

## MotionCam Outdoor HighMount (PhOD) Jeweller

Wireless PIR motion detector with extended photo verification possibilities. For outdoor installation at a height of 2–4 m

## Communication

### **Jeweller communication technology**

Proprietary wireless communication technology to transmit commands, alarms, and events.

Key features:

- Two-way communication.
- Advanced sabotage protection.
- 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 1,700 m

up to 5,550 ft

Between the device and a hub (or a range extender) in an open space.

### **Encrypted communication**

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

### **Frequency hopping**

To prevent radio interference and jamming.

### **Wings communication technology**

Proprietary wireless communication technology to transmit photo verifications.

Key features:

- Two-way communication.
- Advanced sabotage protection.
- 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

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921.0–922.0 MHz

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### **Radio communication range**

up to 1,700 m

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**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 elements**

2 × PIR sensor  
1 × K-band microwave sensor  
Operating frequency: 24 GHz.

**Motion detection distance**

up to 15 m  
up to 49 ft  
When installed at a height of 2–4 m.  
When installed at a height of 6.6–13.0 ft.  
Depends on the sensitivity level adjusted in the device settings.

**Motion detection angle**

horizontal: 90°

**Motion detection speed**

from 0.3 to 2.0 m/s  
from 1.0 to 6.6 ft/s  
The direction of the detector sensors should be perpendicular to an alleged intrusion path into the facility.

**Sensitivity**

3 levels  
Adjusted by a PRO or a user with admin rights in Ajax apps.

**False alarm prevention**

- SmartDetect

Software algorithm.

**Temperature compensation**

Effective movement detection in temperatures from –25 °C to +60 °C.  
Effective movement detection in temperatures from –13 °F to 140 °F.

<p><b>Photo verification</b></p>	<p><b>Photo by Alarm</b> The built-in camera is activated if the detector is armed and movement is detected.</p> <p><b>Photo on Demand</b> A user takes pictures at any time or when the detector is armed (depending on settings). The feature is disabled by default.</p> <p><b>Photo by Scenario</b> The detector takes pictures automatically when other Ajax detectors are triggered. The feature is not configured by default.</p> <p><b>Photo by Schedule</b> The detector automatically takes photos at the specified time. The feature is not configured by default.</p> <p><b>Photo by arming/disarming</b> The detector automatically takes photos when the security state is changed.</p> <p><b>Adjustable photo resolution</b> 640 × 480 px 320 × 240 px (default) Adjusted by a PRO or a user with admin rights in Ajax apps.</p> <p><b>Camera viewing angles</b> horizontal: 115° vertical: 84°</p> <p><b>IR backlight</b> For night photography and low light conditions.</p> <p><b>Series of pictures</b> from 1 to 5 images with a resolution of 320 × 240 px from 1 to 3 images with a resolution of 640 × 480 px Adjusted by a PRO or a user with admin rights in Ajax apps.</p> <p><b>Photo delivery time</b> up to 9 s for 320 × 240 px resolution up to 20 s for 640 × 480 px resolution Photo delivery time depends on the image resolution selected in the device settings.</p>
<p><b>Recommendations</b></p>	<p>It is recommended to install the detector at a height of 2–4 m. It is recommended to install the detector at a height of 6.6–13.0 ft.</p> <p>The <b>pet immunity</b> feature is not available for this device.</p> <p>The device is designed for outdoor and indoor use.</p>

<p><b>Sabotage protection</b></p>	<p><b>Tamper alarm</b> Notifications of attempts to remove the detector from the mounting panel.</p> <p><b>Magnetometer</b> detects attempts to tilt or shift the detector or detach it from the surface</p> <p><b>Anti-masking system</b> detects attempts to block the detector view</p> <p><b>Holding screw</b> secures the device on SmartBracket</p> <p><b>Protection against spoofing</b> device authentication</p> <p><b>Communication loss detection</b> after 36 s Detection time depends on the Jeweller/Fibra settings.</p>
<p><b>Main power supply</b></p>	<p><b>Battery</b> 6 × CR123A Pre-installed.</p> <p><b>Type</b> type C</p> <p><b>Calculated battery life</b> up to 3 years</p> <p><b>Detector operating voltage range</b> 3.8–6.5 V<sub>DC</sub></p> <p><b>Detector nominal operating voltage</b> 6 V<sub>DC</sub></p> <p><b>Quiescent detector current consumption at nominal voltage</b> 45 µA</p> <p><b>Maximum detector current consumption at nominal voltage</b> 1,200 mA</p> <p><b>Full battery capacity</b> 4,800 mAh</p> <p><b>Low battery voltage</b> 4.2 V<sub>DC</sub></p> <p><b>Low battery recovery voltage</b> 5.0 V<sub>DC</sub></p> <p><b>End-of-life battery voltage</b> 3.8 V<sub>DC</sub> The device is switched off.</p> <p><b>End-of-life battery capacity</b> 300 mAh</p> <p><b>Manufacturer</b> Huiderei</p>

<b>Optional power supply</b>	<b>External supply operating voltage</b> 8–24 V= The batteries serve as a backup when an external power supply is connected.
<b>Enclosure</b>	<b>Dimensions with the swivel mount</b> 234 × 98 × 230 mm 9.21" × 3.86" × 9.06"  <b>Dimensions without the swivel mount</b> 234 × 98 × 137 mm 9.21" × 3.86" × 5.39"  <b>Weight with the swivel mount</b> 1,010 g 35.6 oz  <b>Weight without the swivel mount</b> 620 g 21.9 oz  <b>Operating temperature range</b> from –25 °C to +60 °C from –13 °F to 140 °F  <b>Operating humidity</b> up to 95%  <b>Protection class</b> IP55
<b>Color</b>	White
<b>Complete set</b>	MotionCam Outdoor HighMount (PhOD) Jeweller 6 × CR123A battery (pre-installed) SmartBracket mounting panel Swivel mount Hood Installation kit Quick start guide
<b>Warranty</b>	24 months