DS-PDD12P-EG2-WB(B)&WE(B)
Wireless Dual Technology Detector

HIKVISION

For DS-PDD12P-EG2-WE(B):
EN 50131-1:2006 + A1:2009 + A2:2017 + A3:2020
EN 50131-2-4:2020
EN 50131-5-3:2017
EN 50131-6:2017+A1:2021

Security Grade 2
Environmental Class II

telefication

About this Document
● This Document includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only.
● The information contained in the Document is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of the Document at the Hikvision website (***https://www.hikvision.com***). Unless otherwise agreed, Hangzhou Hikvision Digital Technology Co., Ltd. or its affiliates (hereinafter referred to as "Hikvision") makes no warranties, express or implied.
● Please use the Document with the guidance and assistance of professionals trained in supporting the Product.
About this Product
This product can only enjoy the after-sales service support in the country or region where the purchase is made.
Acknowledgment of Intellectual Property Rights
● Hikvision owns the copyrights and/or patents related to the technology embodied in the Products described in this Document, which may include licenses obtained from third parties.
● Any part of the Document, including text, pictures, graphics, etc., belongs to Hikvision. No part of this Document may be excerpted, copied, translated, or modified in whole or in part by any means without written permission.
● HIKVISION and other Hikvision's trademarks and logos are the properties of Hikvision in various jurisdictions.
● Other trademarks and logos mentioned are the properties of their respective owners.
LEGAL DISCLAIMER
● TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THIS DOCUMENT AND THE PRODUCT DESCRIBED, WITH ITS HARDWARE, SOFTWARE AND FIRMWARE, ARE PROVIDED "AS IS" AND "WITH ALL FAULTS AND ERRORS". HIKVISION MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE. THE USE OF THE PRODUCT BY YOU IS AT YOUR OWN RISK. IN NO EVENT WILL HIKVISION BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES, INCLUDING, AMONG OTHERS, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, OR LOSS OF DATA, CORRUPTION OF SYSTEMS, OR LOSS OF DOCUMENTATION, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), PRODUCT LIABILITY, OR OTHERWISE, IN CONNECTION WITH THE USE OF THE PRODUCT, EVEN IF HIKVISION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSS.
● YOU ACKNOWLEDGE THAT THE NATURE OF THE INTERNET PROVIDES FOR INHERENT SECURITY RISKS, AND HIKVISION SHALL NOT TAKE ANY RESPONSIBILITIES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBER-ATTACK, HACKER ATTACK, VIRUS INFECTION, OR OTHER INTERNET SECURITY RISKS; HOWEVER, HIKVISION WILL PROVIDE TIMELY TECHNICAL SUPPORT IF REQUIRED.
● YOU AGREE TO USE THIS PRODUCT IN COMPLIANCE WITH ALL APPLICABLE LAWS, AND YOU ARE SOLELY RESPONSIBLE FOR ENSURING THAT YOUR USE CONFORMS TO THE APPLICABLE LAW. ESPECIALLY, YOU ARE RESPONSIBLE, FOR USING THIS PRODUCT IN A MANNER THAT DOES NOT INFRINGE ON THE RIGHTS OF THIRD PARTIES, INCLUDING WITHOUT LIMITATION, RIGHTS OF PUBLICITY, INTELLECTUAL PROPERTY RIGHTS, OR DATA PROTECTION AND OTHER PRIVACY RIGHTS. YOU SHALL NOT USE THIS PRODUCT FOR ANY PROHIBITED END-USES, INCLUDING THE DEVELOPMENT OR PRODUCTION OF WEAPONS OF MASS DESTRUCTION, THE DEVELOPMENT OR PRODUCTION OF CHEMICAL OR BIOLOGICAL WEAPONS, ANY ACTIVITIES IN THE CONTEXT RELATED TO ANY NUCLEAR EXPLOSIVE OR UNSAFE NUCLEAR FUEL-CYCLE, OR IN SUPPORT OF HUMAN RIGHTS ABUSES.
● IN THE EVENT OF ANY CONFLICTS BETWEEN THIS DOCUMENT AND THE APPLICABLE LAW, THE LATTER PREVAILS.
© Hangzhou Hikvision Digital Technology Co., Ltd. All rights reserved.

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, RE Directive 2014/53/EU, the RoHS Directive 2011/65/EU.

2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info

Replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of some lithium battery types);
– disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;
– leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas; and
– a battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas

Regulation (EU) 2023/1542(Battery Regulation): This product contains a battery and it is in conformity with the Regulation (EU) 2023/1542. The battery cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), or lead (Pb). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.
According to the Batteries and Accumulators (Placing on the Market) Regulations 2008 and the Waste Batteries and Accumulators Regulations 2009: This product contains a battery that cannot be disposed of as unsorted municipal waste in the United Kingdom. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

1 Appearance

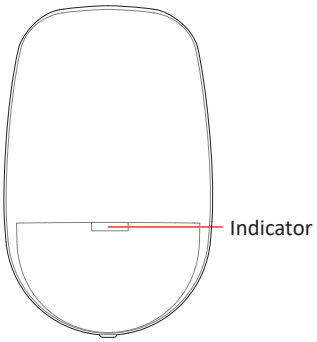
CAUTION

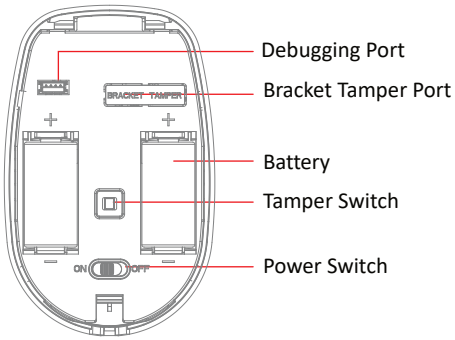
IF THE BATTERY COMPARTMENT DOES NOT CLOSE SECURETLY, STOP USING THE PRODUCT AND KEEP IT AWAY FROM CHILDREN.

CAUTION

CHEMICAL BURNING DANGER
DO NOT SWALLOW THE BATTERY
KEEP NEW AND USED BATTERIES AWAY FROM THE CHILDREN.

IF YOU THINK BATTERIES MIGHT HAVE BEEN SWALLOWED OR PLACED INSIDE ANY PART OF THE BODY, SEEK IMMEDIATE MEDICAL ATTENTION.





CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
REPLACEMENT OF A BATTERY WITH AN INCORRECT TYPE THAT CAN DEFEAT A SAFEGUARD.

CAUTION

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS AND LOCAL REGULATION.

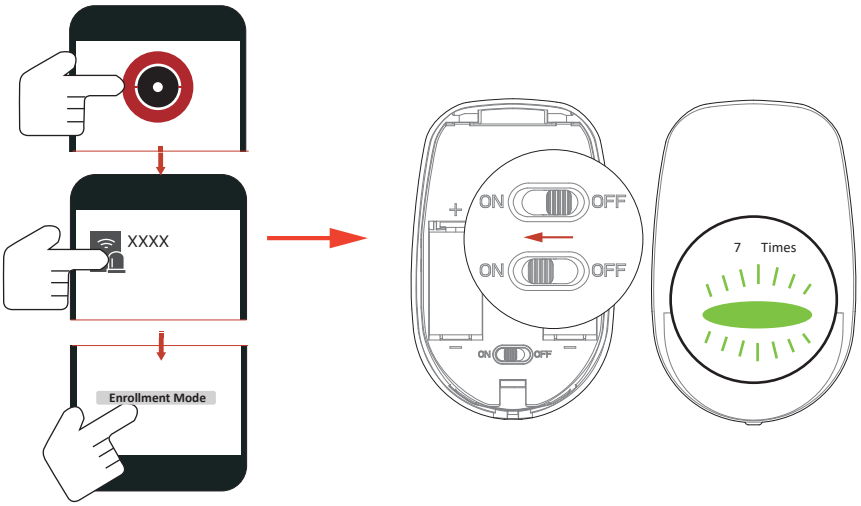
2 Enrollment

Note: The enrollment progress will be completed in 3 to 10 seconds normally, and the maximum enrollment duration is 3 minutes.

1. Log in to the APP Store, download and install Hik-Pro.
2. Power on the security control panel.
3. Log in the APP and tap the icon "+" . Scan the QR code or input the control panel serial No. to add the control panel.

❶ Enroll the Peripheral Locally

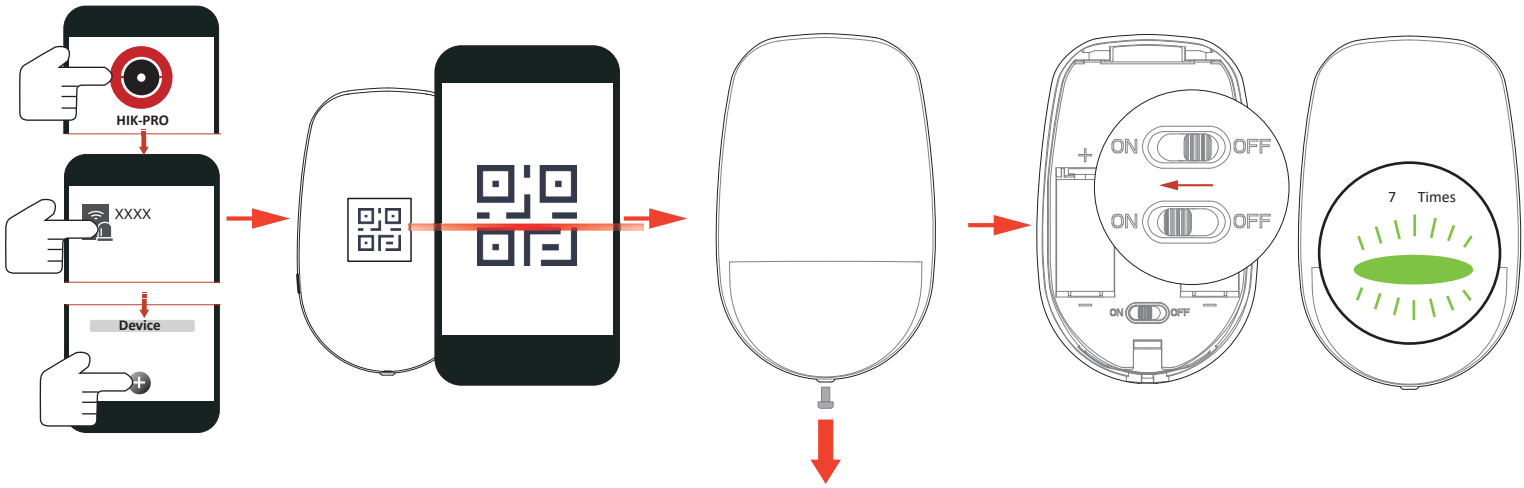
1. In the APP, tap the "Enrollment Mode" button on the control panel page to make the control panel enter the enrollment status.
2. Loosen the screw and remove rear panel.
3. Power on the peripheral, and it will be automatically enrolled to the control panel.



Hangzhou Hikvision Digital Technology CO.,Ltd. No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China

❷ Enroll the Peripheral with QR and serial No.

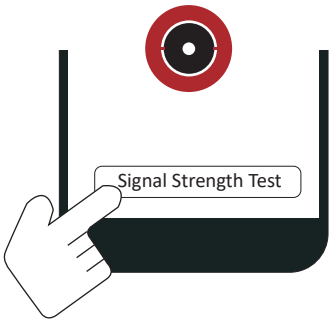
1. In the APP, tap the icon "+"and scan the QR code or serial No. on the peripheral.
2. Loosen the screw and remove rear panel.
3. Power on the peripheral, and it will be automatically enrolled to the control panel.

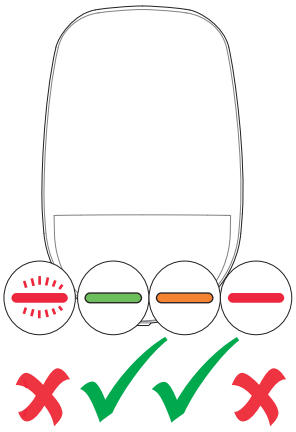


Note: Hold the tamper button, and make the device power off and then power on for re-enrollment.

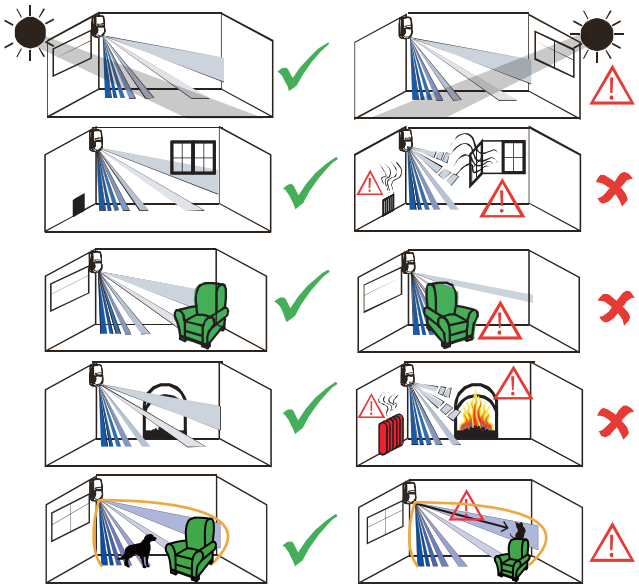
3 Installation

1. Check Signal Strength
Enter the signal checking mode by operating on the control panel. Trigger the detector.
Solid Green for 3 s - Strong Signal
Solid Orange for 3 s - Medium Signal
Solid Red for 3 s - Weak Signal
Red light flashes for 3S - Failure





2. Check the installation environment



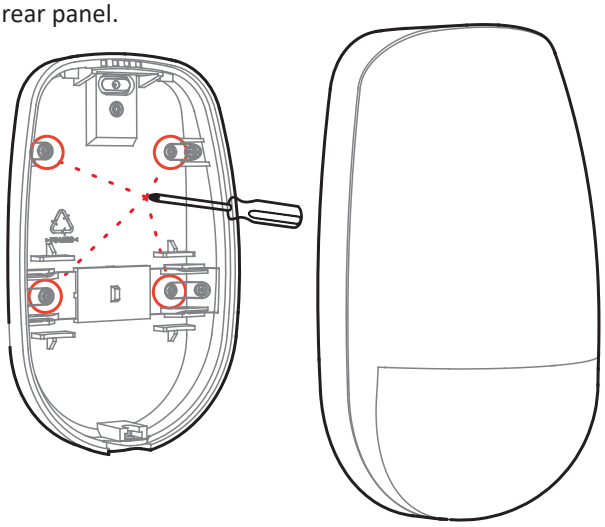
Hangzhou Hikvision Digital Technology CO.,Ltd. No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China

3. Install the Detector

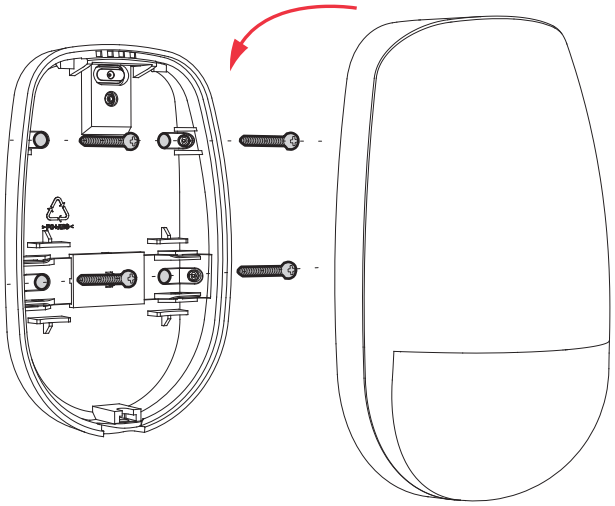
Note: The additional force shall be equal to three times the weight of the equipment but not less than 50N. The equipment and its associated mounting means shall remain secure during the installation. After the installation, the equipment, including
any associated mounting plate, shall not be damaged.

with Screws

a. Knock out the screw holes on the rear panel.

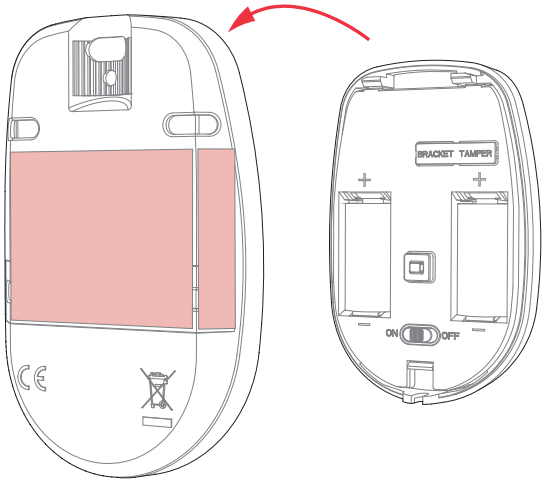


b. Secure the rear panel on the wall with four screws.



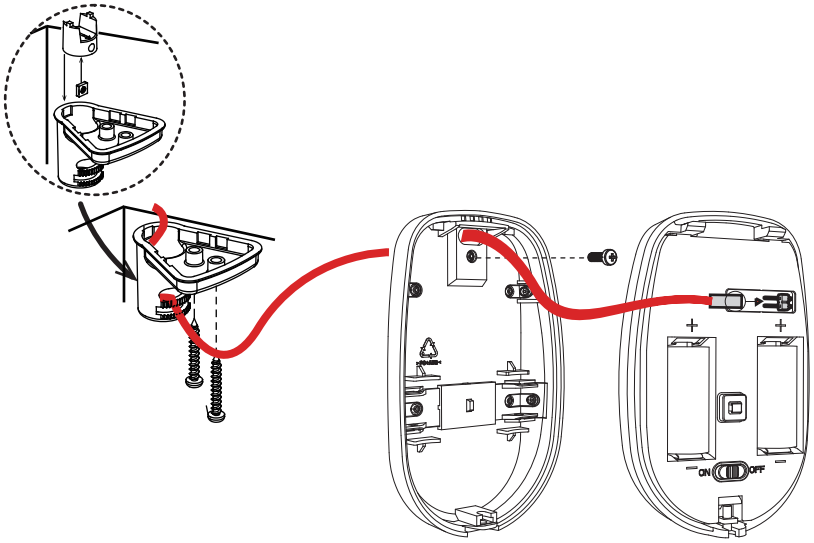
with the Sponge Tape

Paste the device on the wall with sponge tape.

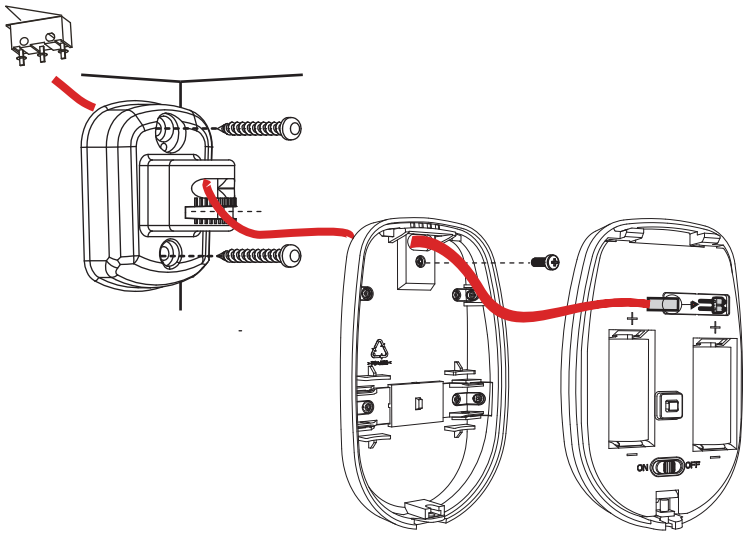


Bracket Installation

Ceiling Bracket Fitting (Non EN compliant)



Wall Bracket Fitting

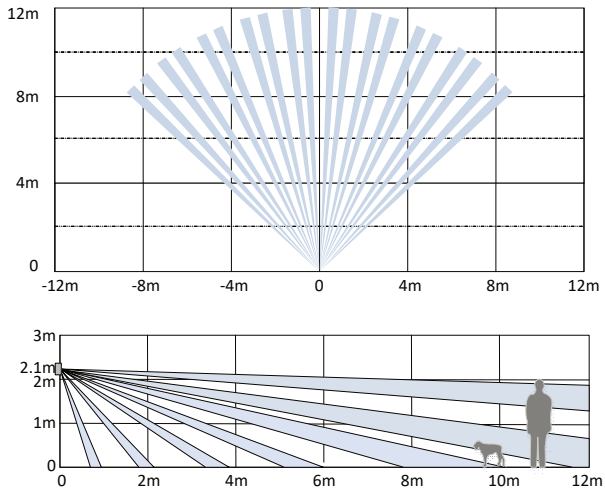


4 Test

Detector zones and planes

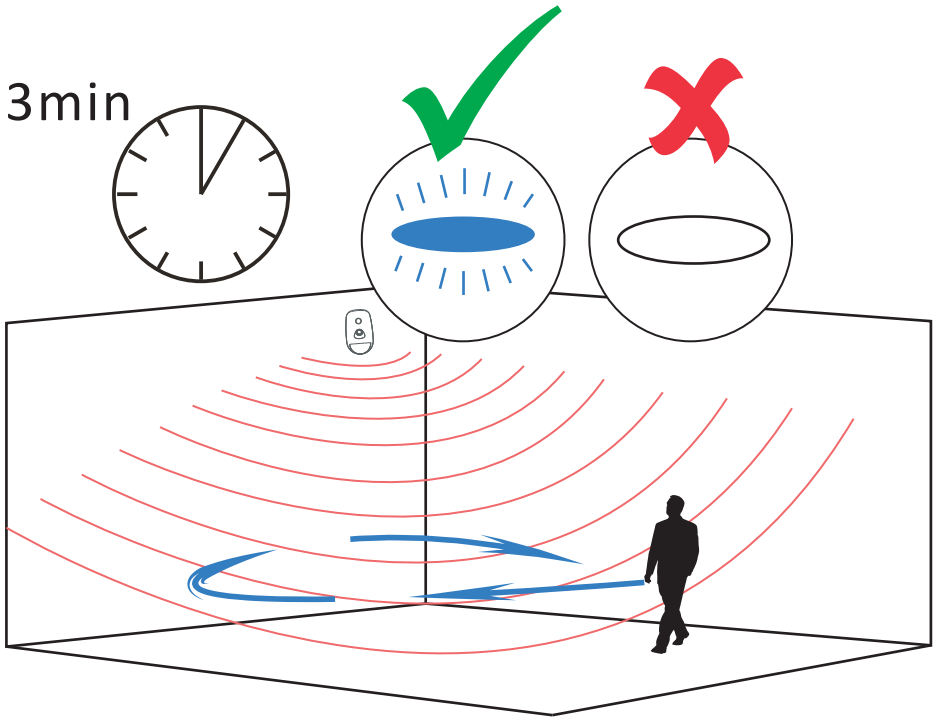
The zones and plans of the PIRCAM are shown below.

12m X 90° PATTERN



Detection Range	FoV 90° 84 Zones 7 Levels
Mounting Height	1.8 to 2.4 m (typical 2.1 m)
Pet Immunity	30 kg

The detector will enter the walk test mode (3 minutes) after being enrolled.
Trigger the detector within the detection range.
If the LED indicator turns blue, the installation position is properly. If the LED indicator is still off, adjust the position of the detector.



5 Formatting

Hold the tamper switch for 8 s and power the device on at the same time. The red LED flashes 3 times when the formatting operation is completed.

6 Operation Caution and Device Maintenance

- All the electronic operation should be strictly compliance with the electrical safety regulations, fire prevention regulations and other related regulations in your local region.
- Do not drop the device or subject it to physical shock, and do not expose it to high electromagnetism radiation. Avoid the equipment installation on vibrations surface or places subject to shock (ignorance can cause equipment damage).
- Please make sure that the power has been disconnected before you wire, install or dismantle the device.
- If smoke, odors or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.
- Do not drop the device or subject it to physical shock, and do not expose it to high electromagnetism radiation. Avoid the equipment installation on vibrations surface or places subject to shock (ignorance can cause equipment damage).
- Do not place the device in extremely hot (refer to the specification of the device for the detailed operation temperature), cold, dusty or damp locations, and do not expose it to high electromagnetic radiation.
- The device for indoor use shall be kept from rain and moisture.
Exposing the equipment to direct sun light, low ventilation or heat source such as heater or radiator is forbidden (ignorance can cause fire danger).
- Do not aim the device at the sun or extra bright places. A blooming or smear may occur otherwise (which is not a malfunction however), and affecting the endurance of sensor at the same time.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.
- Do not expose the device to the corrosive gas. Otherwise the equipment damage may occur.
- Do not expose the device to the explosive situation.

7 Specification

Model	DS-PDD12P-EG2-WE(B)	DS-PDD12P-EG2-WB(B)
Detection performance		
Detection method	Passive Infrared, microwave	
Detection range	12 m	
Detection angle	90°	
Detection zones	84	
Detectable speed	0.3 to 2 m/s	
Sensitivity	High, normal, low	
Pet immunity	30 kg	
White light filter	6500 lux	
Microwave frequency	24 Ghz (24.15 to 24.25 GHz)	
Digital temperature compensation	Support	
Creep zone protection	Support	
Feature		
Digital processing	Support	
Sealed optics	Support	
Tamper protection	Front, rear	
Environment temperature indicator	Support	
Signal strength indicator	Support	
Interface		
Power switch	Power up enrolling	
LED indicator	Green (PIR), red (microwave), blue (alarm)	
Transmission		
Transmission technology	Tri-X wireless	
Transmission method	Two-way RF wireless	
Transmission frequency	868 MHz	433 MHz
Transmission security	AES-128 encryption	
Transmission range (free space)	1600 m (open area)	1200 m (open area)
Enrolling method	Power up, remote ID, QR code	
Electrical characteristics		
Standard battery life	Up to 3 years (standby time)	
Power supply	Battery powered	
Battery type	CR123A × 2	
Typical voltage	3 V	
General		
Operation temperature	-10 °C to 55 °C (14 °F to 131 °F)	
Storage temperature	-20 °C to 60 °C (-4 °F to 140 °F)	
Operation humidity	10% to 90%	
Dimension (W × H × D)	65.5 mm × 103 mm × 48.5 mm	
Weight	141 g	
Mounting height	1.8 m to 2.4 m	
Mounting method	Wall mount	

Hangzhou Hikvision Digital Technology CO.,Ltd. No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China