

# MotionCam Jeweller

Wireless IR motion detector supporting the photo by alarm feature

<b>Communication</b>	<p><b>Jeweller communication technology</b></p> <p>Proprietary wireless communication technology to transmit commands, alarms, and events.</p> <p>Key features:</p> <ul style="list-style-type: none"><li>● Two-way communication.</li><li>● Advanced anti-sabotage.</li><li>● Block encryption featuring a dynamic key.</li><li>● Instant notifications.</li><li>● Remote control and configuration in Ajax apps.</li></ul> <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>Maximum effective radiated power (ERP)</b> up to 20 mW</p> <p><b>Radio signal modulation</b> GFSK</p> <p><b>Radio communication range</b> up to 1,700 m up to 5,500 ft Between a hub and connected devices (in an open space).</p> <p><b>Encrypted communication</b> All stored and transmitted data are protected by block encryption featuring a dynamic key.</p> <p><b>Frequency hopping</b> To prevent radio interference and jamming.</p>
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**Wings communication technology**

Proprietary wireless communication technology to transmit photos.

Key features:

- Two-way communication.
- Block encryption featuring a dynamic key.
- Advanced anti-sabotage.
- Data package 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.

**Radio communication range**

up to 1,700 m  
up to 5,500 ft  
Between a hub and connected devices (in an open space). The maximum range depends on the connected device.

**Encrypted communication**

All stored and transmitted data are protected by block encryption featuring a dynamic key.

**Frequency hopping**

To prevent radio interference and jamming.

**Detection**

**Sensitive element**

PIR sensor

**Motion detection distance**

up to 12 m  
When installed at a height of 2.4 m.  
up to 39 ft

	<p>When installed at a height of 7.9 ft.</p> <p><b>Motion detection angles</b> horizontal – 88.5°</p> <p><b>Motion detection speed</b> from 0.3 to 2.0 m/s from 1 to 6.6 ft/s The direction of the detector lens should be perpendicular to an alleged intrusion path into the facility.</p> <p><b>Sensitivity</b> 3 levels Adjusted by a PRO or user with admin rights in Ajax apps.</p> <p><b>Pet immunity</b> weight: up to 20 kg height: up to 50 cm weight: up to 44 lb height: up to 1.6 ft</p> <p><b>False alarm prevention</b> SmartDetect Software algorithm.</p> <p><b>Temperature compensation</b> Effective motion detection at temperatures from –10 °C to +40 °C. Effective motion detection at temperatures from 14 °F to 104 °F.</p>
<p><b>Photo verification</b></p>	<p><b>Photo by alarm</b> A built-in camera is activated if the detector is armed and motion is detected.</p> <p><b>Photo resolution</b> 640 × 480 px 320 × 240 px (by default) 160 × 120 px Adjusted by a PRO or user with admin rights in Ajax apps.</p> <p><b>HDR image</b> Improves the accuracy of detail in bright and dark scenes. The feature is available for devices with the 15.59.35.14 firmware version or later<sup>1</sup>.</p>

	<p><sup>1</sup> Contact your Ajax supplier or authorized partner to check the availability in your region.</p> <p><b>IR backlight</b> For night photography and low light conditions.</p> <p><b>Pictures in a series</b> from 1 to 5 images with a resolution of 320 × 240 px or 160 × 120 px from 1 to 3 images with a resolution of 640 × 480 px Adjusted by a PRO or user with admin rights in Ajax apps.</p> <p><b>Photo delivery time</b> up to 7 s – 160 × 120 px resolution up to 9 s – 320 × 240 px resolution up to 20 s – 640 × 480 px resolution When the hub is connected via Ethernet or 4G and the Wings signal strength between a hub and device is 2–3 bars. Photo delivery time when the detector is connected via a range extender is <b>available here</b>.</p>
<b>Recommendations</b>	It is recommended to install the detector at a height of 2.4 m (7.9 ft.). Device is designed for indoor use only.
<b>Anti-sabotage protection</b>	<p><b>Tamper alarm</b> Notifications on attempts to detach the device from the surface or remove it from the mounting panel.</p> <p><b>Protection against spoofing</b> device authentication</p> <p><b>Communication loss detection</b> within 36 s Detection time depends on the <b>Jeweller</b> or <b>Jeweller/Fibra</b> settings.</p>
<b>Power supply</b>	<p><b>Battery</b> 2 × CR123A Pre-installed.</p> <p><b>Calculated battery life</b> up to 4 years</p>
<b>Enclosure</b>	<p><b>Dimensions</b> 135 × 70 × 60 mm 5.31" × 2.75" × 2.36"</p>

	<p><b>Weight</b> 170 g 6 oz</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>
<b>Colour</b>	<ul style="list-style-type: none"> <li>● Black</li> <li>● White</li> </ul>
<b>Complete set</b>	<p>MotionCam Jeweller SmartBracket mounting panel Installation kit 2 × CR123A battery (pre-installed) Quick start guide</p>
<b>Additional information</b>	<p><b>Warranty</b> 24 months</p>