# Superior MotionCam HD (PhOD) Jeweller

| 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**868.0–868.6 MHzDepends on the sales region.**Maximum effective radiated power (ERP)**up to 20 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 is protected by block encryption featuring a dynamic key.**Frequency hopping**To prevent radio interference and jamming.**TurboWings 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.
* Fast photo delivery.
* Photo delivery confirmation.

**Frequency bands**868.0–868.6 MHzDepends on the sales region.**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 is protected by block encryption featuring a dynamic key.**Frequency hopping**To prevent radio interference and jamming. |
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| Detection | **Sensitive element**1 PIR sensor**Motion detection distance**up to 12 m up to 39 ftWhen installed at a height of 2.4 m.When installed at a height of 7.9 ft.**Motion detection angle**horizontal: 88.5°**Motion detection speed**from 0.3 to 2 m/sfrom 1 to 6.6 ft/sThe detector lens should be positioned perpendicular to the likely intrusion path into the facility.**Sensitivity**4 levelsAdjusted by PRO or a user with admin rights in an Ajax app**Pet immunity**weight: up to 20 kgweight: up to 44 lbheight: up to 50 cmheight: up to 1.6 ft**Learn more >****False alarm prevention**SmartDetectSoftware algorithm.**Temperature compensation**Effective motion detection at temperaturesfrom −10 °C to +40 °C.from 14 °F to 104 °F. |
| Photo verification | **Photo by Alarm**The built-in camera is activated if the detector is armed and motion is detected. **Photo on Demand**The 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’s camera takes pictures automatically when other Ajax detectors are triggered. The feature is disabled by default.**Photo by Schedule**The detector automatically takes photos at the specified time. The feature is not configured by default.**Adjustable photo resolution**960 × 720 px640 × 480 px (by default)320 × 240 px 160 × 120 pxAdjusted by PRO or a user with admin rights in an Ajax app.**Camera viewing angles**horizontal: 90°vertical: 50°**HDR image**Improves detail accuracy in bright and dark scenes.**IR illumination**For night photography and low-light conditions. **Series of pictures**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 or 960 × 720 pxAdjusted by PRO or a user with admin rights in an Ajax app. **Photo delivery time**TBCup to XX s — 160 × 120 px resolutionup to XX s — 320 × 240 px resolutionup to XX s — 640 × 480 px resolutionup to XX s — 960 × 720 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 7.9 ft.The device is designed for indoor use only. |
| Sabotage protection | **Tamper alarm**Notifications on attempts to detach the detector from the surface or remove it from the mounting panel.**Holding screw**to secure the detector on SmartBracket**Protection against spoofing**via device authentication**Communication loss detection**after 36 sDetection time depends on the Jeweller or Jeweller/Fibra settings. |
| Power supply | **Batteries**2 × CR123APre-installed.**Type**type C**Calculated battery life**up to 4 yearsWith **Photo on demand** toggle **disabled**.up to 3 yearsWith **Photo on demand** toggle **enabled**.**Operating voltage range**4.2−6.2 V⎓**Nominal operating voltage**6 V⎓**Quiescent current consumption at nominal voltage**0.030 mA**Maximum current consumption at nominal voltage**400 mA**Full capacity**1,550 mAh**Low battery voltage**4.705–5.00 V⎓**Low battery recovery voltage**5.055–5.355 V⎓**End-of-life battery voltage**3.80 V⎓Device is switched off.**End-of-life battery capacity**150 mAh**Manufacturer**Panasonic |
| Enclosure | **Dimensions**135 × 70 × 60 mm5.31" × 2.75" × 2.60"**Weight of the white device**170 g6.0 oz**Weight of the black device**157 g5.54 oz**Operating temperature range**from −10 °C to +40 °Cfrom 14 °F to 104 °F**Operating humidity**up to 75%**Protection class**IP50 |
| Colors | **Black****White** |
| Complete set | Superior MotionCam HD (PhOD) JewellerSmartBracket mounting panel with holding screw2 × CR123A batteries (pre-installed)Installation kitQuick start guide |
| **Warranty** | 24 months |