Hub 2

Security system control panel with support of photo verification

Capacity	**Wireless Ajax devices** up to 100 Specifically, up to 10 sirens and 5 range extenders. **IP cameras or DVRs** up to 25 - Seamless integration with Dahua, Hikvision, Safire, EZVIZ, Uniview IP cameras, and DVRs. - RTSP support. **Users** up to 50 - Any number of admin users within the hub limit. - PRO accounts for installers. - PRO accounts for installation and monitoring companies. - Access management for users. **Automation scenarios** up to 32 - Alarm responses. - Scheduled actions. - Security mode changing reactions. - Temperature changing reactions. - Humidity changing reactions. - Reactions to changes in CO2 concentration. - Reactions to pressing Button. **Security groups** up to 9 **Rooms** up to 50
Compatibility	**Range extenders** ReX Jeweller ReX 2 Jeweller **Opening detectors** DoorProtect Jeweller DoorProtect Plus Jeweller **Water leak prevention devices** LeaksProtect Jeweller

	WaterStop Jeweller
	Glass break detectors
	CombiProtect Jeweller
	GlassProtect Jeweller
	Motion detectors
	CombiProtect Jeweller
	DualCurtain Outdoor Jeweller
	MotionCam Jeweller
	MotionCam (PhOD) Jeweller
	MotionCam Outdoor Jeweller
	MotionCam Outdoor (PhOD) Jeweller
	MotionProtect Jeweller
	MotionProtect Curtain Jeweller
	MotionProtect Outdoor Jeweller
	MotionProtect Plus Jeweller
	Fire detectors
	FireProtect Jeweller
	FireProtect Plus Jeweller
	FireProtect 2 RB (CO) Jeweller
	FireProtect 2 RB (Heat) Jeweller
	FireProtect 2 RB (Heat/CO) Jeweller
	FireProtect 2 RB (Heat/Smoke) Jeweller
	FireProtect 2 SB (Heat/Smoke) Jeweller
	FireProtect 2 RB (Heat/Smoke/CO) Jeweller
	FireProtect 2 SB (Heat/Smoke/CO) Jeweller
	Controls and panic buttons
	Button Jeweller
	DoubleButton Jeweller
	KeyPad Jeweller
	KeyPad Plus Jeweller
	SpaceControl Jeweller
	Sirens
	HomeSiren Jeweller
	StreetSiren Jeweller
	StreetSiren DoubleDeck Jeweller
	Smart air quality monitor
	LifeQuality Jeweller
	Integration modules
	MultiTransmitter Jeweller
	Transmitter Jeweller
	vhfBridge Jeweller
	Relays for automation

	Relay Jeweller WallSwitch Jeweller **Smart switches** LightSwitch (1-gang) Jeweller LightSwitch (2-gang) Jeweller LightSwitch (2-way) Jeweller **Smart plugs** Socket (type F) Jeweller Socket Plus (type G) Jeweller Socket (type G) Jeweller **Power supply units** 6V PSU for Hub 2/Hub 2 Plus/ReX 2 12V PSU for Hub 2/ReX 2
Wireless communication	**Jeweller communication technology** Proprietary wireless communication technology to transmit alarms and events. **Key features:** ● Two-way communication. ● Advanced anti-sabotage. ● Block encryption featuring a dynamic key. ● Instant notifications. ● Remote configuration in the Ajax apps. **Frequency bands** 866.0–866.5 MHz 868.0–868.6 MHz 868.7–869.2 MHz 905.0–926.5 MHz 915.85–926.5 MHz 921.0–922.0 MHz Depends on the sales region. **Maximum effective radiated power (ERP)** up to 20 mW Featured automatic power control to reduce power consumption and noise interference. **Radio signal modulation** GFSK **Radio signal range** up to 2,000 m/6,500 ft Between the hub and connected devices (in an open space). Maximum range depends on the connected device.

	Polling interval from 12 to 300 s Adjusted by PRO or user with admin rights in the Ajax apps. **Encrypted communication** All the data stored and transmitted are protected by block encryption with a dynamic key. **Frequency hopping** To prevent radio interference and radio signal interception. **Wings communication technology** Proprietary wireless communication technology to transmit photo verifications. **Key features:** ● Two-way communication. ● Block encryption featuring a dynamic key. ● Advanced anti-sabotage. ● Package re-uploading in case of transmission errors. ● Photo delivery check. **Frequency bands** 866.0–866.5 MHz 868.0–868.6 MHz 868.7–869.2 MHz 905.0–926.5 MHz 915.85–926.5 MHz 921.0–922.0 MHz Depends on the sales region. **Maximum effective radiated power (ERP)** up to 20 mW Featured automatic power control to reduce power consumption and noise interference. **Radio signal range** up to 1,700 m/5,500 ft Between the hub and connected devices (in an open space). Maximum range depends on the connected device. **Encrypted communication** All the data stored and transmitted are protected by block encryption with a dynamic key.

	Frequency hopping To prevent radio interference and radio signal interception.
Recommendations	The device operating voltage is 110–240 V~. Hub is designed for indoor installation only.
Communication channels	**Ethernet** 1 8P8C socket Up to 100 Mbps. **Cellular** 2 micro-SIM slots **Cellular frequencies** 2G GSM900/DCS1800 (B3/B8) 3G WCDMA 850/900/2100 (B1/B5/B8) 4G (LTE) FDD B1/B3/B5/B7/B8/B20 **Automatic switching between communication channels** Instant switching between Ethernet and SIM. Instant switching between 4G (LTE), 3G, and 2G networks of one SIM. Switching between SIMs takes up to 4 minutes. **Communication channels prioritization** 1. Ethernet 2. Cellular connection Communication channels work in parallel to increase the system's reliability. Most of the data is transmitted via Ethernet.
Notifications	**Supported notification types** ● Push-notifications ● SMS ● Calls **Event types** ● Alarms ● Malfunctions ● Security mode changing ● System events ● Non-security alerts

	- Automation devices' events The notification types are configured individually for each user.
Photo verification	**Photo verification types** - Photo by alarm - Photo by scenarios - Photo on demand More about photo by scenario More about photo on demand **Photo delivery time** up to 9 s by default. **Photo resolution** up to 640 × 480 pixels Depends on the detector. **Number of photos in a series:** from 1 to 5 pictures
Monitoring	**Supported protocols** - SIA (DC-09) - SurGard (Contact ID) - ADEMCO 685 - Other proprietary protocols **Event types** - System alarms and events - Panic button coordinates - Photo verification
Power supply	**Main** 110–240 V~, 50/60 Hz Up to 10 W of mains power consumption. **Backup** Built-in backup battery: Li-ion 3 A·h Up to 15 hours of offline operation when Ethernet is disconnected. **Alternative** 6 V⎓ Requires the 6V PSU for Hub 2/Hub 2 Plus/ReX 2 alternative power supply unit; sold separately.

	12 V⎓ Connected via an alternative power supply unit 12V PSU for Hub/Hub Plus/ReX which is **sold separately**.
Anti-sabotage	**Tamper alarm** The system receives notifications about attempts to detach the device from the surface or remove it from the mounting panel. **Protection against spoofing** devices' authentication Proprietary authentication algorithms make it impossible to spoof the hub or connected devices. **Frequency hopping** The users and the security company receive notifications in case of jamming or when the hub loses connection with the devices.
Enclosure	**Dimensions** 163 × 163 × 36 mm/6.42″ × 6.42″ × 1.42″ **Weight** 362 g/12.77 oz **Operating temperature range** from −10°C to +40°C/ 14°F to 104°F **Operating humidity** up to 75% **Protection class** IP20
Colours	**Black** **White**
Complete set	Hub 2 (4G) Jeweller SmartBracket mounting panel Power cable Ethernet cable Installation kit SIM card (depends on the sales region) Quick Start Guide
Warranty	**24 months** Learn more
Compliance with standards	Learn more

| User manual | Learn more |