



## Ajax Superior Hub G3 Jeweller

Wireless control panel with support for photo verification. Connectable via Ethernet, Wi-Fi, and two SIM cards (2G/LTE).

This is a device of the Superior product line. Only accredited Ajax Systems partners can sell, install, and maintain Superior products.



3  
GRADE  
EN 50131

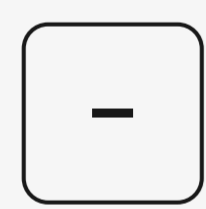
PD 6662  
2017

INCERT

### High security for high stakes. Now wireless.

Ajax Superior Hub G3 Jeweller is the core of the world's first wireless Grade 3 security system. The control panel connects to Ajax devices using proprietary Superior Jeweller and TurboWings protocols. They provide stable, encrypted communication over up to 3,500 m (11,450 ft). The hub supports Ethernet, Wi-Fi, and 2G/4G(LTE) SIM cards, switching in case of interruptions to always stay online. Hot-swappable backup batteries<sup>1</sup> keep the system running for up to 16 or 60 hours after a power outage. All this creates a strong foundation for the unified Ajax ecosystem – combining intrusion protection, fire and life safety, video surveillance, and comfort and automation.

### Built to stand out



One system for every need: fire safety, intrusion protection, video surveillance, and comfort and automation



Mobile and desktop Ajax apps for security professionals and end users for all-in-one system control

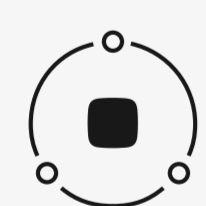


Hassle-free installation and setup with all communicators and a power supply unit built in – no enclosure disassembly or additional hardware required

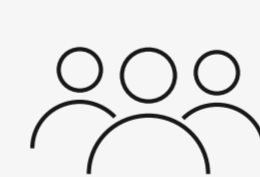


Industry-leading sabotage protection, tested by independent laboratories for compliance with international and local security standards

### Grade 3 protection for small and medium-sized sites



Up to 250 devices



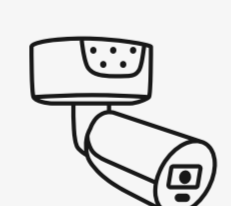
Up to 200 users



Up to 5 range extenders



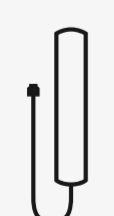
Up to 25 security groups



Up to 36 Ajax NVRs  
and 492 Ajax cameras



Up to 64 automation scenarios



The hub can use ExternalAntenna<sup>2</sup> to improve signal strength in Superior Jeweller, Jeweller, TurboWings, Wings, and cellular channels.

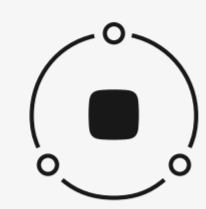
## Reliable communication out of the box

### Hub – devices

Superior Jeweller and Jeweller protocols for secure wireless communication with connected devices.

TurboWings and Wings protocols for photo transmission and over-the-air updates.

VoRF protocol for full-duplex audio communication between site and monitoring station.



### Hub – Ajax Cloud and apps

Ethernet, Wi-Fi, and two 2G/4G (LTE) SIM cards to access the internet.

Instant automatic switch between channels in case of interruptions.

Support for up to four providers simultaneously.

Notification of communication loss via any available channel.



### Hub – monitoring companies

Over ten supported protocols, including SIA and SurGard.

Signaling levels up to DP4 supported.

Three communication options: direct connection, via Ajax Cloud, or via both channels.

Adjustable polling intervals for connection to monitoring companies starting from 10 seconds.

Hassle-free connection to third-party monitoring software within minutes.



## Superior Jeweller and TurboWings communication technologies

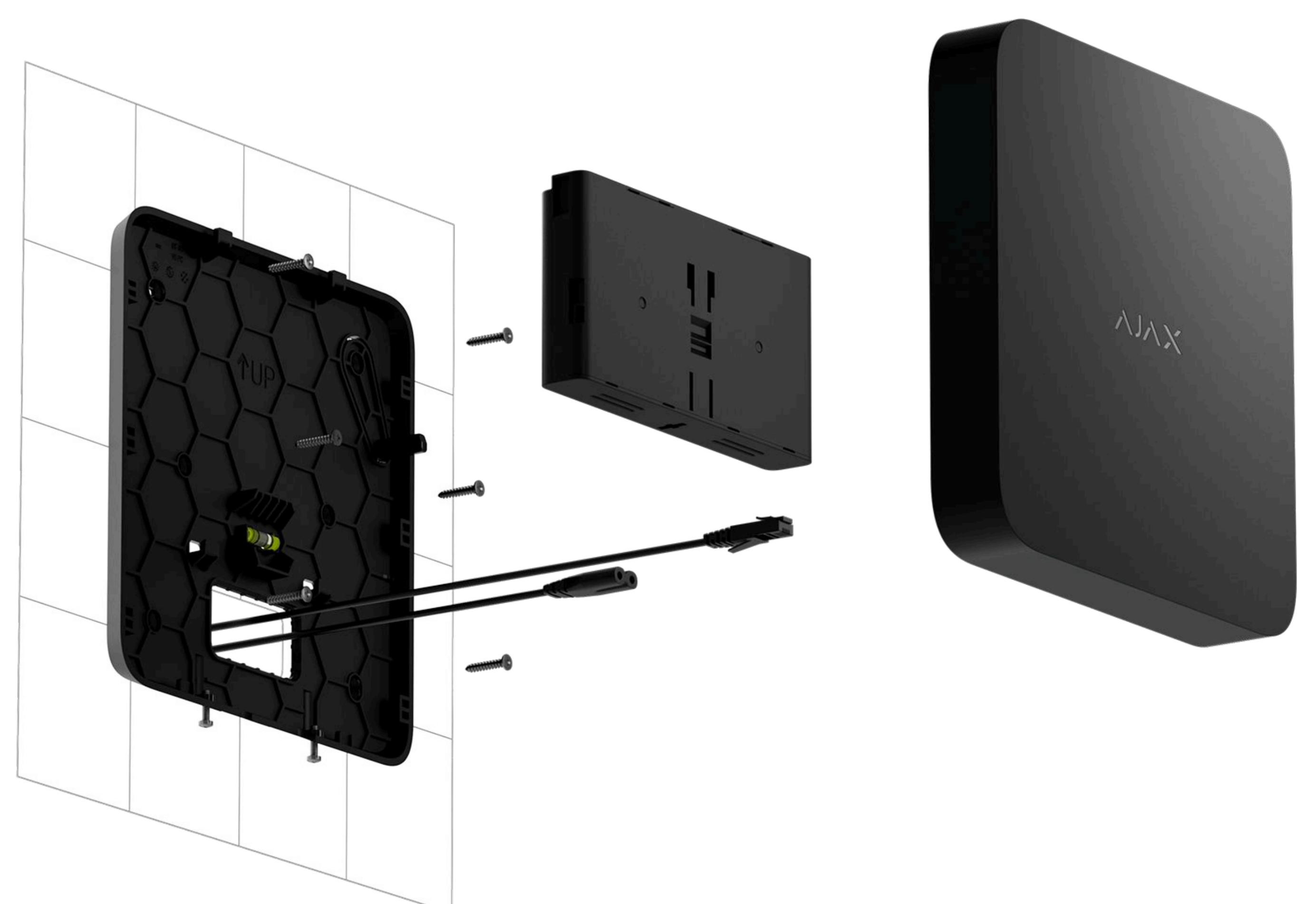
- Up to 3,500 m (11,450 ft) of radio communication with connected devices in open space
- Enhanced encryption throughout data transmission between the hub and connected devices
- Regular polling to display the current state of the hub and connected devices
- Fast photo transmission from Ajax motion detectors

## Sabotage protection

- Tamper button to detect dismantling or detachment
- Authentication of the hub and connected devices to prevent spoofing
- Detection of communication loss<sup>3</sup> between the hub and Ajax devices, Ajax Cloud, and monitoring station
- Frequency hopping to prevent radio interference and jamming
- Jamming detection and notification
- Backup power<sup>1</sup> for uninterrupted system operation for 16 or 60 h after an outage

## Hassle-free installation and setup

- Adding to a space via QR code
- Installation without enclosure disassembly with all communicators and a power supply unit built in
- Setup in minutes via an Ajax app – no programming required
- Quick connection to third-party monitoring software and up to DP4 signaling configuration
- Battery<sup>1</sup> hot swapping
- Instant malfunction and maintenance notifications
- Remote control and configuration of parameters and permissions in mobile and desktop apps



|  |   |  |   |
|--|---|--|---|
| <p><b>Compliance with standards</b></p> <p>EN 50131 (Grade 3)<br/>PD 6662:2017<br/>INCERT</p>  | <p><b>Communication with Ajax devices</b></p> <p>Superior Jeweller<sup>4</sup> communication technology</p> <p>TurboWings<sup>5</sup> communication technology</p>  | <p><b>Communication channels</b></p> <p><b>Ethernet</b><br/>8P8C socket<br/>Up to 100 Mbps</p> <p><b>Cellular</b><br/>2 slots for micro SIM</p> <ul style="list-style-type: none"> <li>• 2G GSM900/DCS1800 (B3/B8)</li> <li>• 4G (LTE) FDD B1/B3/B5/B7/B8/B20</li> </ul> <p><b>Wi-Fi</b><br/>802.11 b/g/n module<br/>Up to 600 Mbps</p> <p><b>Automatic switching between communication channels</b></p> <p><b>Communication channel prioritization</b></p> <ol style="list-style-type: none"> <li>1. Ethernet</li> <li>2. Wi-Fi</li> <li>3. Cellular connection</li> </ol> <p>Communication channels work in parallel for increased system reliability, with Ethernet handling most data.</p> | <p><b>Capacity</b></p> <p><b>Ajax devices</b><br/>up to 250</p> <p><b>Ajax NVRs</b><br/>up to 36</p> <p><b>Ajax cameras</b><br/>up to 224 via Ajax NVRs and up to 492 standalone</p> <p><b>Third-party IP cameras</b><br/>up to 100 when using RTSP via SDK<br/>up to 224 when using ONVIF via Ajax NVRs</p> <p><b>Users</b><br/>up to 200</p> <p><b>Security groups</b><br/>up to 25</p> <p><b>Automation scenarios</b><br/>up to 64</p> |
| <p><b>Compatibility with Ajax devices</b></p> <p>For detailed information, scan the QR code or follow the link:</p>  <p><a href="https://ajax.systems/tools/devices-compatibility/">ajax.systems/tools/devices-compatibility/</a></p> | <p><b>Communication range</b><br/>up to 3,500 m<br/>up to 11,450 ft<br/>In open space</p> <p><b>Frequency bands</b><br/>865.0–868.0 MHz<br/>868.0–868.6 MHz<br/>868.7–869.2 MHz<br/>869.4–869.65 MHz</p> <p>The device supports all listed bands</p> <p><b>Polling interval</b><br/>12–300 s<br/>Adjusted by a PRO or user with admin rights via Ajax apps</p> <p><b>Photo alarm verification</b><br/>Enhanced photo delivery speed of up to 4.5 seconds with the TurboWings protocol</p> |  |   |
| <p><b>Complete set</b></p> <p>Ajax Superior Hub G3 Jeweller<br/>SmartBracket mounting panel<br/>Power cable<br/>Ethernet cable<br/>Installation kit<br/>SIM card (depends on the sales region)<br/>Quick start guide</p>   |   |  |   |
| <p><b>User authorization</b></p> <p><b>Contactless access</b><br/>Pass cards and Tag key fobs (up to 200 devices)</p> <p><b>Access codes</b><br/>up to 200 personal codes for registered users<br/>up to 200 codes for unregistered users</p> <p><b>Duress codes</b><br/>up to 200 personal duress codes</p>           | <p><b>Power supply</b></p> <p><b>Main power supply</b><br/>110–240 V, 50/60 Hz</p> <p><b>Backup power supply</b><br/>Provided by Ajax Superior Internal Battery (16h) or Ajax Superior Internal Battery (60h).<br/>The batteries are sold separately.</p> <p><b>Autonomous operation</b><br/>from 16 to 60 h<br/>Depends on the battery model.<br/>The batteries are sold separately.</p>   | <p><b>Installation</b></p> <p><b>Operating temperature</b><br/>–10 °C to +40 °C<br/>14 °F to 104 °F</p> <p><b>Operating humidity</b><br/>up to 75%</p> <p><b>Protection class</b><br/>IP30, IK06</p>   | <p><b>Enclosure</b></p> <p><b>Color</b><br/>white, black</p> <p><b>Dimensions</b><br/>216 × 216 × 45 mm<br/>8.50" × 8.50" × 1.77"</p> <p><b>Weight</b><br/>1,200 g<br/>2.65 lb</p>  |

<sup>1</sup> Backup Ajax batteries are sold separately. Only compatible batteries can be used: Ajax Superior Internal Battery (16h) or Ajax Superior Internal Battery (60h).

<sup>2</sup> ExternalAntenna is sold separately.

<sup>3</sup> The system detects communication loss between the hub and Ajax devices within 36 seconds. If the system is set to operate at a 12-second polling interval and to report a connection loss after three undelivered data packets.

<sup>4</sup> The Superior Jeweller protocol is used only when all connected devices support it. Otherwise, the system operates via Jeweller.

<sup>5</sup> The TurboWings protocol is used for devices that support it. Otherwise, the system communicates with those devices via Wings.



For detailed information, scan the QR code or follow the link:  
[ajax.systems/support/devices/superior-hub-g3-jeweller](https://ajax.systems/support/devices/superior-hub-g3-jeweller)

✉ support@ajax.systems  
📧 @AjaxSystemsSupport\_Bot  
🌐 ajax.systems