

# Hub

The Hub intelligent control panel is a key element of the Ajax security system. The device monitors operation of all Ajax detectors and immediately sends an alarm signal to the owner and the Central Monitoring Station.

- Authentication to prevent forgery
- Jamming detection and communication channels encryption
- Tampering alarm

Uses GSM or Ethernet to send alarms to the Central Monitoring Station and the owner	Sends a notification in case of electrical power loss and operates for up to 15 hours from battery backup	Checks the functionality of detectors at least every 12 seconds
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## Principle of operation

The device collects information on detector operation in an encrypted format, analyzes the data, and in case of alarm, notifies the system owner and the Central Monitoring Station in just milliseconds.

## Features

The device uses Jeweller radio technology to monitor the detectors and ensure a quick response to danger. It switches the entire system to clear frequencies during jamming. The device is protected against viruses at software level.

## Installation and set up

Ready to operate straight out the box. It is set using the mobile application, and the detectors are connected with just one click. It can be mounted in just a few minutes using the SmartBracket mount.

- [Download user`s guide](#)
- [Manual](#)

## Tech specs

Classification	The radio channel central unit with GSM and Ethernet modules
Maximum number of devices connected to the hub	100
Maximum number of cameras connected to the hub	10
Maximum number of users	50
Maximum number of rooms	50
Maximum number of groups	9

Mobile applications	iOS 9.1 and later Android 4.1 and later
Communication channels	Ethernet, GSM (850/900/1800/1900 MHz)
Alarm signal	Delivery time: 0.15 s Types of notifications: SMS message, call, push
Communication with Central Monitoring Station	Contact ID, SIA
Processor	ARM
Operating system	OS Malevich  <a href="#">Learn more about firmware updates &gt;</a>
Power supply	Mains supply: 110–240 V Battery backup: Li-Ion 2 A· h Up to 15 hours of offline operation when Ethernet is switched off Energy consumption from the grid — 10 W
Jeweller radio technology	Communication range with detectors — up to 2,000 m in an open space Two-way communication between devices Operating frequencies — 868.0-868.6 MHz Self-adjusting RF output power — up to 25 mW Block encryption based on AES algorithm Detector polling period — 12–300 s Frequency hopping  <a href="#">Learn more about Jeweller &gt;</a>
SIM card support	Micro SIM 2G
Operating temperature range	From -10°C to +40°C
Anti-sabotage	Protection against fraud Jamming detection Tamper-resistant
Video surveillance	Up to 10 cameras or DVRs  <a href="#">Learn more &gt;</a>
Remote set up	+
Dimensions	163 × 163 × 36 mm
Weight	350 g
Certification	Grade 2, CE
Warranty	Replacement and repair within 24 months of the date of sale. Batteries are not covered under warranty.  <a href="#">Learn more &gt;</a>
Complete set	Ajax Hub intelligent control panel SmartBracket mounting panel Power cable Ethernet cable Installation kit

SIM card (depending on region)  
User's guide