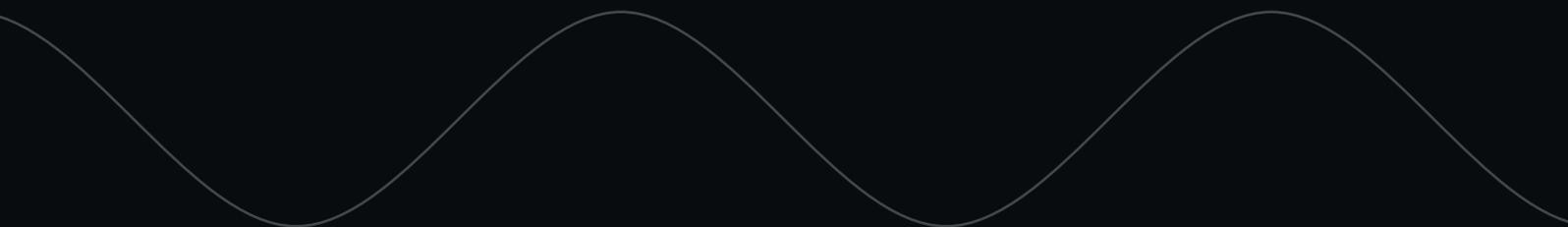


AJAX

Jeweller<sup>®</sup>





# People believe in what they can understand.

Most people find misplaced comfort in wires. They feel safer with the idea that there's something physical to protect them. But this sense of protection is rather an illusion. Wired security systems come with a tangle of problems: wires take a mountain of effort during installation, and they can test your nerves long after they've been installed and are supposed to be working.



# Introducing Jeweller.®

## No wires — no worries.

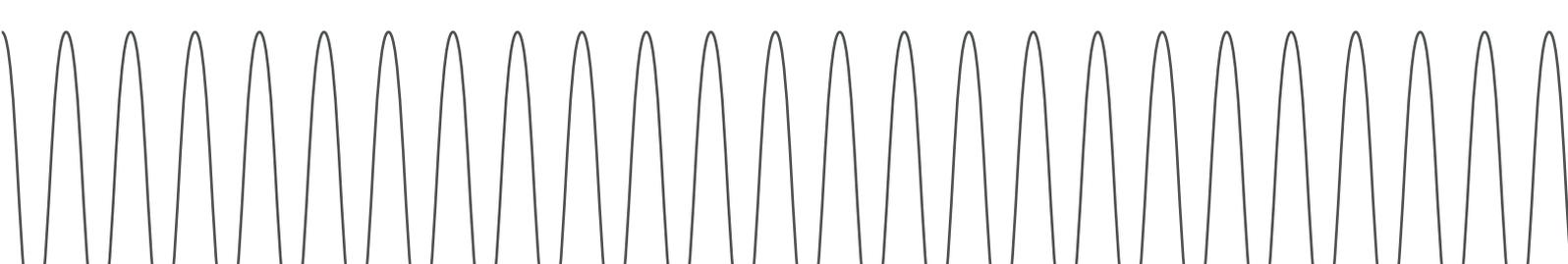
With Ajax, we wanted to create the ideal security system for the modern world. The benefits of wires just didn't seem to outweigh their shortcomings. And when we were able to develop Jeweller, they simply had no place. We set out to create something as secure as wires, and we came up with something even better than intended. Precise, energy-efficient and ultimately unbeatable radio technology.

# 01

Jeweller is

## **Range.**

Ajax detectors operate at distances up to 2,000 meters (6,552 ft) from the Hub in open space. In most spaces, this provides enough leeway not to worry about changing the floorplan or moving the furniture. The signal will still reach to the Hub instantaneously.

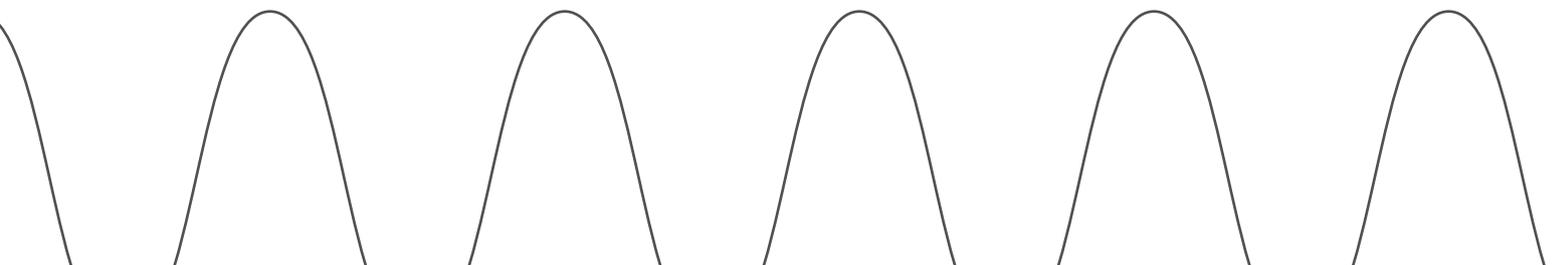


# 02

Jeweller is

## **Durability.**

It's easy to create a system that works at long distances. It's much more difficult to make sure it operates smoothly. We equipped the Hub with smart technology that maintains a minimum level of power output. This allows detectors to maintain stable operation for up to 7 years.

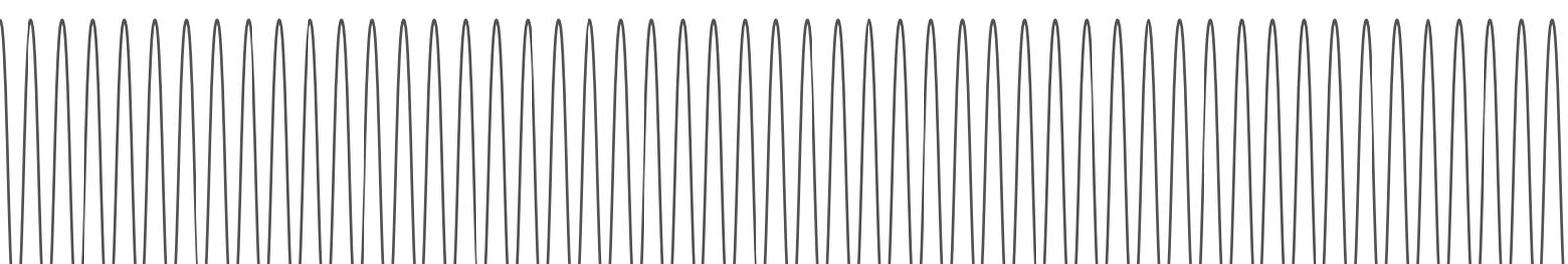


# 03

Jeweller is

## **Accuracy.**

Ajax Hub always knows whether or not a detector is operational. Two-way communication, addressable detectors and regular pings from 12 seconds ensure system integrity. If a detector fails or is compromised, Ajax will immediately determine the cause and report on it.

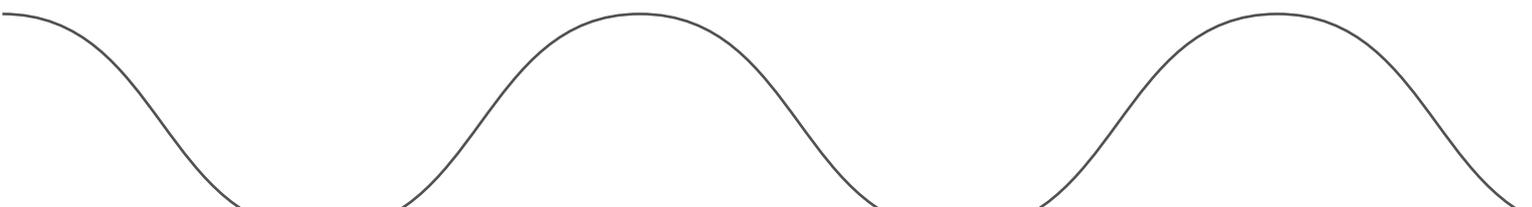


# 04

Jeweller is

## **Stability.**

In order to avoid signal fading or failure, we've equipped the Hub with two separate antennas. The Hub analyzes signal quality in real time and chooses better and stronger one. This extra precaution guarantees detectors remain connected even in extreme radio conditions.

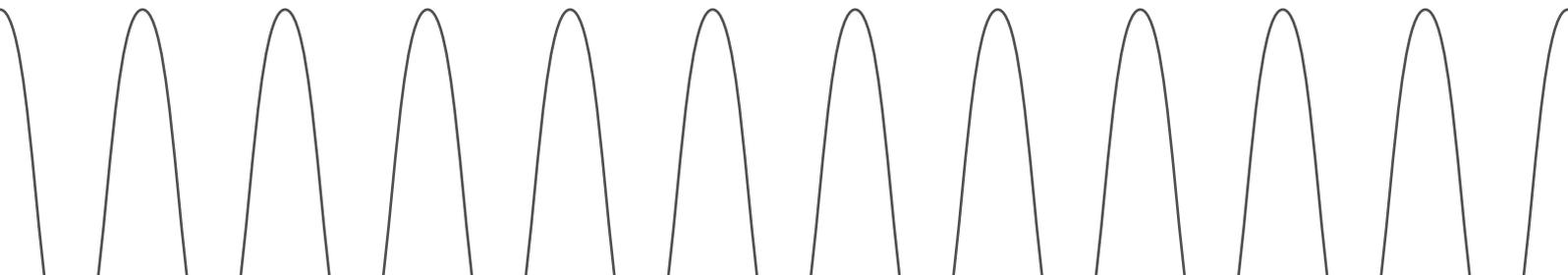


# 05

Jeweller is

## **Security.**

Ajax Hub and its detectors are equipped with multi-layered protection against tampering, jamming and general failure. In the event of any kind of external interference, the system quickly and accurately determines whether a detector has been compromised, recognizes the nature and scope of the damage, and instantly notifies the owner and/or security company of the situation.

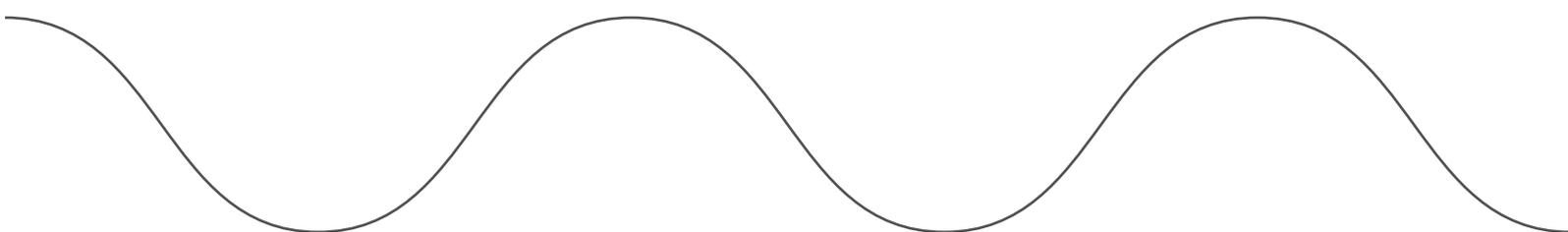


# 06

Jeweller is

## **Flexibility.**

One frequency simply isn't enough for a reliable security system. For that reason, Ajax can work on multiple different frequencies. If the system experiences jamming, our algorithm instantly and automatically shifts communication to an unaffected channel. If attackers somehow affect the entire frequency band, the Hub will send an emergency alarm notification.

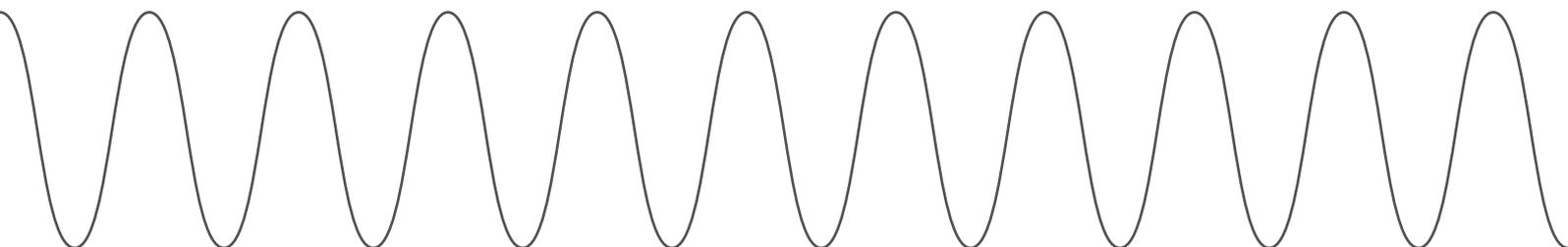


# 07

Jeweller is

## **Superiority.**

People generally prefer to live in houses or apartments with large windows and open rooms. Protecting these vast spaces is not a problem for a single Ajax Hub. With the ability to control and monitor up to 100 devices simultaneously, the Hub offers enough range to install detectors on every door and window of most residential houses or apartments.

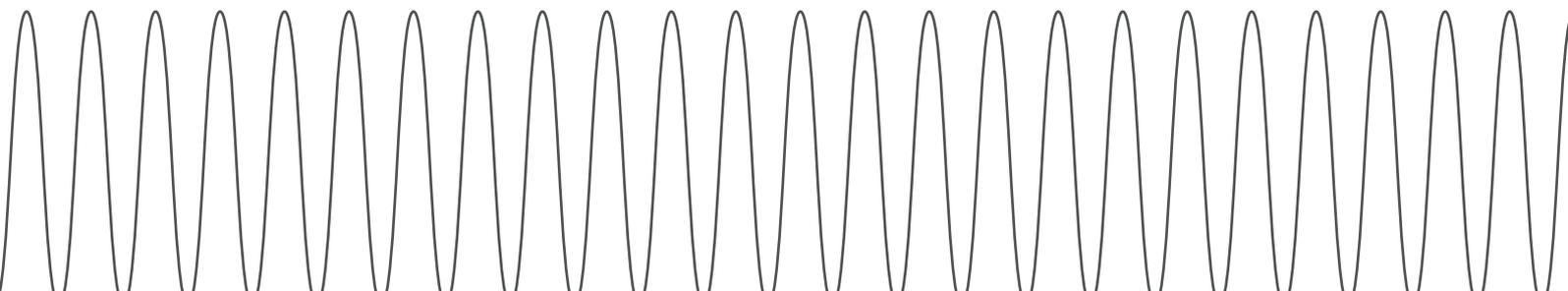


# 08

Jeweller is

## **Autonomy.**

The Ajax system is capable of maintaining itself. Ajax Hub automatically detects, downloads and installs the newest and most secure software updates. Once you've set up the system, there's no need to worry about installing updates and you can make adjustments from anywhere in the world.



Jeweller is

## **Invulnerability.**

All data transfers — from the Hub to a device or from a device to the cloud — are delivered in small data packets and encrypted using a proprietary algorithm based on the AES standard. So there's no need to fear any brute force attacks: cracking the encryption key would take an unfathomable amount of time.



# 10

## Specs

Radio signal power	—	Up to 25 mW (self-adjustable)
Connection type	—	Two-way
Operating frequencies	—	868.0-868.6
Encryption type	—	Block based on AES standard encryption
Maximum distance between devices:	—	Up to 2,000 m (6,552 ft) (in open space)
Polling period	—	From 12 seconds
Maximum number of connected devices	—	100
Detector battery life at one ping per minute	—	Up to 7 years
Alarm triggering time	—	Instantly
TDMA	—	Yes
Jamming protection	—	Yes
Tamper protection	—	Yes
Signal forgery protection	—	Yes
Failure protection	—	Yes
Remote setup	—	Yes



AJAX

Check our website for more info

[www.ajax.systems](http://www.ajax.systems)