HIKVISION



Smoke Alarm Pro

User Manual

UD48225B

Product Information

Pack List

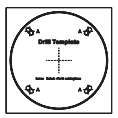
*The appearance of the device is subject to the actual product received.



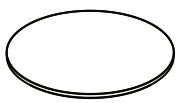
Anchor plug × 4
Screw × 4 (KA3.5×25)



Battery



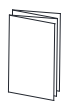
Drill Template



Adhesive × 1



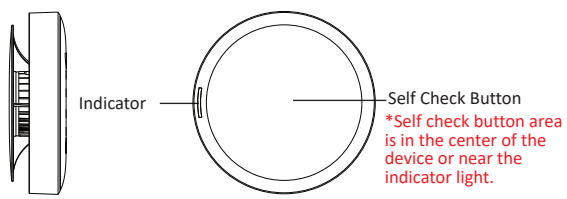
Detector × 1

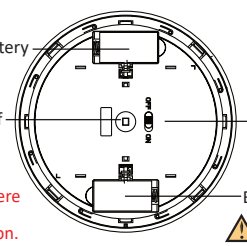


Product Instruction × 1

Appearance

*The pictures in this manual are all product diagram, please refer to the actual product.





If the device is tampered with, there is a risk of electric shock ormalfunction.

If battery replacement is required, CR123A standard batteries must be used.

Indicator&Buzzer

*Slow flash: flash once every 1s; Quick flash: flash 5 times every 1s.

Status	Indicator	Buzzer
Standby	Green indicator flash once every 100s	/
Smoke Alarm	Red indicator on	Beep once every 1s
Temperature Alarm	Red indicator on	Beep once every 1s
Interconnected Non-CO Alarm	Red indicator flash once every 1s	Beep once every 1s
Interconnected CO Alarm	Red indicator flash 3 times every 3s, pause for 1.5s	Beep 3 times every 3s, pause for 1.5s
Low Battery	Yellow indicator flash once every 50s	Beep once every 50s
Fault	Yellow indicator flash once every 50s	/
Enter Pairing	Green indicator slow flash	3 short beeps
Pairing Succeeded	Green indicator on	2 short beeps
Pairing Failed	Red indicator fast flash for 2s and off	A beep for 2s
Self Check Process	Red indicator on for 5s	Beep 5 times every 5s
Result of self check is normal	Green indicator fast flash for 2s	/
Result of self check is fault (low battery, pollution fault, sensor fault)	Yellow indicator fast flash for 2s	/
Strong Signal	Green indicator fast flash for 2s	2 short beeps
Weak Signal	Red indicator fast flash for 2s	3 short beeps
No Signal	Red indicator on for 2s	A beep for 2s

Icon Definition

G Green light goes solid.

G Green light flashes.

Buzzer beeps.

R Red light flashes.

Light is off.

Pairing

Interconnection

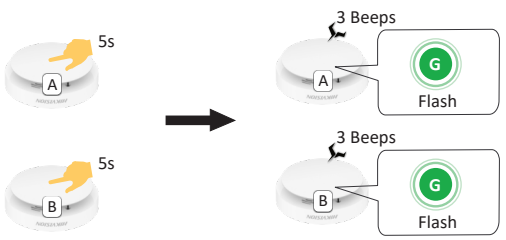
Prerequisite: All alarms are powered on and within 3m.

Power On

Remove the mounting base and install the batteries according to the polarity markings.

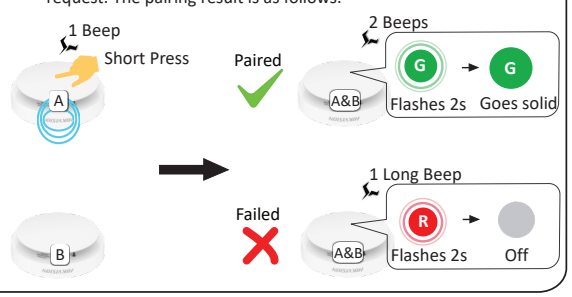
Pairing

Step 1 Press Alarm A and Alarm B for 5s until 3 beeps and release. The green light slowly flashes. Alarms enter the pairing mode.



*Pairing mode times out after 60s. Repeat Step1 to re-enter the mode.

Step 2 In 60s, short press Alarm 1 until 1 beep and release to send pairing request. The pairing result is as follows.



Optional Alarm A and Alarm B forms a group (Group A) after Step 2. You can add new alarm to Group A. Select any alarm in Group A and the new alarm, and perform Step 1&2.

*1.Make sure all alarms are in pairing mode first.
2.Repeat Step 1&2 on other alarms to pair, supporting up to 30 devices for interconnection.
3.Groups can also be paired with each other. Select any alarm within each group and perform Step 1&2 to pair all alarms between the groups.

Exit Pairing

Pairing mode times out after 60s. You can also press the alarm for 5s to exit manually.

Clear Pairing

Refer to "Function—Restore Factory Settings" section.

If pairing fails, you can:
1. Check if the alarm is an interconnected device.
2. Check if all alrms are within 3m with strong signal.
3. If the detector is already paired, clear pairing first. Refer to Functions—Restore Factory Settings for instructions.

Add to Gateway

If you have purchased our wireless gateway (HF-PG1), you can add the alarm to the gateway.
*Alarms that have already been paired locally cannot be added to a gateway. If you do so, their previous pairing information will be cleared.

Step 1 Scan the QR code below to install Hik-Connect or Hik-Protect APP.

Hik-Connect Hik-Protect

Step 2 In the APP, click "+" icon to scan the QR code on the gateway. Follow APP guide to add the gateway first, and then add alarms to the gateway.

Add to Control Unit

If you have purchased our wireless visual control unit (HF-PR1), you can add the alarm to the control unit.
*Alarms that have already been paired locally cannot be added to a control unit. If you do so, their previous pairing information will be cleared.
Refer to the user manual of HF-PR1 for guide.

Testing

Self-check

In standby mode, short press the button to enter the self check mode. Fault detection and communication quality check will be performed. Refer to Product Information—Indicator and Buzzer for details. After self-check, the detector will automatically exit the self-check state.
*The self-check status lasts for about 5s and cannot be performed again during the self-check period.

Simulation Test

Prerequisite: All alarms are in standby mode.
Trigger: After pairing, press the button on any interconnected alarm (initiating device) for 10s, the red light is on and buzzer beeps 5 times quickly. After other interconnected devices receive the signal in the group, they all start to alarm. Their red lights flash and buzzers beep quickly.
Mute: Short press the button on the initiating device to mute all alarms.
*If the initiating device does not trigger other devices' alarms, please check the signal strength of the installation position.

Installation

Pre-installation Preparation

Before installation, you should perform self-check and simulation test on devices in the corresponding room to ensure proper functioning. If not, please contact the supplier in time. Refer to "Testing" for guide.

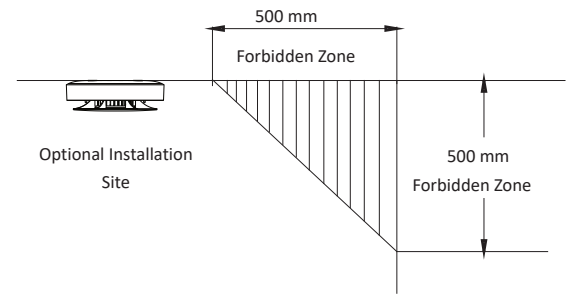
Installation Notification

1. Before installation, confirm that the device and other mounting parts are in good condition.
2. The device should be operated by qualified personnel.
3. Do not install the device in new or renovated buildings until all work is completed. (Dust and debris from building work can contaminate the smoke chamber).
4. Install multiple devices if the installation location (such as ceiling) is longer than 32.81 ft (10 meters).
5. The installation location should be at least 30 cm away from the path of strong electrical wires to prevent small insects from gathering due to phototaxis, causing smoke maze pollution and alarms.
6. The installation of this device should not be used as a substitute for proper installation, use and maintenance of fuel burning appliances including appropriate ventilation and exhaust systems.
• Where Not to Install:
- Damp and humid areas such as kitchen, hot water heater, and bathroom.
- Outdoors.
- In places with low or unstable signal strength.
- In places with fast air circulation such as near fans, vents, open windows.
- Dusty, dirty, or insect infested areas.
- Hot and greasy areas such as stoves.
- Places within 1.64 ft (0.5 meters) of the alarm that is obstructed by an object.
- Within 4.92 ft (1.5 meters) of fluorescent lights.
- In places without air circulation such as apexes of ceilings, corners of the rooms.
- Places with significant temperature changes or with temperatures below 0 ˚C.
- Places that may generate smoldering fires or cause significant losses if a fire is not reported in a timely manner.
- In high or inconvenient places.
7. A list of commonly occurring materials, vapours or gases, e.g. in cleaning fluids, polishes, paints, cooking operations, etc., which may affect the reliability of the apparatus in the short or long term.

Installation Location

1. For Flat Roof

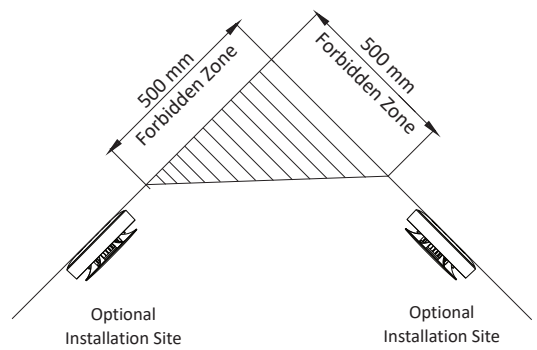
The edge of the alarm should be at least 500 mm away from any wall.



*A single device can cover a 15m*15m indoor environment (through one load-bearing wall or one floor slab); when multiple devices are distributed relatively, the signal can cover a maximum of a 3-story*300 square meter evenly environment.

2. For Gable Roof

When mounting the alarm device on the top of a gable roof, the distance between the top and the edge of the device should be at least 500 mm.

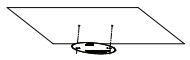


Hangzhou Hikvision Digital Technology Co., Ltd
Address: No.555 Qianmo Road, Binjiang District, Hangzhou City, Zhejiang Province, China

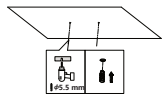
Installation Methods

1. Installation with screws

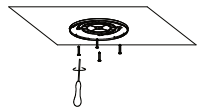
1. Stick the drilling template onto a clean and flat ceiling surface.



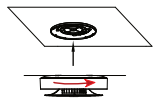
2. Drill screw holes according to the template, and insert the anchors.



3. Align the U-shaped holes corresponded to the mounting base to the anchors, and then fix the mounting base with the screws.



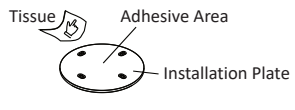
4. Rotate the detector clockwise to completely lock the buckles of the detector and lock grooves on the mounting base.



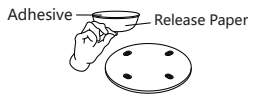
2. Installation with adhesive

*The optimal temperature range for adhesive bonding is 21 ° C to 38 ° C, and temperatures below 10 ° C are not suitable for bonding.

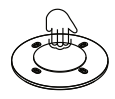
1. Clean the adhesive area corresponding to the installation plate.



2. After cleaning, immediately remove one side of the release paper from the adhesive and stick it to the corresponding area of the installation plate. Do not touch the adhesive with fingers.



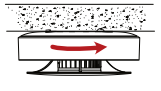
3. Press the adhesive back and forth with your fingers to remove air between the adhesive and the installation plate, improving the adhesive strength.



4. Clean the installation surface to remove dust, oil, and water stains.
*The recommended installation surface is a smooth glass surface, metal surface, wooden surface, or a reliable latex paint surface; Do not choose a place directly facing the air-conditioning outlet where water vapor or wind appears; For rough walls or other rough walls that are not suitable for using adhesive, please use screws to fix them.

5. Tear off the other side of release paper on the installation plate, immediately stick it onto the clean installation surface, and press the installation plate to remove air.

6. Rotate the alarm in the direction shown in the diagram, fix it to the installation base, and complete the installation.
*The adhesive strength can only reach 50% within 20 minutes, 90% within 24 hours, and 100% within 72 hours. It is recommended to install the alarm on the installation plate after 24 hours.



Functions

Smoke Alarm

In standby mode, when the smoke concentration reaches the response threshold, the alarm will generate an alarm signal.
Alarm status: The buzzer beeps every 1s; the red light is always on.

Temperature Alarm

In standby mode, when the temperature reaches the response threshold, the alarm will generate an alarm signal.
Alarm status: The buzzer beeps every 1s; the red light is always on.
*Alarm temperature: 64 ˚C (typical value) or temperature rising by more than 10 ˚C within one minute.

Mute

Short press the button or remote control button to mute the device. Remote control button only mutes the alarm source. For interconnected alarms, it just helps you locate them.
Mute status: The buzzer will stop alarm; the red light of smoke/temperature alarm flashes every 1s.
Mute cycle: After the alarm is silenced but it continues to be in a temperature/smoke higher than the response threshold, the alarm will sound again after 12 mins.
*When multiple initiating devices trigger alarm, all initiating devices should be muted sperately to make all devices muted.

Maze Cleaning

When the alarm generates a maze pollution fault, the top cover and dust cover can be opened to clean the maze. After cleaning, carry out self check to confirm if the detector is clean. After successful cleaning, the dust cover and top cover should be installed back in sequence.

Restore Factory Settings

In standby status, keep pressing button for 5s, the buzzer beeps 3 times and the alarm enter pairing status, then quickly press button for 3 times in 2s.
Result: The buzzer beeps 2 times and green light flashes for 2s. Group ID and paired status are cleared.

Specification

Detector	
Alarm Current	≤50 mA
Local Alarm Mode	Audible & visual alarm
Alarm Volume	≥ 85 dB@3 m (A-Weighted)
Function	
Constant Temperature Alarm	＞64 ˚C
Temperature Difference Alarm	△T＞10 ˚C/min
Anti Water Vapor Jamming	Yes
Local Silence	Yes
Pollution Alarm	Yes
Undervoltage Alarm	Yes
Test	Yes
Missing Battery Prevention	Yes
Heat alarm	Yes
Smoke alarm	Yes
Radio communication range	Up to 1,000 m Between the detector and a hub (or radio signal range extender) in an open space
General	
Voltage	3 VDC, battery CR123A （2 pcs）
Battery Capacity	3000 mAh
Quiescent Current	≤65 μA
Execution Standard	EN 14604:2005/AC:2008
Battery Life Span	Ten-year battery life under normal operation
Working Temperature	-10 °C to 55 °C (14 °F to 131 °F)
Working Humidity	≤95% relative humidity (RH)
Dimension (ϕ × H)	125 mm × 39 mm (4.9" × 1.5")
Weight	251 g (0.55 lb) (with battery)
Installation	Ceiling mounted
Communication Mode	HF-SH1-R8:HF-Link-868 HF-SH1-R:HF-Link-433
Colours	Black;White

EXPOSURE TO RADIO FREQUENCY RF

The frequency bands and transmitting power (radiated and/or conducted) nominal limits for the following radio equipment are as follows:
HF-SH1-R: GFSK(433.1MHZ-434.7MHZ): 10mW
HF-SH1-R8: GFSK(865.1MHZ-868.6MHZ): 25mW

For CE-DOC and CE-DOP query, you can go to the following website:
https://www.hikvision.com/en/support/compliance/declaration-of-conformity/

Safety Information

Please read all the safety information carefully before using.
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- Correctly install and maintain the gateway. Although gateway can help save lives by providing an early warning of a fire, they are not a substitute for an insurance policy. Home owners should have adequate insurance to protect their lives and properties.
- Install the detector according to the instructions in this manual.
- This is a Class B product, which may cause radio interference in the living environment. In this case, users may be required to take practical measures against interference.
- Please do not place the device in areas that children can touch.
- Please disconnect all power supplies during maintenance.
- Please power off during device wiring and installation.
- Do not place exposed flame sources, such as lit candles, on the device.
- To ensure the normal function of the detector, do not use a large amount of items such as mousse, insecticides, diluents, etc. that can produce gel like suspended solids near the detector.
- To reduce the risk of fire or electric shock, do not let indoor equipment be exposed to rain or moisture.
- Please do not drop objects onto the device or vigorously vibrate the device, and keep the device away from locations with magnetic field interference. Avoid installing the device in a place that is prone to surface vibration or impact.
- The carbon monoxide alarm information with a silent alarm device should include a warning. If there is any doubt about the cause of the alarm, it should be assumed that the alarm is caused by the hazardous level of carbon monoxide and residential areas should be evacuated.
- Carbon monoxide is harmful to the body. This device may not be able to prevent the chronic effects of carbon monoxide exposure, and it may not fully protect individuals in special danger.
- If there is any doubt about the cause of the alarm, it should be assumed that the alarm is caused by the hazardous level of carbon monoxide and residential areas should be evacuated.
- Keep the packing so that in case of any problem, pack the gateway in its original packing and send it to the agent or return it to the factory for disposal.
- If the gateway does not work properly, contact the dealer or the nearest service center. Never attempt to disassemble the detector yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)

BATTERY INSTALLATION AND REPLACEMENT

Install Battery

Tear off the battery insulation, put the battery into the battery holder and insert it to the end.

Replace Battery

Remove the battery from battery holder and replace it with the CR123A battery purchased by a regular manufacturer after 30 seconds. Test the detector for correct operation using the TEST/MUTE button whenever the batteries are replaced after re-fitting the detector onto the battery holder. If the detector is not working properly, please contact the technical support.

⚠

1. CAUTION: Risk of explosion if the battery is replaced by an incorrect type.
2. Improper replacement of the battery with an incorrect type may defeat a safeguard(for example, in the case of some lithium battery types).
3. Do not dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
4. Do not leave the battery in an extremely high temperature surrounding environment, which may result in an explosion or the leakage of flammable liquid or gas.
5. Do not subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas.
6. Dispose of used batteries according to the instructions.
7. ⊣⊢ identifies the battery holder itself and identifies the positioning of the cell(s) inside the battery holder.
8. + identifies the positive terminal(s) of equipment which is used with, or generates direct current.
- identifies the negative terminal(s) of equipment which is used with, or generates direct current.

English
Regulatory Compliance and Safety Information

Read all information and instructions in this document carefully before using the device and keep it for further reference.
For more device information and instructions, please visit our website at https://www.hikvision.com. You can also refer to other documents (if any) accompanying the device or scan the QR code (if any) on the packaging to get more information.

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