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Assemble kit

**B** MotionProtect Outdoor Jeweller

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## Tech specs

**B**ASELINE

# MotionProtect Outdoor Jeweller

Wireless IR motion detector for outdoor and indoor use



Device compatibility

Check

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## Communication

## Jeweller communication technology

Proprietary wireless communication technology to transmit commands, alarms, and events.

Key features:

- Two-way communication.
- Advanced anti-sabotage.
- Block encryption featuring a dynamic key.
- Instant notifications.
- Remote control and configuration in Ajax apps.

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### Frequency bands

866.0–866.5 MHz

868.0–868.6 MHz

868.7–869.2 MHz

905.0–926.5 MHz

915.85–926.5 MHz

921.0–922.0 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 are protected by block encryption featuring a dynamic key.

## Frequency hopping

To prevent radio interference and jamming.

**Learn more** >

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## Detection

## Sensitive elements

2 × PIR sensor

## Motion detection distance

up to 3–15 m

When installed at a height of 0.8–1.3 m.  
Adjusted with a scrollbar on the device enclosure.

[Learn more](#) >

## Motion detection angles

horizontal – 90°

vertical – N/A

## Motion detection speed

from 0.3 to 2.0 m/s

The direction of the detector lens should be perpendicular to an alleged intrusion path into the facility.

## Sensitivity

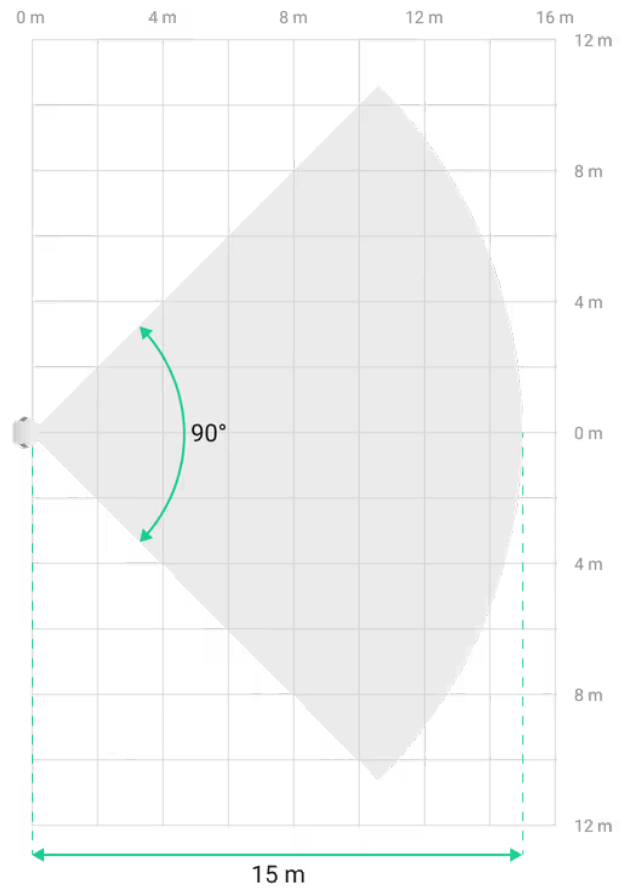
3 levels

Adjusted by PRO or user with admin rights in the Ajax app.

## Pet immunity

weight: not relevant

height: up to 80 cm



[Learn more](#) >

## False alarm prevention

LISA

SmartDetect

Software algorithms.

## Temperature compensation

Effective motion detection at temperatures from  $-25\text{ °C}$  to  $+60\text{ °C}$ .

## Recommendations

It is recommended to install the detector at a height of 0.8–1.3 m. The device is designed for indoor and outdoor use. Install Hood to protect the detector's anti-masking system from rain and snow.

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## Sabotage protection

### Tamper alarm

Notifications on attempts to detach the detector from the surface or remove it from the mounting panel.

[Learn more >](#)

## Protection against spoofing

device authentication

## Anti-masking system

detects attempts to block the detector view

[Learn more >](#)

## Communication loss detection

after 36 s

Detection time depends on the Jeweller or Jeweller/Fibra settings.

[Learn more >](#)

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## Main power supply

### Battery

2 × CR123A

Pre-installed.

### Type

type C

## Calculated battery life

up to 5 years

[Learn more >](#)

### **Detector's operating voltage range**

2.1–3.3 V<sub>DC</sub>

### **Detector's nominal operating voltage**

3 V<sub>DC</sub>

### **Quiescent detector's current consumption at nominal voltage**

79  $\mu$ A

### **Maximum detector's current consumption at nominal voltage**

58.8 mA

### **Full battery capacity**

3,200 mAh

### **Low battery voltage**

2.5 V<sub>DC</sub>

### **Low battery recovery voltage**

2.7 V<sub>DC</sub>

### **End-of-life battery voltage**

2.1 V<sub>DC</sub>

Device is switched off.

## End-of-life battery capacity

480 mAh

## Manufacturer

Huiderui

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## Optional power supply

### External supply's operating voltage

5–28 V $\overline{=}$ , from 200 mA

The batteries serve as a backup when external power supply is connected.

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## Enclosure

### Dimensions

183 × 70 × 65 mm

### Weight

322 g



### Operating temperature range

from -25 °C to +60 °C

## Operating humidity

up to 95%

## Protection class

IP55



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## Colors

White



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## Complete set

MotionProtect Outdoor Jeweller

SmartBracket mounting panel

Installation kit

2 × CR123A battery (pre-installed)

## Quick start guide

## Certification and compliance with standards



**MotionProtect Outdoor Jeweller**



### Additional information

#### Compliance with standards

[Learn more >](#)

#### User manual

[Learn more >](#)

#### Warranty

24 months

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#### Subscribe

Subscribe to our emails about secure life. No spam.

[Subscribe](#)

#### Request extra help

✉ support@ajax.systems

🗉 @AjaxSystemsSupport\_Bot

💬 Send a request



Rating 4.8

4,500,000

people worldwide under Ajax protection

💡 Suggest a feature



### Products

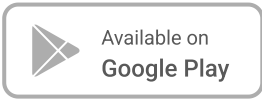
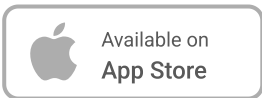
- Intrusion protection
- Video surveillance
- Fire and life safety
- Comfort and automation
- All products
- Services
- System integrations
- Ajax Ready products
- Fibra wired protocol
- Ajax radio protocols

### Solutions

- Customer stories
- Solutions by facility type
- Commercial fire detection and alarm system
- Wireless Grade 3 solution
- Video surveillance solution
- Integration with Yale smart locks
- Upgrades and retrofits
- Why Ajax
- How it works

### Software

- Ajax Security System
- Ajax PRO: Tool for Engineers
- Ajax Desktop
- Ajax PRO Desktop
- Ajax TV
- Ajax Translator PRO
- Ajax Cloud Signaling
- Scenarios



### Support

- Manuals and articles
- Compliance with standards

### Tools

- Ajax device compatibility
- CMS software compatibility
- Ajax Services availability
- Video storage calculator
- Video device calculator

[Battery life calculator](#)

[Radio communication range calculator](#)

[Switches and outlets configurator](#)

[Fibra power supply calculator](#)

[All web tools](#)

## Monitoring solutions and integrations

[Intrusion alarm monitoring](#)

[Video monitoring and visual alarm verification](#)

[Audio alarm verification](#)

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## For partners

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