

MotionProtect Plus Jeweller

Wireless IR motion detector with an additional K-band microwave sensor

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

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.

** Certified according to UL/ULC standards.*

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 1,200 m

up to 3,900 ft

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

Encrypted communication

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

Frequency hopping

To prevent radio interference and jamming.

<p>Detection</p>	<p>Sensitive element PIR sensor microwave sensor K-band microwave sensor to prevent false alarms caused by thermal interference. Operation frequency: 24 GHz.</p> <p>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.</p> <p>Motion detection angles horizontal: 88.5°</p> <p>Motion detection speed from 0.3 to 2 m/s from 1 to 6.6 ft/s The direction of the detector lens should be perpendicular to an alleged intrusion path into the facility.</p> <p>Sensitivity 3 levels Adjusted by a PRO or a user with admin rights in the Ajax app</p> <p>Pet immunity weight: up to 20 kg weight: up to 44 lb height: up to 50 cm height: up to 1.6 ft</p> <p>False alarm prevention SmartDetect Software algorithm.</p> <p>Temperature compensation Effective motion detection at temperatures from -10 °C to +40 °C. from 14°F to 104°F.</p>
<p>Recommendations</p>	<p>It is recommended to install the detector at a height of 2.4 m/7.9 ft. The device is designed for indoor use only.</p>

Sabotage protection**Tamper alarm**

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

Protection against spoofing
device authentication**Communication loss detection**

after 36 s

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

Power supply**Battery**

1 × CR123A
Pre-installed.

Type

Type C.

Detector's operating voltage range

2. 1–3. 3 V \approx

Detector's nominal operating voltage

3 V \approx

Quiescent detector's current consumption at nominal voltage

31 μ A

Maximum detector's current consumption at nominal voltage

62 mA

Full battery capacity

1,600 mAh

Low battery voltage

2.5 V \approx

Low battery recovery voltage

2.7 V \approx

End-of-life battery voltage

2.1 V \approx

The device is switched off.

End-of-life battery capacity

300 mAh

Calculated battery life

up to 5 years

Manufacturer

Huidrui or Panasonic
UL listed.

Enclosure	Dimensions 110 × 65 × 50 mm 4.33" × 2.56" × 1.97" Weight 96 g 3.39 oz Operating temperature range from -10 °C to +40 °C from 14 °F to 104 °F Temperature range from 32 °F (0 °C) to 120 °F (49 °C) is certified according to UL/ULC standards. Operating humidity up to 75% Humidity of up to 93% is certified according to UL/ULC standards. Protection class IP50
Colors	Black White
Complete set	MotionProtect Plus Jeweller SmartBracket mounting panel CR123A battery (pre-installed) Installation kit Quick start guide
Warranty	24 months