MotionCam Jeweller

Wireless motion detector with a photo camera to verify alarms

Compatibility	Compatible hub models
	• Hub 2 (2G) • Hub 2 (4G) • Hub 2 Plus • Hub Hybrid (2G) • Hub Hybrid (4G) **Compatible range extenders** • ReX 2
Communication	**Jeweller communication technology** Proprietary wireless communication technology to transmit alarms and events. **It features:** • Two-way communication. • Advanced anti-sabotage. • Block encryption featuring a dynamic key. • Instant notifications. • Remote configuration via the 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. **Maximum effective radiated power (ERP)** up to 20 mW **Radio signal modulation** GFSK

Radio signal range up to 1,700 m
Between detector and hub or range extender in an open space.

Encrypted communication
All the data stored and transmitted are protected by block encryption with a dynamic key.

Radio frequency hopping
Radio communication uses frequency hopping to prevent interception and jamming.

Wings communication technology

Proprietary wireless communication technology to transmit photo verifications.

It features:
- Two-way communication.
- Block encryption featuring a dynamic key.
- Advanced anti-sabotage.
- Data package reloading in case of transmission errors.
- Photo delivery check.

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.

Radio signal range up to 1,700 m
Between detector and hub or range extender in an open space.

Encrypted communication

	All the data stored and transmitted are protected by block encryption with a dynamic key. **Radio frequency hopping** Radio communication uses frequency hopping to prevent interception and jamming.

Detection	**Sensitive element** 1 × PIR sensor
	
	Motion detection distance up to 12 m
	When installed at a height of 2.4 m.
	
	Motion detection angles
	  • horizontal — 88,5°
	  • vertical — 80°
	
	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: up to 20 kg
	  • height: up to 50 cm
	
	False alarm prevention SmartDetect
	Software algorithm.
	
	Temperature compensation
	Effective motion detection at temperatures
	from −10°C to +40°C.

Photo verification	**Photo by alarm**
	A built-in camera is activated if the detector is armed, and motion is detected.
	
	Photo resolution
	  • 640 × 480 px
	  • 320 × 240 px (by default)
	  • 160 × 120 px

	Adjusted by PRO or user with admin rights in the Ajax app.
	IR backlight For night photography and low light conditions.
	Pictures in a series ● from 1 to 5 images with resolution of 320 × 240 px or 160 × 120 px ● from 1 to 3 images with resolution of 640 × 480 px Adjusted by PRO or user with admin rights in the Ajax app.
	Photo delivery time ● up to 7 s — 160 × 120 px resolution ● up to 9 s — 320 × 240 px resolution ● up to 20 s — 640 × 480 px resolution When the hub is connected via Ethernet or 4G and the Wings signal strength between hub and device is 2–3 bars. Photo delivery time when the detector is connected via range extender is [available here]().
Recommendations	It is recommended to install the detector at a height of 2.4 m. Device is designed for indoor use only.
Anti-sabotage protection	**Tampering alarm** Alerts of attempts to detach the detector from the surface or remove it from the mounting panel. **Protection against forgery** device authentication **Communication loss detection** within 36 s Detection time depends on the Jeweller or Jeweller/Fibra settings.
Power supply	2 × CR123A battery Up to 4 years of battery life.

Enclosure	Dimensions
	135 × 70 × 60 mm
	Weight
	167 g
	Operating temperature range
	from −10°C to +40°C
	Operating humidity
	up to 75%
	Protection class
	IP50
Colour	● Black
	● White
Complete set	MotionCam (PhOD) Jeweller
	SmartBracket mounting panel
	Installation kit
	2 × CR123A battery (pre-installed)
	Quick Start Guide
Additional information	**Warranty**
	24 months