Hub BP Jeweller

Wireless control panel with the external battery as a power source. Supports photo verification. Connectable via two SIM cards (2G/3G/LTE)

Capacity	**Ajax devices**
	up to 100
	Specifically, up to 10 sirens or keypads with a built-in siren and up to 5 range extende
	Ajax NVRs
	up to 36
	Ajax cameras
	up to 224 via Ajax NVRs and up to 492 standalone
	Third-party IP cameras
	up to 10 when using RTSP via SDK
	up to 224 when using ONVIF via Ajax NVRs
	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
	● By alarm.
	● By schedule.
	● By arming/disarming.
	● By temperature, humidity, CO_2 concentration.
	● By pressing Button.
	● By touching LightSwitch.
	Security groups
	up to 9
	Rooms
	up to 50
	Event log
	up to 1,000 events
	Events are saved on the non-volatile onboard flash memory.

Wireless communication	**Jeweller communication technology**
	Proprietary wireless communication technology to transmit commands, alarms, and
	
	Key features:
	    ● Two-way communication.
	    ● Advanced anti-sabotage.
	    ● Block encryption featuring a dynamic key.
	    ● Instant notifications.
	    ● Remote control and configuration in 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 25 mW
	Automatic power control to reduce power consumption and radio interference.
	
	Radio signal modulation
	GFSK
	
	Radio communication range
	up to 2,000 m
	up to 6,500 ft
	Between a hub and connected devices (in an open space). The maximum range depe
	the connected device.
	
	Polling interval
	from 12 s to 300 s
	Adjusted by a PRO or user with admin rights in Ajax apps.
	
	Encrypted communication
	All stored and transmitted data are protected by block encryption featuring a dynami
	
	Frequency hopping
	To prevent radio interference and jamming.
	
	Wings communication technology
	Proprietary wireless communication technology to transmit photos.
	
	Key features:
	    ● Two-way communication.
	    ● Advanced anti-sabotage.

	• Block encryption featuring a dynamic key. • Data packages reload 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 25 mW Automatic power control to reduce power consumption and radio interference. **Radio communication range** up to 2,000 m up to 6,500 ft Between a hub and connected devices (in an open space). The maximum range depe the connected device. **Encrypted communication** All stored and transmitted data are protected by block encryption featuring a dynami **Frequency hopping** To prevent radio interference and jamming.

Recommendations	Hub BP Jeweller is designed for indoor use only.
Communication channels	**Cellular** 2 × micro SIM slot **Cellular bands** 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** between SIM cards — up to 4 minutes **Communication channels prioritization** 1. Micro SIM slot 1 2. Micro SIM slot 2 **Auto APN** The **APN auto select** feature allows setting access point automatically based on the installed **External antenna connectors** Jeweller Wings 4G (LTE) The system will notify of the damaged antenna. **Ajax ExternalAntenna** is sold separa **Alarm transmission system categories** SP5 **Control panel operation method** pass-through **Signaling security** S2 Substitution security. **Information security** I2

Notifications	**Notification types** ● Push notifications ● SMS ● Calls **Event types** ● Alarms ● Malfunctions ● Security state change ● System events ● Non-security alerts ● Automation devices Notification types are configured individually for each user. Notifications can be cust for A–D schemes according to EN 50131 requirements.
Photo verification	**Photo verification types** ● Photo by alarm ● Photo by scenario ● Photo on demand ● Photo by schedule The **Photo by Schedule** feature is available for hubs with OS Malevich 2.19 firmware later. **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 (SIA-DCS) ● SurGard (Contact ID) ● ADEMCO 685 ● Other proprietary protocols **Event types** ● System alarms and events ● Panic button coordinates ● Photo verification

Power supply	**External** 4.2–16 V⎕, up to 2 A Zinc-air battery or external power source. **Internal** 4.2–16 V⎕, up to 2 A Rechargeable lead-acid and LiFePO4 batteries (not included). Non-rechargeable LTC (not included). **Device operating DC voltage range** 3.5–16 V⎕
Autonomous operation	**On external battery in full function mode** up to 18 months On a 12 V⎕, 600 Ah, zinc-air non-rechargeable external battery (not included). **On external battery in Battery saving mode** more than 5 years On a 12 V⎕, 600 Ah, zinc-air non-rechargeable external battery (not included). **On internal battery in a Battery saving mode** up to 17 months On a 7.2 V⎕, 95 Ah, LTC non-rechargeable **Internal battery NB (7.2V/95Ah)** (not inc up to 4 months On a 6.4 V⎕, 27 Ah, LiFePO4 rechargeable **Internal battery RB (6.4V/27Ah)** (not inc up to 2 months On a 12 V⎕, 7 Ah, lead-acid rechargeable internal battery (not included).
Sabotage protection	**Tamper alarm** Notifications on attempts to detach the device from the surface or remove it from the mounting panel. **Protection against spoofing** device authentication **Frequency hopping** The hub sends notifications to all users and the security company of jamming or losi connection with the devices. **Jamming alert** Hub BP Jeweller analyzes the channel's noise level and the quality of communication added devices and sends an alert in 30 seconds.

Enclosure	**Dimensions** 196 × 238 × 100 mm 7.72" × 9.37" × 3.94" **Weight** 1,010 g 35.63 oz **Operating temperature range** from -10 °C to +40 °C from 14 °F to 104 °F **Operating humidity** up to 75% **Protection class** IP40
Colors	**Black** **White**
Complete set	Hub BP Jeweller Casing Installation kit Quick start guide
Warranty	24 months