

MOTION CAM

PIR DETECTOR WITH PHOTO CAMERA



Motion Cam is a wireless dual PIR motion detector with an integrated photo camera that, when requested or when a motion alarm is triggered, captures a sequence of images to verify the event. It can detect motion up to 12 meters and reliably ignores the movement of animals within the monitored zone weighing up to 18 kg and up to 50 cm in height.



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 18 kg and measuring up to 50 cm in height.



Motion Detection Range up to 12 m

The microwave sensor detects motion at distances of up to 12 meters.



Integrated Camera

Integrated 2-megapixel HD camera that enables photo verification of the alarm, capturing a sequence of images on demand at resolutions up to 1600 × 1200 pixels.



Firmware Update via Cloud Services

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



Up to 20 Photos after Motion Alarm

The captured images are instantly and securely transmitted directly to your phone or to the central control panel (PCO).



Smart IR Illuminator with Automatic Adjustment

This PIR detector has a smart IR illuminator and can respond to a person's first steps based on infrared analysis.



Protection against Radio Signal Interference

If signal interference is detected, the user is alerted, and the device automatically switches to a clear frequency band.



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

Model Identification

SAFE 38450	White EAN code - 0728204234839
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Interface

Indication	1× green LED
Button	1× power button

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

Video

Field of View	88° (H), 68° (V)
Image Type	JPEG
Resolution	1600 x 1200; 1280 x 960; 640 x 480; 320 x 240
Frame Rate	2
Illumination	Infrared; range up to 12 m (39.37 ft)
Day/Night Mode	Automatic; color (day) / black and white (night)

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 300 m (984.25 ft) in open space
Encryption Mode	AES128
Frequency Hopping	Yes (automatic)

Detection Parameters

Detection Mode	Motion
Sensor	Dual element low noise PIR sensor
Detection Range	12 m (39.37 ft) (90°) at an installation height of 2.2 m (7.21 ft)
Detected Object Speed	0.3 m/s – 3 m/s (0.98 ft/s – 9.84 ft/s)
Ignoring Animal Movement	≤18 kg (39.68 lb)
White Light Immunity Level	2000 lx
Bidirectional Digital Temperature Compensation	Yes
Sensitivity	Adjustable

Maximum Privacy Protection

Motion Cam can capture the current situation within seconds through a sequence of images, reliably ensuring complete clarity during alarm events while fully respecting user privacy. This detector is an ideal solution for indoor areas where alarm incidents must be verified and where installing conventional cameras is not suitable or desirable for any reason.

Effective in Case of any Incident

With just a few simple clicks, the device can capture a sequence of photos on demand from the ProSAFE mobile app, regardless of the security mode. The detector can also operate fully automatically—taking a series of photos not only when motion is detected, but also when an alarm is triggered in connection with another event, such as a fire or flood. This ensures you always have a visual record of the situation without the need for manual intervention.

Digital Intelligent Motion Detection Algorithm

Motion Cam 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 curtains, pets, or temperature fluctuations. Through advanced infrared analysis, it accurately determines whether the detected movement is relevant and adapts to environmental conditions such as temperature changes, lighting, or humidity. This adaptability ensures reliable performance even in challenging situations. Additionally, digital processing allows rapid motion assessment and immediate alarm activation.



Technical Specifications - Motion Cam

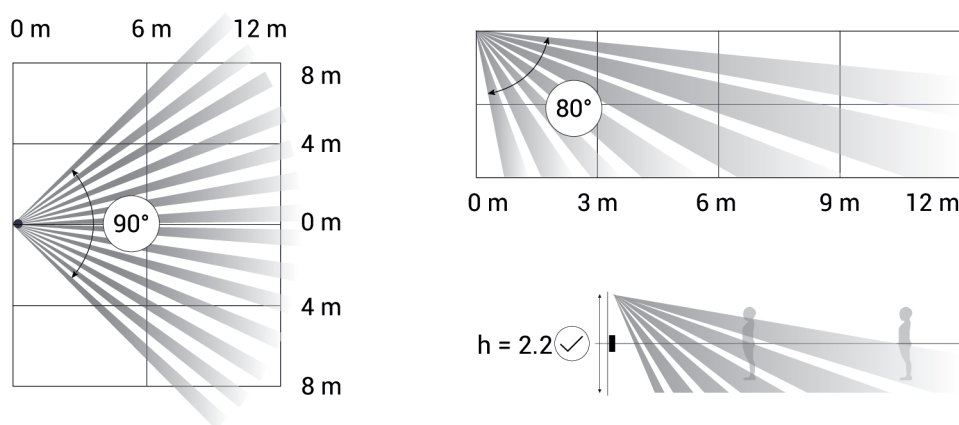
Temperature Parameters

Measuring Range	-15 °C to +65 °C (+18.8 °F to +149 °F) (indoors)
Measurement Accuracy	±1 °C (± 33.8 °F)
Resolution	1 °C (33.8 °F)

General

Power Supply	3× CR123A batteries
Current Consumption	Operating: 65 µA Alarm: Day - 170 mA (avg.); 800 mA (max.), Night - 230 mA (avg.); 2.8 A (max.)
Battery Life	4 years
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F) (indoors)
Operating Humidity	10 % to 90 % (RH)
Storage Conditions	Temperature: -10 °C to +55 °C (+14 °F to +131 °F) Humidity: 10% to 90% (RH)
Product Dimensions	71.0 mm × 53.2 mm × 127.6 mm (2.80" × 2.09" × 5.02") (L × W × H)
Package Dimensions	121 mm × 65 mm × 170 mm (4.76" × 2.56" × 6.69") (L × W × H)
Weight (net)	202 g (0.45 lb)
Weight (gross)	333 g (0.73 lb)
Installation	Wall mount, corner mount
Recommended Installation Height	2 to 2.4 m
Housing Material	PC + ABS
Compatibility	Hub 2 Plus LTE SAFE 38300
Compliance	CE EN 50131-1:2006+A1:2009+A2:2017+A3:2020 EN 50131-5-3:2017 EN 50131-6:2017 EN 50130-4:2011+A1:2014 Security Grade 2 Environmental Class II
Warranty	36 months

Detection Parameters



Pets Under the Protection of a Bodyguard

We understand that audible alarms can cause significant stress for pets, and with this in mind, we designed motion detectors with pet-friendly technology. Thanks to advanced PET immunity, they easily distinguish between human and animal movement. While responding immediately to a person's first steps through infrared analysis, your pets can move freely and peacefully without triggering false alarms.

Unusual Temperature Alarm

Motion Cam features an integrated temperature sensor that not only provides an overview of current temperature conditions at the installation site but also alerts you when a preset temperature limit is exceeded—whether too high or too low. Once the temperature returns to the preset range, the user is notified that normal conditions have been restored. This function ensures an effective flow of information by monitoring the environment's temperature and detecting unusual changes that could indicate, for example, a fire or other hazardous situation.

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.

