



Introduction

About company

The year of
foundation

2011

Production and
Development

Ukraine, Kyiv

Intellectual
Property

5 patents

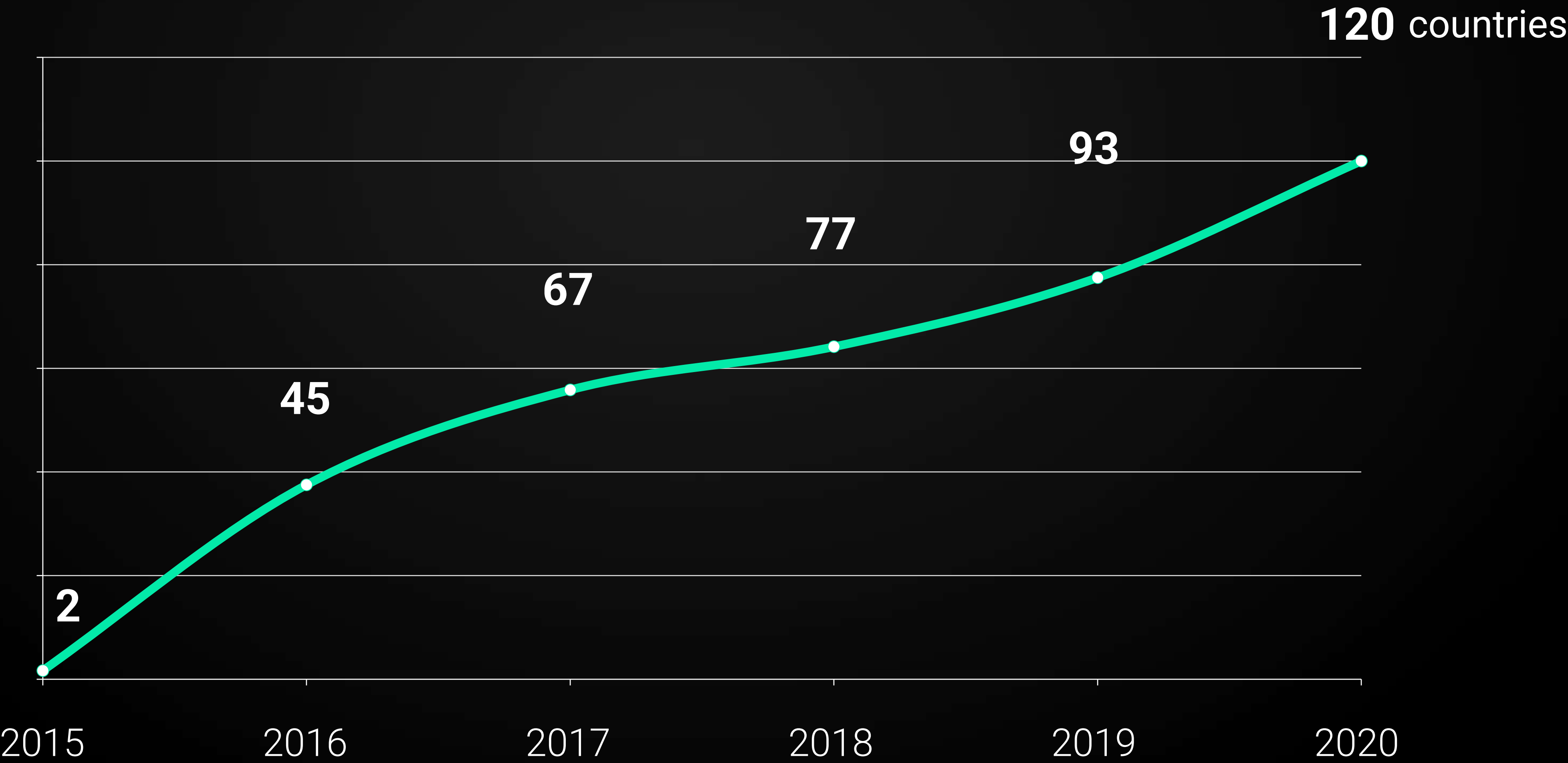




From startup to the global business



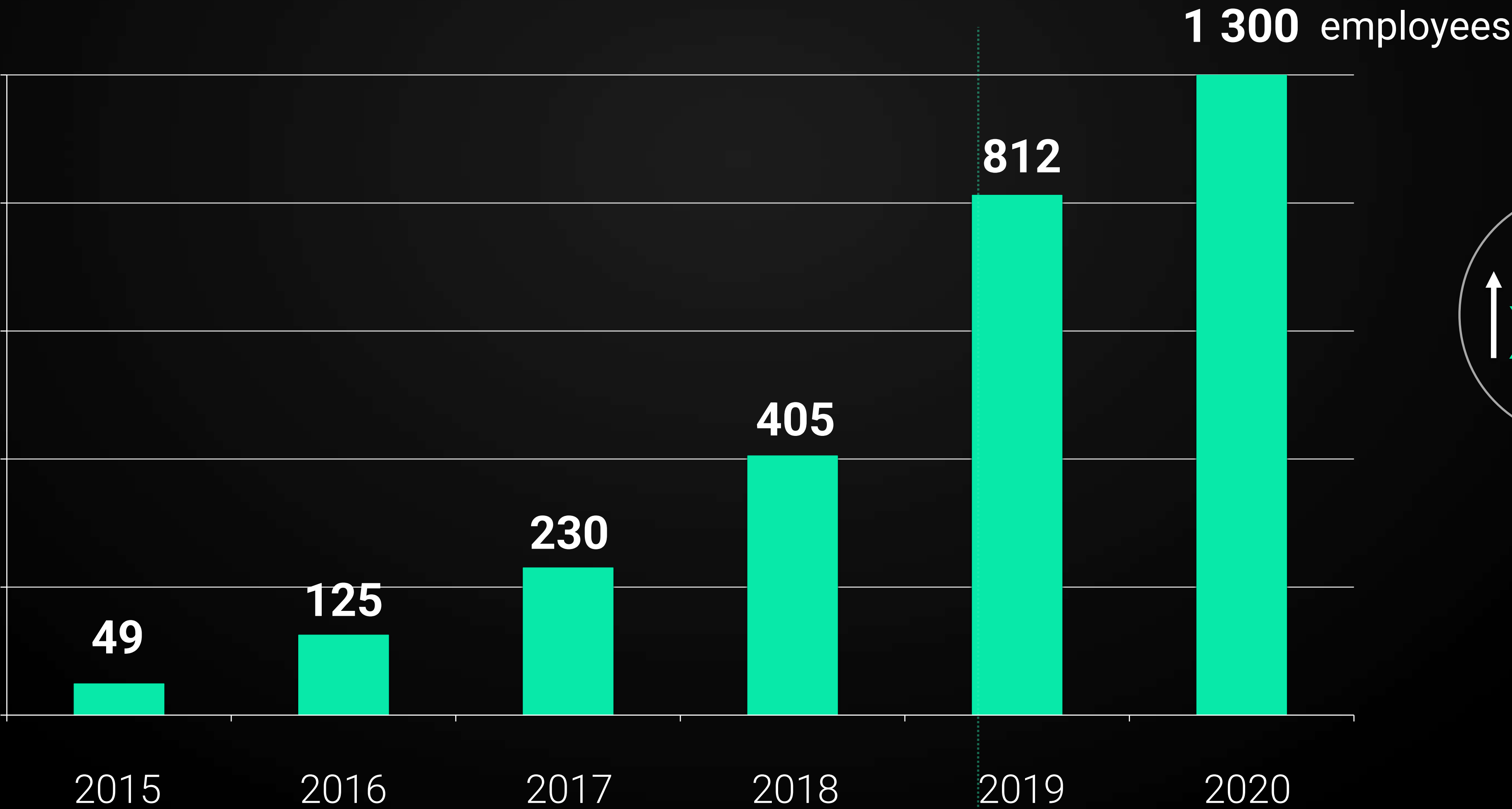
Distribution Geography Growth



Monthly Output



Staff Growth



↑x1.6

The 3rd place
among 30 the
most powerful
Ukrainian startups

According to forbes.ua, 2021

Forbes

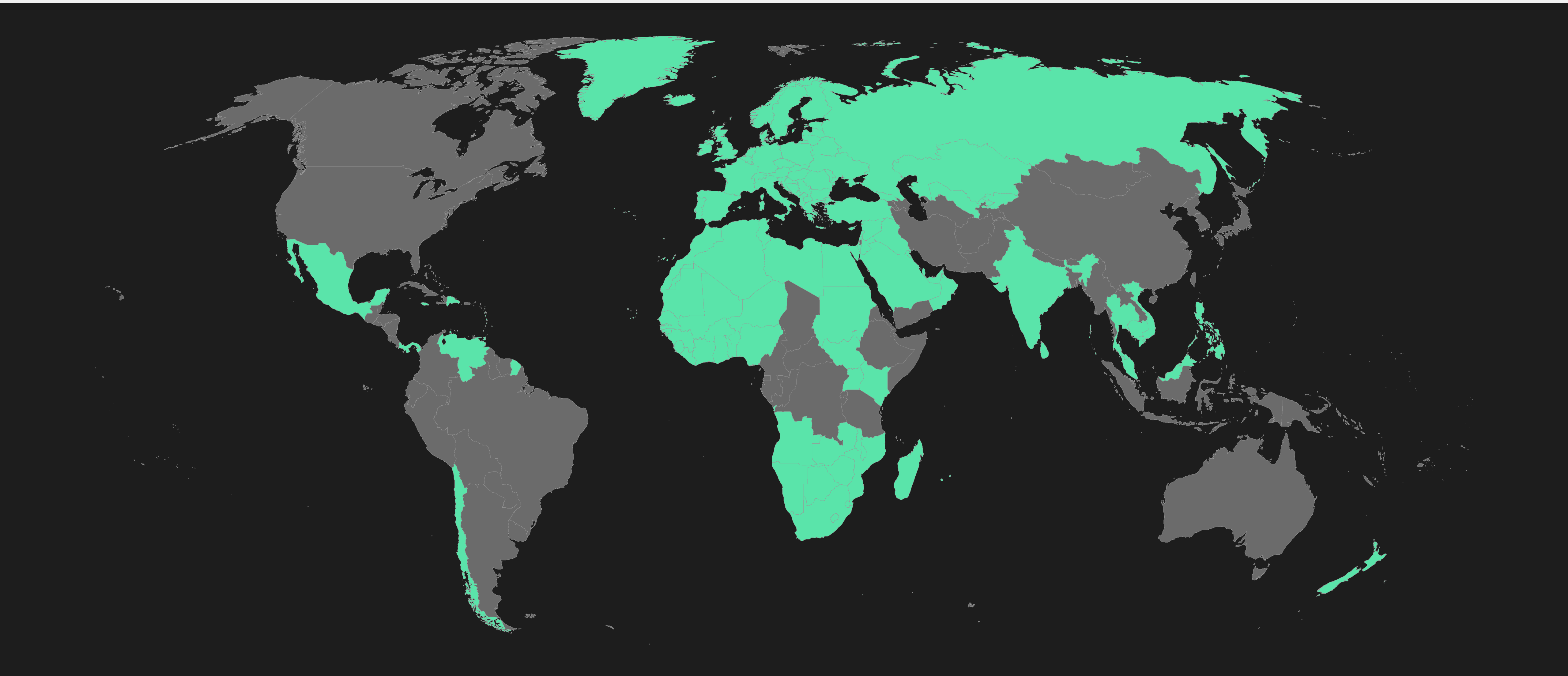


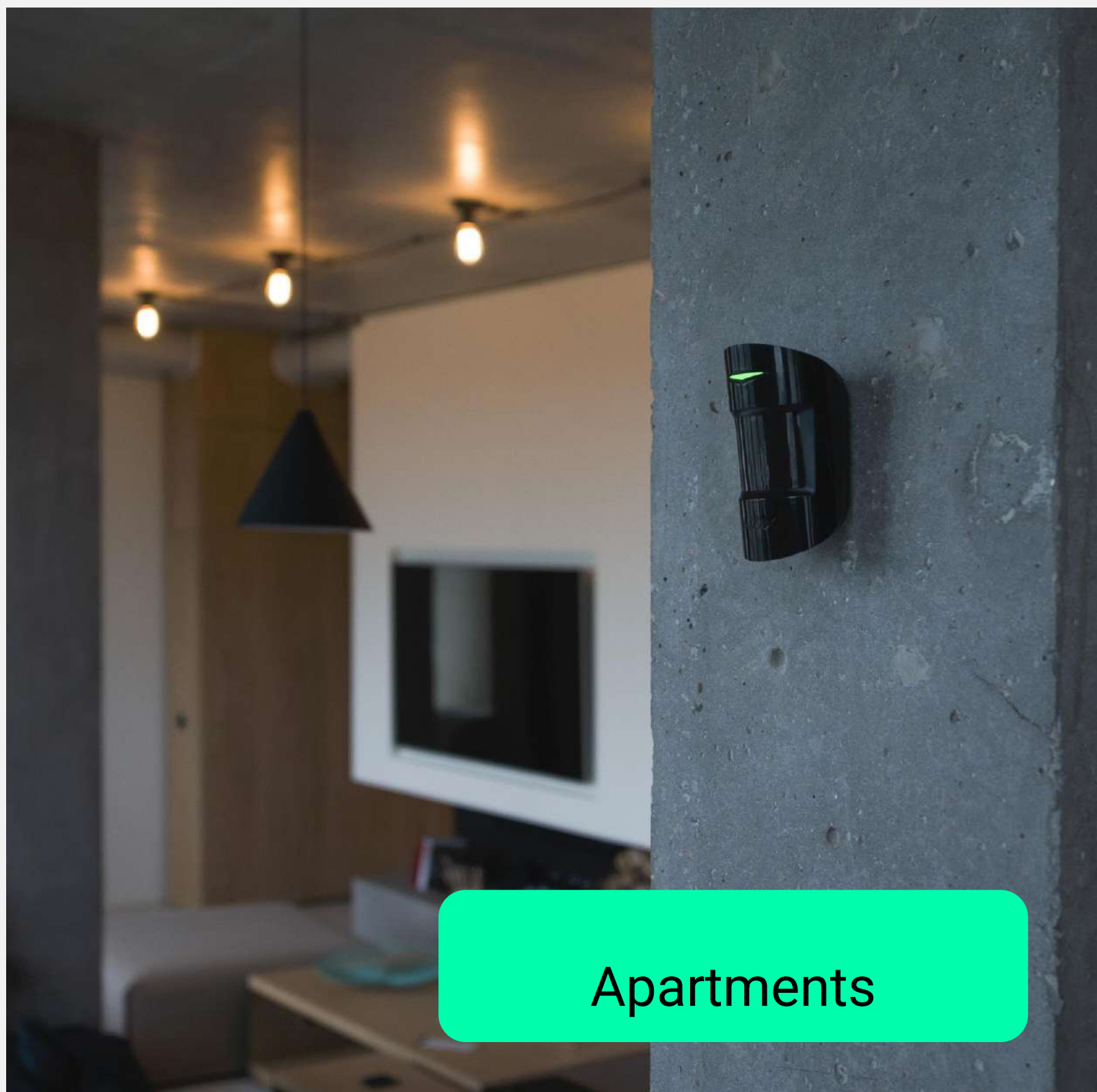
Ajax in 2021

- **2** plants
- **1,800** employees
- **350** RnD Team
- **500,000** monthly production output

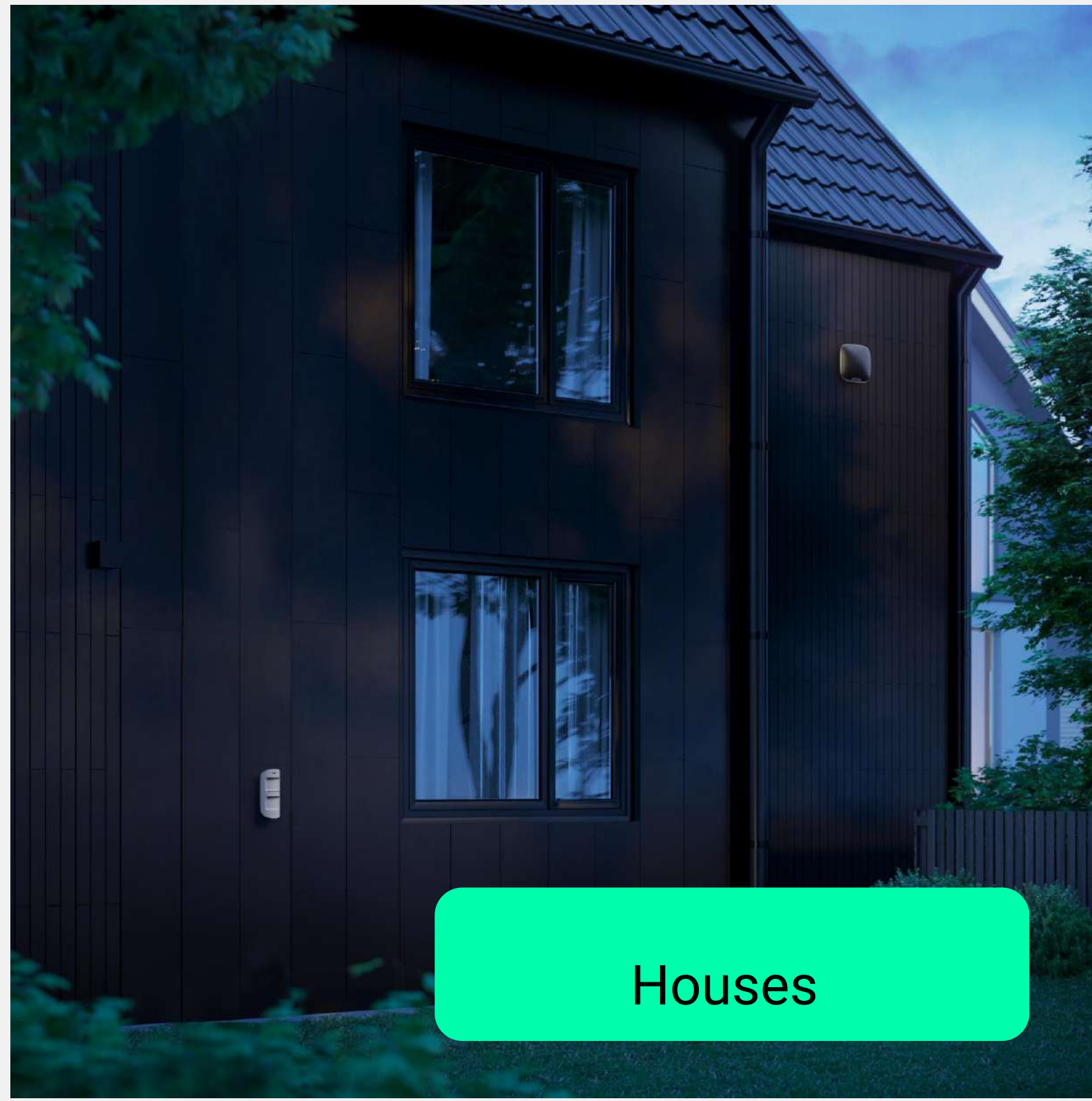


Ajax is trusted by security professionals in **120** countries

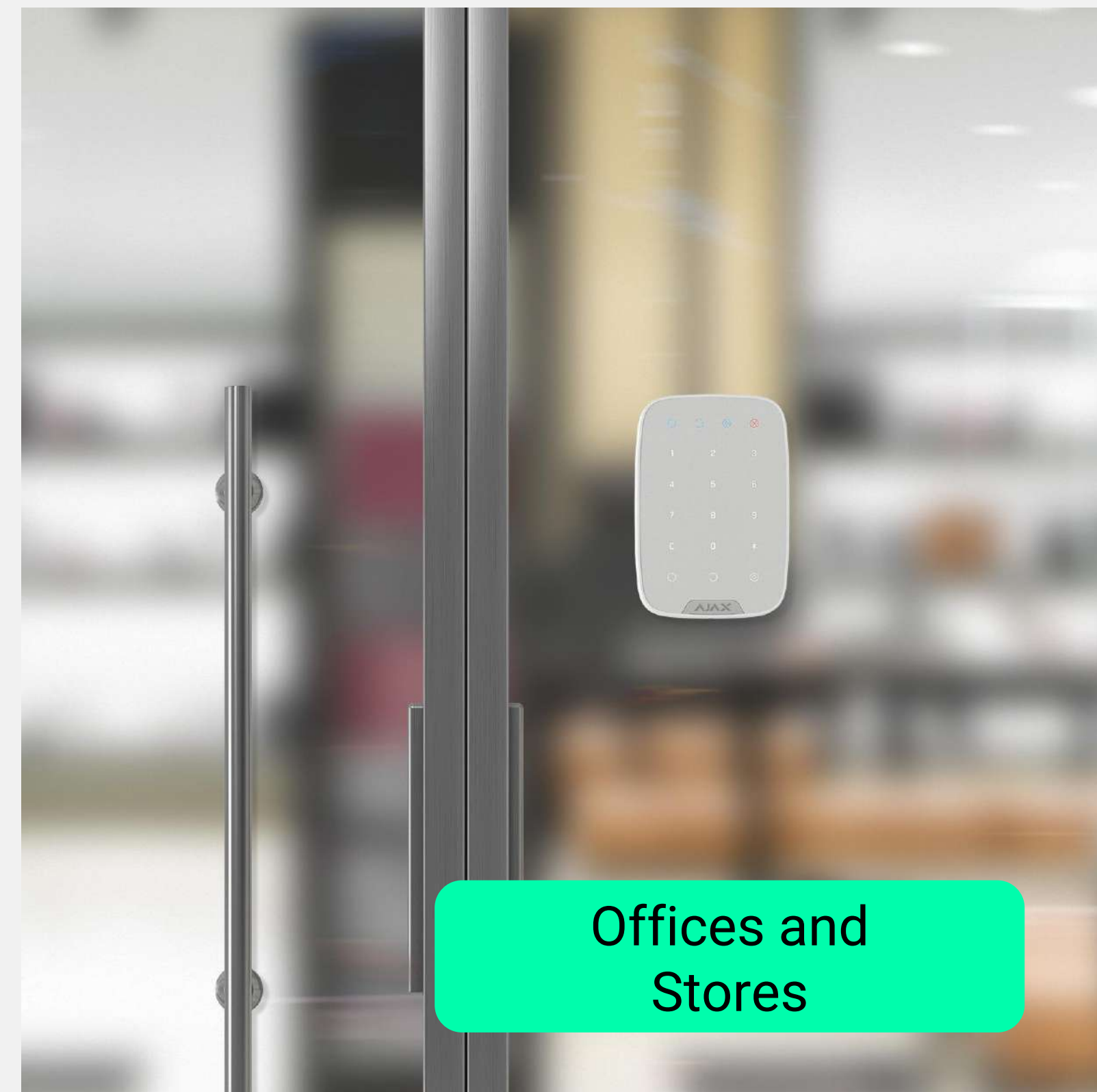




Apartments



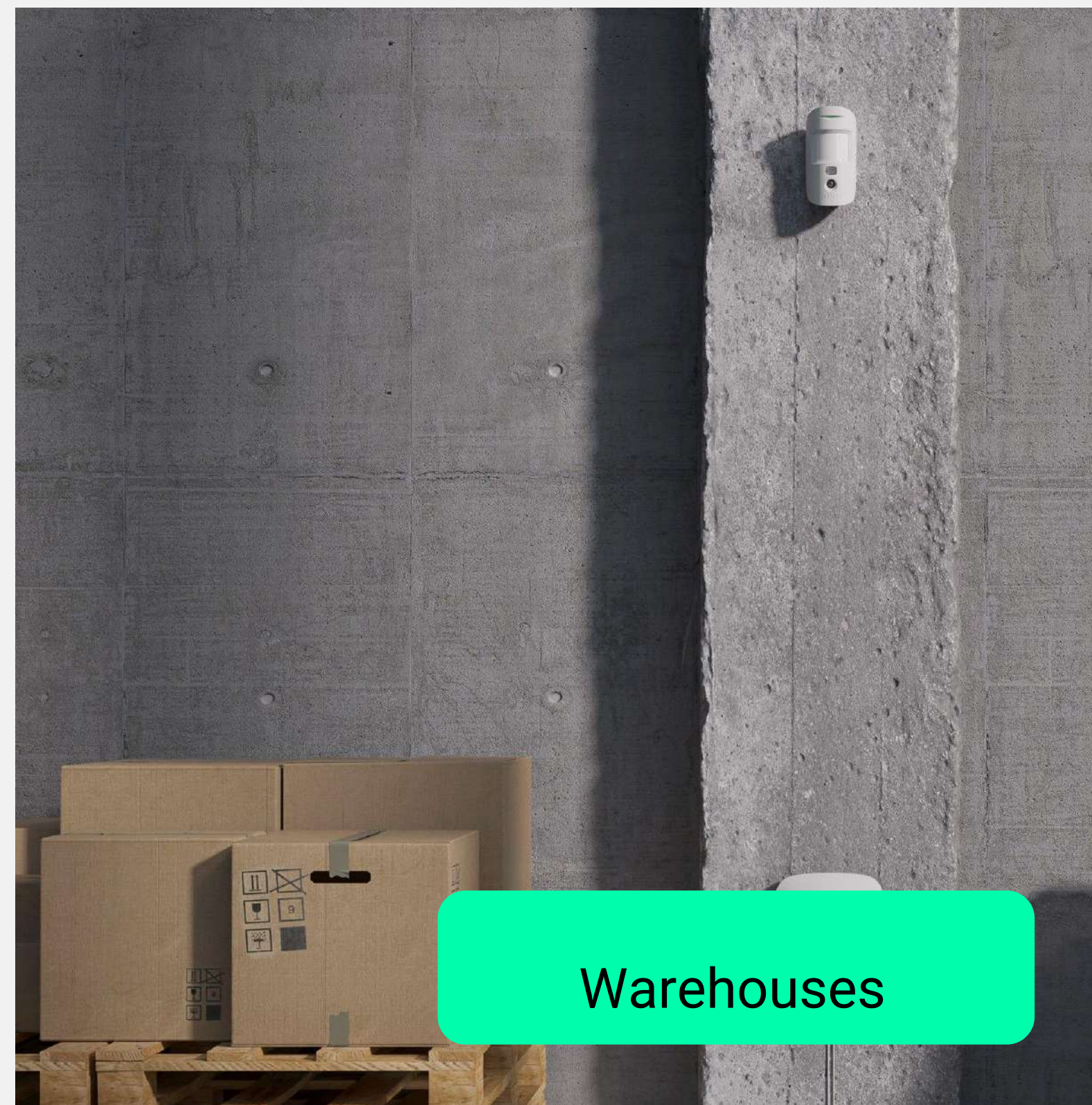
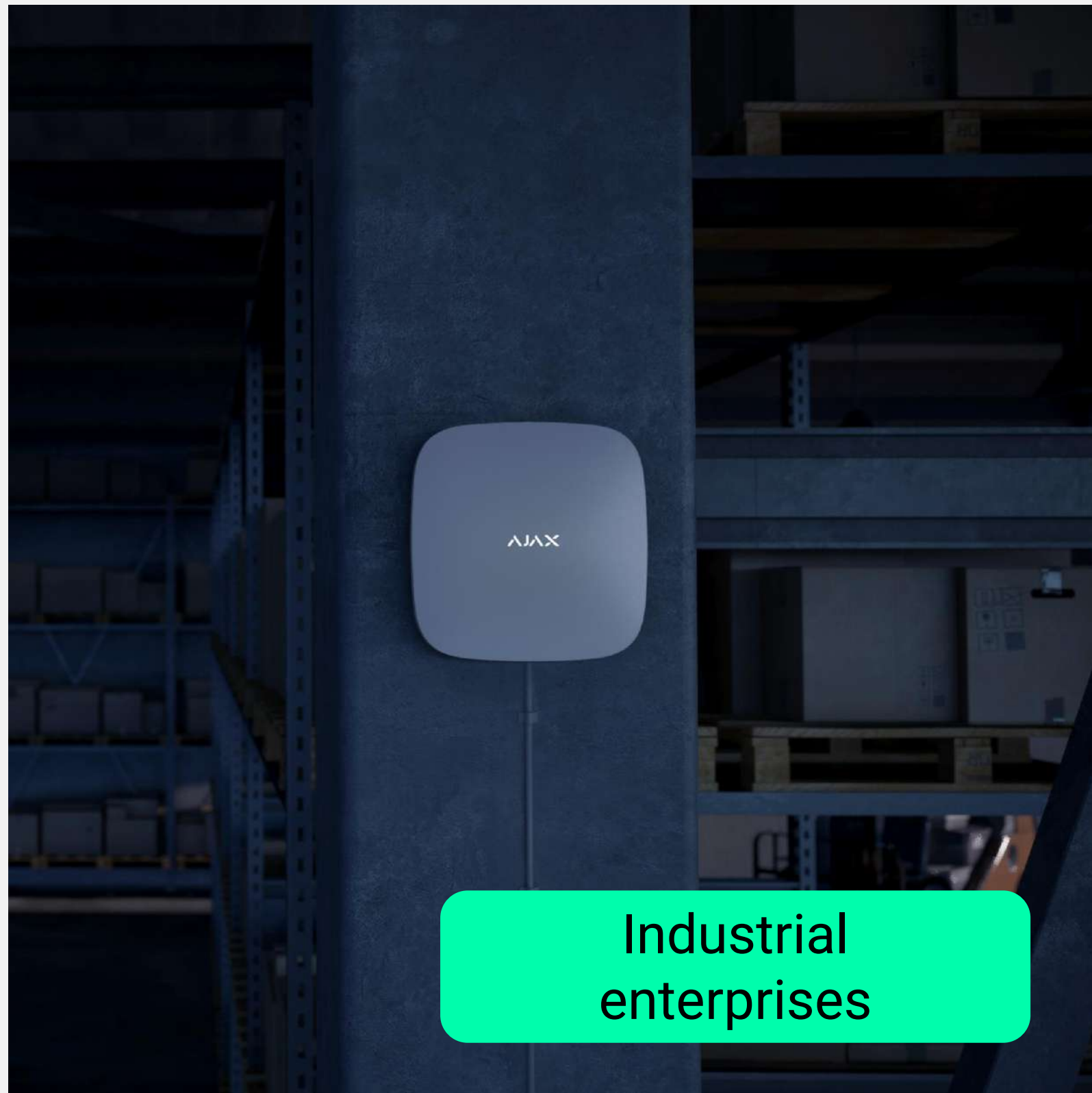
Houses



Offices and
Stores

1050,000

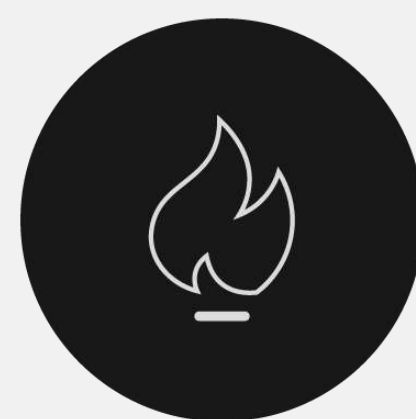
end-customers and industry professionals
use
Ajax products



1050,000 end-customers and industry professionals use Ajax products



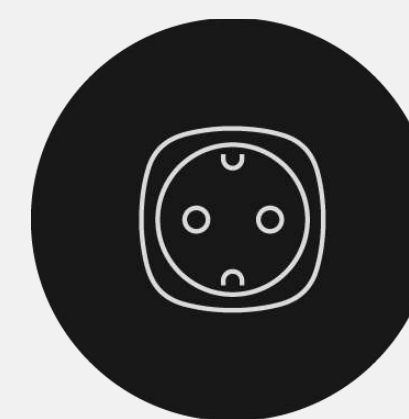
Deters burglars



Recognizes fire



Detects flooding



Controls appliances



Streams security cameras



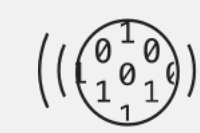
Blackout

All detectors operate on batteries. In the case of a blackout, the hub reports a power failure and continues to operate up to 16 hours using the backup battery



Radio Channel Jamming

System notifies ARC and users and switches the frequency



Hacking Attempts

Ajax encrypts all transmitted data using block cipher with a dynamic key and authenticates devices during each interaction



Internet Issues

If Ethernet or Wi-Fi fails, the hub uses GSM/UMTS channels to remain online



Server Connection loss

Ajax Cloud detects when hub goes offline within 1 minute and notifies ARC and users



Tampering

An alarm is triggered if someone dismounts the device



Detector Failure

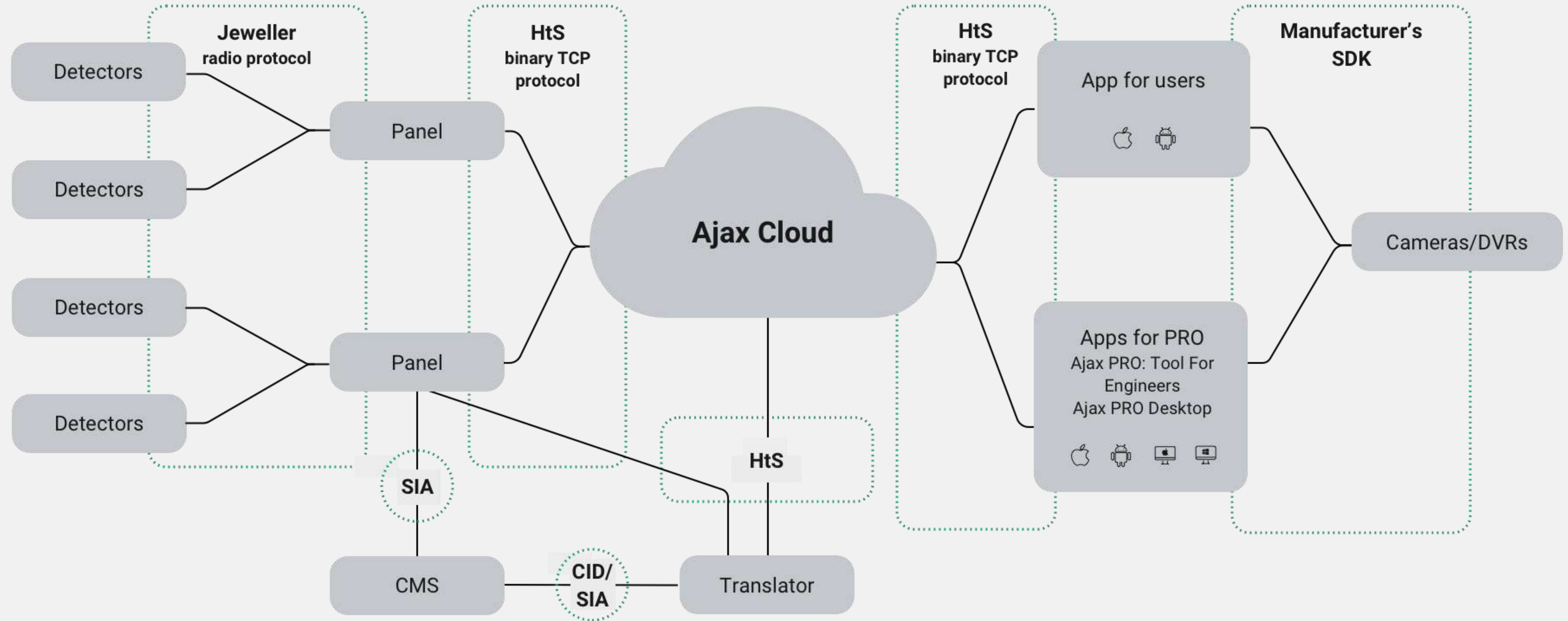
Hub controls each device and sends an immediate alert in case of failure within 36 seconds

No worries about Sabotage



Ajax System Architecture



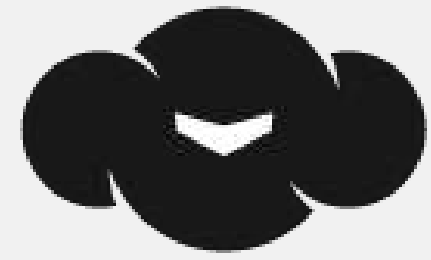


All data, transmitted from the detector to the user, is based on proprietary technologies, and securely encrypted to provide clients fast and reliable control on their premises



Ajax Cloud





Ajax Cloud

Cloud service with advanced load balancing for round-the-clock monitoring of the system from any location worldwide



Monitors hub performance at least once every 10 seconds



Allows users to configure and manage Ajax from anywhere in the world



Delivers the status of system devices in real time



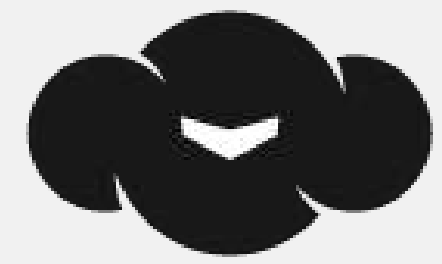
Uses three independent data centers, which guarantees constant access to the system



Sends notifications to end-users and CMS

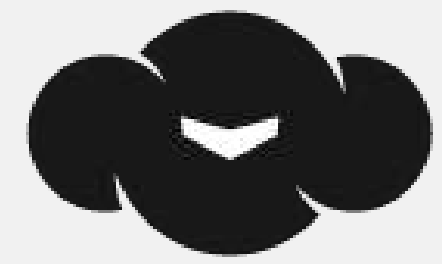


Keeps system configuration anonymous and encrypted



Ajax Cloud Responsibilities

- Rendezvous point for hubs and users
- Message brokerage between users, CMSs, hubs
- Hubs supervision monitoring
- Observation platform
- Data backup
- Integration point with third parties
- Updates management



Ajax Cloud

Figures

~ 1.5M requests per minute
~ 1M users
~ 3.5K CMSs connected
~ 1.5 M push notification per day
99.995% uptime 2020 / 100% uptime 2019

Focuses

- High availability
- Scalability
- High-load endurance
- Low-priced

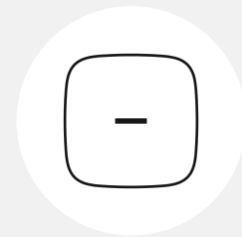


Proprietary HtS Protocol



HtS protocol

Hub-to-Server binary TCP protocol



Hub - Ajax Cloud communication



Desktop\mobile Apps - Ajax Cloud communication



Translator - Ajax Cloud communication



Translator - Hub communication

*Translator - is an app to establish communication between Ajax and CMS software.

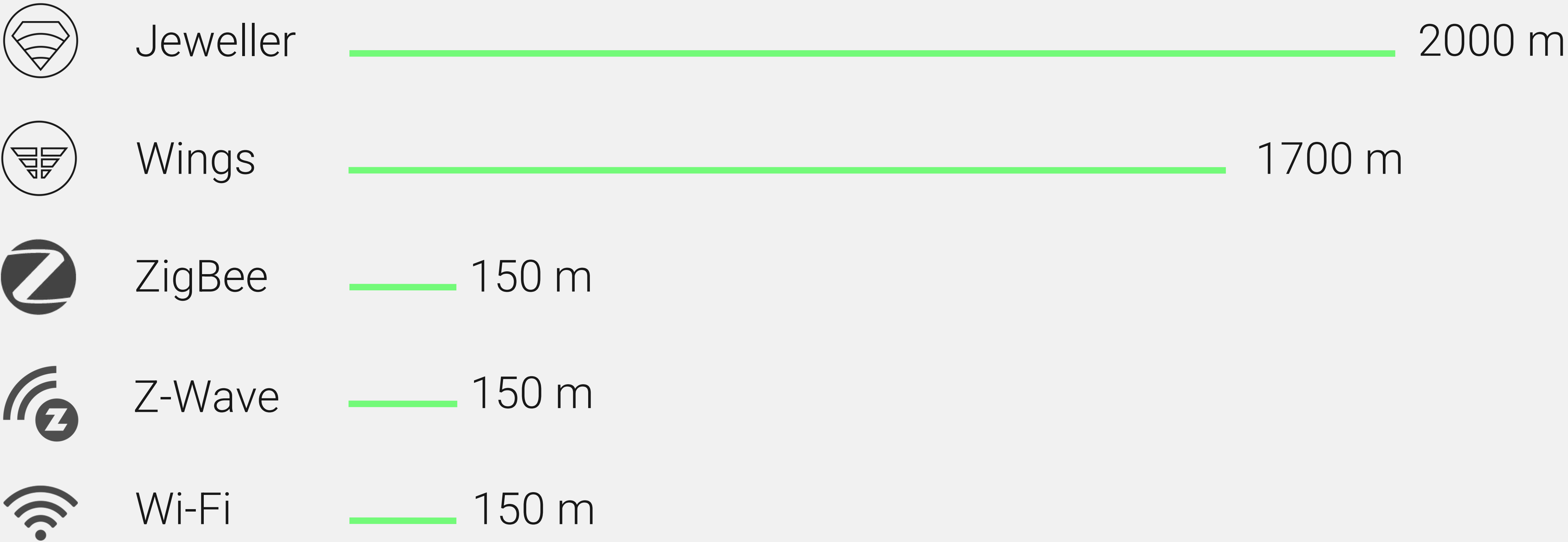
Encrypts data at every step with a floating key encryption algorithm



Unique Communication Technologies



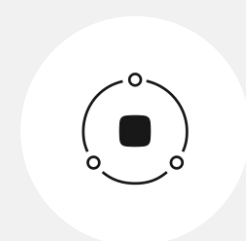
Our radio technology replaces archaic wires





Jeweller

Two-way radio technology transferring alarms and events within the system



Connects devices up to 2,000 meters away



Encrypts data with a modified AES algorithm



Transmits alarms from detectors to the hub within 0.15 s



Detects radio jamming and interference



Provides adjustable device ping interval



Saves detector battery life. Devices can operate for up to 7 years without a battery replacement

Patented in the USA

AJAX



High-speed radio technology transferring pictures from motion detectors with a camera



Transmits the animated image series



Uses the built-in algorithms of package checking and re-uploading



Delivers the images in under 9 sec



Guarantees data delivery



Communicates via additional antenna



Up to 200 detectors with a photo camera can be managed with one control panel

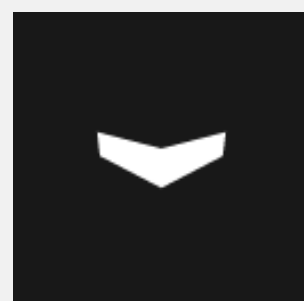
Based on Jeweller technology

AJAX



Proprietary Malevich Operating System





OS Malevich

Secure real-time operating system for stable operation of Ajax



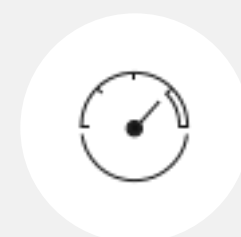
Protects against viruses and bot attacks



Over-the-air updates regularly provide new features



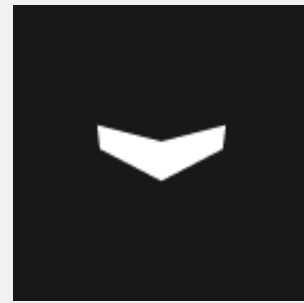
Verifies device operation status and reports to the system owner



Ensures the system does not get overloaded

The system gets new features several times a year via over-the-air software updates.

The process doesn't involve engineers or users and takes minutes to implement — only when the security system is disarmed.



OS Malevich

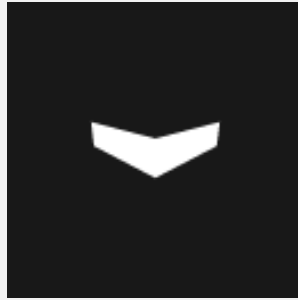
Releases and updates 2015 - 2021

3-5 Updates
per year

At least 5 new features with
every update

The system gets new features several times a year via over-the-air software updates.

The process doesn't involve engineers or users and takes minutes to implement — only when the security system is disarmed.



OS Malevich latest updates

New features of the latest updates

Malevich 2.9

- Over-the-air data import for hub replacing
- Remote temporary device deactivation
- Transmission of smartphone coordinates to CMS using the in-app panic button
- The second layer of protection from accidental pressing in SpaceControl

Malevich 2.10 - ultimate protection against false alarms

- Two-stage arming
- Alarm confirmation
- System restoration after alarm
- Alarm transmission delay when disarming
- Delay of Interconnected fire alarm
- More flexible scenarios by Button press



Product Line



Product Line





Ajax free Apps



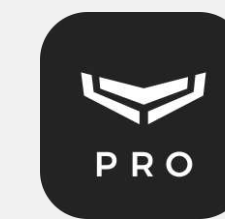
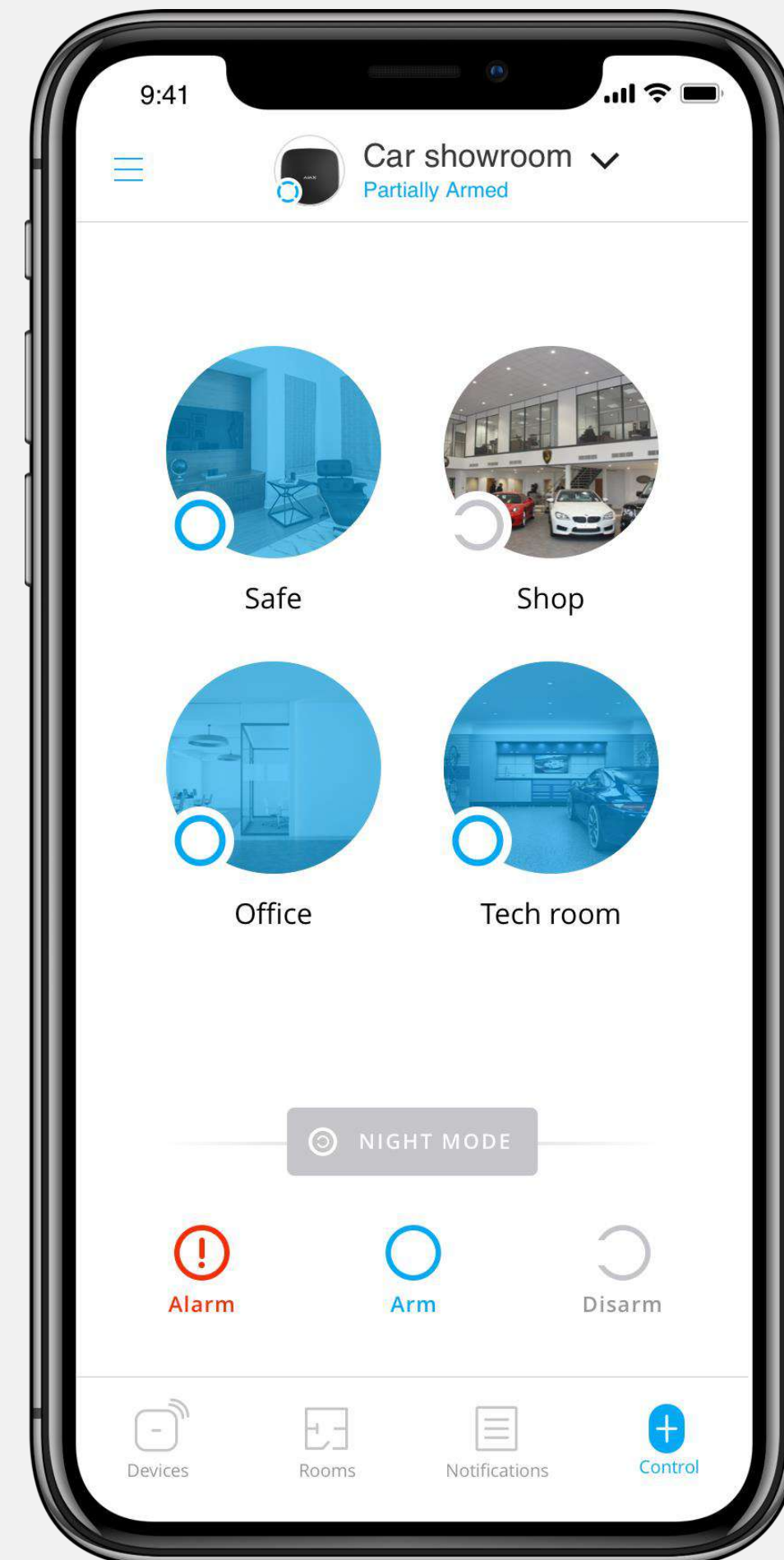
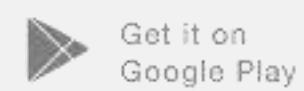
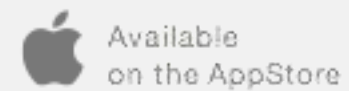
Two types of applications



App for users

Ajax Security System

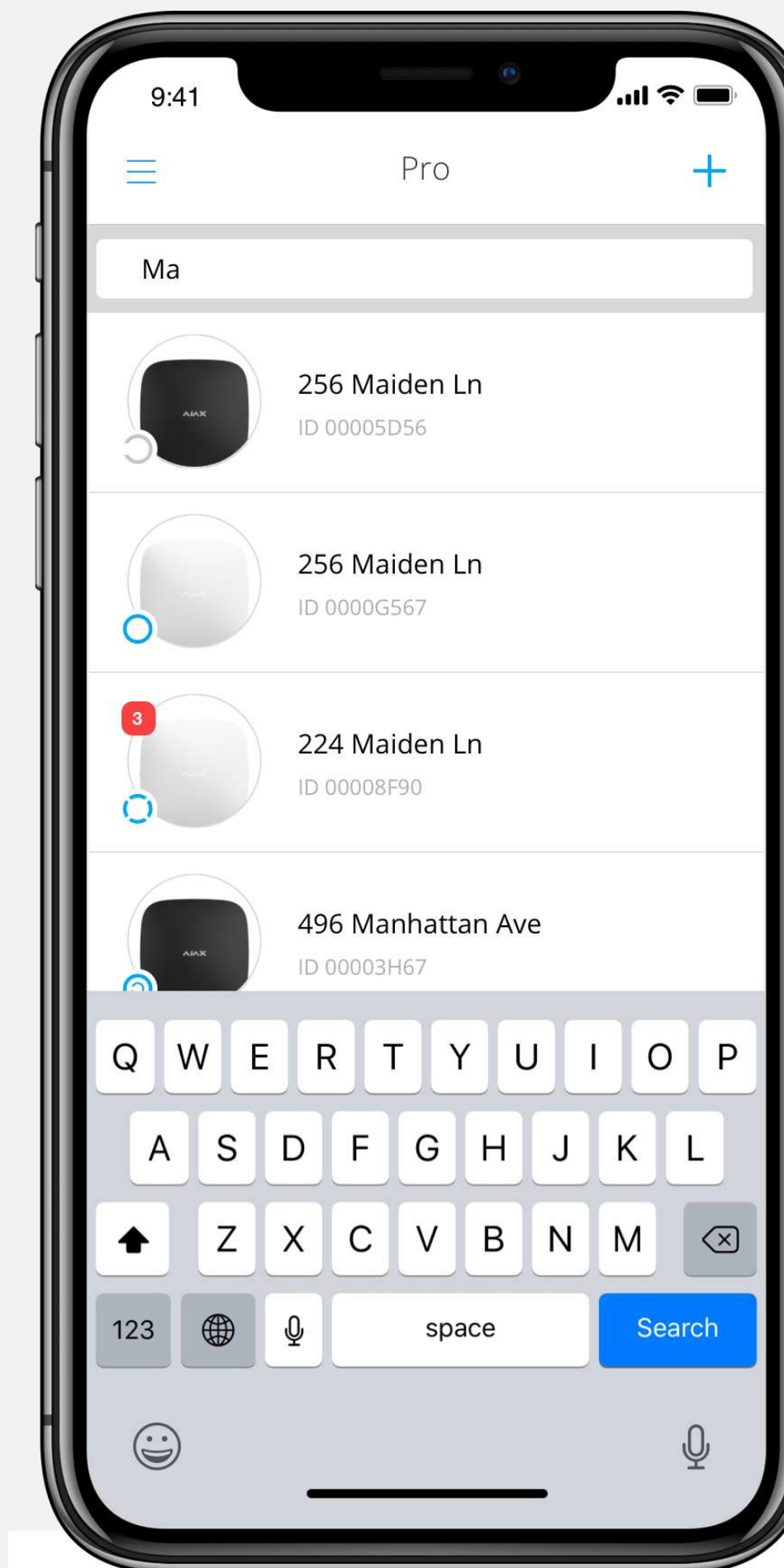
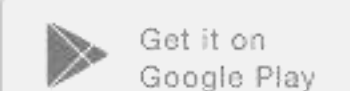
A free app for users



App for PRO

Ajax PRO Desktop: Tool for Engineers

A free app for installers and security companies engineers

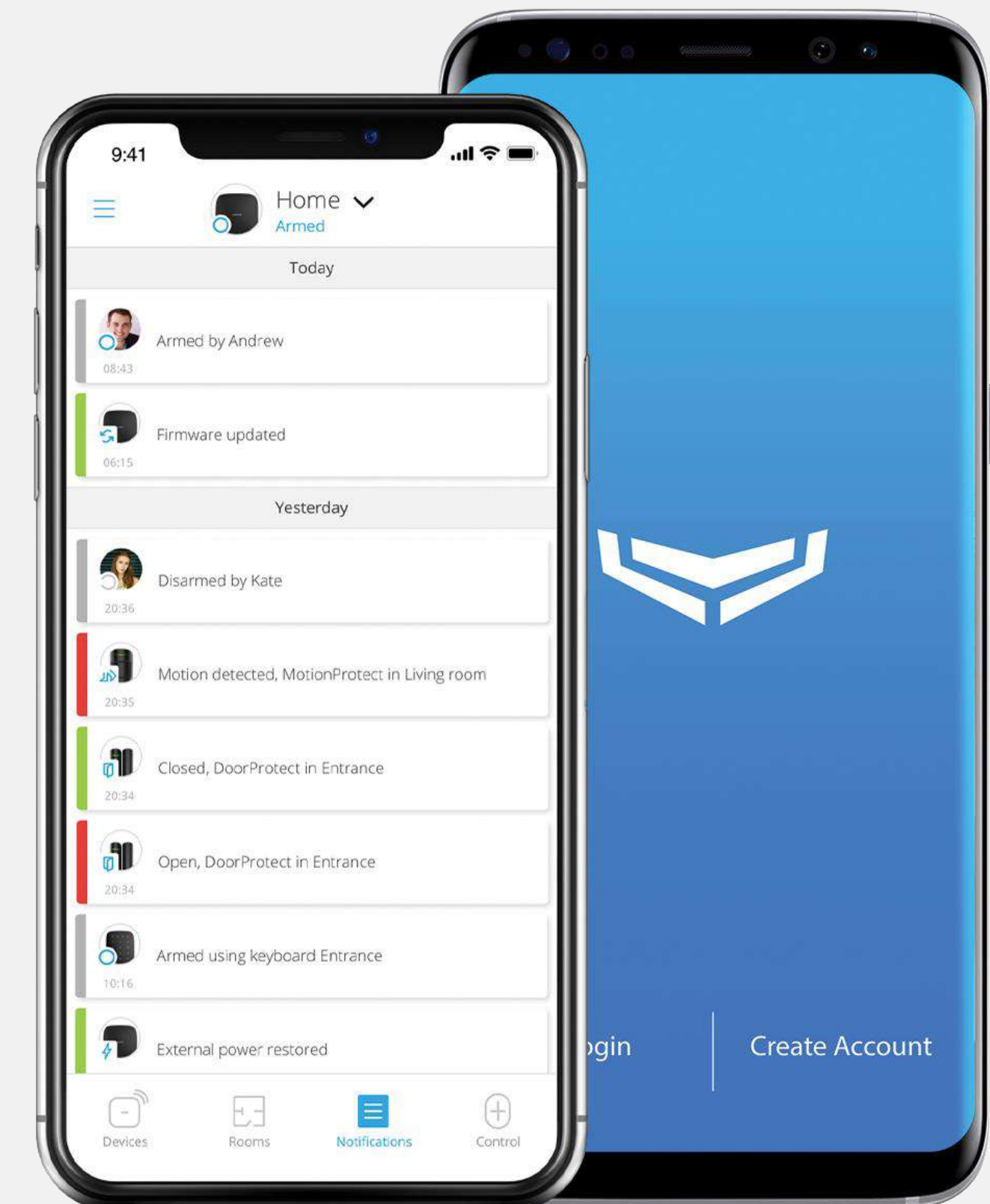
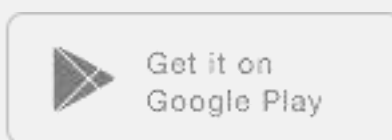
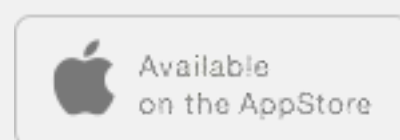




App for End Users

Designed to help users to stay
in touch with their property from anywhere in the world

- Arm/disarm the system
- Get instant notifications
- Follow the events feed
- Get detailed device status
- Test devices
- Create scenarios
- Use virtual panic button
- Watch security cameras
- Keep account protected with 2FA



Ajax Security System

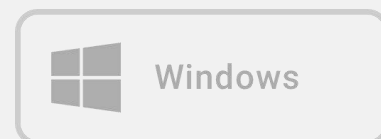
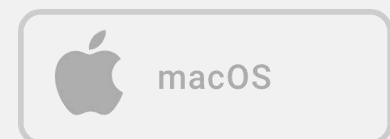
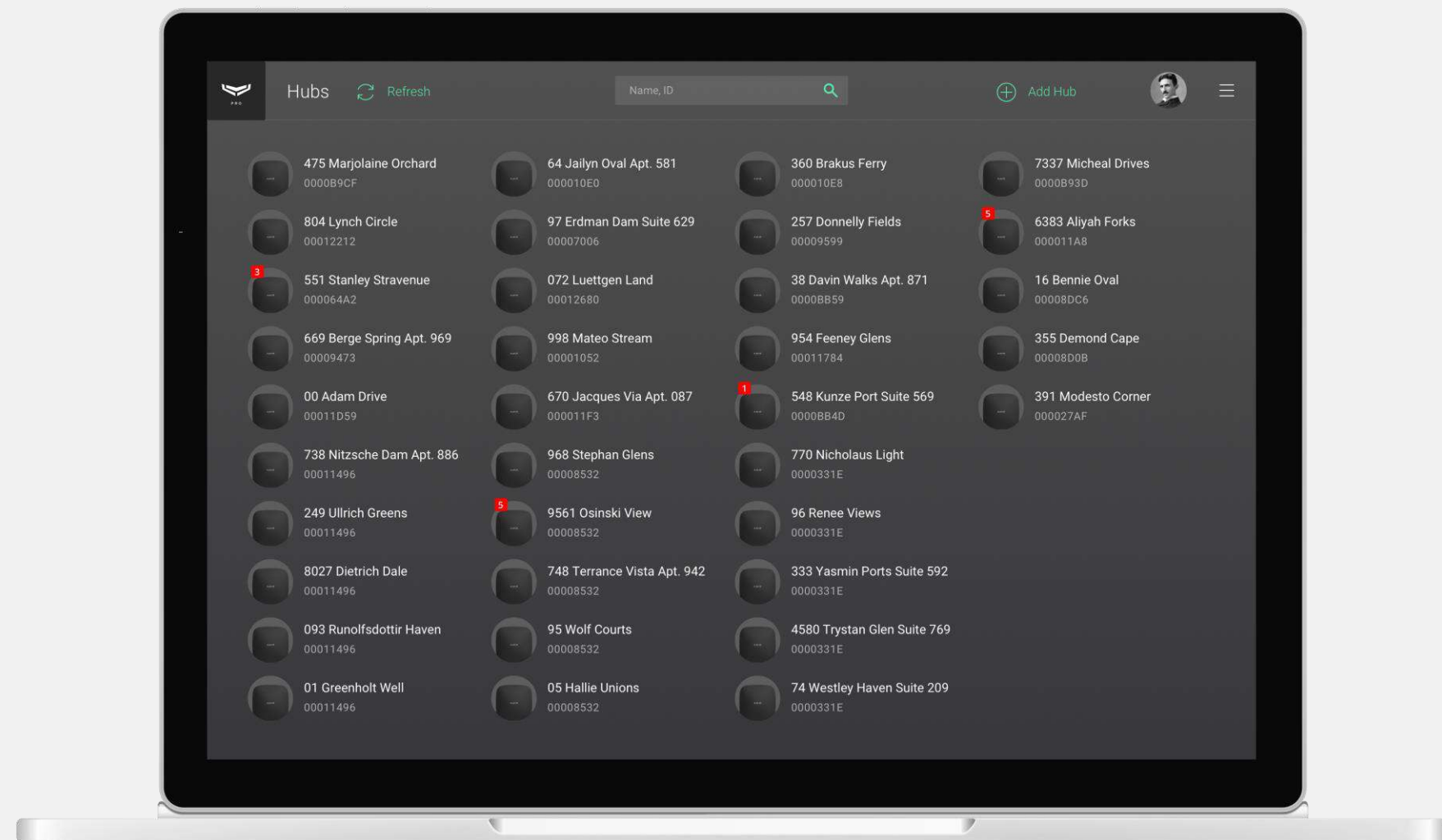




App for PROs

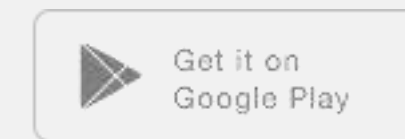
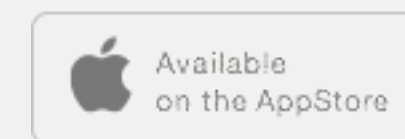
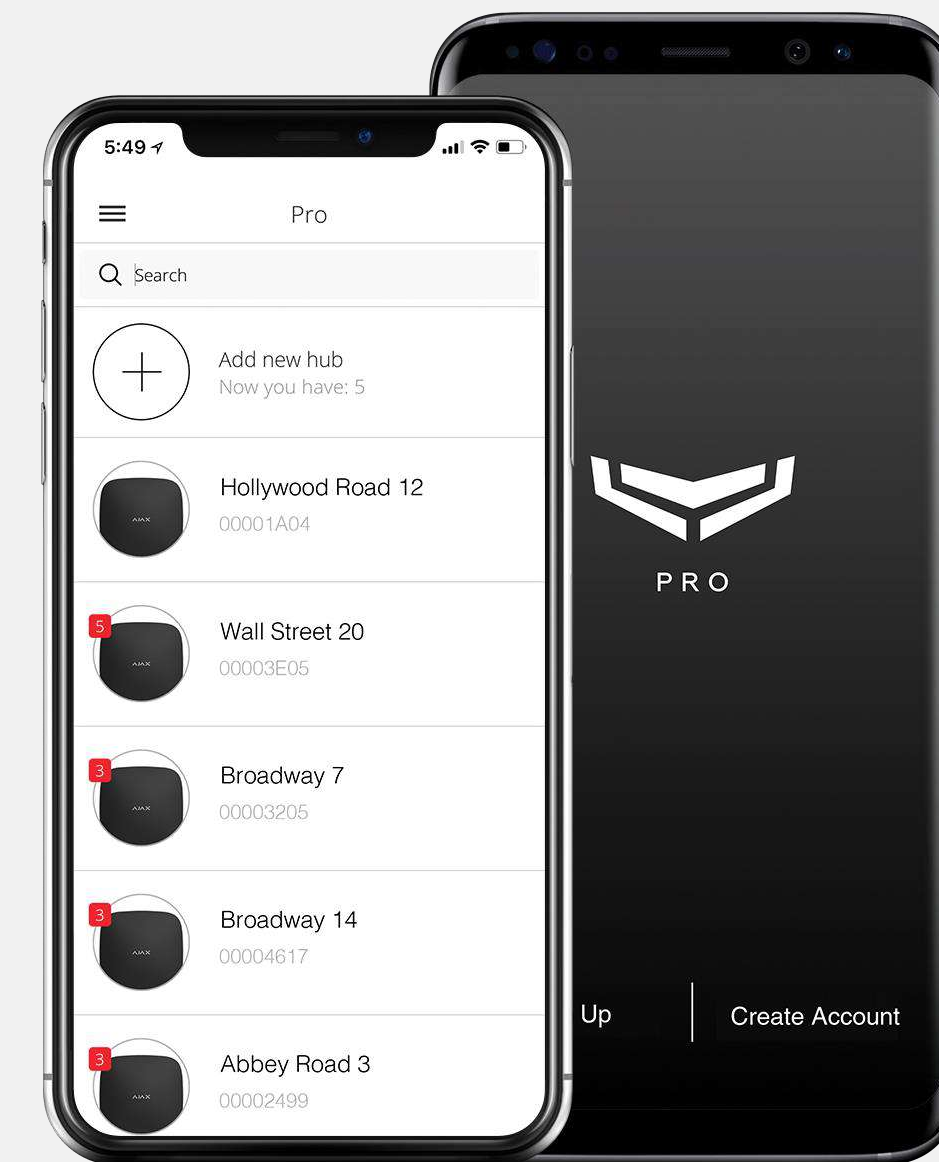
Ajax PRO Desktop

A full-fledged ARC in one computer



Ajax PRO: Tool for Engineers

App for installers to configure security systems on the fly

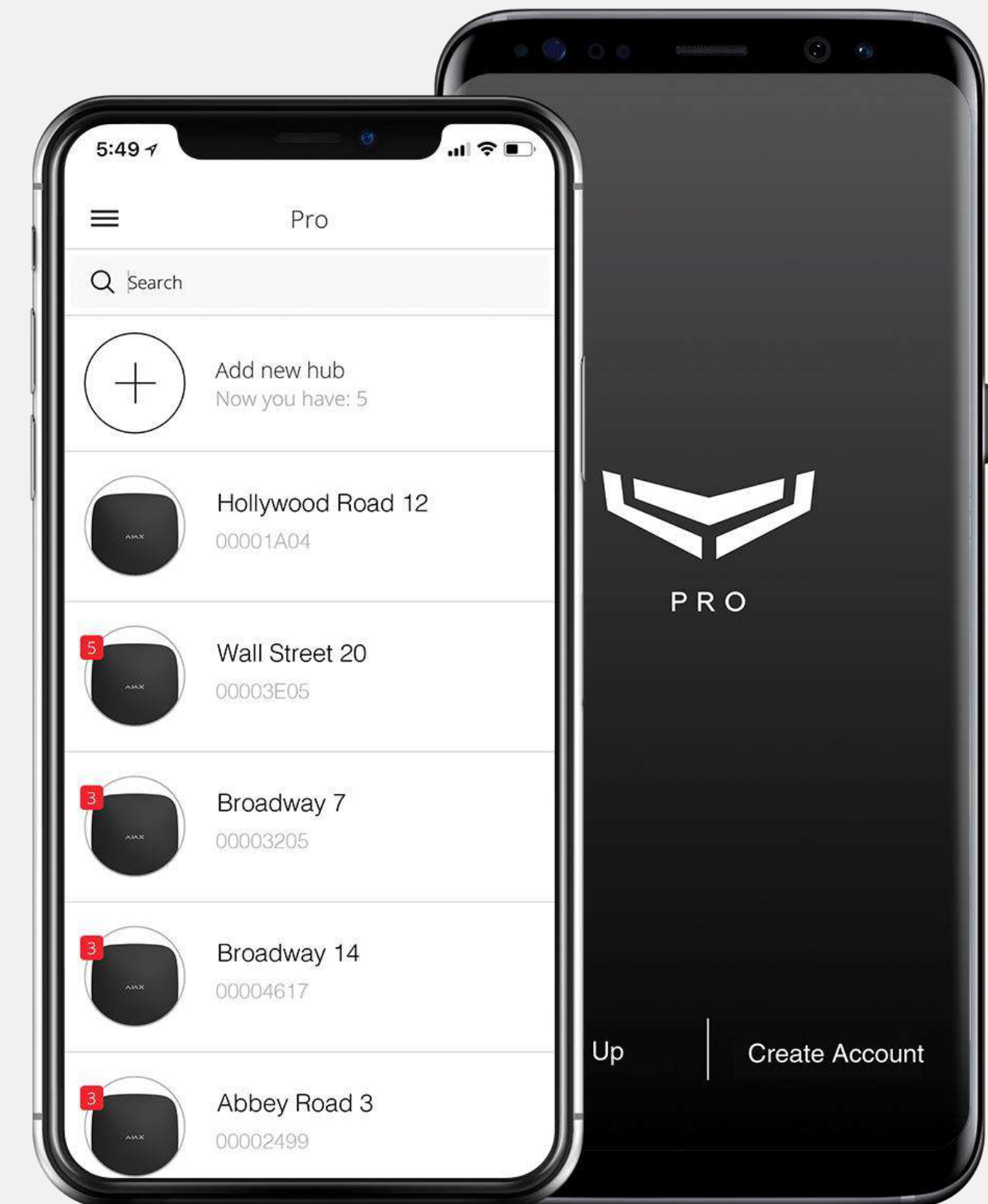




Apps for PROs

Everything to administer, configure and monitor alarms of an unlimited amount of hubs

- Centralized monitoring of thousands of protected facilities
- Instant notifications about the incidents on site
- Detailed log of events
- Remote configuration and detectors testing
- Flexible access
- Visual alarm verifications with MotionCam detectors
- Scenarios configuring
- Video cameras and DVRs connection
- 2FA account protection



Ajax PRO



Ajax PRO Desktop

A full-fledged central monitoring station in one computer

4-in-1

Combines alarm monitoring, personnel administering, event logging, and customer base

Minimum infrastructure is required

No worries about your own servers. A PC and an Internet connection are enough to work

Instant recovery of the monitoring center

In case of unforeseen circumstances, download PRO Desktop to another PC, login, and get access to your monitoring station

Full compatibility

Photo verifications of alarms «from the box» without additional programs and settings

PRO-level monitoring

Intuitive interface, quick access to facility plans, history of events, and notes on the object, coordination of rapid response units

Detailed journal

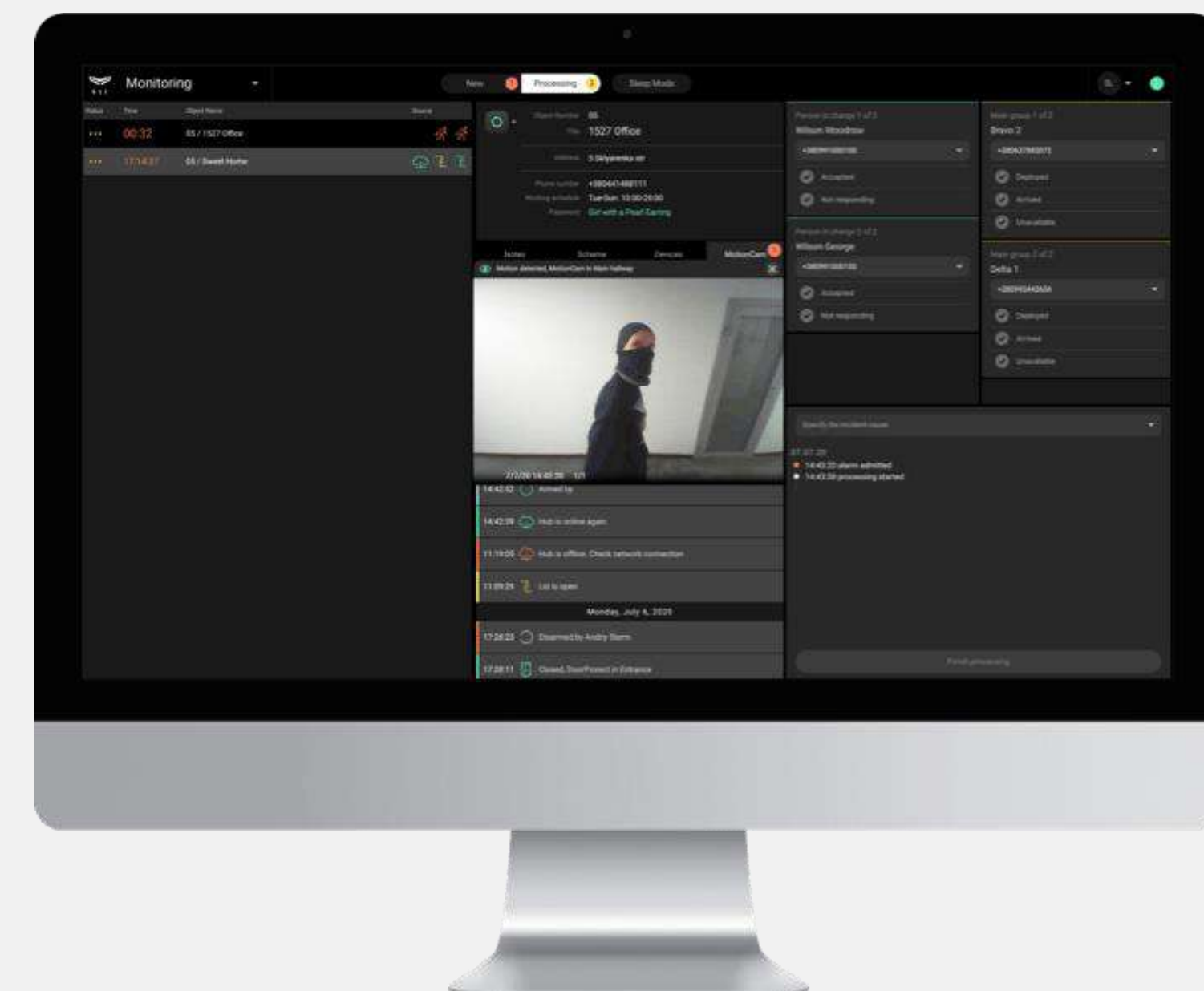
Logging of all events on security objects, as well as actions of employees

Access control

Manage the access of employees to certain functions and temporarily disable their accounts when they go on vacations

Mobile panic button service

Receive the smartphone coordinates when the client press the panic button and send a rapid response unit to help



AJAX

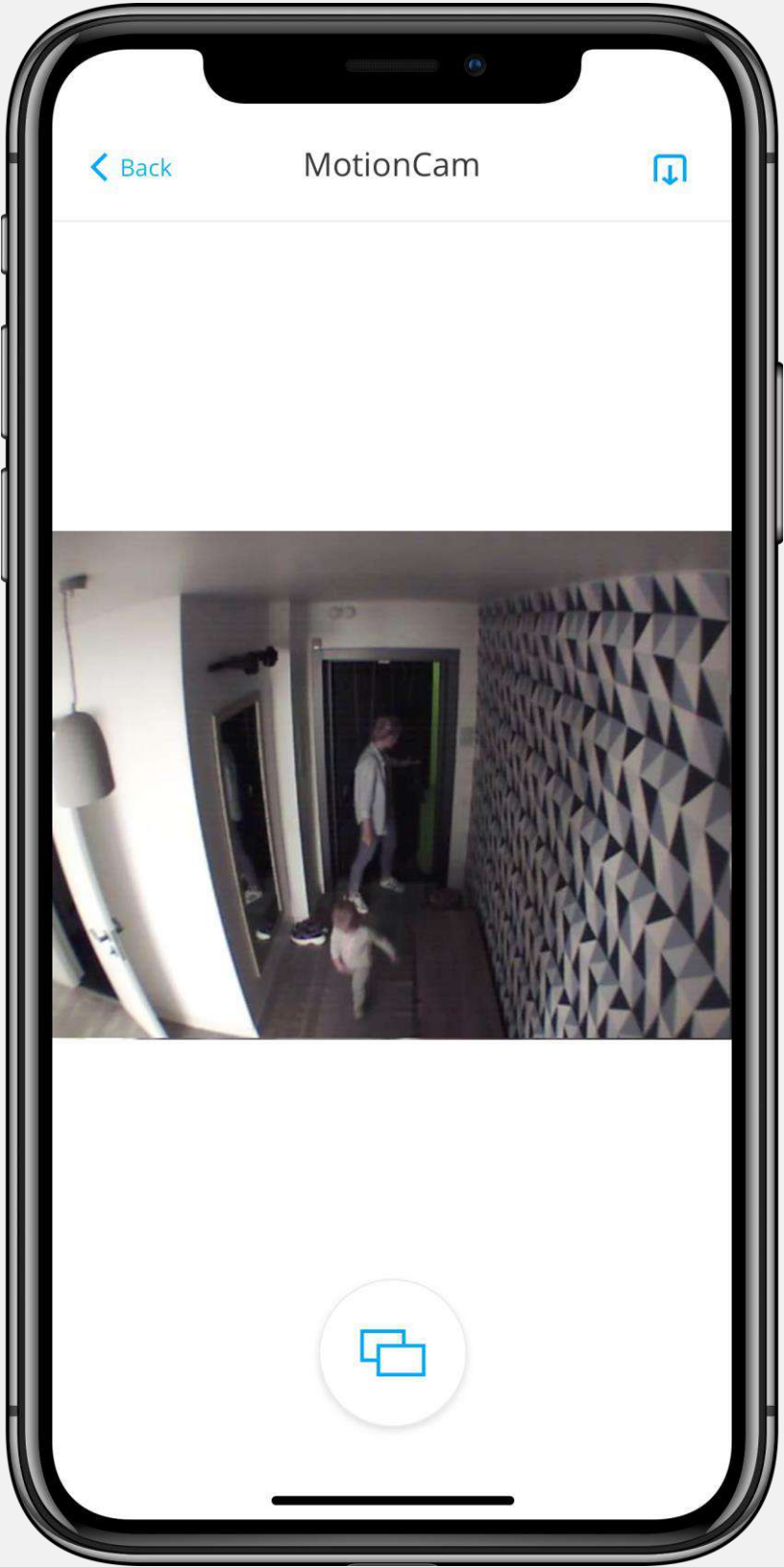
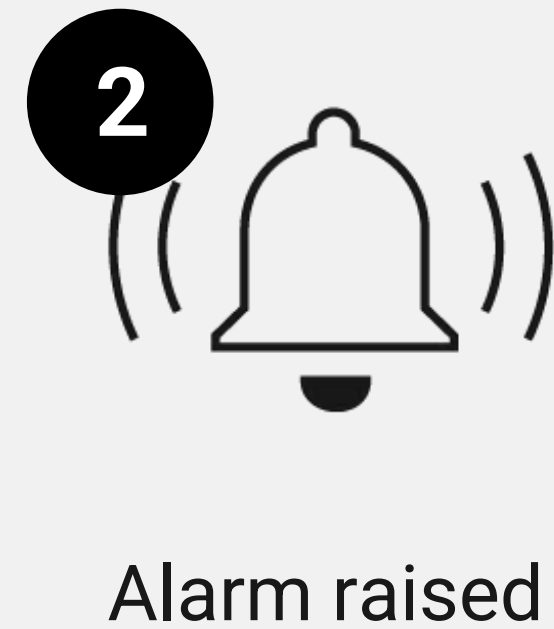


Visual Alarm Verification



MotionCam and MotionCam Outdoor - motion detectors with a photo camera to verify alarms

Photo capture only
when alarmed



Operates only with Hub 2 and Hub 2 Plus



Video Surveillance



The security system and video surveillance in one app

- Dahua, Hikvision, Safire, Uniview, Ezviz integration
- Connect up to 100 cameras and DVRs
- Support for RTSP



Cameras connect to the system in a few clicks

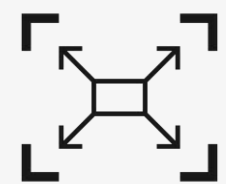
The security system and video surveillance in one app



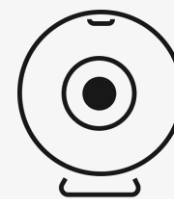
Streaming video and sound



Saving snapshots



Zooming video in



Cameras and DVRs support



Automation



Types of Scenarios

Alarm reactions

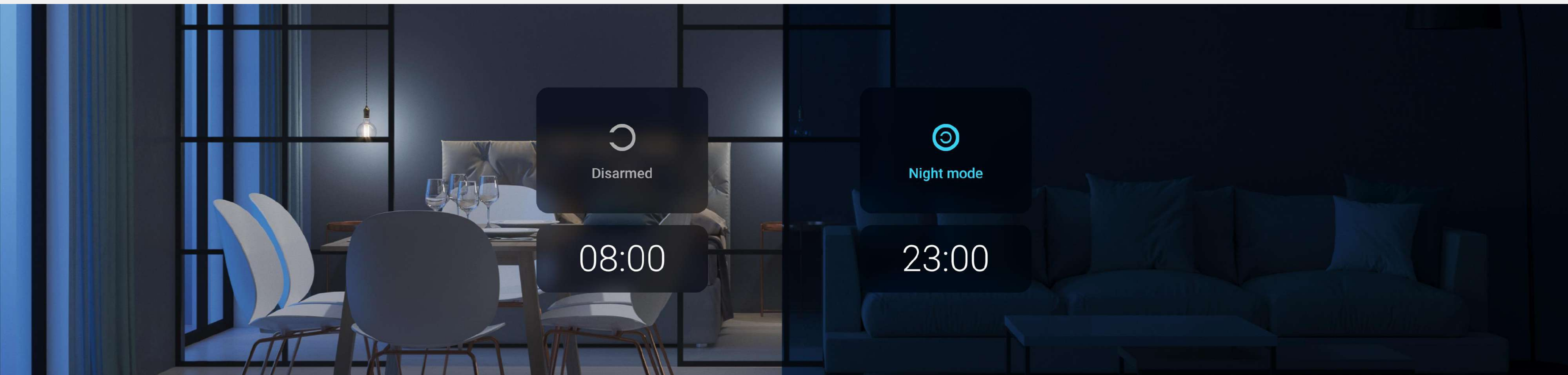
- Flood prevention system
- Switch off the potential cause of ignition
- Spotlighting the trespassers

Scheduled actions

- Scheduled Night Mode
- Home activity simulation
- Heating on schedule

Security mode change reactions

- Turning off lighting and certain sockets when arming the system
- Automatic doors and roller shutters



Automation Devices



WallSwitch



Relay



Socket

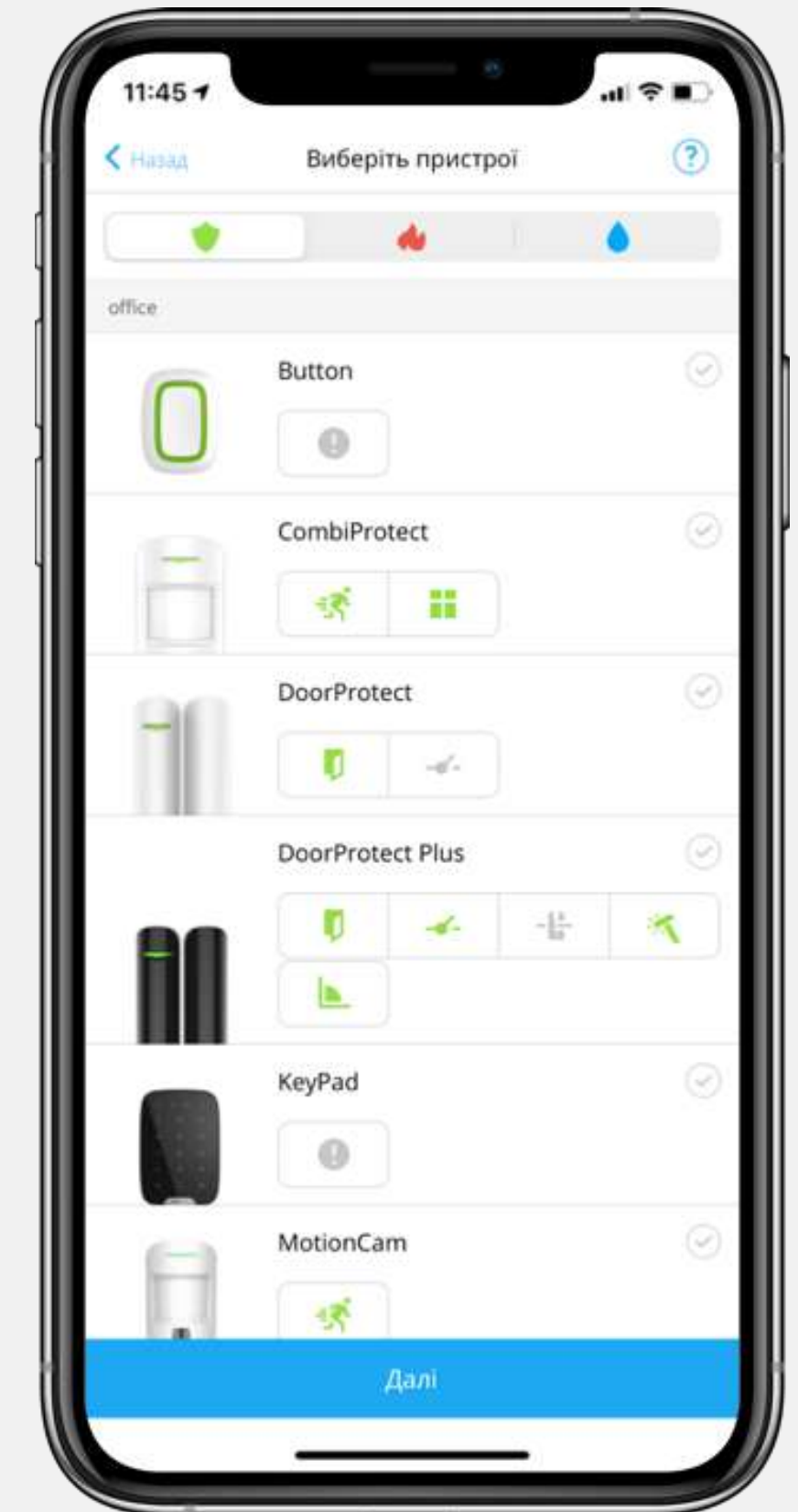
Automation Control



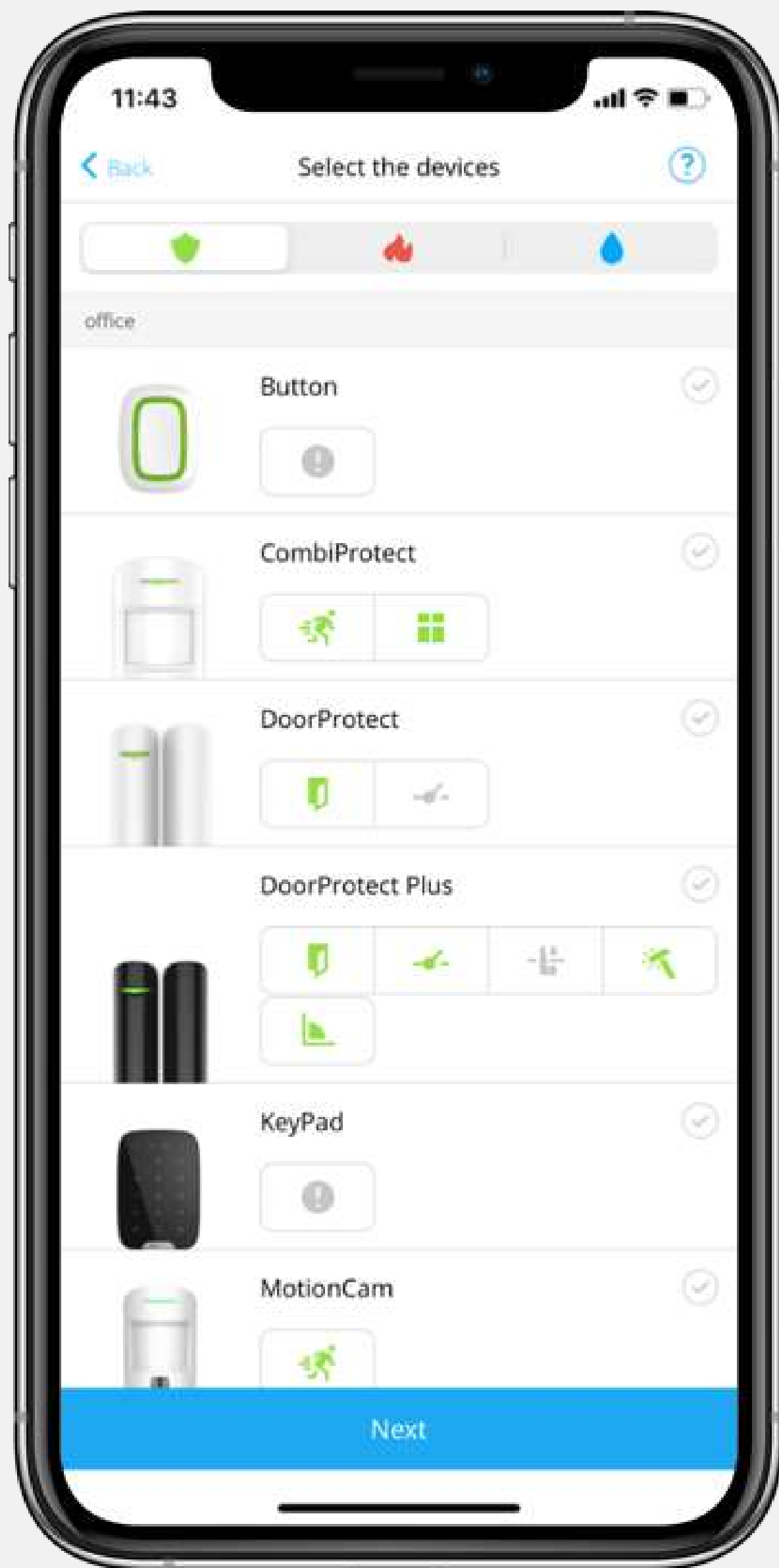
Button



Scenarios



Free App



Scenarios



Hub 2 Plus

64 scenarios



Hub 2

32 scenarios



Hub Plus

64 scenarios



Hub

5 scenarios



Security of any Scale



Security of any Scale

ReX and ReX2

Intelligent range extender communicates at a distance of up to 1800 m



Hub 2 \ Hub 2 Plus

5 × ReX/ReX2

up to 35 km²



Hub/Hub Plus

1 × ReX/5 x ReX

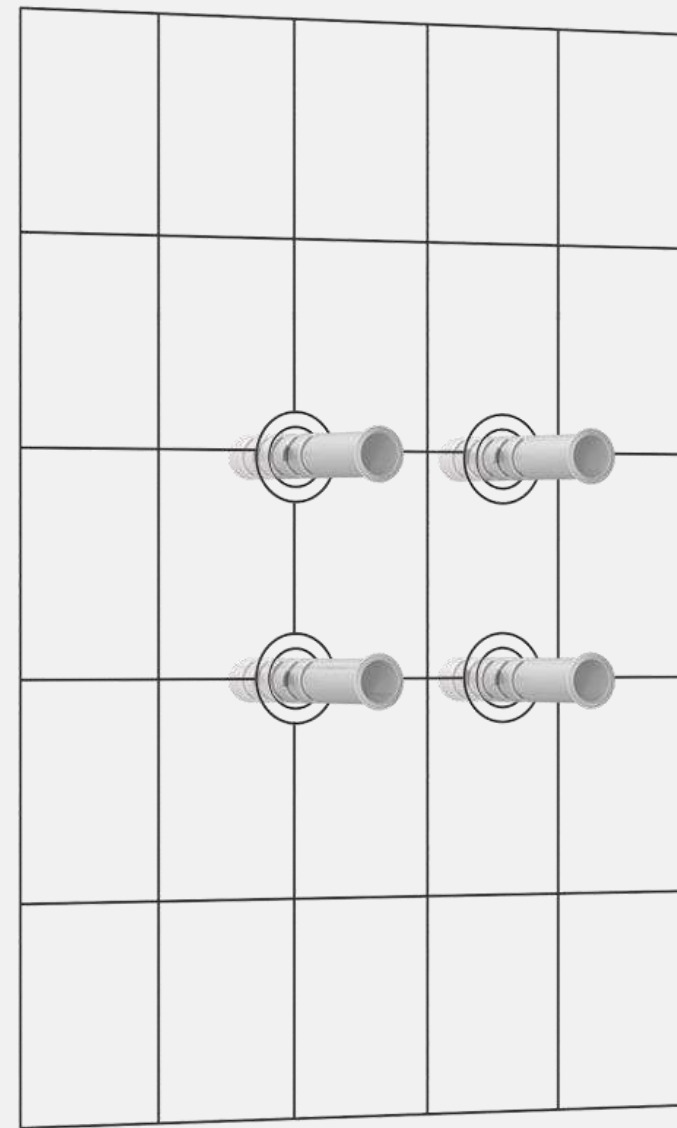
up to 16/35 km²



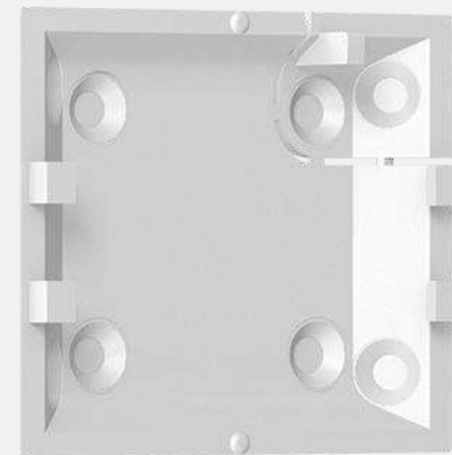
Seamless Setup



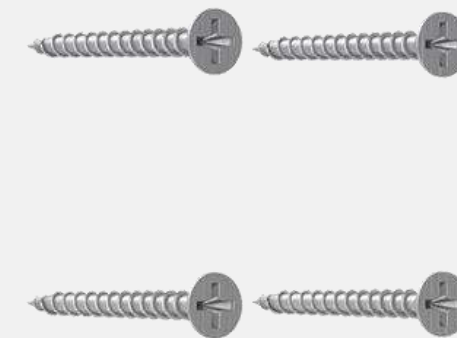
Seamless Setup



Wall



SmartBracket



Screws



Device

- In-app wizard for pairing
- No need to disassemble devices
- Remote testing and device configuring
- All batteries are pre-installed

Detectors are connected using a QR-code and few taps in the app



Devices connect to the hub
in 15 seconds



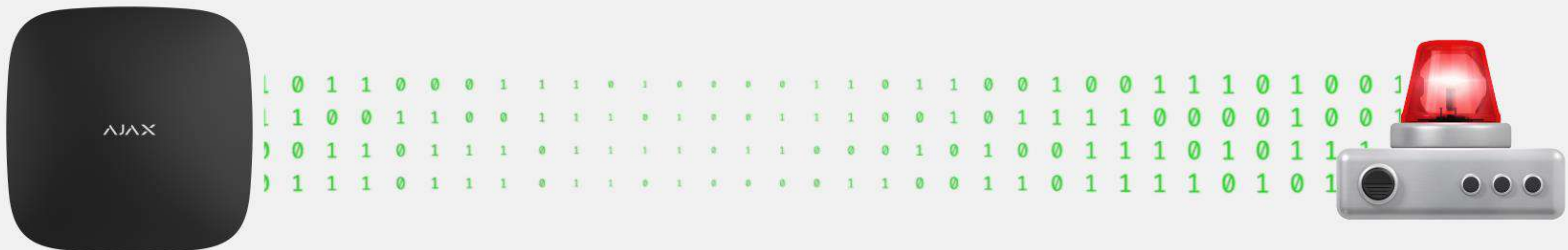
Connection to CMS



Connection to CMS

The system can be connected to most of the Central monitoring stations (CMS) directly or/and via Ajax Cloud

- SIA and Contact ID support
- Direct connection or/and via Ajax Cloud
- Integration with companies's proprietary protocols
- Visual alarm confirmations
- Transmission of user's coordinates when pressing the Ajax mobile app's panic button



CMS software with integrated Ajax features

With proprietary protocol integration, the system also sends alarm photo verifications and coordinates of the user when pressing the Ajax mobile app's panic button



ABsistemDC(NG)v2
by Alarm Automatika



WBB
by T2i



Kronos
by Next! s.c.



Horus
by Azur Soft



Patriot
by Patriot Systems



eLipse
by Logetel



Manitou
by Bold Group



V1 and F1
by ESI



Stages
by Bold Group



SBN
by Innovative Business Software



Sentinel
by Monitor Computer Systems



MASTerMind
by A Carrier Company



Trusted by Professionals



Ajax meets international security standards



European standard EN 50131, Grade II

Ajax devices underwent independent testing and received the highest possible rating for wireless solutions



EN 14604 certified

Our smoke detectors fulfill the requirements of this international standard



PD 6662:2017 Security standard

A document that applies European standards for intrusion and hold-up alarm systems in the UK

Approximately 3500 security companies worldwide provide monitoring services for properties secured by Ajax



The most awarded wireless security system in Europe



Intruder Alarm of the Year



The Best Innovative Product



Security & Firefighting Risks



Innovative Security Product of the Year



MotionCam - Intruder Product Of The Year



9.5 / 10

PSI Product Test



Loved by the End Users



Loved by End Users



87.5%
of the owners would recommend
Ajax to friends and family

Trustpilot «Excellent»



Based on 2,166 reviews



Thank you



Learn more at
www.ajax.systems