

MOTION CAM OUTDOOR

OUTDOOR PIR DETECTOR WITH PHOTO CAMERA



Motion Cam Outdoor is a wireless outdoor dual PIR motion detector with an integrated microwave sensor and photo camera that captures a sequence of images on request or when an alarm is triggered to verify the event. It can detect motion up to 15 meters and reliably ignores the movement of animals in the monitored area weighing up to 40 kg and up to 80 cm in height, as well as vegetation or other common sources of false alarms. The device is equipped with an anti-masking function that protects the PIR sensors from being covered or sabotaged.



Data Encryption with AES Algorithm with Floating Code

The SAFEKeeper encrypted communication protocol ensures maximum protection of the security system.



Radio Signal Range up to 1600 m

Stable and efficient communication with a range of up to 1600 m in open space.



Bidirectional Information Transfer between Devices

Uninterrupted interaction between the central unit and devices using AES128 encryption.



Ignoring Animal Movement

The microwave sensor disregards movement from animals weighing up to 40 kg and measuring up to 80 cm in height.



Motion Detection Range up to 15 m

The microwave sensor detects motion at distances of up to 15 meters.



Security Level 2 According to EN 50131

Represents the highest standard protection for wireless components of the alarm and emergency system (PZTS).



Firmware Update via Cloud Services

Adding new features, enhancing software security and expanding the security system capabilities.



Integrated Camera

An integrated 1.3-megapixel HD camera enables photo verification of an alarm, capturing a sequence of on-demand images at resolutions up to 1280 × 960 pixels.



Tamper Protection Against Sabotage and Unauthorized Handling of the Device

If an intruder attempts to remove, force open or otherwise sabotage the detector, Motion Guard Outdoor immediately triggers an alarm.



Smart IR Illuminator with Automatic Adjustment

Motion Cam Outdoor has a smart IR illuminator and can respond to a person's first steps based on IR analysis.



Dual PIR Sensor for Motion Detection

Delivers more reliable detection and greater accuracy in challenging environments.



Up to 4 Years of Battery Life

Powered by a replaceable battery that ensures continuous operation for up to 4 years.

Technical Specifications - Motion Cam Outdoor

Model Identification

SAFE 38470	White EAN code - 0728204234853
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Interface

Indication	1× green LED
Button	1× power switch 1× detection range adjustment switch

Function

Sabotage Contact	Yes (tamper)
Remote Update	Yes (Cloud)
Temperature Sensor	Yes
Search	Signal strength detection (RF, RF-HD)
Test Mode	Yes
Low Battery Alarm	Yes

Wireless Transmission

Carrier Frequency	868.0 MHz – 868.6 MHz
Transmitter Power (EIRP)	Limit 25 mW
Communication Type	Bidirectional
Communication Distance	RF: Up to 1,600 m (5249.34 ft) in open space RF-HD: Up to 1 400 m (4593.18 ft) in open space
Encryption Mode	AES128
Frequency Hopping	Yes (automatic)

Temperature Parameters

Measuring Range	-25 °C to +65 °C (-13 °F to +149 °F) (outdoor)
Measurement Accuracy	±1 °C (± 33.8 °F)
Resolution	1 °C (33.8 °F)

Detection Parameters

Detection Mode	Motion
Sensor	Dual element low noise PIR sensor + microwave sensor
Detection Range	15 m (49.21 ft) (90°) at an installation height of 1 m (3.28 ft)
Detected Object Speed	From 0.3 m/s to 2 m/s (0.98 ft/s to 6.56 ft/s)
Ignoring Animal Movement	≤80 cm (2.62 ft), ≤40 kg (88.19 lb)
White Light Immunity Level	10 000 lx
Antimasking	Yes
Bidirectional digital temperature compensation	Yes
Microwave Frequency	24 GHz
Sensitivity	Adjustable in 3 levels (PIR)

Efficient Motion Detection

Motion Cam Outdoor is a wireless motion detector designed for maximum reliability and convenience for both indoor and outdoor use. This intelligent device features an advanced dual PIR and microwave sensor that accurately detects motion up to 15 meters, with a 90° PIR and 110° camera horizontal viewing angle. It includes an advanced tamper function to protect against interference or sabotage. If an unauthorized person attempts to remove, forcibly open, or otherwise compromise the detector, Motion Cam Outdoor immediately triggers an alarm.

Microwave Sensor

One of the primary advantages of this detector, in addition to the dual PIR sensor, is the integrated microwave sensor. It effectively analyzes and filters out complex disturbances caused by the combination of thermal emissions and the movement of various objects or phenomena. As a result, Motion Cam Outdoor handles common sources of false alarms such as moving vegetation, trees, objects, or intense sunlight. This advanced technology ensures more reliable detection and higher accuracy in challenging conditions, as expected from a professional SAFE alarm system component.

Digital Intelligent Motion Detection Algorithm

Motion Cam Outdoor uses a digital motion detection algorithm to ensure maximum reliability in detecting movement within the monitored area. This intelligent algorithm effectively distinguishes human movement from common distractions such as moving objects, vegetation, pets, or temperature fluctuations. Through advanced infrared analysis, it accurately determines whether the detected movement is relevant and adapts to environmental factors such as changes in temperature, lighting, or humidity. This adaptability ensures reliable performance and allows installation even in the most challenging conditions.



Technical Specifications - Motion Cam Outdoor

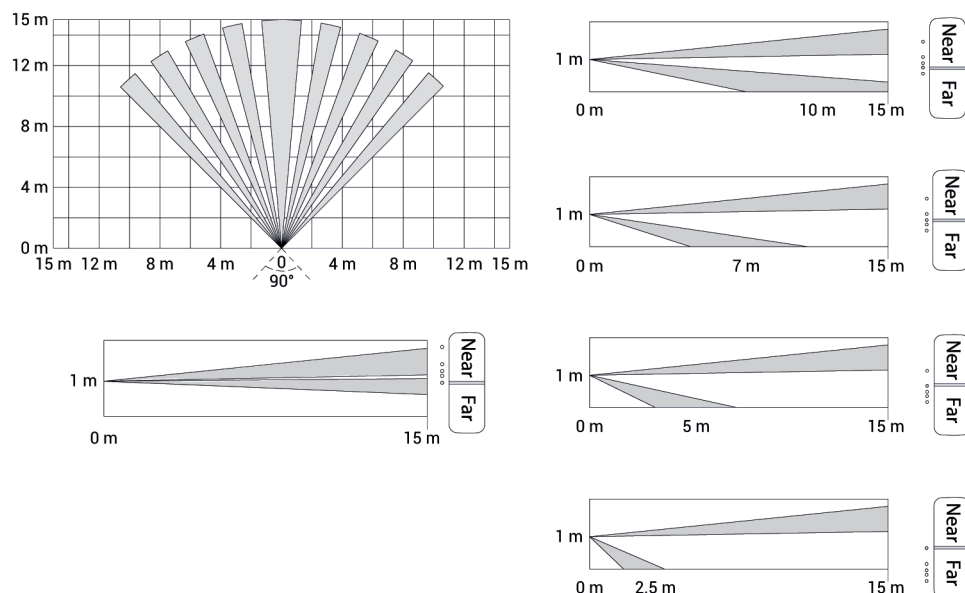
Video

Field of View	110° (H), 60° (V)
Image Type	JPEG
Resolution	1280 x 960; 640 x 480; 320 x 240; 160 x 120
Frame Rate	2
Illumination	Infrared; range up to 15 m (49.21 ft)
Day/Night Mode	Automatic; color (day) / black and white (night)

General

Power Supply	4× CR123A batteries
Current Consumption	Current 20 µA; Alarm: 26 mA (avg.); 250 mA (max.)
Battery Life	3.5 years
Operating Temperature	-25 °C to +60 °C (-13 °F to +140 °F) (outdoor)
Operating Humidity	10 % to 90 % (RH)
Product Dimensions	263 mm × 106 mm × 94 mm (10.35" × 4.17" × 3.70") (L × W × H)
Package Dimensions	297 mm × 146 mm × 120 mm (11.69" × 5.75" × 4.72") (L × W × H)
Weight (net)	763 g (1.96 lb)
Weight (gross)	1 060 g (2.34 lb)
Installation	Wall mount, corner mount, pole mount
Recommended Installation Height	0.8 to 1.3 m
Housing Material	PC + GF
Degree of Protection	IP65
Compatibility	Hub 2 Plus LTE SAFE 38300
Compliance	CE EN 50131-1:2006+A1:2009+A2:2017+A3:2020 EN 50131-6:2017+A1:2021 EN 50131-5-3:2017 EN 50131-2-4:2020 Security Grade 2 Environmental Class IV
Warranty	36 months

Detection Parameters



Verification of the Monitored Area

Motion Cam Outdoor is a premium outdoor wireless dual PIR motion detector that also features a microwave sensor and an integrated 1.3-megapixel HD camera. This camera enables instant photo verification of an alarm and can capture sequences of images on demand at resolutions up to 1280 × 960 pixels. The device uses modern RF-HD technology at 2.4 GHz and communicates via the SAFE Keeper protocol, ensuring fast and secure data transfer. To provide the highest level of security, all transmitted information is thoroughly encrypted. Thanks to this advanced technology, captured images are delivered instantly and securely to your mobile phone or central security console (PCO), enabling rapid and accurate identification of the alarm cause and ensuring maximum protection.

Maximum Privacy Protection

Motion Cam Outdoor can capture the current situation within seconds through a sequence of images, reliably eliminating uncertainty during an alarm event while ensuring maximum privacy protection. This detector is ideal for outdoor environments where perimeter security requires verification of alarm situations and where the installation of conventional cameras is either unsuitable or undesirable.

Wireless Communication of the SAFE Keeper Protocol

SAFE Keeper is a radio protocol designed for the SAFE wireless security system. It operates at a frequency of 868.0-868.6 MHz and provides an interference-free communication range of over 2,000 m in open areas. Protected by AES128 encryption and a bi-directional communication mechanism, it ensures enhanced security for the transmitted data. In case of radio signal interference, the user is notified and the device automatically switches to a clear frequency band. The device is reliably protected against software-level threats. SAFE Keeper delivers the maximum and effective protection of the wireless security system.

