



MOKO PIR Motion Sensor LW007-PIR

MOKO TECHNOLOGY LTD.



MOKO SMART

Product Introduction

The LW007-PIR is a passive infrared-based LoRaWAN PIR sensor used to detect motion or occupancy. It can detect whether there is movement within the detection range and send this status change via LoRaWAN network.

In addition, it also supports door status detection and temperature and humidity monitoring functions, making it can be widely used in office, housing, industrial building and other scenarios.



Features

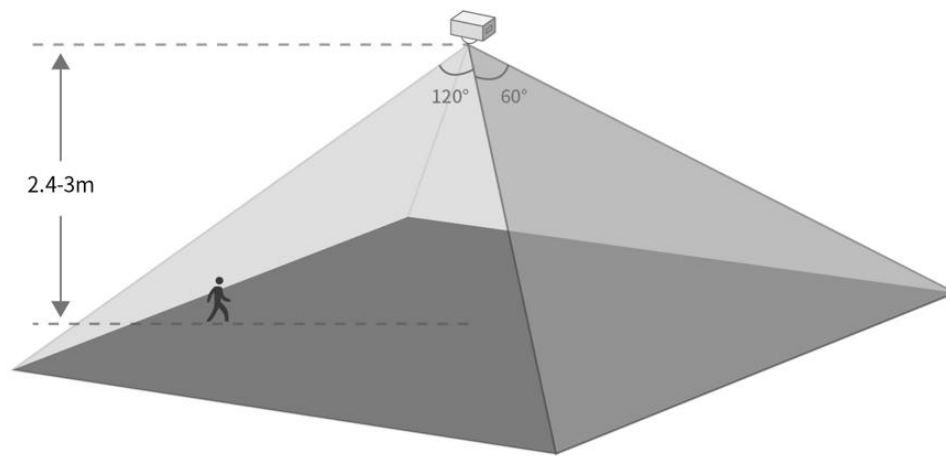


Occupancy or motion detection based on passive infrared and Fresnel Lens

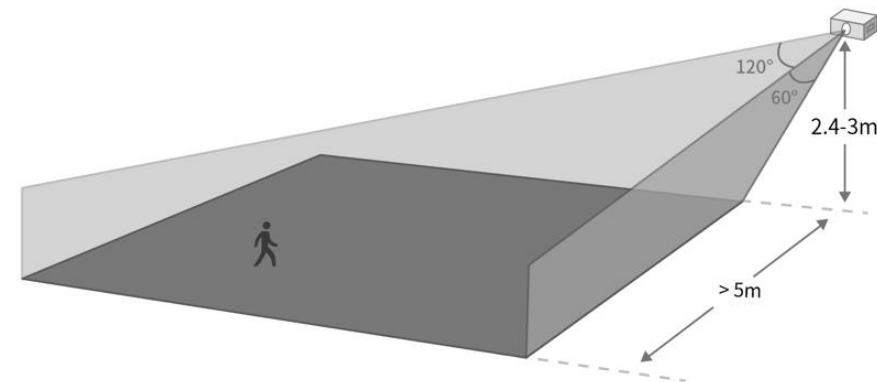
With the built-in PIR sensor and Fresnel lens, the occupancy and movement behavior of the monitoring area can be monitored.

Detection Range: Max. 8M

Detection angle: Horizontal 120°, vertical 60°



Ceiling installation type



Wall installation type

Features



Door status detection

LW007-PIR can be mounted on any doors to detect an opening or closing event, it will report these events to the server and implement security monitoring of the space.



High sensitive temperature & humidity Sensor

Built-in high-precision sensors and exterior ventilation holes design, can quickly and accurately sense temperature and humidity changes.



Temperature Accuracy: $\pm 0.3^{\circ}\text{C}$ (0°C - 60°C) & $\pm 0.5^{\circ}\text{C}$ (-20°C - 0°C) & $\pm 1^{\circ}\text{C}$ (-30°C - -20°C)

Humidity Accuracy: $\pm 3\%$ RH (10% RH - 90% RH) & $\pm 4.5\%$ RH - $\pm 3\%$ RH (0% RH - 10% RH) & $\pm 3\%$ RH - $\pm 3.8\%$ RH (90% RH - 95% RH)



Multiple temperature and humidity monitoring alarm functions



The product can set temperature threshold alarm, temperature over limit alarm, humidity threshold alarm, humidity over limit alarm and other functions, which can realize timely alert and notification of abnormal temperature and humidity in the monitoring area, so that customers can deal with abnormal situations in a more timely manner.

Features

Ultra low power consumption

Built-in 5200mAH lithium sub-battery, up to five years of endurance on typical scenarios.

When the device battery is too low, the device will send a message to the server to remind the user to replace the battery in time.

Meet testing standards for various certifications

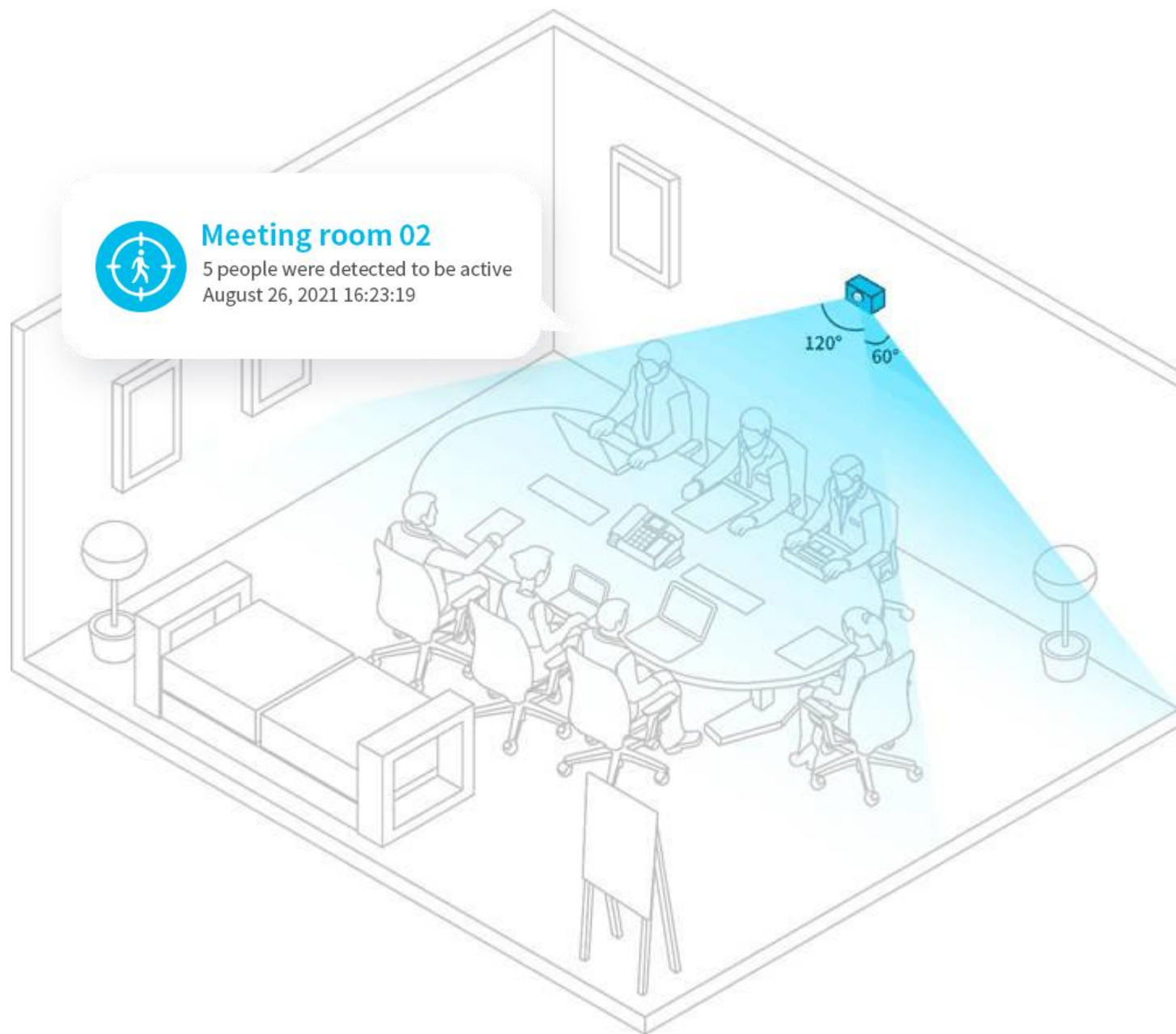
CE (Pending): EN300328 EN301489 EN300220 EN62479 EN62368

FCC (Pending): FCC part15C

TELEC: Article2 Paragraph 1, item 19/ARIB STD T-66 Ver.3.7(2014)

Battery: IEC 62133 UN38.3 MSDS

Applications



Scenario 1

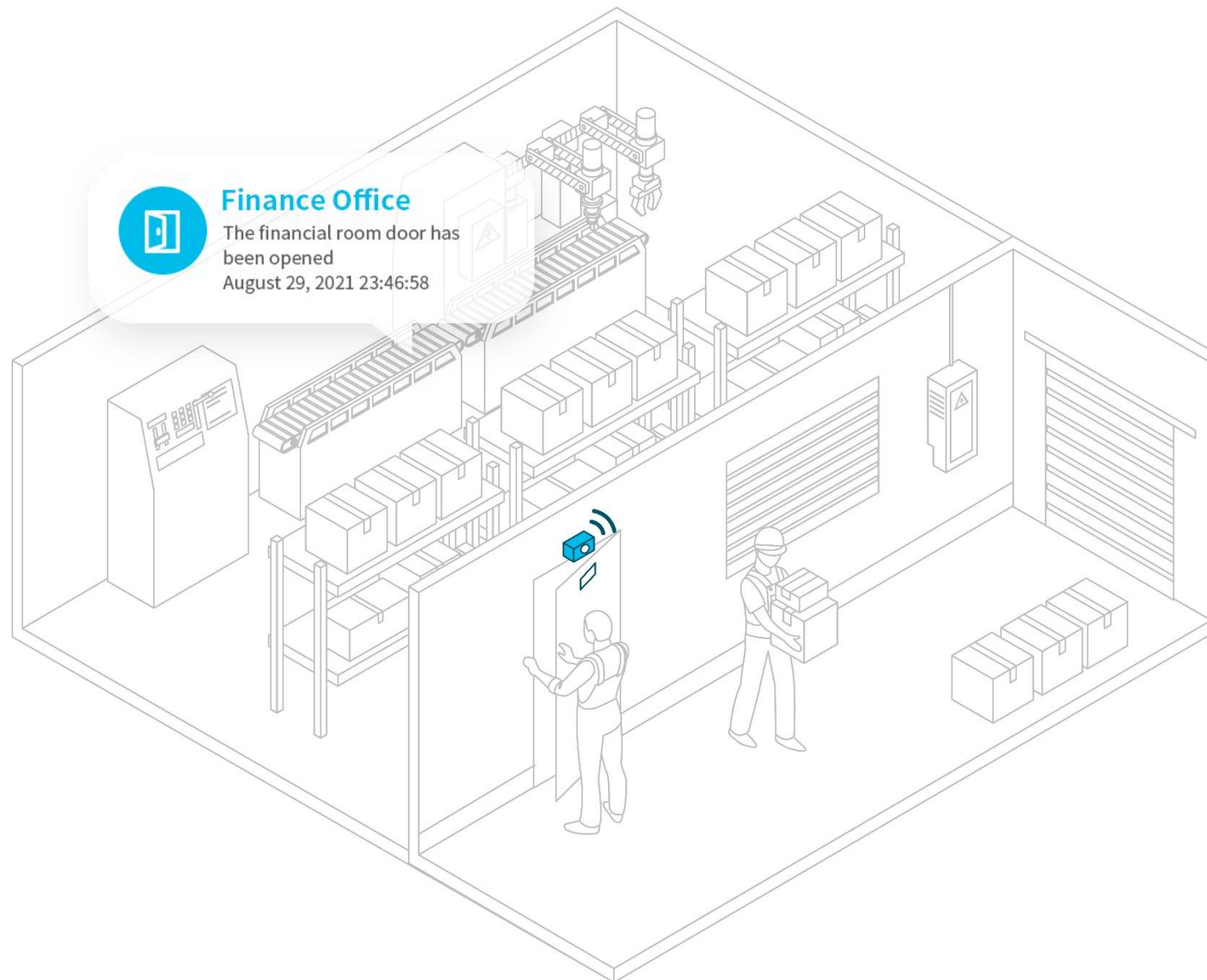
Smart Office

Through the LW007-PIR, user can detect the occupancy of a conference room or other purpose-built space, so that space resources can be arranged in a rational manner. The LW007-PIR can also be used to monitor the current ambient temperature and humidity.

Applicable function:

Occupancy detection;
Temperature and humidity

Applications



Scenario 2

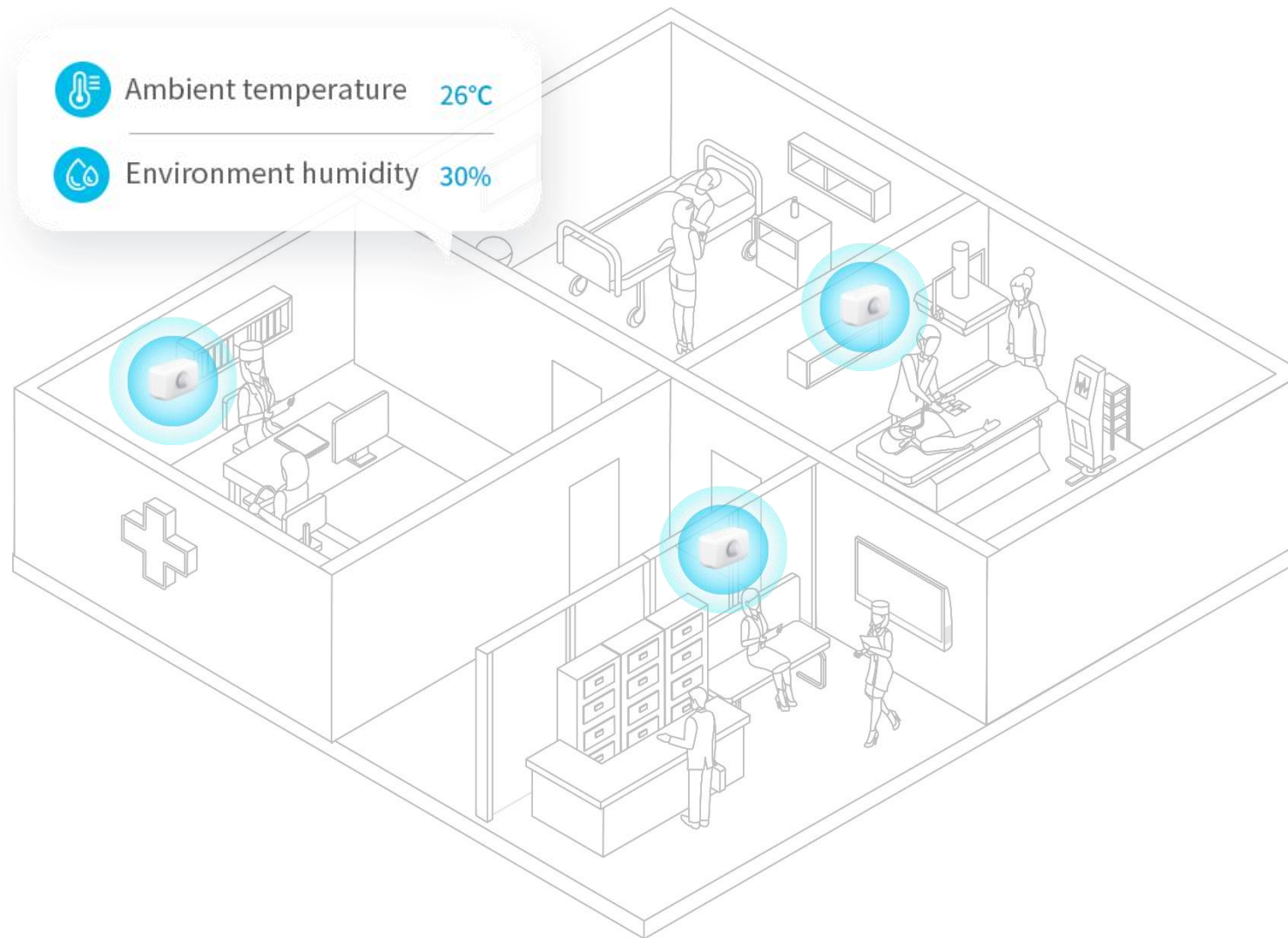
Intelligent Factory

Users can use the LW007-PIR to detect whether someone is on inspection or duty at the corresponding location at the corresponding time to ensure the safety of assets and equipment and production. The device will report the notification to the server, according to which the user can judge the duty situation and the inspection situation and make the corresponding management scheduling.

Applicable function:

Occupancy detection;
Door status detection

Applications



Scenario 3

Environmental Monitoring

LW007-PIR can realize temperature and humidity monitoring of the environment, and when the temperature (humidity) changes too fast or the temperature (humidity) exceeds the set threshold, alarm information will be issued to realize intelligent monitoring of the environment. It can be mainly applied to computer room/library storage room/document room/hospital ward and other scenarios.

Applicable function:

Temperature and humidity monitoring;
Occupancy detection

Main Specification

LoRaWAN

LoRaWAN V1.03

7km communication distance
(in urban open space)

Battery

2*AA ER14505 5200mAh
Replaceable battery

Material

ABS + PC

Dimensions

70mm*50mm*38mm

Operating Environment

Temperature: -30°C~60°C
Humidity: 0%~95%

Color

White

Installation Ways

Double-sided tape/Screws

Certification (pending)

USA: FCC
Europe: CE
The certifications are on the process,
other certifications can be customized



Customized Service

Based on MOKO standard product

- You can develop your own mobile APP, MOKO provides Android and iOS APP SDK for you to reduce your development time
 - Provides white label service, support customized label and package, also can print your company logo on the products
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Based on MOKO standard hardware

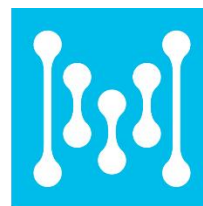
- Support firmware and APP modification according to customer's requirements
 - Support light customization on MOKO standard hardware
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New product design

If MOKO standard products don't meet your requirements, MOKO supports the design of new products for you, including:

- Hardware design
- Software development
- Mechanical design

More details about the customized services, please contact our technical team: support_lora@mokotechnology.com



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