

# Superior MotionCam HD (PhOD) Jeweller

Wireless PIR motion detector with extended photo verification possibilities.  
Supports HD resolution

## 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.

	<p><b>Radio communication range</b> up to 1,700 m up to 5,550 ft Between the device and a hub (or a range extender) in an open space.</p> <p><b>Encrypted communication</b> All stored and transmitted data is protected by block encryption featuring a dynamic key.</p> <p><b>Frequency hopping</b> To prevent radio interference and jamming.</p>
--	--

<b>Detection</b>	<p><b>Sensitive element</b> 1 PIR sensor</p> <p><b>Motion detection distance</b> 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.</p> <p><b>Motion detection angle</b> horizontal: 88.5°</p> <p><b>Motion detection speed</b> 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.</p> <p><b>Sensitivity</b> 4 levels Adjusted by PRO or a user with admin rights in an Ajax app</p> <p><b>Pet immunity</b> weight: up to 20 kg weight: up to 44 lb height: up to 50 cm height: up to 1.6 ft <a href="#">Learn more &gt;</a></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. from 14 °F to 104 °F.</p>
<b>Photo verification</b>	<p><b>Photo by Alarm</b> The built-in camera is activated if the detector is armed and motion is detected.</p> <p><b>Photo on Demand</b> The 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's camera takes pictures automatically when other Ajax detectors are triggered. The feature is disabled by default.</p> <p><b>Photo by Schedule</b></p>

The detector automatically takes photos at the specified time. The feature is not configured by default.

**Photo by arming/disarming**

The detector automatically takes photos when the security state is changed.

**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.

<b>Recommendations</b>	<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 7.9 ft.</p> <p>The device is designed for indoor use only.</p>
<b>Sabotage protection</b>	<p><b>Tamper alarm</b> Notifications on attempts to detach the detector from the surface or remove it from the mounting panel.</p> <p><b>Holding screw</b> to secure the detector on SmartBracket</p> <p><b>Protection against spoofing</b> via device authentication</p> <p><b>Communication loss detection</b> after 36 s Detection time depends on the Jeweller or Jeweller/Fibra settings.</p>

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<sub>DC</sub>

Nominal operating voltage

6 V<sub>DC</sub>

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<sub>DC</sub>

Low battery recovery voltage

5.055–5.355 V<sub>DC</sub>

End-of-life battery voltage

3.80 V<sub>DC</sub>  
Device is switched off.

End-of-life battery capacity

150 mAh

Manufacturer

Panasonic

<b>Enclosure</b>	<b>Dimensions</b> 135 × 70 × 60 mm 5.31" × 2.75" × 2.60"  <b>Weight of the white device</b> 170 g 6.0 oz  <b>Weight of the black device</b> 157 g 5.54 oz  <b>Operating temperature range</b> from −10 °C to +40 °C from 14 °F to 104 °F  <b>Operating humidity</b> up to 75%  <b>Protection class</b> IP50
<b>Colors</b>	<b>Black</b>  <b>White</b>
<b>Complete set</b>	Superior MotionCam HD (PhOD) Jeweller SmartBracket mounting panel with holding screw 2 × CR123A batteries (pre-installed) Installation kit Quick start guide
<b>Warranty</b>	24 months