# 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 MHz  Depends on the sales region.  **Maximum effective radiated power (ERP)**  up to 20 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 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 MHz  Depends on the sales region.  **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 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 ft  When 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/s  from 1 to 6.6 ft/s  The detector lens should be positioned perpendicular to the likely intrusion path into the facility.  **Sensitivity**  4 levels  Adjusted by PRO or a user with admin rights in an Ajax app  **Pet immunity**  weight: up to 20 kg  weight: up to 44 lb  height: up to 50 cm  height: up to 1.6 ft  **Learn more >**  **False alarm prevention**  SmartDetect  Software algorithm.  **Temperature compensation**  Effective motion detection at temperatures  from −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 px  640 × 480 px (by default)  320 × 240 px  160 × 120 px  Adjusted 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 px  Adjusted by PRO or a user with admin rights in an Ajax app.  **Photo delivery time**  TBC  up to XX s — 160 × 120 px resolution  up to XX s — 320 × 240 px resolution  up to XX s — 640 × 480 px resolution  up to XX s — 960 × 720 px resolution  Photo 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 s  Detection time depends on the Jeweller or Jeweller/Fibra settings. |
| Power supply | **Batteries**  2 × CR123A  Pre-installed.  **Type**  type C  **Calculated battery life**  up to 4 years  With **Photo on demand** toggle **disabled**.  up to 3 years  With **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 mm  5.31" × 2.75" × 2.60"  **Weight of the white device**  170 g  6.0 oz  **Weight of the black device**  157 g  5.54 oz  **Operating temperature range**  from −10 °C to +40 °C  from 14 °F to 104 °F  **Operating humidity**  up to 75%  **Protection class**  IP50 |
| Colors | **Black**  **White** |
| Complete set | Superior MotionCam HD (PhOD) Jeweller  SmartBracket mounting panel with holding screw  2 × CR123A batteries (pre-installed)  Installation kit  Quick start guide |
| **Warranty** | 24 months |