



## dahua RD1233-W2 Wireless PIR Detector User Manual

[Home](#) » [Dahua](#) » dahua RD1233-W2 Wireless PIR Detector User Manual 

### Contents

- 1 dahua RD1233-W2 Wireless PIR Detector
- 2 Safety Instructions
- 3 Important Safeguards and Warnings
  - 3.1 Operating Requirements
  - 3.2 Power Requirements
- 4 Checklist
- 5 Design
- 6 Connecting to the Hub
- 7 Installation
- 8 PIR Configuration
- 9 Legal and Regulatory Information
  - 9.1 Regulatory Information
  - 9.2 USA Regulatory Compliance
  - 9.3 RF exposure warning
  - 9.4 RF exposure warning
  - 9.5 Japan Regulatory Compliance
- 10 Safety
  - 10.1 Disposal and Recycling
- 11 Support
- 12 Contact Information
- 13 Important Safeguards and Warnings
  - 13.1 Safety Requirement
- 14 Documents / Resources
- 15 Related Posts

**dahua RD1233-W2 Wireless PIR Detector**





**Foreword**

**General**

This manual introduces the functions and operations of the wireless PIR detector (hereinafter referred to as “the PIR”).

**Safety Instructions**

The following categorized signal words with defined meaning might appear in the manual.

Signal Words	Meaning
 <b>CAUTION</b>	Indicates a potential risk which, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.
 <b>NOTE</b>	Provides additional information as the emphasis and supplement to the text.

**About the Manual**

- The manual is for reference only. If there is inconsistency between the manual and the actual product, the

actual product shall prevail.

- We are not liable for any loss caused by the operations that do not comply with the manual.
- The manual would be updated according to the latest laws and regulations of related regions. For detailed information, see the paper manual, CD-ROM, QR code or our official website. If there is inconsistency between paper manual and the electronic version, the electronic version shall prevail.
- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the manual. Please contact the customer service for the latest program and supplementary documentation.
- There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, please refer to our final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and the company names in the manual are the properties of their respective owners.
- Please visit our website, contact the supplier or customer service if there is any problem occurred when using the device.
- If there is any uncertainty or controversy, please refer to our final explanation.

## **Important Safeguards and Warnings**

The following description is the correct application of the device. Read the manual carefully before use to prevent danger and property loss. Strictly conform to the manual during application and keep it properly after reading.

### **Operating Requirements**

- Do not install the device in a humid, dusty or fuliginous area.
- Keep its horizontal installation, or install it at stable places, and prevent it from falling.
- Do not drip or splash liquids onto the device; do not put on the device anything filled with liquids to prevent liquids from flowing into the device.
- Do not dismantle the device arbitrarily.
- Transport, use and store the device within allowed humidity and temperature range.
- Do not place the accessory in the places close to radio interference sources, such as metal objects.

### **Power Requirements**

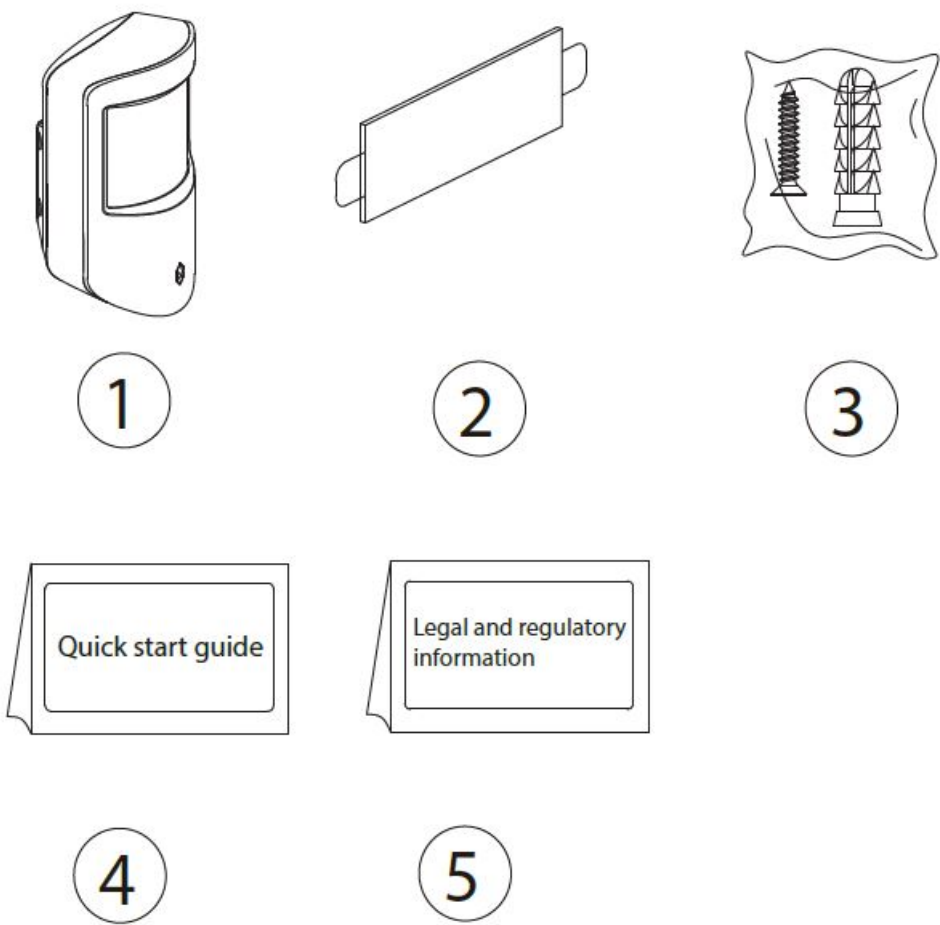
- Use batteries according to requirements; otherwise, it might result in fire, explosion or burning of batteries.
- To replace batteries, use the same type of batteries.
- Use power supply that meets SELV (safety extra low voltage) requirements, and supply power with rated voltage that conforms to Limited Power Source in IEC60950-1. For specific power supply requirements, refer to device labels.
- Products with category I structure shall be connected to grounded power socket.
- Appliance coupler is a disconnecting device. During normal use, please keep an angle that facilitates operation.
- Use the accessories regulated by the manufacturer. The device must be maintained by professionals.

## **Introduction**

Wireless PIR detector is a wireless motion detector designed for indoor use. It can detect a human moving within 12 m of the detector. It can be set up via the DMSS App for iOS and Android phones.

Checklist

Figure 2-1 Checklist

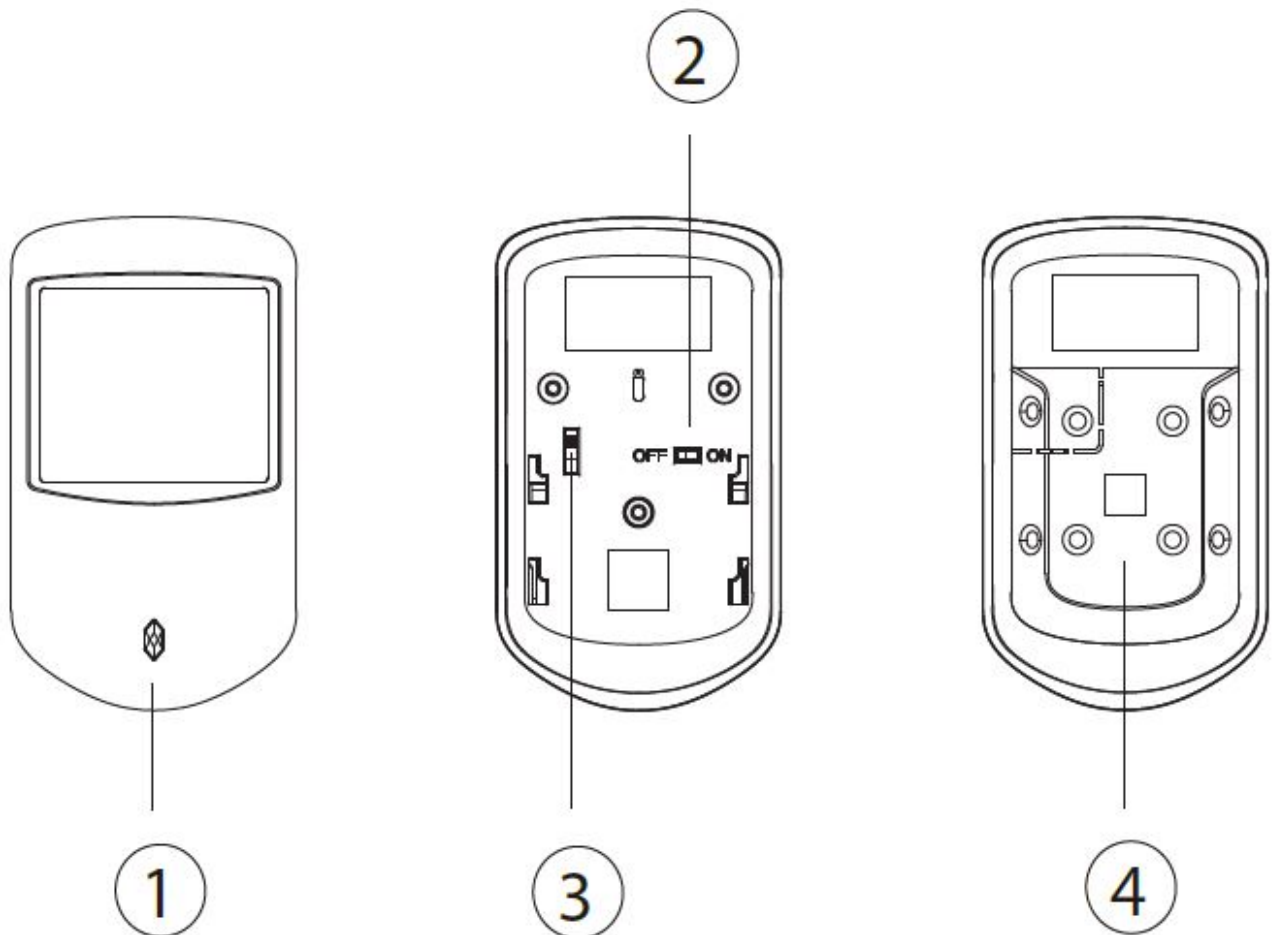


No.	Item Name	Quantity	No.	Item Name	Quantity
1	Wireless PIR detector	1	4	Quick start guide	1
2	Double-sided adhesive tape	1	5	Legal and regulatory information	1
3	Screw package	2	—	—	—

Design

Appearance

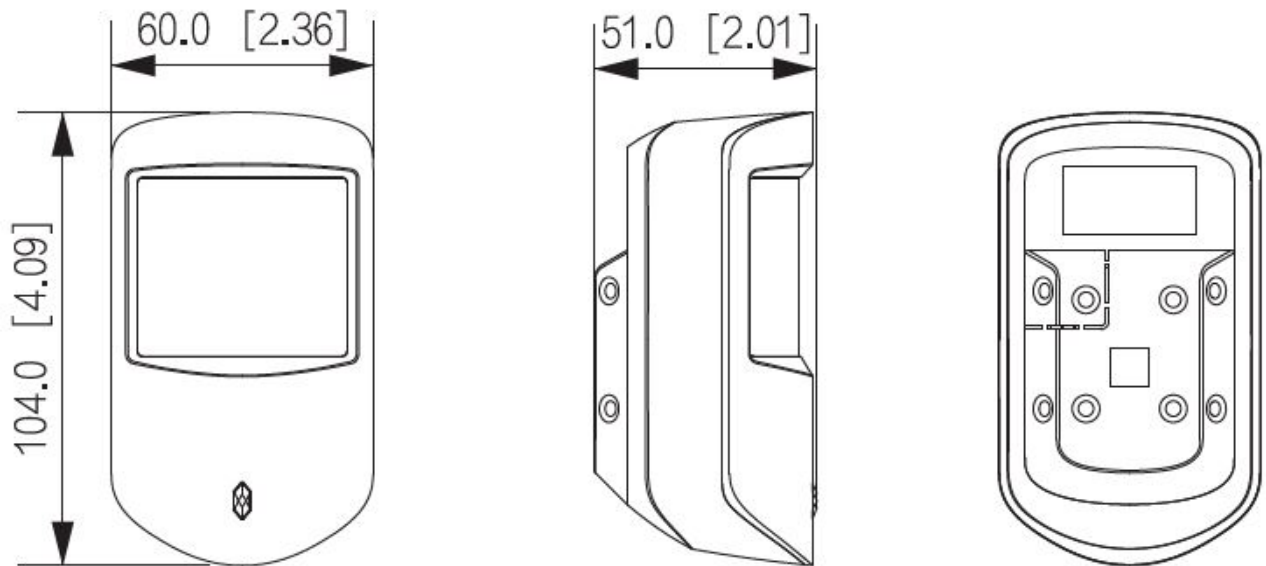
Figure 3-1 Appearance



No.	Name	Description
1	Indicator	<ul style="list-style-type: none"><li>● Flashes green quickly: Pairing mode.</li><li>● Solid green: Alarm event is triggered.</li></ul>
2	On/Off button	Turn on or turn off the detector.
3	Tamper button	The tamper mode of the accessory, which reacts to the detachment of the body.
4	Lid	<ul style="list-style-type: none"><li>● Normal status: Lid closed.</li><li>● Abnormal status: Lid open.</li></ul>

#### Dimensions

**Figure 3-2 Dimensions (mm[inch])**



## Connecting to the Hub

Prior to connection with the hub, install the DMSS App on your phone. Make sure that you have installed the latest version of the App. Interfaces and functions might vary with different added devices, and the actual interface shall prevail. This manual takes iOS as an example.

- Make sure that you have already created an account, and added hub to the application.
- Make sure that the hub has stable internet connection.
- Make sure that the hub is disarmed.

Step 1 Go to the hub interface, and then tap to add the detector.

Step 2 Tap to scan the QR code at the bottom of the PIR, and tap Next.

Step 3 Tap Next after the PIR has been found.

Step 4 Follow on-screen instructions and switch the PIR to on, and then tap Next.

Step 5 Wait for the pairing.

Step 6 Customized the name of the PIR and select the area, and then tap Completed.

## Installation

Prior to installation, connect the PIR to the hub and check the signal level at the installation location. We recommend installing PIR in a place with the signal strength of at least 2 bars

Figure 5-1 Installation items

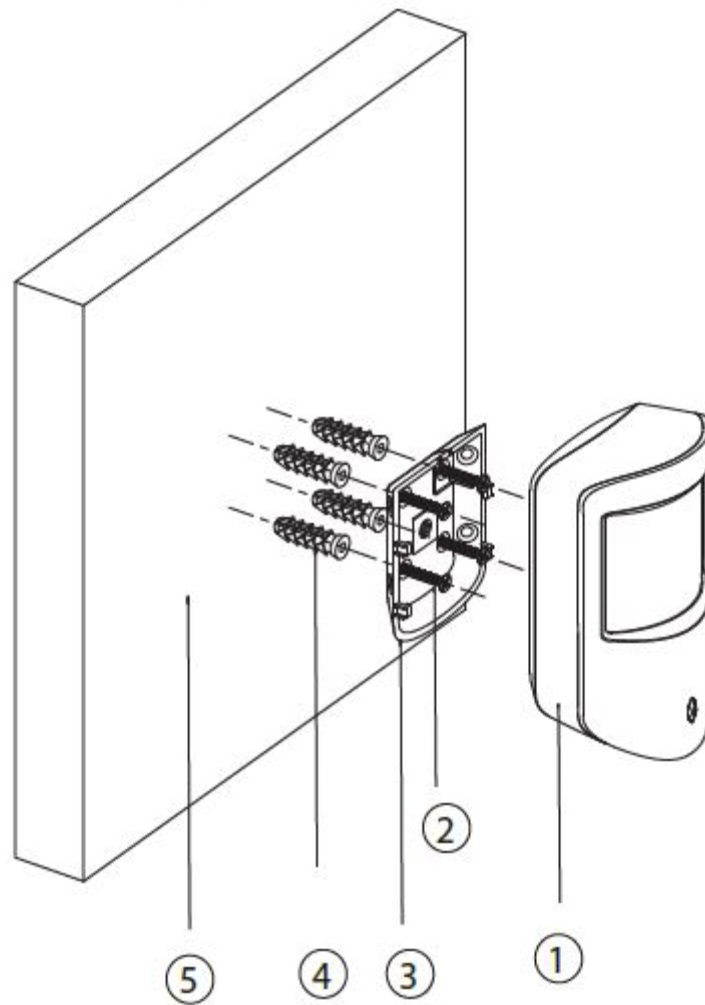


Table 5-1 Installation items

No.	Item name
1	PIR
2	ST3 × 18 mm self-tapping screw
3	Attachment panel
4	Expansion bolt
5	Wall

**Step 1** Drill 4 holes in wall according to the hole positions of the attachment panels.

**Step 2** Put the expansion bolts into the holes.

**Step 3** Align the screw holes on the plate with the expansion bolts.

**Step 4** Fix the attachment panels with ST3 × 18 mm self-tapping screws.

**Step 5** Put the PIR into the attachment panel from top to bottom.

## PIR Configuration

You can view and edit general information of the PIR.

### Configuring the PIR

On the Hub interface, select the PIR as needed from the accessory list, and then you can configure the parameters of the PIR.

**Table 6-1 PIR parameter description**

Parameter	Description
	<ul style="list-style-type: none"><li>● View device name, type, SN and device model.</li></ul> Device Configuration <ul style="list-style-type: none"><li>● Edit device name, and then tap <b>Save</b> to save configuration.</li></ul>
Area	Select the area to which the PIR is assigned.
24 H Protection Zone	The accessory located in the 24 h protection zone is always active whether the security system is configured in the armed mode or not.
Home Mode	Enable the home mode, and then the selected accessories under the hub will be armed.
Delay Mode under Home Mode	<p>Enable the <b>Delay Mode under Home Mode</b>, the selected accessory under the hub will be armed and the alarm will not be triggered until the end of customized delay time.</p> <p>Only enable <b>Home Mode</b> first can <b>Delay Mode under Home Mode</b> take effect.</p>

Delay Time	<ul style="list-style-type: none"> <li>● The system provides you with time to leave or enter the protection zone without alarm.</li> <li>● Select from 0 s to 120 s.</li> </ul> <p>The arming mode will be effective after the delay time.</p>
Sensitivity	<ul style="list-style-type: none"> <li>● Sensitivity level during a shock alarm.</li> <li>● Select from low, medium and high.</li> </ul>
Alarm-speaker Linkage	When an alarm is triggered, the accessories will report the alarm events to the hub and alert with siren.
Alarm-video Linkage	When an alarm is triggered, the accessories will report the alarm events to the hub and then will be linked with videos.

Parameter	Description
Video Channel	Select the video channel as needed.
Signal Strength Detection	Test the current signal strength.
Detector Test	Tap <b>Start Detection</b> to test the status of the detector.
Transmit Power	<ul style="list-style-type: none"> <li>● Select from high, low, and automatic.</li> <li>● The higher the transmission power, the farther the transmission and the higher power consuming.</li> </ul>
Cloud Update	Update online.
Delete the online accessory.  Delete Go to the <b>Hub</b> interface, select the accessory from the list, and then swipe left to delete it.	

## Viewing Status of the PIR

On the Hub interface, select the PIR as needed from the accessory list, and then tab to view the status of the PIR.

**Table 6-2 Status**

Parameter	Description
Temperature	The temperature of the environment.
Signal Strength	<p>The signal strength between the hub and the PIR.</p> <ul style="list-style-type: none"><li>● : Ultra low.</li><li>● : Low.</li><li>● : Moderate.</li><li>● : High.</li><li>● : No.</li></ul>
Battery Level	<p>The battery level of the PIR.</p> <ul style="list-style-type: none"><li>● : Fully charged.</li><li>● : Sufficient.</li><li>● : Moderate.</li><li>● : Insufficient.</li></ul>
Anti-tampering Status	Anti-tampering status of the PIR.
Online Status	<p>Online and offline status of the PIR.</p> <ul style="list-style-type: none"><li>● : Online.</li><li>● : Offline.</li></ul>
Entrance Delay Time	Entrance and exit delay time.
Exit Delay Time	
Sensitivity	Sensitivity level during a shock alarm.

24 H Protection Zone Status	<p>Active status of the 24 h protection zone.</p> <ul style="list-style-type: none"> <li>● : Enable.</li> <li>● : Disable.</li> </ul>
Program Version	The program version of PIR.

## Legal and Regulatory Information

### Legal Considerations

Video surveillance can be regulated by laws that vary from country to country. Check the laws in your local region before using this product for surveillance purposes.

### Disclaimer

Every care has been taken in the preparation of this document. Please inform your nearest Dahua office of any inaccuracies or omissions. Dahua Technology shall not be held responsible for any technical or typographical errors and reserves the right to make changes to the product and manuals without prior notice. Dahua Technology makes no warranty of any kind with regard to the material contained within this document, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Dahua Technology shall not be liable or responsible for incidental or consequential damages in connection with the furnishing, performance or use of this material. This product is only to be used for its intended purpose.

### Intellectual Property Rights

Dahua Technology retains all intellectual property rights relating to technology embodied in the product described in this document.

### Equipment Modifications

This equipment must be installed and used in strict accordance with the instructions given in the user documentation. This equipment contains no user-serviceable components. Unauthorized equipment changes or modifications will invalidate all applicable regulatory certifications and approvals.

### Trademark Acknowledgments

 ,  ,  ,  are registered trademarks or trademark applications of Dahua Technology in various jurisdictions. All other company names and products are trademarks or registered trademarks of their respective companies.

### Regulatory Information

#### European Directives Compliance

This product complies with the applicable CE marking directives and standards:

- Low Voltage (LVD) Directive 2014/35/EU.
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU.
- Restrictions of Hazardous Substances (RoHS) Directive 2011/65/EU and its amending Directive (EU) 2015/863.

A copy of the original declaration of conformity may be obtained from Dahua Technology.

The most up to date copy of the signed EU Declaration of Conformity (DoC) can be downloaded from:  
[www.dahuasecurity.com/support/notice/](http://www.dahuasecurity.com/support/notice/)

### **CE-Electromagnetic Compatibility (EMC)**

This digital equipment is compliant with Class A according to EN 55032.

**Warning:** This is a Class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.

### **CE-Safety**

This product complies with IEC/EN/UL 60950-1 or IEC/EN/UL 62368-1, Safety of Information Technology Equipment.

### **Declaration of Conformity CE**

(Only for the product has RF function)

Hereby, Dahua Technology declares that the radio equipment is compliant with Radio Equipment Directive (RED) 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

[www.dahuasecurity.com/support/notice/](http://www.dahuasecurity.com/support/notice/)

### **USA Regulatory Compliance**

#### **FCC**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

**Attention** that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC SDOC Statement can be downloaded from: <https://us.dahuasecurity.com/support/notices/>

### **RF exposure warning**

#### **(Only for the product has RF communication function)**

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

### **Canada Regulatory Compliance**

ICES-003

This Class A digital apparatus complies with Canadian ICES-003.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

#### **RF exposure warning**

(Only for the product has RF communication function)

This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

#### **Japan Regulatory Compliance**

#### **VCCI**

These products comply with the requirements of VCCI Class A Information Technology Equipment.

**CAUTION:** This is a Class A equipment. Operation of this equipment in a residential environment could cause radio interference. In such a case, the user may be required to take corrective actions.

#### **Batteries**

Correct disposal of batteries in this product



This marking on the battery indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in Directive 2006/66/EC and its amending Directive 2013/56/EU. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

#### **CAUTION:**

- Do not ingest battery. Chemical Burn Hazard.
- This product contains a coin cell battery. If the coin cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
- Keep new and used batteries away from children.
- If the battery compartment does not close securely, stop using the product and keep it away from children.
- If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.
- Risk of explosion if the battery is replaced by an incorrect type.
- Do not throw or immerse into water, heat to more than 100°C(212°F), repair or disassemble, leave in an extremely low air pressure environment or extremely high-temperature environment, crush, puncture, cut or incinerate.
- Dispose of the battery as required by local ordinances or regulations.

## Safety

The product complies with IEC/EN/UL 60950-1, Information Technology Equipment – Safety – Part 1: General Requirements; or complies with IEC/EN/UL 62368-1, Audio/video, information and communication technology equipment – Part 1: Safety requirements.

If the power supply to the product is from external power adaptor without connecting to AC Mains, and the product is not shipped with power adaptor, customers are required to use the external power adaptor that must fulfill the requirements for Safety Extra Low Voltage (SELV) and Limited Power Source (LPS).

## Waste Electrical and Electronic Equipment (WEEE) statements

### Disposal and Recycling

When this product has reached the end of its useful life, dispose of it according to local laws and regulations. For information about your nearest designated collection point, contact your local authority responsible for waste disposal. In accordance with local legislation, penalties may be applicable for incorrect disposal of this waste.



This symbol means that the product shall not be disposed of together with household or commercial waste. Directive 2012/19/EU on waste electrical and electronic equipment (WEEE) is applicable in the European Union member states. To prevent potential harm to human health and the environment, the product must be disposed of in an approved and environmentally safe recycling process. For information about your nearest designated collection point, contact your local authority responsible for waste disposal. Businesses should contact the product supplier for information about how to dispose of this product correctly.

## Privacy Protection Notice

As the device user or data controller, you might collect personal data of others such as face, fingerprints, car plate number, Email address, phone number, GPS and so on. You need to be in compliance with the local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures, including but not limited to: providing clear and visible identification to inform data subject the existence of surveillance area and providing related contact.

## About the Manual

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- We are not liable for any loss caused by the operations that do not comply with the manual.
- The manual would be updated according to the latest laws and regulations of related jurisdictions. For detailed information, refer to the paper manual, CD- ROM, QR code or our official website. If there is inconsistency between paper manual and the electronic version, the electronic version shall prevail.
- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the manual. Please contact the customer service for the latest program and supplementary documentation.
- There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and the company names in the manual are the properties of their respective owners.

- Please visit our website, contact the supplier or customer service if there is any problem occurring when using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

## Support

Should you require any technical assistance, please contact your Dahua distributor. If your questions cannot be answered immediately, your distributor will forward your queries through the appropriate channels to ensure a rapid response. If you are connected to the Internet, you can:

- Download user documentation and software updates.
- Search by product, category, or phrase.
- Report problems to Dahua support staff by logging in to your private support area.
- Chat with Dahua support staff.
- Visit Dahua Support at [www.dahuasecurity.com/support](http://www.dahuasecurity.com/support)

## Contact Information

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Website: [www.dahuasecurity.com](http://www.dahuasecurity.com)

## Important Safeguards and Warnings

This Chapter describes the contents covering proper handling of the device, hazard prevention, and prevention of property damage. Read these contents carefully before using the device, comply with them when using, and keep it well for future reference.

### **Safety Instructions**

The following categorized signal words with defined meaning might appear in the manual.

Signal Words	Meaning
 <b>DANGER</b>	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
 <b>WARNING</b>	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
 <b>CAUTION</b>	Indicates a potential risk which, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.
 <b>TIPS</b>	Provides methods to help you solve a problem or save you time.
 <b>NOTE</b>	Provides additional information as the emphasis and supplement to the text.

### Safety Requirement

- Abide by local electrical safety standards to ensure that the voltage is stable and complies with the power supply requirement of the device.
- Transport, use, and store the device under the allowed humidity and temperature conditions. Refer to the corresponding technical specifications of device for specific working temperature and humidity.
- Do not place the device in a location exposed to dampness, dust, extreme hot or cold, strong electronic radiation, or unstable lighting condtions.
- Do not install the device in a place near the heat source, such as radiator, heater, furnace, or other heat generating device to avoid fire.
- Prevent liquid from flowing into the device to avoid damge to internal components.
- Install the device horizontally or install on the stable place to prevent it from falling.
- Install the device in a well-ventilated place, and do not block the ventilation of the device.
- Do not disassemble the device arbitrarily.
- Avoid heavy stress, violent vibration, and soaking during during transportation, storage, and installation.  
Complete package is necessary during the transportation.
- Use the factory package or the equivalent for transportation.


### Battery

Low battery power affects the operation of the RTC, causing it to reset at every power-up. When the battery needs replacing, a log message will appear in the product's server report. For more information about the server report, see the product's setup pages or contact Dahua support.

### WARNING

- Risk of explosion if the battery is incorrectly replaced.
- Replace only with an identical battery or a battery which is recommended by Dahua.
- Dispose of used batteries according to local regulations or the battery manufacturer's instructions.

Documents / Resources

	<p><a href="#">dahua RD1233-W2 Wireless PIR Detector</a> [pdf] User Manual</p> <p>ARD1233-W2, ARD1233W2, SVN-ARD1233-W2, SVNARD1233W2, RD1233-W2 Wireless PIR Detector, Wireless PIR Detector, PIR Detector, PIR Detector</p>
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