether the alarm is real and respond accordingly.



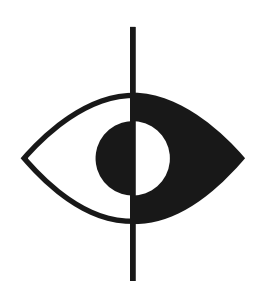
Up to 640 × 480 pixels photo resolution



Up to 5 photos in a series



9 seconds to deliver the first photo



IR backlight for low light conditions

Privacy first

The built-in camera is activated only when MotionCam Fibra detects motion in armed mode. Only users with access to the events feed and security company employees can view photos. Taking photos on demand is blocked.

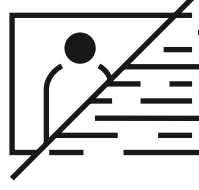


The MotionCam series includes detectors with **Photo on Demand**, **Photo by Schedule** and **Photo by Scenario** features. These devices have the “PhOD” mark in the product name

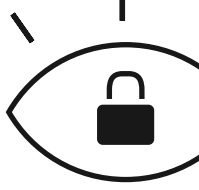
Built-in backup battery

When the Fibra line breaks during the sabotage attempts, the detector continues to operate from a built-in battery. Alarms with photo verifications will be stored in the detector's buffer memory. Once the connection with the hub gets restored, all data is sent to Ajax apps. It helps reconstruct the actual event and provides the police or an insurance company with photo evidence.

Photos are encrypted at every stage of transmission. Only system users can access the virtual storage on Ajax Cloud and view photos. While stored, no photos are processed or analysed. The Ajax Cloud service is hosted on geographically distributed servers that meet the General Data Protection Regulation (GDPR) requirements.



Photos are encrypted throughout the transmission process



Photos are available only for users with access rights

Monitoring software supporting Ajax photo verification



Horus



Manitou



SBN



Sentinel

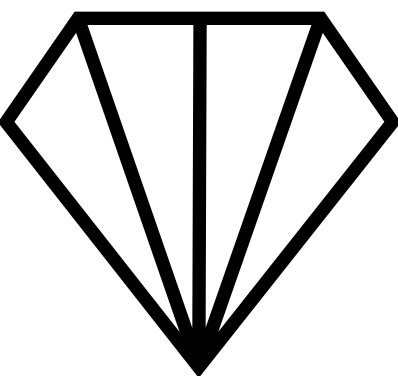


WBB

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



A free PRO Desktop app for administering and monitoring Ajax security systems supports photo verification by default.

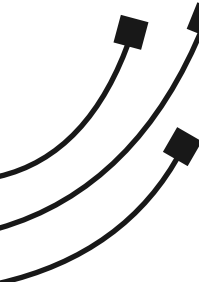


Fibra
communication technology

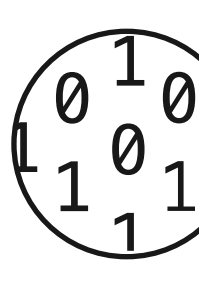


Fibra is the wired protocol providing fast and secure two-way communication between the hub and devices. Based on a **bus connection method**, Fibra delivers instant data-rich alarms: security companies and users know which device was triggered, when, and where it happened. Supporting **up to 2,000 m** of wired connectivity, Fibra is ready to protect any facilities and deliver the best user experience for both system owners and installers.

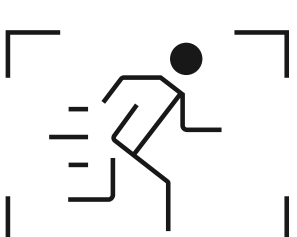
Fibra features **encryption** and **authentication** to prevent spoofing and **polling** to display device status in real time. Fibra lines are multifunctional and support connecting different types of devices to one line: sirens, keypads, and detectors with photo verification.



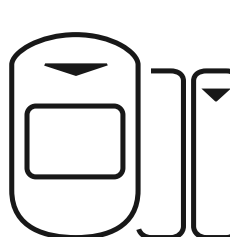
Up to 2,000 metres of wired communication range



Protection against sabotage and spoofing



9 seconds to deliver the first photo



One line for different types of devices

Fibra power supply calculator

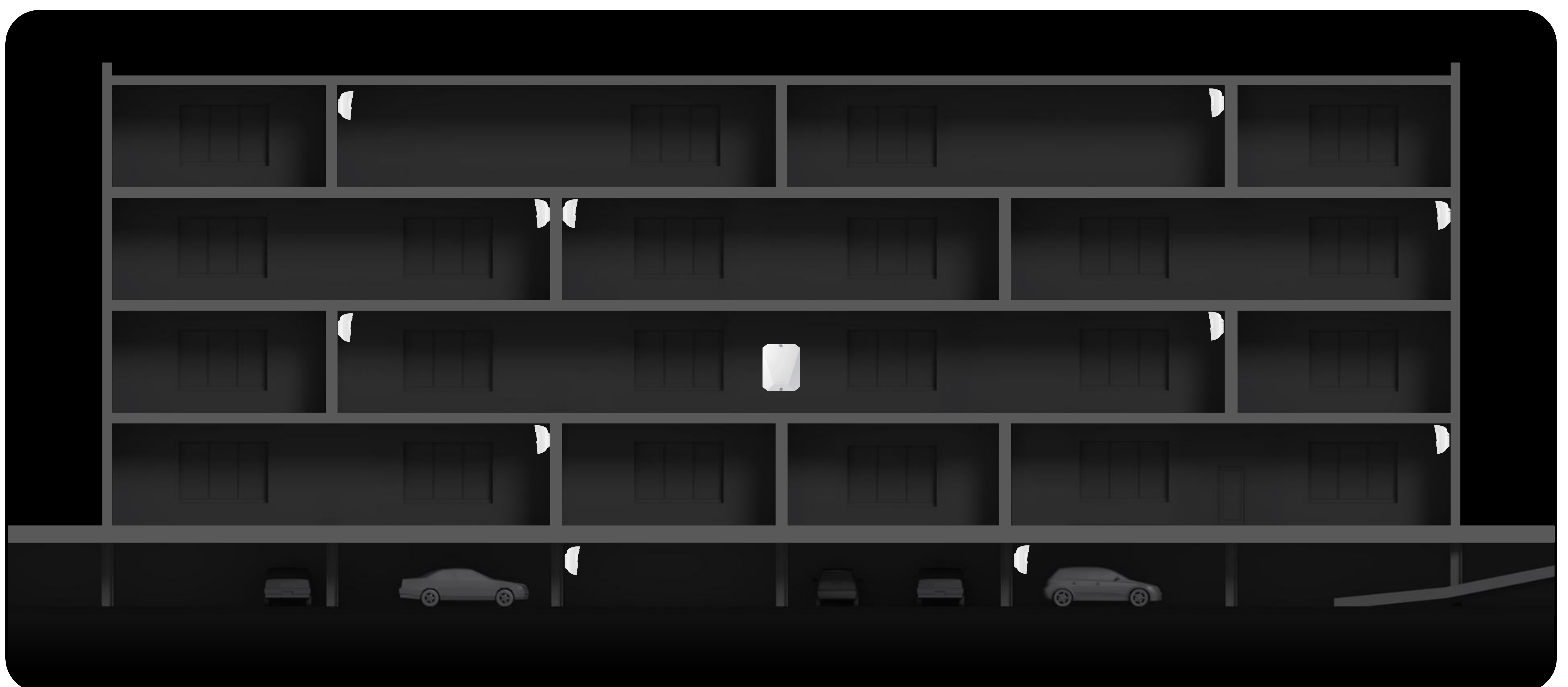
The online tool provides security specialists with comprehensive information about the devices' power consumption. It's easy to check before installation whether the wired system project will work in practice. The calculator allows real-time project-making, highlighting the problem areas and offering solutions. Once the calculations are finished, the results can be downloaded as a PDF file.

Follow the link to verify your project: ajax.systems/products/fibra/power-calculator/

Thought out down to the last detail

Flexible project design

Wired system can cover the most complex objects like sectional metal warehouses, deep-underground facilities, and other premises where wired communication is required



Easy installation

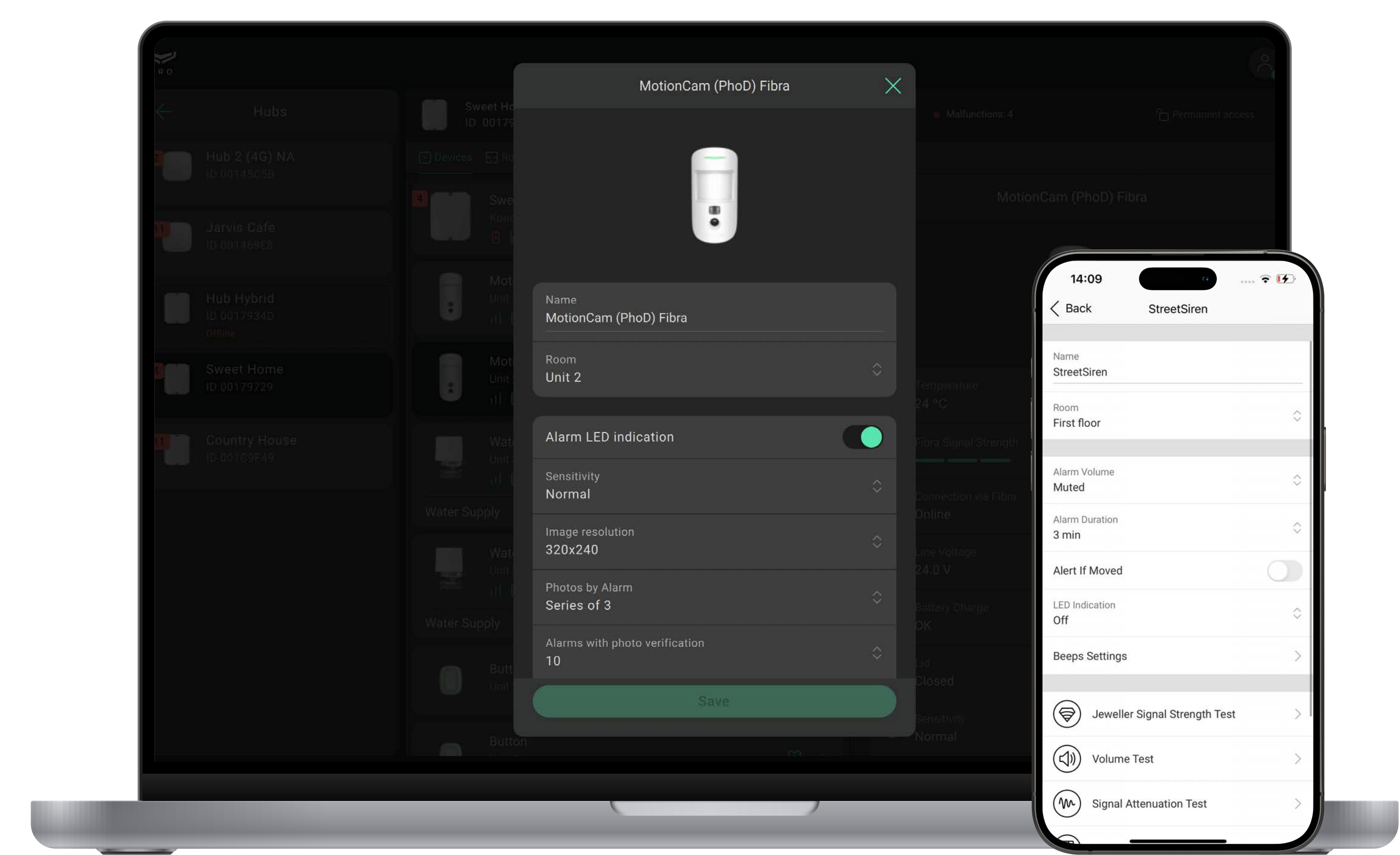
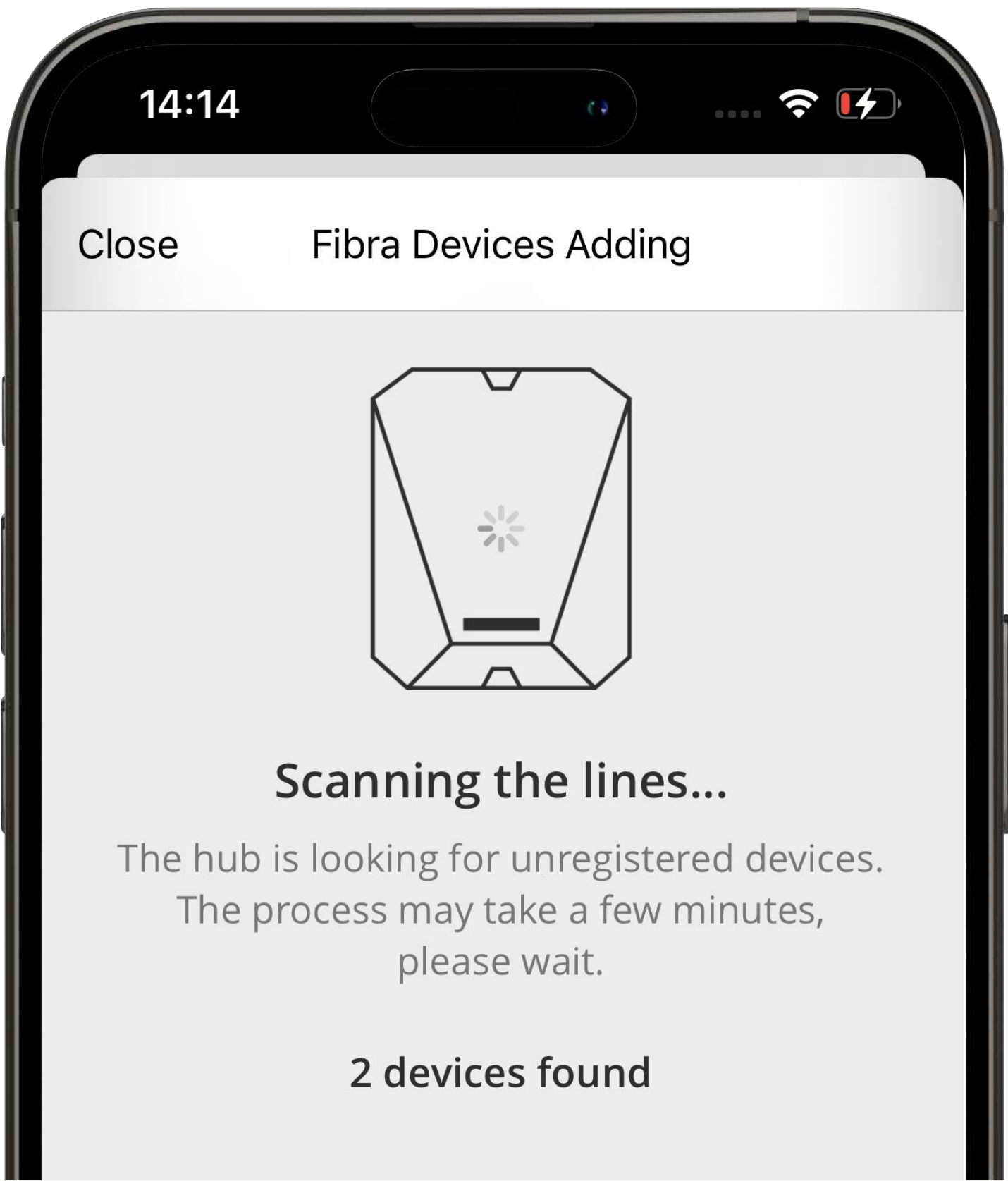


With the SmartBracket panel, an installer can effortlessly mount the device on the wall. The installation kit includes all the necessary fasteners. There is no need to disassemble the device: the board with terminals is placed outside the enclosure under SmartBracket to eliminate hardware damage during installation. The board is removable, which makes the whole process more comfortable. When connected, the board can be easily put back on special holders. For cable management, there are bracings inside SmartBracket to secure the wires with ties.

The detector can be installed sideways: the enclosure has two tamperers on the left and right sides. In case of sabotage, the system will report attempts to detach the detector from the surface or remove it from the mounting panel.

Quick pairing process with the hub

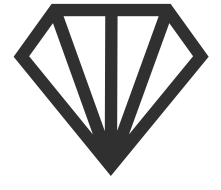
The device is paired with the hub automatically via Fibra lines scanning. This tool is available in the desktop or mobile PRO apps. An installer only needs to name and assign the device to the room and security group. The device can also be added by scanning the QR code or entering its ID manually. To finish configuring, go to Ajax apps.



Remote configuration

Intuitive Ajax apps provide remote set-up and all detector information from anywhere the Internet is available, on a smartphone or PC. The installation engineer can remotely change the settings and provide services in-time. No need to visit the object.

Technical specifications

Compliance with standards	EN 50131 (Grade 2) PD 6662:2017 INCERT NFA2P	Compatibility	Hubs Hub Hybrid (2G) Hub Hybrid (4G)
Communication with control panel	 Fibra communication technology Wired connection U/UTP cat.5 4×2×0.51 with a copper conductor Signal cable 4×0.22 with a copper conductor	Motion detection	Sensitive element PIR sensor Detection distance up to 12 m ¹ When installed at a height of 2.4 m.

Communication with control panel	Communication range up to 2,000 m With U/UTP cat.5 4×2×0.51 cable Protocol features Two-way communication Protection against sabotage Instant notifications Remote configuring in Ajax apps Polling interval 12–300 s Adjusted by PRO or user with admin rights in Ajax apps.	Motion detection	Detection speed from 0.3 to 2.0 m/s The detector's lens should be directed perpendicularly to an alleged intrusion path into the facility. Viewing angle horizontal – 88,5° Sensor sensitivity 3 levels Adjusted by PRO or user with admin rights in Ajax apps. Pet immunity weight: up to 20 kg height: up to 50 cm Temperature compensation SmartDetect software algorithm to prevent false alarms
Photo verification	Types Photo by Alarm Photo resolution 640 × 480 px 320 × 240 px 160 × 120 px Adjusted by PRO or user with admin rights in Ajax apps. By default, the resolution is 320 × 240 px.	Installation	Installation height 2.4 m The detector's lens should be directed perpendicularly to an alleged intrusion path into the facility. Operating temperature range from -10 °C to +40 °C

Photo verification	Delivery speed • up to 7 s – 160 × 120 px photo • up to 9 s – 320 × 240 px photo • up to 20 s – 640 × 480 px photo Number of photos in one series from 1 to 5 Adjusted by PRO or user with admin rights in Ajax apps. IR backlight For low light conditions.	Installation	Operating humidity up to 75% Protection class IP50
Power supply	Main power supply 24 V⁼⁼, up to 0.12 W From the Fibra line. Backup power supply sealed LTO AA battery	Complete set	MotionCam Fibra SmartBracket mounting panel Installation kit Quick start guide
Enclosure	Color white, black Dimensions 135 × 70 × 66 mm Weight 150 g Two tampers For sideways installation.		

¹ according to INCERT certification, detection range is up to 10 m (high sensitivity).