AJAX

HUB2 KIT 3+ DD - BLACK

Kit contains -

1 x HUB2+	**2 x MOTIONCAM**	**1 x KEYPAD**
See page 2 for spec	See page 3 for spec	See page 4 for spec
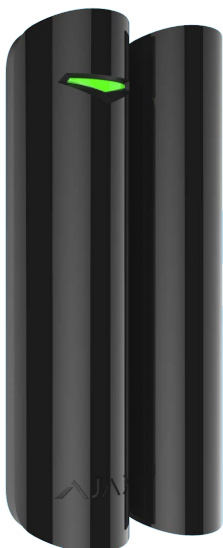
1 x DOORPROTECT	**1 x STREETSIREN DD**	**1 x HOMESIREN**
See page 5 for spec	See page 6 for spec	See page 7 for spec

Hub 2+ Specification

Installation	Indoors
Connected Devices	200
Video surveillance	support 100 cameras and DVRs
Users	200
Rooms	50
Security groups	25
Connect ReX	5
Scenarios	64
MotionCam detectors support	+
Apps	iOS 11.0 and later, Android 4.4 and later
Communication channels	2 SIM cards 2G (GSM900/DCS1800 (B3/B8)) 3G (WCDMA 850/900/2100 (B1/B5/B8)) LTE (FDD B1/B3/B5/B7/B8/B20) Wi-Fi (802.11 b/g/n) Ethernet
Alarm signals	Delivery time: 0.15 sec Notification types: SMS, call, push-notification
Switching between 2G, 3G, LTE	Instant
Switching between the SIM-cards	4 minutes
CMS connectivity	CMS connectivity: Contact ID, SIA (DC-09) CMS software supporting visual alarms verification
Operating system	OS Malevich
Power supply	110-240 V with pre-installed battery 6 V with alternative 6V PSU power supply Energy consumption from the 110-240 V grid — 10 W
Built-in back-up battery	Li-Ion 3 A·h Ensures up to 15 hours of operation when using SIM card only
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
Wings radio technology	Transmission of visual confirmations Delivery verification of packages
Operating temp range	From -10°C to +40°C
Anti-sabotage	Forgery prevention Notifications about jamming Tamper to detect back lid opening and unmounting from SmartBracket
Remote set up and testing	+
Dimensions	163 × 163 × 36 mm
Weight	351 g

MotionCam Specification

Classification	Electro-optical combined radio channel security detector with a photo camera
Detector type	Wireless
Installation	Indoors
Motion detection distance	Up to 12m
Pet immunity	Weight: up to 20kg, Height: up to 50cm
Compatibility	Only with Hub 2
Sensing element	PIR sensor
Detection angles	Horizontal - 88.5°
	Vertical - 80°
Camera view angle	90°
Alarm signal delivery time	0.15sec
Photo verification	Time to deliver a photograph with default settings: up to 9sec
	Photo quality: up to 640 x 480
	Pictures in a series: 1-5 pcs
IR backlight for night mode pictures	Available
Sensitivity	Adjustable, 3 levels
Recommended installation height	2.4m
Power supply	Batteries: CR123A (x2)
	Power supply voltage: 3V
	Battery life: up to 4 years (up to 2.5 years if "Delay when entering" setting is activated
Jeweller radio technology	Communication range with detectors: up to 1,700m in the line of sight
	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
	Detector polling period: 12-300s
	Frequency hopping
Wings radio technology	Transmission of visual alarm verifications
Temperature sensor	Available
Operating temp range	From 0°C to +40°C
Operating humidity	Up to 75%
Anti sabotage	Fraud protection
	Jamming notification
	Tamper-resistant
CMS compatibility	Motion alarms are transmitted to CMS that support SIA and contact ID protocols
	Visual alarm verification are transmitted to the Manitou CMS and Ajax PRO desktop app
Remote config and testing	+
Protection class	Ip50
Dimensions	135 x 70 x60mm
Weight	167g
Complete set	MotionCam, SmartBracket mounting panel, installation kit, guide

Keypad Specification

Classification	Radio channel touch keypad
Type of siren	Wireless, touch
Installation method	Indoors
Compatibility	Operates only with Hub, Hub Plus and ReX
Number of buttons	15
Duress code	Yes
Protection against password attack	Yes
Protection against passcode guessing	Yes
Arming/disarming indication	Yes
Power supply	Battery: AAA batteries Power supply voltage: 3 V Battery life — up to 2 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 temp range	From -10°C to +40°C
Permissible humidity	Up to 75%
Anti-sabotage	Protection against fraud Jamming detection Tamper-resistant
Remote setting and testing	+
Dimensions	150x103x14mm
Weight	197 g
Certification	Grade 2, CE
Complete set	KeyPad touch keyboard SmartBracket mounting panel 4 AAA batteries (pre-installed) Installation set User's guide

Door Protect Specification

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 1,200 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 temp range	From +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	29g
Certification	Grade 2, CE
Complete set	DoorProtect opening detector
	SmartBracket mounting panel
	Two magnets
	CR123A battery (pre-installed)
	External contact
	Installation set
	User's guide

Street Siren DD Specification

Classification	Warning device with LED indicators (outdoor siren)
Type of siren	Wireless
Installation method	Outdoors/Indoors
Compatibility	Operates only with Hub, Hub Plus, Hub 2 and ReX
Type of notification	Sound/light
Sound volume level	Adjustable, 85-113dB at a distance of 1m
Alarm duration	Adjustable, 3-180s
Indication of armed / disarmed status	Available
Power Supply	Battery: Four CR123A batteries, 3V
	Mains supply: DC 12 V±20%
Battery life	Up to 5 years
Jeweller radio tech	Communication range with central unit - up to 1500m in an open space
	Two-way communication between devices
	Operating frequencies - 868.0-868.6MHz
	Self-adjusting RF output power - up to 25 mW
	Block encryption based on AES algorithm
	Detector polling period - 12-300s
Temperature sensor	Available
Operating temp range	From -25°C to +60°C
Permissible humidity	Up to 95%
Ingress protection rating	Ip54
Anti-sabotage	Forgery prevention
	Jamming detection
	Tamper-resistant
Remote config and testing	Available
Dimensions	200 x 200 x 51mm
Weight	528g
Complete set	StreetSiren DoubleDeck
	SmartBracket mounting panel
	Installation set
	Users guide

Home Siren Specification

Classification	Radio channel security sounder
Type of siren	Wireless
Installation method	Indoors
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: Two CR2 batteries Battery: Two CR123A batteries 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 temp 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	75x76x27mm
Weight	97 g
Certification	Grade 2, CE
Complete set	HomeSiren siren SmartBracket mounting panel Connector for LED indicator Two CR123A batteries (pre-installed) Installation set User's guide