



## Wireless Automatic Fire Alarm System

### User Manual

HANGZHOU HIKVISION ELECTRONICS CO., LTD  
Communication Address: No.555, Qianmo Road, Binjiang District, Hangzhou

www.hikvision.com  
Phone: 400-800-5998

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About this manual  
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Precautions  
- While installing and using this device, all electrical safety regulations of the country or region where the product is used must be strictly observed.  
- The product functions can be normally achieved only when the product is correctly installed and effectively maintained. This product is designed to assist you in disaster prevention, but it cannot replace on-site inspection by you, nor can it prevent the occurrence or expansion of accidents. In daily use, you should still remain vigilant, strengthen safety awareness, and carefully pay attention to your personal and property safety.  
- When connecting wires, assembling, or similar, always cut off the power supply to the device. Never conduct such tasks with the power connected.  
- Please install the device in strict accordance with the installation instructions set forth in this guide.  
- To prevent injury, the device must be securely fixed to the wall in accordance with the instructions in the manual.  
- This system involves Class A products. In a residential environment, this product may cause radio interference. In such cases, the user may be required to take practical measures against the interference.  
- The smoke alarm product is an independent photoelectric smoke fire detection alarm. When in good operating condition, it can emit audible and visual alarm signals in the event of a fire, but it cannot extinguish the fire. To ensure normal detection performance of the product, do not use large amounts of hairspray, insecticides, thinners, or other items that can produce colloidal suspensions near the product.  
- Keep the device out of reach of children.  
- Warning: Using the wrong type of battery may pose an explosion hazard.  
- Using the wrong type of battery for replacement (such as certain types of lithium batteries) may result in the failure of safety protection.  
- Do not throw batteries into a fire or heating furnace. Avoid squeezing, bending, or cutting the batteries, as this may cause an explosion.  
- Do not store batteries in extremely high-temperature/extremely low air pressure environments, as this may lead to battery explosion or leakage of flammable liquids or gases.  
- Discarded batteries can cause environmental pollution. Please dispose of used batteries according to the instructions.  
- When moving or using the device, keep the device body vertically downward.  
- The gateway device's plug or socket serves as the power disconnection device. Do not obstruct it for easy access.  
- To reduce the risk of fire or electric shock, do not expose the device used indoors to rain or moisture.  
- Do not place an exposed flame source, for example, a lit candle, on the device. Do not expose the device to direct sunlight or place it in poorly ventilated areas or near heat sources such as heaters or heating source. Failure to do this may lead to a fire hazard.  
- Please do not use the device in environments with high temperature, low temperature, or high humidity.  
- Do not drop objects on the device or shake the device vigorously, and keep the device away from magnetic interference. Avoid installing the device in a place where the surface vibrates or where the device is vulnerable to impact.  
- Network security issues may arise when the device is connected to the internet. Please enhance your personal information and data security protection. When you discover potential network security risks, please contact us immediately.  
- If the device emits smoke, odor, or noise, immediately disconnect the device from the power supply, remove the power cord, and contact the distributor or service center.  
- Please keep the device packaging materials properly so that in case of problems, the device can be repackaged in its original packaging and sent to the distributor or returned to the manufacturer for handling.  
- If the device does not work properly, contact the store where you purchased the device or the nearest service center. Do not disassemble or attempt to repair the device in any way without authorization. (The company shall not be responsible for any problems caused by unauthorized disassembly or repair.)

## 1 Product Introduction

The Wireless Automatic Fire Alarm System is suitable for fire detection and security alarm. The fire gateway can form a protection system together with various wireless peripherals such as independent photoelectric smoke detector (abbreviated as "smoke detector"), independent heat detector (abbreviated as "heat detector"), sounder strobe, manual call point, etc. Once an alarm condition is detected, it can be immediately reported to the fire platform, improving firefighting efficiency. It can be widely used in small and medium-sized scenarios with concentrated protection areas such as dormitories, public rental housing, nursing homes, Taoist temples, farmers' markets, high-rise buildings, factories, etc.

## 2 Key Features

### Fire Gateway

- A single gateway supports connection of 128 wireless peripherals.
- Supports data transmission to primary and backup platforms, and can support 4 reporting centers.
- Communicates with wireless peripherals via LoRa wireless communication.

### Smoke/Heat Detector

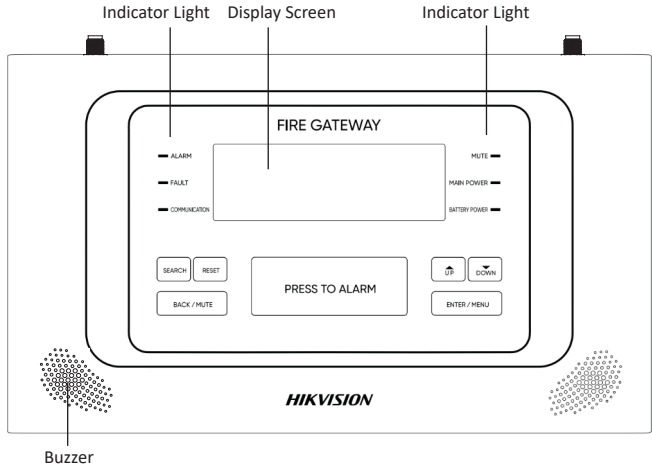
- Supports real-time smoke/heat detection and alarm, and supports alarm information upload.
- Powered by lithium battery, expected service life of 3~5 years.
- Supports self-check function to check whether device components can work properly.
- Supports fault alarm functions: low voltage alarm, contamination alarm, tamper alarm, and sensor fault alarm.

### Sounder Strobe & Manual Call Point

- Sound strobe supports alarm sound and light linkage; manual call point supports manual alarm and key reset.
- Supports function detection and indication such as battery undervoltage alarm, tamper alarm, communication abnormality, etc.
- Supports signal strength query, facilitating deployment and installation.
- Powered by lithium battery with long life, theoretical battery design life of more than 5 years.

## 3 Appearance and Indicators

### Fire Gateway



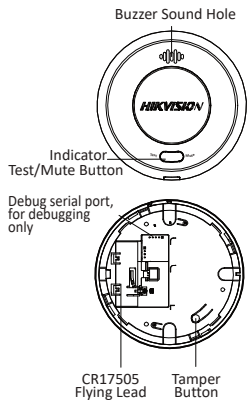
| Button         | Description                                                                                               |
|----------------|-----------------------------------------------------------------------------------------------------------|
| RESET          | When the device is in alarm state, press this button to return to standby state.                          |
| SEARCH         | Quickly search device alarm, fault, and other information.                                                |
| BACK/MUTE      | When the device is in alarm state, press this button to eliminate the audible signals of alarm and fault. |
| PRESS TO ALARM | Manual fire alarm button, which can trigger the device into fire alarm state.                             |

\* The product pictures in the manual are schematic diagrams. Please refer to the actual device.

| Prompt Tone    | Description                                          |
|----------------|------------------------------------------------------|
| Buzzer Beeping | Button press tone, alarm occurrence, or system fault |

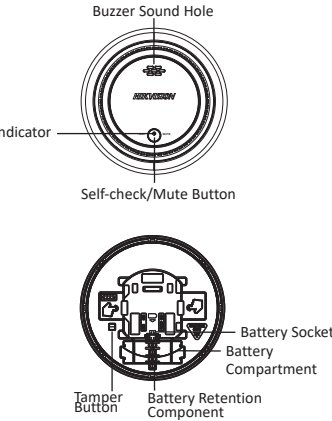
| Status        | Indicator | Description                                 |
|---------------|-----------|---------------------------------------------|
| ALARM         | Always On | Fire alarm exists or is in fire alarm state |
|               | Off       | No fire alarm                               |
| FAULT         | Always On | Device has a fault                          |
|               | Off       | No fault                                    |
| COMMUNICATION | Always On | Device communication connected              |
|               | Off       | Device communication not connected          |
| MUTE          | Always On | Device is in silence state                  |
|               | Off       | Device is not in silence state              |
| MAIN POWER    | Always On | Device is powered by main power adapter     |
|               | Off       | Main power not connected or not powered     |
| BATTERY POWER | Always On | Device is powered by backup battery         |
|               | Off       | Backup power not connected or not powered   |

### Smoke Detector



| Status                                                    | Indicator                            | Buzzer               |
|-----------------------------------------------------------|--------------------------------------|----------------------|
| Standby                                                   | Green light flashes once every 100s  | Shutdown             |
| Smoke Alarm                                               | Solid Red                            | Rapid beeping        |
| Low Voltage                                               | Yellow light flashes once every 50s  | Beeps once every 50s |
| Tampering Alarm                                           | Yellow light flashes quickly 3 times | Shutdown             |
| Maze Contamination/Communication Fault/Smoke Sensor Fault | Yellow light flashes once every 50s  | Shutdown             |
| Self-Check                                                | Red light flashes 5 times            | 5 Beepings           |
| Mute                                                      | Solid Red                            | Buzzer stops         |
| Reset                                                     | Indicator light turns off            | Buzzer stops         |
| Simulate Alarm                                            | Red light constantly on for 10s      | 10 Beepings          |
| Restore to factory settings                               | Green light flashes quickly for 2s   | Short beeps twice    |

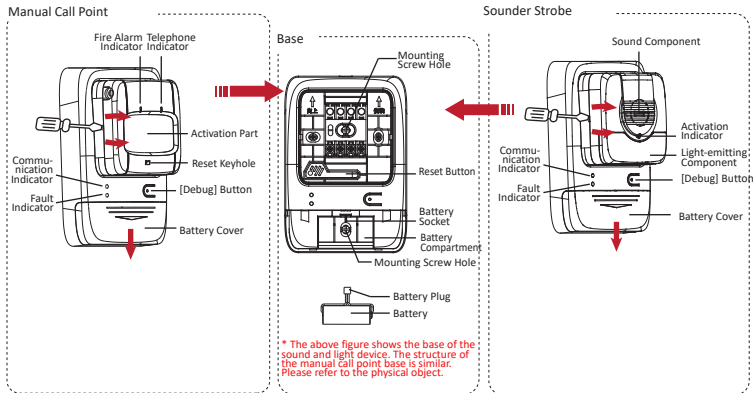
### Heat Detector



| Status                   | Indicator                                                                         | Buzzer                 |
|--------------------------|-----------------------------------------------------------------------------------|------------------------|
| Standby                  | Green light flashes once every 90 sec                                             | Shutdown               |
| Smoke/Temperature Alarm  | Solid Red                                                                         | Rapid beeping          |
| Low Voltage              | Yellow light flashes once every 40 sec                                            | Beep once every 40 sec |
| Tampering Alarm          | Green light flashes quickly 3 times                                               | Shutdown               |
| Maze Contamination       | Flashes once in the pattern "red light - green light" every 100 sec               | Shutdown               |
| Temperature Sensor Fault | Flashes once in the pattern "red light - green light - green light" every 100 sec | Shutdown               |
| Communication Fault      | Red light flashes once every 100 sec                                              | Shutdown               |

\* The battery retention component is used to confirm whether the battery is correctly installed. If the battery is not fully inserted, this component will prevent the device from being properly fixed to the base.

### Sounder Strobe & Manual Call Point



#### Manual Call Point

| Status        | Indicator                              | Description                 |
|---------------|----------------------------------------|-----------------------------|
| Fire Alarm    | Solid Red                              | Trigger alarm               |
| Telephone     | Solid Red                              | Solid Red                   |
| Communication | Green light flashes once every 300 sec | Device communication normal |
|               | Yellow light flashes once every 40 sec | Device communication fault  |
|               | Yellow light flashes once every 16 sec | Battery undervoltage        |
| Fault         | Yellow light flashes 3 times           | Tampering alarm             |

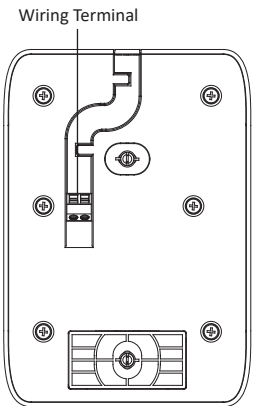
#### Sounder Strobe

| Status        | Indicator                              | Description                   |
|---------------|----------------------------------------|-------------------------------|
| Activation    | Solid Red                              | Activation successful         |
| Communication | Green light flashes once every 300 sec | Device communication normal   |
| Fault         | Yellow light flashes once every 40 sec | Device communication fault    |
|               | Yellow light flashes once every 16 sec | Battery undervoltage/fault    |
|               | Yellow light flashes 3 times           | Tamper alarm/main power fault |

## 4 Wiring Instructions

### Sounder Strobe & Manual Call Point

The wiring terminals on the back of the device are described as follows:



Be sure to connect the sound and light device to the power adapter included in the package, and ensure the power positive and negative poles are connected correctly.

#### Sounder Strobe Wiring Terminals

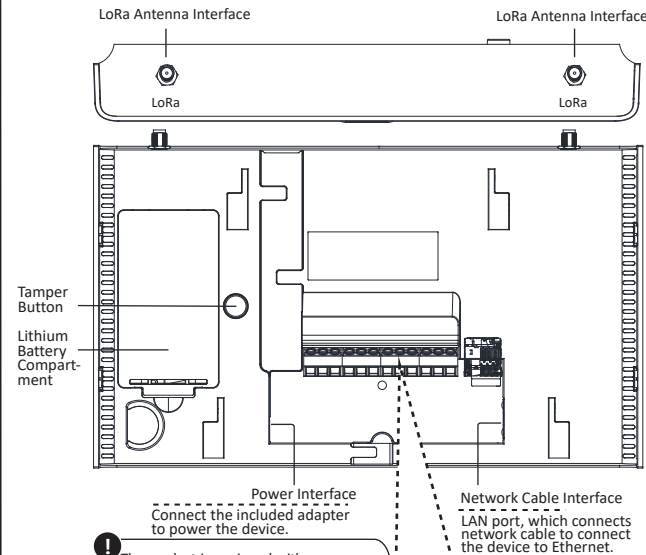
| Wiring Terminal | Wiring Instructions  | Remarks                                                                                                      |
|-----------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| 12V             | Power input positive | Connect to DC 12 V/1 A power supply to power the device. The allowable power input range is DC 10 ~15 V/1 A. |
| GND             | Power input negative |                                                                                                              |

#### Manual Call Point Wiring Terminals

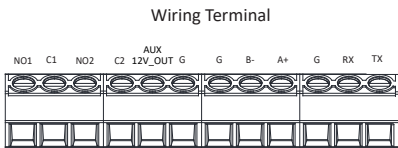
| Wiring Terminal | Description                                                                                                              |
|-----------------|--------------------------------------------------------------------------------------------------------------------------|
| K+              | Connect to one channel of DC 24 V/1 A relay output. The maximum allowable relay output is DC 30 V/2 A or AC 125 V/0.5 A. |
| K-              |                                                                                                                          |

## Fire Gateway

On the back of the device, slide the mounting plate from top to bottom to remove it. Wire according to the following diagram based on actual needs.



\* G, B-, A+ are reserved 485 interfaces.



| Wiring Terminal | Description                                     |
|-----------------|-------------------------------------------------|
| NO1             | Switch alarm output 1, normally open by default |
| C1              |                                                 |
| NO2             | Switch alarm output 2, normally open by default |
| C2              |                                                 |
| AUX 12V_OUT     | Auxiliary power output                          |
| G               | Auxiliary power negative                        |
| B-              | RS-232 signal ground                            |
| A+              |                                                 |
| G               |                                                 |
| RX              | RS-232 receiving end                            |
| TX              | RS-232 transmitting end                         |

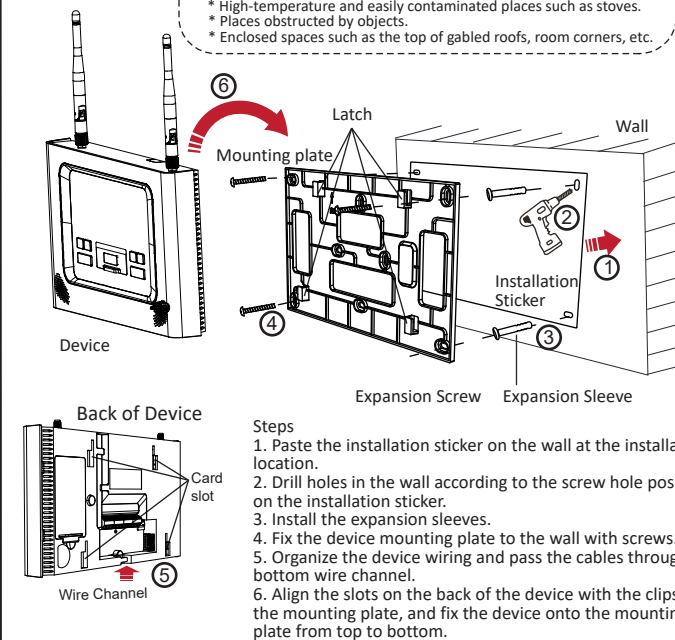
## 5 Installation Notes

\* If you encounter any issues during installation, please contact the installer.

### Installation Precautions

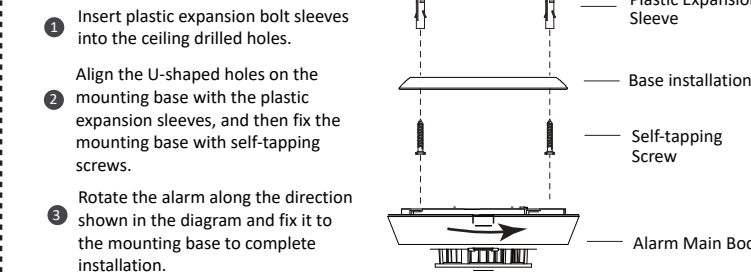
- Please install the device in strict accordance with the installation instructions set forth in this guide.
- When installing on walls or ceilings, to prevent injury, ensure the product is securely fixed.
- Please install the device on a flat wall surface.
- Ensure the installation wall can bear at least four times the weight of the device.
- The following points need attention when installing the alarm.
  - If the installation location (e.g., ceiling) length is greater than 10 meters, multiple alarms need to be installed.
  - Please install the alarm after completing indoor decoration to avoid contamination of the alarm.
  - Installation parameters should comply with GB 50116-2013 "Code for Design of Automatic Fire Alarm Systems".
  - The installation location should be at least 30 cm away from strong electrical wires to prevent insects from gathering due to phototaxis, causing smoke maze contamination and alarms.
  - When installed on a flat roof, the edge of the alarm should be at least 500 mm from any wall.
  - When installed on a sloped or diamond-shaped roof, the alarm should maintain a certain distance from the roof. When the slope is less than 30°, a distance of 500 mm is appropriate.
  - Avoid installing the alarm in the following locations:
    - \* High humidity spaces such as kitchens, water heaters, bathrooms, etc.
    - \* Within 1.5 meters of air conditioners, fans, heating vents, strong convective wind, lighting fixtures.
    - \* Dusty, dirty, or places frequently visited by insects.
    - \* High-temperature and easily contaminated places such as stoves.
    - \* Places obstructed by objects.
    - \* Enclosed spaces such as the top of gabled roofs, room corners, etc.

### Fire Gateway



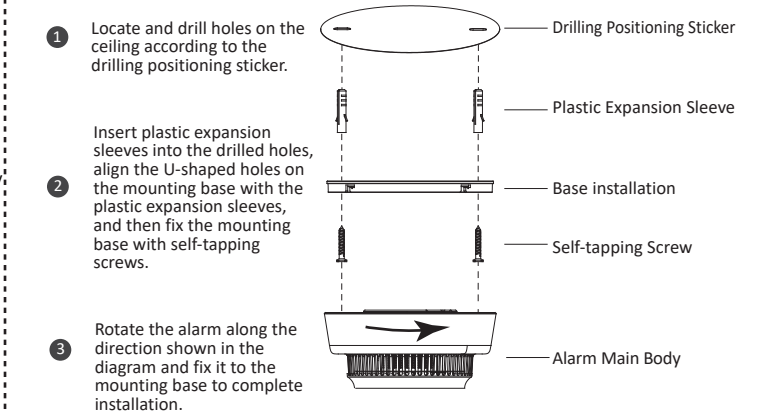
## Smoke Detector

- Install the battery. Insert the battery plug into the battery socket, place the battery into the battery compartment along the direction shown in the diagram and push it in completely.
- Pair the alarm with the gateway. Long press the [Test/Mute] button for 5 seconds until the buzzer beeps 3 times, indicating successful clearing on the device end. Press the [Test/Mute] button briefly.
  - If the alarm is already paired, press the alarm's [Test/Mute] button for 5 seconds. After 3 prompts, click the [Test/Mute] button again to re-enter pairing mode.
  - If the alarm is in standby unpaired state, press the [Test/Mute] button to self-check first, then enter pairing mode.[Pairing successful] Green light flashes quickly for 2 seconds, beeps twice.  
[Pairing failed] Red light flashes quickly for 2 seconds, long beep once.
- Self-check. Press the [Test/Mute] button briefly to perform device self-check. The buzzer beeps 5 times while the red light stays on for 5s, indicating that the alarm buzzer and indicator are working properly and installation can proceed.
- Check signal strength. After pairing and self-check are completed, the device immediately prompts the signal status.  
[Strong signal]: Green light flashes quickly for 2s, beeps twice, can be installed.  
[Weak signal]: Red light flashes quickly for 2s, beeps three times, not suitable for installation.  
[Communication failure]: Red light stays on for 2s, long beep once.



## Heat Detector

- Install the battery.
  - At the position indicated by the gesture on the back of the alarm, use two fingers to squeeze the clips inward simultaneously to remove the communication module.
  - Insert the battery plug into the battery socket, place the battery into the battery compartment along the direction shown in the diagram and push it in completely, then install the communication module back to its original position.
- Check the alarm status. Press the [Self-check/Silence] key briefly. The buzzer beeps 5 times while the red light stays on, indicating that the alarm buzzer and indicator are working properly and installation can proceed.
- Determine the installation location based on the alarm signal strength.
  - Pair the alarm with the gateway and attach the base to the detector. For pairing method, please refer to **Section 6 Quick Configuration Introduction**.
  - On the gateway end, enter "Main Menu - Device List - Smoke Alarm", and scroll to the corresponding alarm in the list.
  - Long press the alarm's [Self-check/Silence] key for more than 3 seconds. After one beep, it enters signal query mode.  
[Strong signal]: Alarm indicator green light flashes quickly 3 times (smoke detector green light flashes quickly 2 times, beeps twice), can be installed.  
[Weak signal]: Alarm indicator red light flashes quickly 3 times (smoke detector red light flashes quickly 2 times, beeps three times), this location is not suitable for installation.

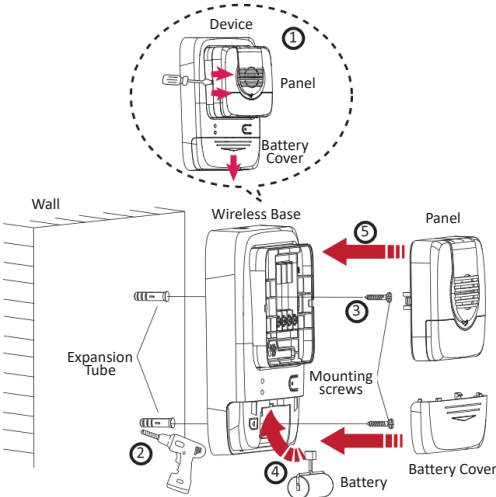


## Sounder Strobe/Manual Call Point

The installation methods for manual call points and sound and light are similar. The installation of the sound and light device is taken as an example for description.

- Pre-installation Preparation
- Install the battery. Insert the battery plug into the battery socket on the sound and light/manual call point device, and cover the battery cover.
- Pair the sound and light/manual call point with the gateway. For pairing method, please refer to **Section 6 Quick Configuration Introduction**.
- Move the sound and light/manual call point to the selected installation location, and double-click the [Debug] key to confirm the device signal strength.
  - \* Strong signal: Communication indicator flashes quickly 3 times, can be installed.
  - \* Weak signal: Fault indicator flashes quickly 3 times, this location is not suitable for installation.

- Steps
- Remove the panel and battery cover.
- At the selected sound and light/manual call point installation location, place the wireless base against the wall to mark the drilling positions, and use a drill to make holes.
- Tap the expansion tubes into the holes, and screw the mounting screws until there is about 2 mm left from the head. Then align the mounting holes on the wireless base with the heads of the mounting screws and hook them on, ensuring stable installation.
- Firmly insert the battery plug into the battery socket of the device to complete battery installation.
- Snap the panel and battery cover into place to complete installation.



## 6 Quick Configuration Introduction

\* For detailed configuration and operation methods of each product in the Wireless Automatic Fire Alarm System, please scan the QR code to obtain.

- Prepare Device** Complete the installation of the gateway, smoke/heat alarm, sounder strobe and manual call point. Install the antenna on the gateway and power it with power adapter. During first power-on, a 6-digit installer password and device time need to be set. To ensure product usage security, please set a password with high complexity and keep it properly.
- Enter Gateway Device Adding Page** Press "OK/MENU" button, enter the password and press the button again to enter Peripheral Management-Device Adding, and the screen will prompt "Please trigger peripheral pairing."
  - \*The gateway will automatically exit pairing mode after 5 min of inactivity.
- Pair** Bring peripheral devices within 2m of the gateway

| Device         | Smoke Detector                                                                                                                                                                         | Heat Detector                                                                                                                                                                             | Sounder Strobe/<br>Manual Call Point                                                                                                                                                                                                                       |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pairing        | <br>Press [Test/Mute] button for 5s until green light slowly flashes. Short press again to enter pairing mode.                                                                         | <br>Press [Test/Mute] button.                                                                                                                                                             | <br>Press [Debug] button. Communication green light flashes.                                                                                                                                                                                               |
| Pairing Result | Successful: Green light quickly flashes for 2s, 2 beeps.<br>Failed: Red light quickly flashes for 2s, a long beep.<br>If failed, repeat pairing operation.                             | Successful: Light off, 2 beeps.<br>Failed: Light off, no beeps.<br>If failed, please clear code: Press [Test/Mute] button for 10s until hearing 3 beeps, which means the code is cleared. | Successful: Communication green light flashes 3 times.<br>Failed: After 80s, fault yellow light flashes 3 times.<br>If failed, please clear code: Press [Debug] button for 10s until fault yellow light flashes 3 times., which means the code is cleared. |
| Gateway        | Successful: The gateway shows the device has been added, and a signal value in the device list means pairing and communication are successful.<br>If failed, repeat pairing operation. |                                                                                                                                                                                           |                                                                                                                                                                                                                                                            |

## 7 Technical Parameters

| Project                          | Specification                                                                           |                                              |                                            |                                                          |                                                          |
|----------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| Model/Specification              | HF-PG2-R                                                                                | HF-S3-R                                      | HF-H2-R                                    | HF-MP2-R                                                 | HF-SS2-R                                                 |
| Name                             | Fire Gateway                                                                            | Smoke Detector                               | Heat Detector                              | Manual Call Point                                        | Sounder Strobe                                           |
| Number of Peripheral Connections | No more than 128 /                                                                      |                                              |                                            |                                                          |                                                          |
| Working Principle                | Wireless proprietary LoRa communication system                                          | Photoelectric                                | Thermistor                                 | Manual trigger                                           | Audio and Light Alarm                                    |
| Communication Method/Frequency   | LoRa, 433 Mhz                                                                           |                                              |                                            |                                                          |                                                          |
| Indicator Light                  | 6: Alarm, Fault, Communication, Silence, Main Power, Backup Power                       | 1: Indicates alarm, fault, etc. respectively |                                            | 4: Fire Alarm, Telephone, Communication, Fault           | 3: Activation, Communication, Fault                      |
| Communication Performance        | 3-5 ordinary interior walls or 1-2 load-bearing walls, and extends 20-40m in corridors. |                                              |                                            |                                                          |                                                          |
| Alarm Method                     | /                                                                                       | Audible and visual alarm                     |                                            |                                                          |                                                          |
| Alarm output                     | 2 channels, relay (contact rating DC24V/1A)                                             | /                                            | 1 channel, relay (contact rating DC24V/1A) |                                                          | /                                                        |
| Alarm Volume                     | 75 dB @1 m (A-weighted)                                                                 | ≥ 85 dB@ 3 m (A-weighted)                    | 45dB-75dB@3m (A-weighted)                  | /                                                        | 75dB-100dB@3m (A-weighted)                               |
| Panic Alarm                      | Built-in 1                                                                              | /                                            |                                            | 1-channel                                                | /                                                        |
| Self-Check                       | Support                                                                                 | Support                                      | Support                                    | Support                                                  | Support                                                  |
| Silence                          | Support                                                                                 | Support                                      | Support                                    | /                                                        | /                                                        |
| Reset                            | Support                                                                                 | Support                                      | Support                                    | Support                                                  | Support                                                  |
| Signal Query                     | Support                                                                                 |                                              |                                            |                                                          |                                                          |
| Tampering Alarm                  | Support                                                                                 |                                              |                                            |                                                          |                                                          |
| Undervoltage Alarm               | Support                                                                                 |                                              |                                            |                                                          |                                                          |
| RS-232                           | 1-channel                                                                               | /                                            |                                            |                                                          |                                                          |
| RS-485                           | 1-channel                                                                               | /                                            |                                            |                                                          |                                                          |
| Wired Network Interface          | RJ45, 1 channel /                                                                       |                                              |                                            |                                                          |                                                          |
| Main Power Supply                | DC 12 V/1 A power adapter                                                               | /                                            |                                            |                                                          | Provided by DC12V/1A wireless base                       |
| Backup Power Supply              | Rechargeable lithium battery (standby 12h)                                              | DC3V lithium battery                         |                                            |                                                          |                                                          |
| Battery Design Life              | Rechargeable for continuous use                                                         | 5 years                                      | 3 years                                    | 5 years                                                  | Standby: 5 years, Alarm: can last 60 minutes             |
| Operating Current/Power          | Power: 6W-12W                                                                           | Static current ≤14μA, alarm state ≤30mA      | Static current ≤10μA, alarm state ≤40mA    | Standby ≤5μA, alarm ≤130mA (with communication function) | Standby ≤5μA, alarm ≤130mA (with communication function) |
| Operating Environment            | Temperature: -10℃ - 55℃, Relative Humidity: ≤95%RH non-condensing                       |                                              |                                            |                                                          |                                                          |
| Installation Method              | Wall mount, surface mount                                                               |                                              |                                            |                                                          |                                                          |
| Appearance                       | L 228 mm × W 134 mm × H 36 mm (excluding antenna)                                       | Φ 119mm×H 44mm                               | Φ 120mm×H 50mm                             | L 162 mm × W 112 mm × H 61 mm (with wireless base)       | L 162 mm × W 112 mm × H 67 mm (with wireless base)       |
| Housing Material                 | PC+ABS                                                                                  | ABS                                          |                                            |                                                          |                                                          |
| Product Weight                   | 630 g                                                                                   | 175g (with battery)                          | 202g (with battery)                        | 300g (with wireless base)                                | 318g (with wireless base)                                |

*\* Note: Battery design life is for reference only. Actual battery life may vary depending on usage.*

\* Note: Battery design life is for reference only. Actual battery life may vary depending on usage.