



Wireless Grade 3 solution • SUPERIOR

The world's first wireless intrusion protection for high-security sites



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GRADE
EN 50131

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2017

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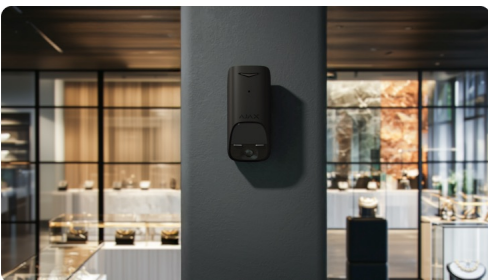
High security. Now wireless.

Meet the world's first fully wireless Grade 3 solution engineered for high-security applications. It comes as a complete portfolio of devices that offer quick installation, effortless configuration, and remote maintenance via Ajax apps. With strong encryption, advanced frequency hopping, improved detection, and anti-masking system, the solution meets the strictest international and regional standards. It can be fully integrated with video surveillance, fire safety, and automation — forming the foundation of a truly high-security setup.

Covering a wide range of high-security sites

Designed for small to medium-sized sites, the solution supports up to 250 devices within a single system. It's ideal for high-security projects and installations that demand stronger protection, even when formal certification isn't required.

- Bank
- Jewelry store
- Museum
- Government institution
- Gas station
- Office



Expand your business potential



Speed that wins projects

Wireless technology makes deployment effortless — no wiring, no delays, no mess. Perfect for meeting tight deadlines without compromising quality.



Same team. More installs.

With smart Ajax tools, straightforward installation, and quick setup, even small teams can take on big projects — cutting labor costs and boosting efficiency.



An alternative for hard-to-wire sites

Wireless Ajax solution is ideal for any site where wiring is impossible, costly, or unnecessary: temporary locations, rental spaces, historic buildings, finished interiors, or facilities that can't afford downtime.

Experience the fastest deployment in the industry



Wireless freedom

Place devices exactly where you need them without the constraints of wires. With up to 3,500 m (11,450 ft) of radio range, Ajax offers unmatched flexibility in project design.



Minutes to mount

Mount any device in minutes — no disassembly required. Even large-scale systems can be fully deployed within a single day.



Quick setup

Add devices to a hub by scanning a QR code. Default settings are set to meet most installation needs right out of the box.

Enjoy effortless maintenance



Addressability of each system device

Notifications include all essential details: device name, location, and event time.



Long-lasting battery

Pre-installed batteries provide up to 7 years of operation, which minimizes service visits and maintenance costs.



Configuration on site or remotely

Settings can be adjusted at any time via Ajax apps, from anywhere with an internet connection.

Detection without compromise

Ajax Superior devices meet all Grade 3 requirements, combining advanced detection technologies to instantly identify real threats with little to no false alarms.

Motion detectors feature an exceptionally small blind zone – just 30 cm (0.98 ft) – and reliably detect crawling, fast or slow movement

Panic buttons trigger alarms immediately, with no wake-up delay

Opening detectors respond to shock and tilt for early intrusion detection

System supervision and regular health checks of all sensors

Anti-masking system triggers an alarm on any attempt to cover or sabotage a device

Advanced anti-sabotage

Enhanced frequency hopping and instant notifications about jamming attempts

Regular device polling and fast communication failure detection

Sabotage resistance in full compliance with Grade 3 requirements

Strong proprietary encryption for all stored and transmitted data

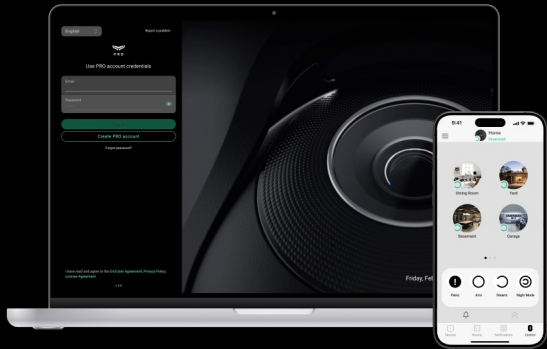
Device authentication against spoofing

Protection against code guessing and access device copying

Tamper buttons to detect device dismantling or detachment

System supervision with regular device health checks with status reports sent to the hub

Breaking old ways with powerful apps



Ajax devices work in synergy with free mobile and desktop apps that seamlessly fit into any workflow. No programming, no outdated configuration tools — just an intuitive interface for faster installations, easier system management, and efficient remote service.

Ajax Security System

For end users

Control security and keep an eye on your space from anywhere



iOS



Android

Ajax Desktop

For facility managers or owners

Monitor the entire site and stay informed with instant alarms and maintenance notifications



macOS



Windows

Ajax PRO: Tool for Engineers

For installers

Connect, configure, and test devices remotely and on site



iOS



Android

Ajax PRO Desktop

For installers and monitoring companies

Manage Ajax systems, monitor alarms, and confirm them with visual verification



macOS



Windows

Blackout-ready

In the event of a power outage, mains-powered devices instantly switch to backup power, while all other devices continue running on built-in batteries — keeping the system fully operational and energy-independent.

Control panels



Superior Hub G3 Jeweller

Superior Hub G3 Jeweller is Ajax's first fully wireless control panel certified to Grade 3 standards. It's easy to install, simple to use, and requires minimal maintenance. Built-in communicators and wireless device connection allow the system to be deployed quickly and connected to monitoring stations via Ajax apps. The hub also supports Ajax fire safety, video surveillance, and automation, making it a unified solution for high-security sites.

Color: ☐ ☒

Wireless communication

Up to 3,500 m (11,450 ft) via Superior Jeweller, TurboWings, and VoRF protocols

Capacity

Up to 250 devices, 200 users, 25 security groups, and 64 automation scenarios

Full functionality out of the box

Built-in power supply unit and support for Ethernet, Wi-Fi, cellular, and radio communication

Event transmission to monitoring stations

Via SurGard (Contact ID), SIA (DC-09), and other protocols

Power supply

110~230 V~ mains and a 16- or 60-hour hot-swappable backup battery (sold separately)

Indoor installation

IP20-rated enclosure with an operating temperature of -10 °C to +40 °C (14 °F to 104 °F)



Superior ReX G3 Jeweller

The range extender expands wireless coverage between the hub and connected Ajax devices. It connects to the hub via radio or Ethernet, guaranteeing stable communication even in challenging areas — such as basements, remote spaces, or metal structures.

Color: ☐ ☒

Up to 3,500 m (11,450 ft) of additional radio communication range

Communication via Ethernet in challenging radio signal environments

Expanded system coverage with up to 5 range extenders on a single hub

Visual verification data delivered via Wings and TurboWings protocols

110~230 V~ mains power supply backed up by a 16- or 60-hour hot-swappable battery (sold separately)

IP20-rated enclosure with an operating temperature of -10 °C to +40 °C (14 °F to 104 °F)

ExternalAntenna can be connected to the hub or range extender to overcome barriers to radio signals in challenging environments.

To ensure continuous operation during power outages, the hub and range extender require a backup battery that is sold separately.

Ajax Superior Internal Battery (16h)

Provides up to 16 hours of autonomous operation.

Ajax Superior Internal Battery (60h)

Provides up to 60 hours of autonomous operation.

Opening detectors



Superior DoorProtect G3 Jeweller

Detects intrusion attempts by responding to doors or windows being opened, as well as to tilt and shock

Color: ☐ ☒

Two reed switches: the magnet can be placed on either side of the detector	Shock and tilt detection powered by a built-in accelerometer
Up to 3,500 m (11,450 ft) of radio communication in open space	Up to 5 years of operation on enhanced pre-installed batteries
Protection against magnet spoofing with a built-in magnetometer and regular sensor health checks	IP20-rated enclosure with an operating temperature of –10 °C to +40 °C (14 °F to 104 °F)

Motion detectors

Superior MotionProtect G3 Jeweller

PIR sensor only

Color: ☐ ☒



Superior MotionProtect Plus G3 Jeweller

PIR combined with a microwave sensor

Color: ☐ ☒



Superior MotionCam G3 (PhOD) Jeweller

PIR sensor and a camera for photo verification

Color: ☐ ☒



Up to 15 m (49 ft) of motion detection distance	Motion detection angles: horizontal – 90°, vertical – 71°
Accurate detection of both slow and fast movement	Minimized blind zone of 30 cm (0.98 ft) to detect crawling
Support for various types of photo verification (for MotionCam device)	First photo delivered in 4.5 s via TurboWings protocol at 288 × 240 px resolution (for MotionCam device)
Support for HD photos and HDR technology for high-quality images in challenging lighting conditions	Up to 3,500 m (11,450 ft) of radio communication range in open space
Up to 5 years of operation on enhanced pre-installed batteries	Advanced anti-masking system to detect covering, painting, or obstructing the lens
Regular self-checks of all sensor states and built-in camera connection	IP20-rated enclosure with an operating temperature of –10 °C to +40 °C (14 °F to 104 °F)
Wireless Grade 3 motion detectors do not support the pet immunity feature.	

Keypads

Superior KeyPad Plus G3 Jeweller

Wireless keypad with touch buttons

Color: ○ ●



Control of system security modes and automation	Support for contactless access devices featuring DESFire® technology
Remote management of access rights, devices, and codes via Ajax apps	Multiple types of access codes: main, personal, duress, for unregistered users, and for RRU
5-inch display with a 480 × 854 px resolution (for the touchscreen model)	Contactless control via smartphone using BLE (for the touchscreen model)
Up to 3,500 m (11,450 ft) of radio communication range in open space	Up to 4.5 years of operation on enhanced pre-installed batteries
Configurable function button that can act as a panic button	

Punic buttons



Protection against accidental activation: two buttons separated by a divider must be pressed simultaneously	Alarm confirmation to prevent false dispatches: by a second press or another DoubleButton device
Daily automatic battery health checks and low battery notifications	Support for automation scenario: activation by button alarm and confirmed button alarm
Up to 3,500 m (11,450 ft) of radio communication range in open space	Up to 5 years of operation on enhanced pre-installed batteries
Option to carry the device or fix it on a flat surface with the Holder fastener (sold separately)	IP55 enclosure with an operating temperature of -10 °C to +40 °C (14 °F to 104 °F)

Superior KeyPad TouchScreen G3 Jeweller

Wireless keypad with a touch screen

Color: ○ ●



Sirens

Superior HomeSiren G3 Jeweller

For indoor installation

Color: ☐ ☒



Adjustable alarm volume and duration with multiple selectable sound patterns

LED and sound indication of security mode changes and entry/exit delays

Up to 3,500 m (11,450 ft) of radio communication range in open space

Up to 10 years of operation on enhanced pre-installed batteries

Option to connect an external LED indicator (for the HomeSiren device)

Superior StreetSiren Plus G3 Jeweller

For indoor and outdoor installation

Color: ☐ ☒



Bright built-in LED frame (for the outdoor model) or single LED indicator (for the indoor model)

Chime feature and after-alarm LED indication

Jamming detection and frequency hopping to prevent radio interference

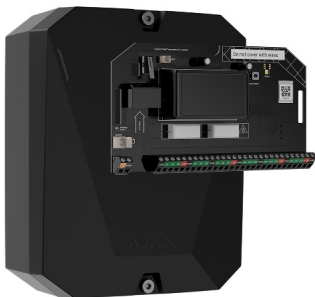
Option to connect an external 12 V^{DC} power supply (for the outdoor model)

Operating temperature: -10 °C...+40 °C (14 °F...104 °F) for the indoor model, and -25 °C...+60 °C (-13 °F...140 °F) for the outdoor model

Integration modules

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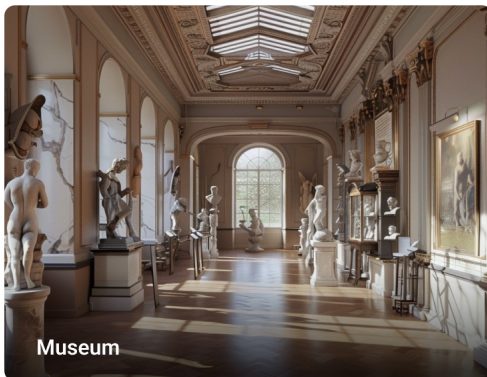
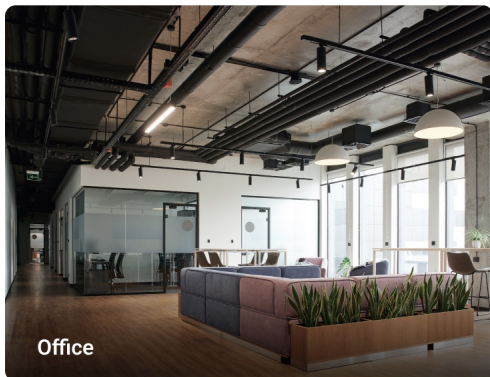
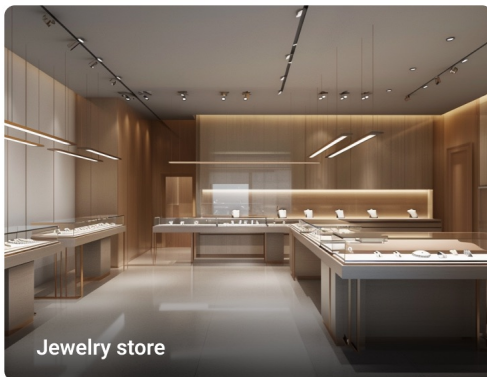
Superior MultiTransmitter G3 Jeweller

Available to order in the original casing or as a board to install into Ajax Case

Color: ☐ ☒

18 zones for connecting third-party detectors with NC, NO, EOL, 2EOL, and 3EOL connection types	Over 10 configurable event types for connected devices
Two operating modes for pulse and bistable devices	KeyArm Zone input for controlling system security modes via third-party access controllers, key switches, etc.
Time-efficient installation thanks to automatic EOL resistance measurement	5 outputs for a 12 V ⁼⁼ power supply: one isolated line for fire detectors and four for other devices
Up to 3,500 m (11,450 ft) of radio communication range in open space	Up to 400 m (1,300 ft) of wired connection distance between devices and the integration module
IP20-rated enclosure with an operating temperature of −10 °C to +40 °C (14 °F to 104 °F)	110–230 V~ mains power supply backed up by an external battery (not included in the complete set)

Choose the professional-grade security for your site





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