

Assemble kit







### **Tech specs**

#### **SUPERIOR**

# Superior MotionCam HD (PhOD) Jeweller

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







**Device compatibility** 

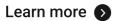
Check

## **⇒** 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

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

Calculate radio communication range at the facility



### **Encrypted communication**

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

### Frequency hopping

To prevent radio interference and jamming.

Learn more

### **₹** 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.

Learn more **•** 

## Frequency bands

868.0-868.6 MHz

Depends on the sales region.

### Radio communication range

up to 1,700 m

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### **Encrypted communication**

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## Frequency hopping

To prevent radio interference and jamming.

Learn more **1** 

## **Detection**

#### Sensitive element

1 PIR sensor

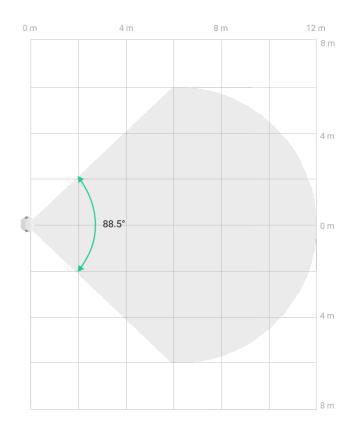
#### Motion detection distance

up to 12 m

When installed at a height of 2.4 m.



horizontal: 88.5°



## Motion detection speed

from 0.3 to 2 m/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

height: up to 50 cm

Learn more **1** 

## False alarm prevention

SmartDetect

Software algorithm.

Learn more **•** 

## **Temperature compensation**

Effective motion detection at temperatures

from -10 °C to +40 °C.

Learn more **()** 

#### Photo verification

### Photo by alarm

The built-in camera is activated if the detector is armed and motion is detected.

Learn more **5** 

#### 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.

Learn more **()** 

### Photo by scenario

The detector's camera takes pictures automatically when other Ajax detectors are triggered. The feature is disabled by default.

Learn more **>** 

## Photo by schedule

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

Learn more **S** 

## Photo by arming/disarming

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

Learn more **S** 

### Adjustable photo resolution

$$960 \times 720 \text{ px}$$

$$640 \times 480 \text{ px}$$
 (by default)

$$320 \times 240 \text{ px}$$

$$160 \times 120 px$$

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

up to  $3 \text{ s} - 160 \times 120 \text{ px resolution}$ 

up to  $4.5 \text{ s} - 320 \times 240 \text{ px}$  resolution

up to 11 s - 640 × 480 px resolution

#### up to $15.5 \text{ s} - 960 \times 720 \text{ px}$ 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.

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.



Learn more **1** 

## **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.

Learn more **1** 

## **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.

Learn more

## Operating voltage range

4.2 U.2 V	4.	2-	6.2	V=
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N	Jom	inal	operating	voltage
L,		IIIIai	operating	voitage

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

## Weight of the white device

170 g

## Weight of the black device

157 g

## Operating temperature range

from -10 °C to +40 °C

## **Operating humidity**

up to 75%

### **Protection class**

IP50



70 mm



60 mm

### Color

**Black** 







## Complete set

Superior MotionCam HD (PhOD) Jeweller

SmartBracket mounting panel with holding screw

2 × CR123A batteries (pre-installed)

Installation kit

Quick start guide

## Certification and compliance with standards



Superior MotionCam HD (PhOD) Jeweller



## **Additional information**

**Compliance with standards** 

**User manual** 

Learn more **2** 

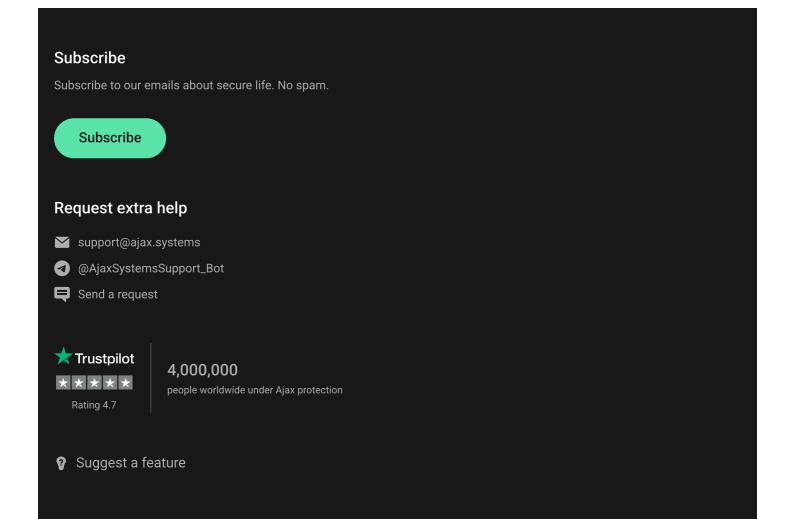
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Warranty

24 months

Learn more **2** 









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Intrusion protection

Video surveillance

Fire and life safety

Comfort and automation

All products

Services

System integrations

Ajax Ready products

Fibra wired protocol

Ajax radio protocols

#### Software

For users

Ajax PRO: Tool for Engineers

Ajax Desktop

Ajax PRO Desktop

Ajax Translator PRO

Ajax Cloud Signaling

Scenarios



Available on **App Store** 



Available on **Google Play** 

#### **Solutions**

**Customer stories** 

Solutions by facility type

Commercial fire detection and alarm system

Upgrades and retrofits

Why Ajax

How it works

#### Support

Manuals and articles

Compliance with standards

#### **Tools**

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