

# Superior MotionCam AM (PhOD) Jeweller

Wireless PIR motion detector with an anti-masking system and extended photo verification possibilities. Supports HD resolution.



2  
GRADE  
EN 50131

PD 6662  
2017

Superior MotionCam AM (PhOD) Jeweller does not support the pet immunity feature.



## Photo verification

- Support for HD photos with up to 960 × 720 pixels resolution<sup>3</sup>
- From 1 up to 5 photos in a series<sup>4</sup>
- First photo delivery<sup>5</sup> in 4.5 s
- Photo on demand, by alarm, by masking, by tamper alarm, by scenario, by arming/disarming and by schedule
- IR illumination for low-light conditions
- HDR for equalizing lighting to enhance image quality



## Jeweller and TurboWings communication technologies

- Up to 1,700 m (5,600 ft) of radio communication<sup>6</sup>
- Data is encrypted throughout the transmission process
- Regular polling to display current device states
- Frequency hopping to prevent radio interference and jamming



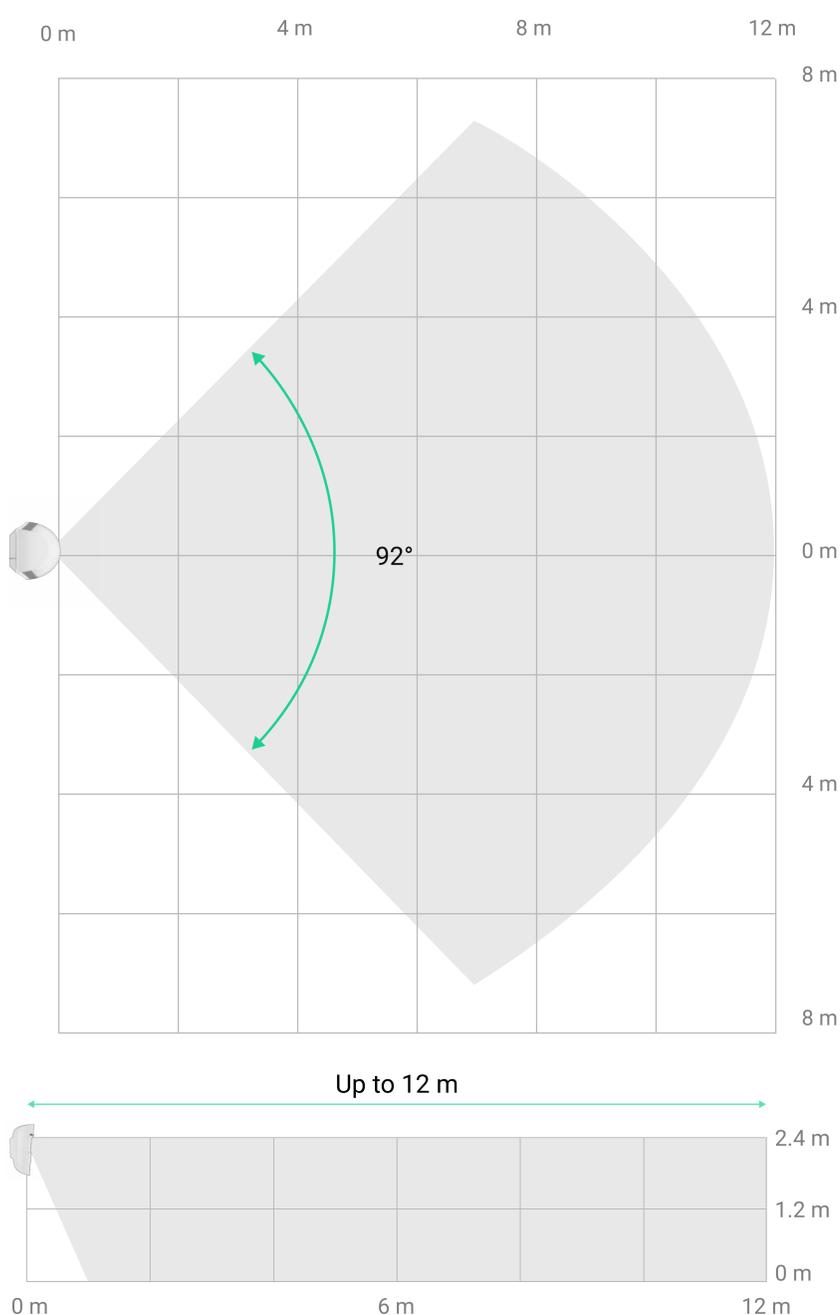
## Flawless autonomy

- Up to 4 years of operation with Photo on demand disabled and up to 3 years when the feature is enabled
- Low battery notifications
- Enhanced pre-installed batteries



## Sabotage resistance

- Masking detection: obstacle in front of the lens; paint over the lens; opaque material covering the front part of the detector
- Three sensitivity levels of masking detection to adapt to any conditions at the site
- Tamper alarm and holding screw
- Device authentication to prevent spoofing



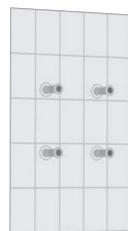
## Motion detection

- Motion detection distance of up to 12 m (39 ft)
- Horizontal motion detection angle: 92°
- Temperature compensation for motion detection at any operating temperature
- Reduced blind zone<sup>1</sup> under the detector of up to 80 cm (2.6 ft), consistent across all sensitivity levels
- Crawling person detection<sup>2</sup>



# Quick installation and configuration

- Pairing with a hub via the QR code
- Remote control and configuration in mobile and desktop apps
- Installation and replacement without opening the enclosure



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

<p><b>Compliance with standards</b></p> <p>EN 50131 (Grade 2) PD 6662:2017</p> <p><b>Compatibility with hubs and range extenders</b></p>  <p>For detailed information, scan the QR code or follow the link: <a href="https://ajax.systems/tools/devices-compatibility/?models=MC.SAMP.J">ajax.systems/tools/devices-compatibility/?models=MC.SAMP.J</a></p>	<p><b>Communication with a hub or range extender</b></p> <p>Jeweller and TurboWings communication technologies</p> <p><b>Frequency bands</b> 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</p> <p><b>Communication range</b> up to 1,700 m up to 5,600 ft In an open space</p> <p><b>Protection against spoofing</b> Device authentication</p>	<p><b>Photo verification</b></p> <p><b>Photo resolution (in pixels)</b> 960 × 720 640 × 480 320 × 240 160 × 120 Adjusted in Ajax apps</p> <p><b>Photos in a series</b> from 1 to 5 pics<sup>4</sup> Adjusted in Ajax apps</p> <p><b>Photo verification types</b> Photo on demand Photo by alarm Photo by schedule Photo by scenario Photo by masking Photo by tamper alarm Photo by arming/disarming</p> <p><b>HDR feature</b></p> <p><b>Support for HD photos<sup>3</sup></b></p>	<p><b>Motion detection</b></p> <p><b>Sensitive element</b> 1 × PIR sensor</p> <p><b>Motion detection distance</b> up to 12 m up to 39 ft When the detector is installed at a height of 2.4 m (7.9 ft)</p> <p><b>Motion detection angle</b> horizontal: 92°</p> <p><b>Motion detection sensitivity</b> 3 levels Adjusted in Ajax apps</p> <p><b>Masking detection sensitivity</b> 3 levels Adjusted in Ajax apps</p>
<p><b>Power supply</b></p> <p><b>Battery</b> 2 × CR123A (pre-installed)</p> <p><b>Battery life</b> up to 4 years With the Photo on demand feature disabled</p> <p>up to 3 years With the Photo on demand feature enabled</p>	<p><b>Installation</b></p> <p><b>Recommended installation height</b> 2.4 m 7.9 ft</p> <p><b>Operating temperature range</b> from –10 °C to +40 °C from 14 °F to 104 °F</p> <p><b>Operating humidity</b> up to 75%</p> <p><b>Protection class</b> IP50</p>	<p><b>Enclosure</b></p> <p><b>Color</b> white</p> <p><b>Dimensions</b> 134 × 70 × 59 mm 5.28" × 2.74" × 2.33"</p> <p><b>Weight</b> 176 g 6.21 oz</p>	<p><b>Complete set</b></p> <p>Superior MotionCam AM (PhOD) Jeweller 2 × CR123A battery (pre-installed) SmartBracket mounting panel Installation kit Quick start guide</p>

<sup>1</sup> Superior MotionCam AM (PhOD) Jeweller detects a person standing at a distance of 80 cm (2.6 ft) from the device when the detector is properly installed at a height of 2.4 m (7.9 ft). Testing was conducted with a person 175 cm (5.7 ft) tall.

<sup>2</sup> Superior MotionCam AM (PhOD) Jeweller detects a person crawling at a distance of 2 m (6.6 ft) from the device when the detector is properly installed at a height of 2.4 m (7.9 ft).

<sup>3</sup> First photo delivery in 15.5 seconds with TurboWings protocol.

<sup>4</sup> The number of photos in a series depends on the selected photo resolution.

<sup>5</sup> With TurboWings protocol and photo resolution of 320x240 pixels. This is the time of delivery from the detector to the hub. Delivery time to the apps depends on the hub-server connection and smartphone's internet speed.

<sup>6</sup> In an open space.



For detailed information, scan the QR code or follow the link:

[ajax.systems/support/devices/superior-motioncam-am-phod-jeweller/](https://ajax.systems/support/devices/superior-motioncam-am-phod-jeweller/)

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