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MotionCam Outdoor

Wireless outdoor motion detector with a photo camera to verify alarms

Uncompromising communication reliability	Intelligent false alarm filter	Multilevel anti-sabotage protection	Effective security in any weather
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Lightning-fast alarms. Verified.

MotionCam Outdoor recognizes intrusion from the very first steps on the territory and confirms it with an animated series of photos. Visual verification helps to instantly ascertain the situation, saving users from concerns, and security companies from unnecessary dispatches.

Motion detected	Alarm raised	Evidence captured
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Don't miss a thing

Combining the best optics, fast processor and advanced software algorithms, MotionCam Outdoor takes informative pictures in any weather, day or night.

- HDR camera
- IR backlight
- Series of 2-5 photos

Camera designed to guard

An outdoor camera often has to shoot in difficult lighting conditions. Direct sunlight, reflective surfaces, or street lights can blind the camera, depriving the image of critical details. This is unacceptable for a security device. We were challenged to get a clear and sharp image that would confirm intrusion in seconds and allow security companies to react in time.

Quality is in the details

We have rejected plastic optics to make a waterproof lens out of glass and metal. The wide-angle lens covers the entire protected area, giving a complete picture of what is happening. In bright light, an infrared filter is automatically applied to ensure distortion-free color reproduction, and two bright IR LEDs help to see the intruder even in total darkness.

To take one photo, MotionCam Outdoor takes two consecutive shots at long and short exposures. The processor instantly combines the shots, equalizing the balance between light and dark areas of the image, and then compresses it for the fastest transmission.

Thanks to the HDR, the detector uses less IR backlight at night and saves battery.

Intelligent false alarm filter

MotionCam Outdoor is equipped with two independent PIR sensors, the signals of which are analyzed by a two-step LISA algorithm. As soon as both sensors detect motion, LISA performs correlation and spectral analysis of the signals, which helps to instantly distinguish real threats from interference.

Correlation analysis

Whenever MotionCamOutdoor detects motion, LISA analyses and compares signal forms from two sensors in real-time. If forms are similar, the alarm is activated.

Spectral analysis

When both sensors detect motion, but the correlational analysis doesn't identify enough similarities, LISA compares frequency components in the signals of both sensors.

Multilevel anti-sabotage protection

MotionCam Outdoor can not be unnoticeably disabled even if the system is disarmed. The detector is equipped with masking sensors that react to hindering, covering and painting the lens.

It will take the hub less than a minute² to detect the loss of communication with the detector and inform a central monitoring station and users about the problem. The fact that MotionCam Outdoor was dismantled will become known instantly.

- Anti-masking system
- Notifications about detachment
- Configurable Hub Detector polling periods

Effective security in any weather

MotionCam Outdoor resists the heat up to +60°C and withstand the cold up to -25°C. And to protect the sensors of the anti-masking system from rain and snow, we have provided a special Hood.

- Efficiency in heat and cold
- IP55 enclosurebody protection
- Bundled Hood to protect from rain and snow

Uncompromising communication reliability

MotionCam Outdoor uses two secure radio protocols simultaneously: Jeweller and Wings. Radio protocols work independently of each other and each is focused on its own function. Jeweller transmits alarms in 0.15 seconds, and thanks to Wings, the first shot from the site will be in the app in less than 9 seconds³.

The radio signal range is sufficient to install the detector where it will be most effective. And up to 3 years of battery life minimizes maintenance efforts.

- Two-way communication at a distance of up to 1,700 meters
- Photo delivery in less than 9 seconds
- Up to 3 years of battery life

Less manual labor. More settings in the app.

The process of connecting and configuring MotionCam Outdoor saves installation engineers time in the best possible way. To add a detector to the system, all you have to do is scan the QR code with the Ajax app, assign a name and a room to it. Configure the device in the app in real time,test detection zones and communication. If necessary, the detector can be disabled or its system parameters can be reconfigured remotely, without visiting the site.

Tech specs

Classification	Electro-optical radio channel security detector
Type of detector	Wireless
Installation method	Outdoors/indoors
Recommended installation height	0,8 – 1,3 m
Compatibility	Hub 2, Hub 2 Plus
	Does not work with ReX radio signal range extender
Sensing element	2 × PIR sensor
Motion detection distance	Adjustable, from 3 to 15 m
Pet immunity	Animals up to 80 cm tall

Sensitivity	Adjustable, 3 levels
Motion detector's viewing angle	Horizontal 88,5° Vertical 80°
Camera's angle	Horizontal 105° Vertical 102°
Distortion	Barrel, –77%
Photo in case of alarm	 Photo resolution: 320 × 176 pixels (by default) 640 × 352 pixels Shooting series up to 5 photos
Infrared light for shooting in the dark	Available
Power supply	4 × CR123A batteries
Supply voltage	3 V
Battery life	Up to 3 years (up to 2.5 years if "Delay when entering" setting is activated)
	Calculate battery life
Jeweller radio technology	Communication range with the hub — up to 1,700 m in an open space Two-way communication between hub and device Operating frequencies — 868.0-868.6 MHz ⁴ Self-adjusting RF output power — up to 20 mW Block encryption with a dynamic key Detector polling period — 12-300 s Frequency hopping
Alarm delivery time	0.15 s

Wings radio technology	Transmission of a series of photos Photo delivery time with a default settings: up to 9 seconds
Temperature sensor	Available
Operating temperature range	From -25°C to +60°C
Operating humidity	Up to 95%
Protection class	IP55
Anti-sabotage	Anti-masking Protection against forgery Jamming detection Tamper-resistant
Remote configuration and testing	Available
CMS compatibility	CMS connectivity: Contact ID, SIA (DC-09) CMS software supporting visual alarms verification
Dimensions	206 × 108 × 93 mm
Weight	470 g
Warranty	24 months from the date of sale
Complete set	MotionCam Outdoor motion detector SmartBracket mounting panel 4 × CR123A batteries (pre-installed) Installation kit User's guide