

# AJAX

Specification – Hub2 Kit-1



## Kit Contents:

- 1 x HUB 2 Panel
- 1 x Door Contact Sensor
- 2 x MotionCam PIR detector
- 2 x SpaceControl Keyfob
- 1 x HomeSiren (internal)
- 1 x StreetSiren (external)

## Specification – Hub2

Classification	The radio channel central unit with the support of visual alarm verification detectors
Maximum number of devices connected	100
Video surveillance support	Up to 25 cameras or DVRs
Maximum number of users	50
Maximum number of rooms	50
Maximum number of groups	9
MotionCam detectors support	+
Communication channels	Ethernet, Two x 2G SIM-cards GSM (850/900/1800/1900 MHz)
Alarm signal	Delivery time: 0.15 s Types of notifications: SMS message, call, push
Switching between the SIM-cards	4 minutes
Communication with Central Monitoring Station	Contact ID, SIA
The speed of alarm delivery to the CMS	Instant
Operating system	OS Malevich
Power supply	Mains supply: 110-240 Vac Battery backup: Li-Ion 2A/h Up to 16 hours of offline operation when Power is switched off
Jeweller radio protocol	Communication range with central unit - 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 Device polling period - 12-300 s
Wings radio technology	Transmission of visual confirmations Delivery verification of packages
Operating temperature range	-10°C to +40°C
Anti-sabotage	Protection against fraud Jamming detection Tamper-resistant
Video surveillance	Up to 10 cameras or DVRs
Remote set up	+
Dimensions	163x163x36 mm
Weight	362g
Certification	Grade 2, CE
Warranty	Replacement and repair within 24 months of the date of sale. Batteries are not covered under warranty.
Connected ReX	5
Scenarios	32



## Specification – DoorProtect

Classification	Point magnetic and contact radio channel security detector
Type of detector	Wireless
Installation method	Indoors
Compatibility	Operates with Hub, Hub Plus, ReX, ocBridge Plus, uartBridge
Sensing element	Reed switch
Alarm signal delivery time	0.15 s
Activation threshold	Small magnet - 1 cm, Big magnet - 2 cm
Power supply	Battery: CR123A battery Power supply voltage: 3 V Battery life - up to 7 years
Jeweller radio technology	Communication range with central unit - up to 1,700 m in an open space Two-way communication between devices Operating frequencies - 868.0-868.6 MHz Self-adjusting RF output power - up to 20 mW Block encryption based on AES algorithm Device polling period - 12-300 s
Temperature sensor	Available
Operating temperature range	+5°C to +40°C
Permissible humidity	Up to 75%
Anti-sabotage	Protection against fraud Jamming detection Tamper-resistant
Remote setting and testing	+
Dimensions	Diameter: 20 mm Height: 90 mm
Weight	29 g
Certification	Grade 2, CE
Warranty	Replacement and repair within 24 months of the date of sale. Batteries are not covered under warranty.
Complete set	DoorProtect motion detector SmartBracket mounting panel Two Magnets External contact CR123A battery (pre-installed) Installation set User's guide

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## Specification – MotionCam



Classification	Electro-optical combined radio channel security detector with a photo camera
Detector type	Wireless
Installation	Indoors
Motion detection distance	Up to 12 m
Pet immunity	Weight: up to 20 kg Height: up to 50 cm
Compatibility	Only with Hub 2
Sensing element	PIR sensor
Detection angles	Horizontal — 88.5° Vertical — 80°
Camera view angle	90°
Alarm signal delivery time	0.15 sec
Photo verification	Time to deliver a photograph with default settings: up to 9 sec Photo quality: up to 640 × 480 Pictures in a series: 1-5 pcs
IR backlight for night mode pictures	Available
Sensitivity	Adjustable, 3 levels
Recommended installation height	2.4 m
Power supply	Battery: CR123A x 2 Power supply voltage: 3 V Battery life: up to 4 years (up to 2.5 years if “Delay when entering” setting is activated)
Jeweller radio technology	Communication range with central unit - up to 1,700 m in an open space Two-way communication between devices Operating frequencies - 868.0-868.6 MHz Self-adjusting RF output power - up to 20 mW Block encryption based on AES algorithm Device polling period - 12-300 s Frequency hopping
Wings radio technology	Transmission of visual alarm verifications
Temperature sensor	Available
Operating temperature range	+0°C to +50°C
Operating humidity	Up to 75%
Anti-sabotage	Protection against fraud Jamming detection Tamper resistant



Motion alarms are transmitted to CMSs that support SIA and Contact ID protocols  
Visual alarm verifications are transmitted to the Manitou CMS and Ajax PRO Desktop app

Remote configuration and testing	+
Protection class	IP50
Dimensions	135 × 70 × 60 mm
Weight	167 g
Warranty	Replacement and repair within 24 months of the date of sale. Batteries are not covered under warranty.
Complete set	MotionProtect Curtain motion detector SmartBracket mounting panel 2x CR123A batteries (pre-installed) Installation kit Quick Start Guide



Classification	Radio channel security sounder
Type of siren	Wireless
Installation method	Indoors
Compatibility	Operates only with Hub, Hub Plus, Hub 2 and ReX
Type of notification	Sound
Connector for external LED	Available
Sound volume level	Adjustable, 81-105 dB at a distance of 1 m
Alarm length	Adjustable, 3-180 s
Indication of armed/disarmed status	Yes
Alarm signal delivery time	0,15 s
Power supply	Battery: CR123A battery Power supply voltage: 3 V Battery life - up to 5 years
Jeweller radio technology	Communication range with central unit - 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 20 mW Block encryption based on AES algorithm Device polling period - 12-300 s
Temperature sensor	Available
Operating temperature range	From -10°C to +40°C
Permissible humidity	Up to 75%
Protection class of body	IP50
Anti-sabotage	Protection against fraud Jamming detection Tamper-resistant
Remote setting and testing	+
Dimensions	75x76x27 mm
Weight	97 g
Certification	Grade 2, CE
Warranty	Replacement and repair within 24 months of the date of sale. Batteries are not covered under warranty.
Complete set	HomeSiren SmartBracket mounting panel Connector for LED indicator 2 x CR123A batteries (pre-installed) Installation set User's guide

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## Specification – StreetSiren



Classification	Light and sound radio channel security sounder
Type of siren	Wireless
Installation method	Indoors/outdoors
Compatibility	Operates only with Hub, Hub Plus, Hub 2 and ReX
Type of notification	Sound/light
Sound volume level	Adjustable, 85-113 dB at a distance of 1 m
Alarm length	Adjustable — 3-180 s
Indication of armed/disarmed status	Yes
Alarm signal delivery time	0.15 s
Power supply	Battery: 4 x CR123A batteries Power supply voltage: 3 V Battery life - up to 5 years Mains supply: DC 12 V±20%
Jeweller radio technology	Communication range with central unit - up to 1,500 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 Device polling period - 12-300 s
Temperature sensor	Available
Operating temperature range	From -25°C to +50°C
Permissible humidity	Up to 95%
Protection class of body	IP54
Anti-sabotage	Protection against fraud Jamming detection Tamper-resistant
Remote setting and testing	+
Dimensions	200x200x51 mm
Weight	528 g
Certification	Grade 2, CE
Warranty	Replacement and repair within 24 months of the date of sale. Batteries are not covered under warranty.
Complete set	StreeSiren SmartBracket mounting panel 4 x CR123A batteries (pre-installed) Installation set User's guide

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## Specification – SpaceControl



Classification	Four button key fob with feedback
Compatibility	Operates with Hub, Hub Plus, ReX, ocBridge Plus, uartBridge
Number of buttons	4
Deactivation of the panic button	Available
Power supply	Battery: CR2032 battery Power supply voltage: 3 V Battery life - up to 3 years
Jeweller radio technology	Communication range with central unit - up to 1,300 m in an open space Two-way communication between devices Operating frequencies - 868.0-868.6 MHz Self-adjusting RF output power - up to 20 mW Block encryption based on AES algorithm Device polling period - 12-300 s
Operating temperature range	From -25°C to +50°C
Permissible humidity	Up to 95%
Dimensions	65x37x10 mm
Weight	13 g
Certification	Grade 2, CE
Warranty	Replacement and repair within 24 months of the date of sale. Batteries are not covered under warranty.
Complete set	SpaceControl keyfob CR2032 battery (pre-installed) User's guide