MotionProtect Outdoor Jeweller

Wireless IR motion detector for indoor and outdoor use

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.
	
	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 1,700 m
	up to 5,600 ft
	Between the device 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.

Detection	**Sensitive elements** 2 × PIR sensor **Motion detection distance** up to 3–15 m up to 10–49 ft When installed at a height of 0.8–1.3 m. Adjusted with a scrollbar on the device enclosure. When installed at a height of 2.6–4.3 ft. Adjusted with a scrollbar on the device enclosure. **Motion detection angles** horizontal — 90° vertical — N/A **Motion detection speed** from 0.3 to 2.0 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. **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 height: up to 2.6 ft **False alarm prevention** LISA SmartDetect Software algorithms. **Temperature compensation** Effective motion detection at temperatures from −25 °C to +60 °C. Effective motion detection at temperatures from −13 °F to 140° F.
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. It is recommended to install the detector at a height of 2.6–4.3 ft. 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. **Protection against spoofing** device authentication **Anti-masking system** detects attempts to block the detector view **Communication loss detection**

| | after 36 s |
| | Detection time depends on the Jeweller or Jeweller/Fibra settings. |

Main power supply	**Battery** 2 × CR123A Pre-installed. **Type** type C **Calculated battery life** up to 5 years **Detector's operating voltage range** 2. 1–3. 3 V⎓ **Detector's nominal operating voltage** 3 V⎓ **Quiescent detector's current consumption at nominal voltage** 79 μA **Maximum detector's current consumption at nominal voltage** 58.8 mA **Full battery capacity** 3,200 mAh Capacity of each battery is 1,600 mAh. **Low battery voltage** 2.5 V⎓ **Low battery recovery voltage** 2.7 V⎓ **End-of-life battery voltage** 2.1 V⎓ Device is switched off. **End-of-life battery capacity** 480 mAh **Manufacturer** Huiderui UL listed.
Optional power supply	**External supply's operating voltage** 5–28 V⎓, f r om 200 mA The batteries serve as a backup when external power supply is connected.

Enclosure	**Dimensions** 183 × 70 × 65 mm 7.2″ × 2.76″ × 2.56″ **Weight** 322 g 11.36 oz **Operating temperature range** from -25 °C to +60 °C from -13 °F to 140 °F Temperature range from -31 °F (-35 °C) to 150 °F (+66 °C) is certified according to UL standards, and from -40 °F (-40 °C) to 150 °F (+66 °C) — according to ULC standards. **Operating humidity** up to 95% Humidity of up to 93% is certified according to UL/ULC standards. **Protection class** IP55
Colors	**White**
Complete set	MotionProtect Outdoor Jeweller SmartBracket mounting panel Installation kit 2 × CR123A battery (pre-installed) Quick start guide
Warranty	24 months