CombiProtect S

Combined IR motion detector and glass break detector with microphone. Developed for projects

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 configuration in the Ajax apps.
	Frequency bands 868.0–868.6 MHz
	Maximum effective radiated power (ERP) up to 20 mW Automatic power control to reduce power consumption and noise interference.
	Radio signal modulation GFSK
	Radio signal range up to 1,200 m up to 3,900 ft Between detector and control panel (or range extender) in an open space.
	Encrypted communication All the data stored and transmitted are protected by block encryption with a dynamic key.
	Frequency hopping Radio communication uses frequency hopping to prevent interception and jamming.
Detection	**Sensitive elements** PIR sensor
	Motion detection distance up to 12 m up to 39 ft When installed at the height of 2.4 m. When installed at the height of 7.9 ft.
	Motion detection angles horizontal: 88.5°
	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.
	Sensitivity 3 levels Adjusted by PRO or user with admin rights in the Ajax app.

	Pet immunity weight: up to 20 kg weight: up to 44 lb height: up to 50 cm height: up to 1.6 ft **False alarm prevention** SmartDetect Software algorithm. **Temperature compensation** Effective motion detection at temperatures from −10°C to +40°C. from 14°F to 104°F.
Recommendations	It is recommended to install the detector at a height of 2.4 m. It is recommended to install the detector at a height of 7.9 ft. The device is designed for indoor use only.
Glass break detection	**Sensitive elements** electret microphone **Glass break detection distance** from 0.3 up to 9 m from 1 up to 29.5 ft **Glass break detection angles** horizontal: 180° vertical: N/A **Sensitivity** 3 levels Adjusted by PRO or user with admin rights in the Ajax app. **False alarm prevention** DualTone Two-factor glass break verification software algorithm: by low and high frequencies.
Glass break characteristics	**Min size of the glass** 400 × 400 mm 15.7" × 15.7" Detection distance up to 9 m for all glass types when the **High** sensitivity level is selected. 29.5 ft **Type of glass and its thickness:** ● standard pane — 4 mm 0.16" ● insulated glass — 4 mm 0.16"
Sabotage protection	**Tamper alarm** Notifications on attempts to detach the detector from the surface or remove it from the mounting panel. **Holding screw** to secure the detector on SmartBracket **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. **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** 0.034 mA **Maximum detector's current consumption at nominal voltage** 58 mA **Full capacity** 1,600 mAh **Low battery voltage** 2.5 V⎓ **Low battery recovery voltage** 2.7 V⎓ **End of life battery voltage** 2.1 V⎓ **End of life battery capacity** 300 mAh **Manufacturer** Panasonic
Enclosure	**Dimensions** 110 × 65 × 50 mm 4.33" × 2.56" × 1.97" **Weight** 92 g 3.24 oz **Operating temperature range** f r om −10° C t o +40° C from 14°F to 104°F **Operating humidity** up to 75% **Protection class** IP50
Colours	**Black**

	White
Complete set	CombiProtect S Jeweller SmartBracket mounting panel with holding screw CR123A battery (pre-installed) Installation kit Quick start guide
Warranty	24 months