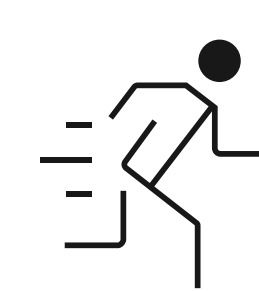
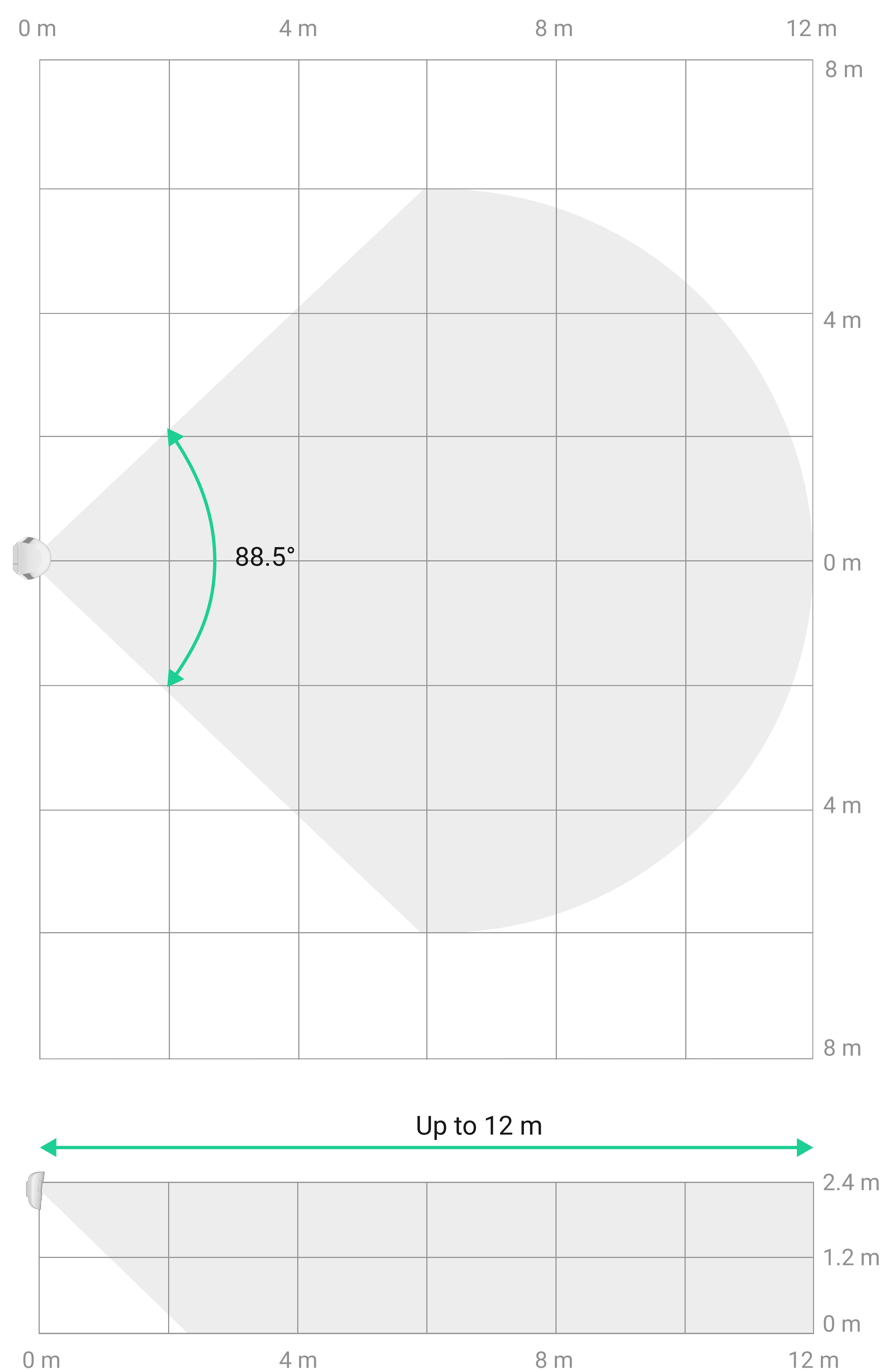


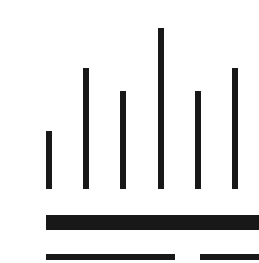
# MotionProtect Plus U Jeweller

Wireless PIR motion detector  
with an additional K-band microwave sensor



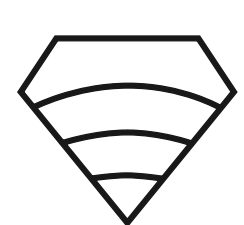
## Enhanced motion detection

- Two built-in sensors: PIR sensor and K-band microwave sensor
- Up to 12 m of motion detection range
- 88.5° horizontal detection angle
- Temperature compensation for motion detection at any operating temperature



## Eliminating false alarms

- Dual motion detection technology: the device is triggered only when both sensors detect motion
- SmartDetect algorithm to prevent false alarms
- Pet immunity<sup>1</sup> to ignore pets up to 50 cm in height and up to 20 kg in weight
- Three sensitivity levels that can be selected in an Ajax app



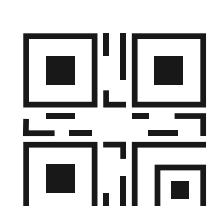
## Jeweller communication technology

- Up to 1,200 m of communication range in an open space
- Data encryption throughout the transmission
- Regular polling to display the current device's states



## Sabotage protection

- Tamper alarm to notify of device dismantling
- Device authentication to prevent spoofing
- Frequency hopping to prevent jamming
- Holding screw to secure the device on SmartBracket



## Quick installation and setup

- Pairing with a hub by scanning the QR code
- Remote control and configuration in Ajax apps
- Up to 5 years of operation with pre-installed batteries
- No need to disassemble the enclosure for installation and maintenance

|                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Compliance with standards</b><br><br>EN 50131-2-2 (Grade 2)<br>PD 6662:2017                        | <b>Compatibility with hubs and range extenders</b><br><br>For detailed information, scan the QR code or follow the link:<br><br><br><br><a href="https://ajax.systems/tools/devices-compatibility/?models=MP.SP.J-000-EU">ajax.systems/tools/devices-compatibility/?models=MP.SP.J-000-EU</a> | <b>Communication with a hub or range extender</b><br><br>Jeweller communication technology<br><br>Communication range<br>up to 1,200 m<br>In an open space<br><br>Frequency bands<br>866.0–866.5 MHz<br>868.0–868.6 MHz<br>868.7–869.2 MHz<br>905.0–926.5 MHz<br>915.85–926.5 MHz<br>921.0–922.0 MHz<br>Depends on the sales region<br><br>Polling interval<br>12–300 s<br>Adjusted by a PRO or user with admin rights in an Ajax app<br><br>Protection against spoofing<br>Device authentication<br><br>Maximum effective radiated power (ERP)<br>≤ 20 mW | <b>Detection</b><br><br>Sensitive elements<br>1 × PIR sensor<br>1 × K-band microwave sensor<br><br>Motion detection range<br>up to 12 m<br>When the detector is installed at a height of 2.4 m<br><br>Horizontal detection angle<br>88.5°<br><br>Motion detection speed<br>from 0.3 to 2.0 m/s<br>The direction of the detector lens should be perpendicular to an alleged intrusion path into the facility.<br><br>Temperature compensation<br><br>Sensitivity<br>3 levels<br>Adjusted by a PRO or user with admin rights in an Ajax app<br><br>Pet immunity <sup>1</sup><br>weight: up to 20 kg<br>height: up to 50 cm |
| <b>Power supply</b><br><br>Battery<br>1 × CR123A (pre-installed)<br><br>Battery life<br>up to 5 years | <b>Installation</b><br><br>Operating temperature range<br>from –10 °C to +40 °C<br><br>Operating humidity<br>up to 75%                                                                                                                                                                                                                                                         | <b>Enclosure</b><br><br>Color<br>white, black<br><br>Dimensions<br>110 × 65 × 50 mm<br><br>Weight<br>105 g<br><br>Protection class<br>IP50                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Complete set</b><br><br>MotionProtect Plus U Jeweller<br>1 × CR123A battery (pre-installed)<br>SmartBracket with a holding screw<br>Installation kit<br>Quick start guide                                                                                                                                                                                                                                                                                                                                                                                                                                             |

<sup>1</sup> If the detector is properly installed and configured.



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

-  support@ajax.systems
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