# MotionCam Outdoor HighMount (PhOD) Jeweller

Wireless IR motion detector that takes on-demand photos and photos by alarm, schedule, and scenario. 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 MHz868.0–868.6 MHz868.7–869.2 MHz905.0–926.5 MHz915.85–926.5 MHz921.0–922.0 MHzDepends on the sales region.**Maximum effective radiated power (ERP)**up to 25 mWAutomatic power control to reduce power consumption and radio interference.**Radio signal modulation**GFSK**Radio communication range**up to 1,700 mup to 5,550 ftBetween 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.

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| **Detection** | **Sensitive elements**2 × PIR sensor1 × K-band microwave sensorOperating frequency: 24 GHz.**Motion detection distance**up to 15 mup to 49 ftWhen 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/sfrom 1.0 to 6.6 ft/sThe direction of the detector sensors should be perpendicular to an alleged intrusion path into the facility.**Sensitivity**3 levelsAdjusted by a PRO or a user with admin rights in Ajax apps.**False alarm prevention*** LISA
* 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. |
| **Photo verification** | **Photo by Alarm**The built-in camera is activated if the detector is armed and movement is detected.**Photo on Demand**A user takes pictures at any time or when the detector is armed (depending on settings). The feature is disabled by default.**Photo by Scenario**The detector takes pictures automatically when other Ajax detectors are triggered. The feature is not configured by default.**Photo by Schedule**The detector automatically takes photos at the specified time. The feature is not configured by default.**Adjustable photo resolution**640 × 480 px320 × 240 px (default)Adjusted by a PRO or a user with admin rights in Ajax apps.**Camera viewing angles**horizontal: 115°vertical: 84°**IR backlight**For night photography and low light conditions.**Series of pictures**from 1 to 5 images with a resolution of 320 × 240 pxfrom 1 to 3 images with a resolution of 640 × 480 pxAdjusted by a PRO or a user with admin rights in Ajax apps.**Photo delivery time**up to 9 s for 320 × 240 px resolutionup to 20 s for 640 × 480 px resolutionPhoto delivery time depends on the image resolution selected in the device settings. |
| **Recommendations** | 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.The **pet immunity** feature is not available for this device.The device is designed for outdoor and indoor use. |
| **Sabotage protection** | **Tamper alarm**Notifications of attempts to remove the detector from the mounting panel.**Magnetometer**detects attempts to tilt or shift the detector or detach it from the surface**Anti-masking system**detects attempts to block the detector view**Holding screw**secures the device on SmartBracket**Protection against spoofing**device authentication**Communication loss detection**after 36 sDetection time depends on the Jeweller/Fibra settings. |
| **Main power supply** | **Battery**6 × CR123APre-installed.**Type**type C**Calculated battery life**up to 3 years**Detector operating voltage range**3.8−6.5 V⎓**Detector nominal operating voltage**6 V⎓**Quiescent detector current consumption at nominal voltage**45 μA**Maximum detector current consumption at nominal voltage**1,200 mA**Full battery capacity**4,800 mAh**Low battery voltage**4.2 V⎓**Low battery recovery voltage**5.0 V⎓**End-of-life battery voltage**3.8 V⎓The device is switched off.**End-of-life battery capacity**300 mAh**Manufacturer**Huiderui |
| **Optional power supply** | **External supply operating voltage**8−24 V⎓The batteries serve as a backup when an external power supply is connected. |
| **Enclosure** | **Dimensions with the swivel mount**234 × 98 × 230 mm9.21" × 3.86" × 9.06"**Dimensions without the swivel mount**234 × 98 × 137 mm9.21" × 3.86" × 5.39"**Weight with the swivel mount**1,010 g35.6 oz**Weight without the swivel mount**620 g21.9 oz**Operating temperature range**from −25 °C to +60 °Cfrom −13 °F to 140 °F**Operating humidity**up to 95%**Protection class**IP55 |
| **Color** | White |
| **Complete set** | MotionCam Outdoor HighMount (PhOD) Jeweller6 × CR123A battery (pre-installed)SmartBracket mounting panelSwivel mountHoodInstallation kitQuick start guide |
| **Warranty** | 24 months |