

Tech specs

BASELINE

MotionProtect Outdoor Jeweller

Wireless IR motion detector for outdoor and indoor use



Devices compatibility

Check

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 >

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

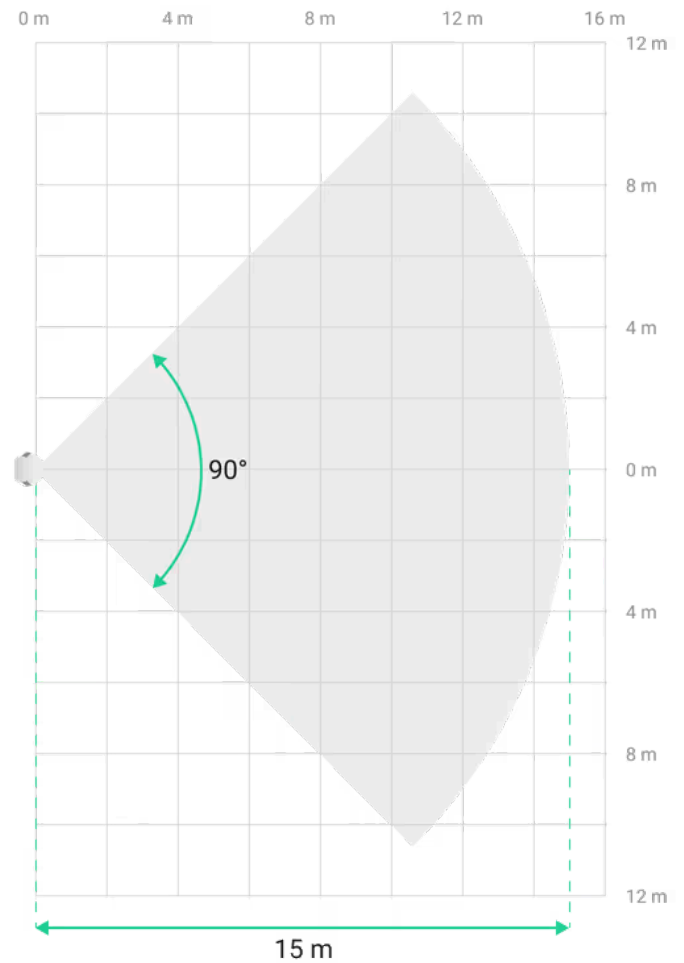
horizontal – 90°

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 °C to $+60\text{ °C}$.

Recommendations

HoodIt 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.

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 >](#)

Main power supply

Battery

2 × CR123A

Pre-installed.

Type

type C

Calculated battery life

up to 5 years

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Detector's operating voltage range

2.1–3.3 V_{DC}

Detector's nominal operating voltage

3 V_{DC}

Quiescent detector's current consumption at nominal voltage

79 μ A

Maximum detector's current consumption at nominal voltage

58.8 mA

Full battery capacity

3,200 mAh

Low battery voltage

2.5 V_{DC}

Low battery recovery voltage

2.7 V_{DC}

End-of-life battery voltage

2.1 V_{DC}

Device is switched off.

End-of-life battery capacity

480 mAh

Manufacturer

Huiderui

Optional power supply

External supply's operating voltage

5–28 V_{DC}, from 200 mA

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

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

Colors

White



65 mm



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

[Learn more >](#)

Products

Superior

Fibra

Intrusion protection

Video surveillance

Fire detection

Water leak prevention

Comfort & Productivity

All products

Ajax ecosystem
integrations

Software

For users

PRO Desktop

Ajax Translator

Scenarios



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Rating 4.6

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