HIKFIRE

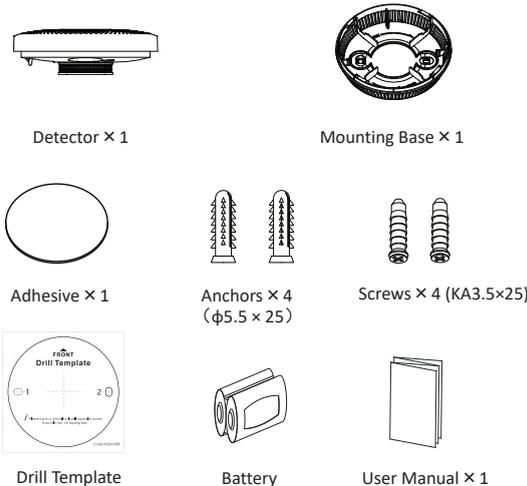## Photoelectric Smoke Detector
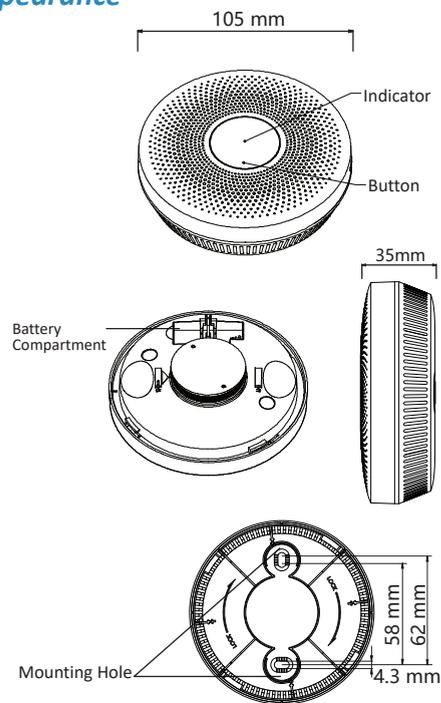
User Manual

Product Information

Pack List

*All device's appearances are subject to the one you bought.

Detector × 1

Mounting Base × 1

Adhesive × 1

Anchors × 4
（φ5.5 × 25）

Screws × 4 (KA3.5×25)

Drill Template

Battery

User Manual × 1

Appearance

105 mm

Indicator

Button

35mm

Battery Compartment

Mounting Hole

58 mm
62 mm

4.3 mm

■ Indicator Description

Mode	Indicator	Buzzer
Standby	Green light flashes once/6 min	Off
Fire Alarm	Red light is always on	Long beep
Low Battery	Red light flashes once /40 s	Short beep every 40 s
Pollution Alarm	Yellow light flashes once/40 s	Short beep every 40 s
Tampering Alarm	Green light flashes 3 times quickly	Off
Communication Fault	Yellow light flashes once/100 s	Off
Interconnection Alarm	Red light flashes	Long beep

Installation

■ Power on Detector

❶ Remove the battery cover.
❷ Remove the plastic insulated bag, and then install the battery according to anode and cathode marks.
❸ Install the battery cover.
ℹ If you need to replace the battery, please purchase 123A battery.

■ Self Check

After install or replace the battery, test the detector before installation to ensure that the buzzer and LED indicator light are in good conditions. If not, please contact the supplier in time.
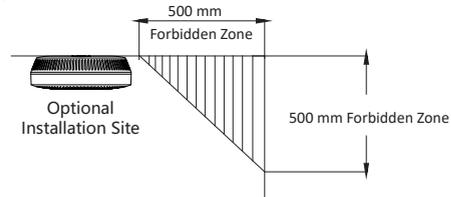In standby mode, short press the **Button**, the detector enters the test mode.
Test mode: The buzzer beeps for 5 times, and the red indicator is always on, which indicates that all are working properly.

■ Select Appropriate Location

Notification

1. Before installation, confirm that the detector and other mounting parts are in good condition.
2. The device should be operated by qualified personnel.
3. Do not install the detector in new or renovated buildings until all work is completed. (Dust and debris from building work can contaminate the smoke chamber).
4. Install multiple detectors 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 cannot replace proper installation.
• Where Not to Install:
 - Damp and humid areas such as kitchen, hot water heater, and bathroom.
 - Forced air supply ducts for heating or cooling, ventilating fans, or other high air flow areas.
 - 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.
 - Dead air spaces 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.
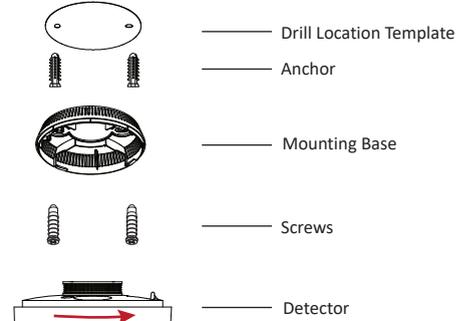
For Flat Roof

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

500 mm
Forbidden Zone

Optional Installation Site

500 mm Forbidden Zone
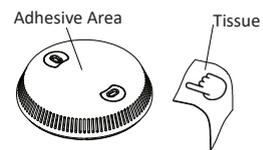
■ Installation

1. Screws Fixed (Recommended)

❶ Stick the drilling template onto a clean and flat ceiling surface.
❷ Drill screw holes according to the template, and insert the anchors.
❸ Align the U-shaped holes corresponded to the amounting base to the anchors, and then fix the mounting base with the screws.
❹ Rotate the detector clockwise to completely lock the buckles of the detector and lock grooves on the mounting base.

Drill Location Template

Anchor

Mounting Base

Screws

Detector

2. Adhesive Fixed

*The optimal temperature range for adhesive bonding is 21 ° C to 38 ° C, and temperatures below 10 ° C are not suitable for bonding.
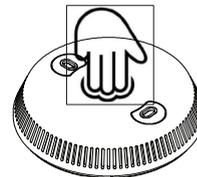
❶ Clean the adhesive area corresponding to the installation plate.

Adhesive Area

Tissue

❷ 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.
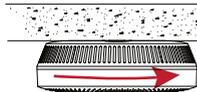
Adhesive

Release Paper

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

❹ 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.

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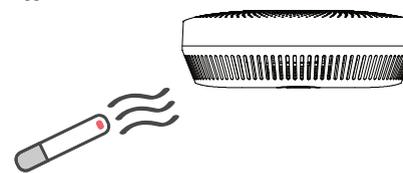
❻ Rotate the alarm in the direction shown in the diagram, fix it to the installation base, and complete the installation.
*The adhesive strength can only reach 50% within 20 minutes, 90% within 24 hours, and 100% within 72 hours. It is recommended to install the alarm on the installation plate after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

Testing

1. Testing Method

Put the litten cigarette or other smoke-producing items close to the detector, make the smoke into the inlet hole of the detector till the detector triggers an alarm.

2. Testing Result

After the smoke reaches a specified concentration, the detector will trigger an alarm, and the LED indicator will flash and the buzzer will beep for a long time.
ℹ AFter the testing is finished, you can blow the smoke inside of the detector inlet holes away to lower the smoke concentration, and then the detector will stop alarming and resume to standby state.

Operations

■ 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 for a long time; The indicator light is red and always on.

■ Silence Feature

In the alarm mode, short press the button to silent the alarm.
Silencing state: The buzzer will stop alarm; The indicator light is red and always on.
Silencing cycle: After the alarm is silenced, if the smoke concentration that caused the alert continues, the alarm will reactive after 12 mins.

■ Reset

When in the silence mode, short press the button to resume the standby mode.
In alarm mode, if the smoke dissipates, the alarm mode will be deactivated and the alarm will automatically resume to the standby mode.

■ Connection

Connection Between Alarms

a. Bring the two alarms that need to be connected closer and power them on.
b. Press the button of Alarm 1 for 3 to 5 s. When the buzzer beeps once, release the button. Then the Alarm 1 is into the connection mode, and green light flashes for 60 s.
c. Repeat the **Step b** for the Alarm 2 and it is also in the connection mode. And short press the button of Alarm 1, Alarm 1 sends a connection request to Alarm 2.
d. Alarm 2 receives the request and connects automatically to Alarm 1.
Result:
Successed: The buzzer of Alarm 1 beeps twice and green light of Alarm 1 is off.
Failed: The green light of Alarm 1 is on. Alarm 1 can send the request again and the refresh timeout of Alarm 2 is 60 s.

■ Forced to Disconnecting

Press the button of alarm for 3 times.
Result:
Disconnected: The buzzer beeps 5 times and green light flashes 5 times. Group ID and connection status are cleared.

Specification

Function	
Interconnection Alarm	Yes
Hush	Yes
Maze dirty alarm	Yes
Low voltage alarm	Yes
Test	Yes
Battery uninstalled indicator	Yes
Smoke alarm	Yes
Maximum Number of Interconnected Units	30pcs

General	
Power supply	3 V DC, battery CR123A(replaceable)
Battery capacity	1600 mAh
Execution Standard	EN 14604：2005
Standby current	≤10 μA
Alarm current	≤30 mA
Alarm mode	Audible & visual alarm
Alarm sound level	≥ 85 dB@3 m (A-Weighted)
Battery Life	Ten-year battery life under normal operation
Operation temperature	-10 °C to 55 °C (14 °F to 131 °F)
Operation humidity	≤95% relative humidity (RH)
Dimension (φ × H)	105 mm × 35 mm (4.13" × 1.38")
weight	103.7 g (0.23 lb) (with battery)
Installation	Ceiling mounted

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 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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Directive 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.

Directive 2006/66/EC and its amendment 2013/56/EU (Battery Directive): This product contains a battery that 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), 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.

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 detector. Although detector 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 A 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.
- The detector has multiple power supplies. 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 detection 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.
- This product is only used to detect the gas concentration in the surrounding environment of the product. When the product is in good operating condition, if gas occurs leakage, the detector can emit sound and light alarm signals.
- 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 detector in its original packing and send it to the agent or return it to the factory for disposal.
- If the detector 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.)
Frequency Bands and Power (for CE/UKCA)
The frequency bands andtransmitting power (radiatedand/or conducted)nominal limits applicable tothe following radio equipment areas follows:
HF-S3E-R:
HF-S3E-R8:

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 LR6 AA 1.5 V battery purchased by a regular manufacturer after 30 seconds. Test the detector for correct operation using the TEST/SILENCE 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.