Wireless Interconnected Smoke Alarm

User's Manual

1.Important Safeguards and Warnings

This manual will help you to use the Device properly. Read the manual carefully before using the Device, and keep it well for future reference.

Operation Requirements

⚠️ WARNING

- Never ignore any alarm. Failure to respond may lead to serious injury or death.
- Constant exposure to high or low temperature or high humidity may reduce battery life.

⚠️ CAUTION

- Make sure that the power supply of the device works properly before use.
- Use the device according to the operating environment.
- Only use the device within the rated power range.
- Transport, use and store the device under allowed humidity and temperature conditions.
- Prevent liquids from splashing or dripping on the device. Make sure that there are no objects filled with liquid on top of the device to avoid liquids flowing into it.
- The smoke alarm is only designed for indicating the presence of smoke, but it cannot detect gas, heat or flames.

Installation Requirements

⚠️ WARNING

Failure to properly install and operate this device will prevent proper operation of the Device and will prevent its response to fire hazards.

⚠️ CAUTION

- Observe all safety procedures and wear required protective equipment provided for your use while working at heights.
- Do not expose the device to direct sunlight or heat sources.
- Keep the original packing material well because you might need it to pack the device and send it back for repair.
- Make sure the application scenario conforms to installation requirements. Contact your local retailer or customer service center if there is any problem.
- All installation and operations shall conform to your local electrical safety requirements, fire protection regulations, and other relevant regulations.

Maintenance Requirements

- Do not clean the device with any cleaning products.

- Do not paint the device. Paint will seal the vents and interfere with the sensor's ability to detect smoke.
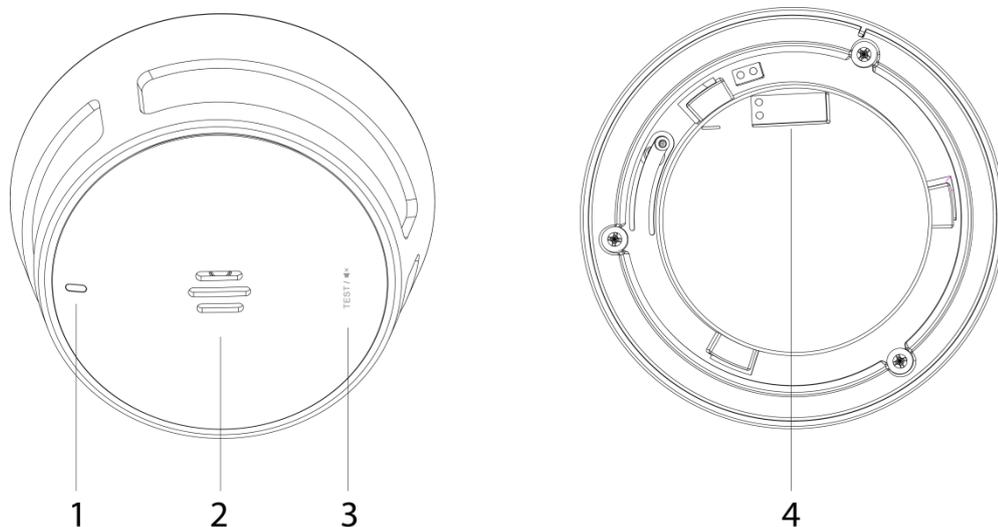
2.Introduction

2.1　Product information

Wireless Interconnected Smoke Alarm (hereinafter referred to as the device) is designed to continuously monitor smoke concentration. Adopting advanced split-spectrum photoelectric chamber and a built-in high-volume buzzer, it responds quickly and becomes highly sensitive with stable performance and low false alarm. Once the surrounding smoke concentration reaches the alarm value, it will promptly send out visual and audible alarm signal to remind the user to take immediate measures. With a built-in RF module, the device enables you to wirelessly connect up to 24 smoke alarms, constructing an interlinked network. Once one device triggers an alarm, the alarm signal will be pushed to every alarm in the interconnected network and they will raise the alarm in unison.

This product is designed for household or similar residential application such as family home or apartment.

2.2　Product profile

No.	Name	Introduction
1	Indicator	● Standby: Green indicator flashes once per minute ● Alarm: Red indicator flashes once per second ● Fault: Red indicator flashes twice per minute
2	Buzzer	Alarm Sound: 85dB (A) at 3 m (9.84 ft)
3	TEST / ◀×	● Verify the normal working ● Stop the alarm sound
4	Battery Compartment	Built-in battery, not replaceable by user

3.Technical Information

Specification	Introduction
Sensor Type	Photoelectric
Power Source	3V CR123A lithium battery (non-replaceable)
Battery Life	10 years
Alarm Method	Visual and audible alarm
Pre-Set Alarm Value	0.2dB/m-0.3dB/m
Operating Current	● Monitoring current: ≤15uA (avg) ● Alarm current: ≤35mA (avg)
Operating Temperature	-10℃ to +55℃ (+14℉ to +131℉)
Operating Humidity	≤95% RH (non condensing)
Operating Frequency	868 MHz
Maximum Number of Interconnected Units	24 pcs
Radio Signal Range	Up to 1000 m (3280.84 ft) in open air
Detecting Area	When the height of the space is less than 8 m (26.25 ft), the protection area of a device is 20 m^2–40 m^2
Dimensions	Φ81.5mm × H51.6mm (φ3.21" × H2.03")
Weight (with battery)	110 g (0.24 lb)
Certification	EN 14604:2005+AC: 2008

4.Interconnection

4.1 Interconnect with wireless alarms

This device can only be interconnected with Wisualarm wireless interconnected alarms. It is not designed to communicate with wireless interlinked alarms from other manufacturers.

Prerequisite

Make sure all smoke alarms are powered on to ensure a successful interconnection.

⚠ **WARNING**

Make sure that only 2 smoke alarms are powered on at a time to ensure successful interconnection. Otherwise, the interconnection will fail or device malfunction may occur.

How to interconnect

Step 1   Press TEST / ◀× on the device 1 continuously 4 times (the interval between each press is less than 1 second), this device emits 1 short quick beep and the red LED indicator flashes continuously (about once every second), indicating the device 1 enters the interconnecting receiving mode.

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To ensure that all smoke alarms enter the same interlinked network, make sure only one smoke alarm enters interconnecting mode at a time.

Step 2   Press TEST / ◀× on device 2 twice (the interval between each press is less than 1 second), this device emits 1 short quick beep and the red LED indicator starts to flash rapidly, indicating the device 2 enters the interconnecting transmission mode.

Step 3   Device 2 will emit 1 short quick beep, then the green LED indicator will flash continuously, which means the pairing between two devices succeed. The green LED indicator will flash continuously until device 1 quit the interconnecting mode, or you can press TEST / ◀× on device 2 to force it enter the normal standby state immediately.

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Device 1 will be in interconnecting mode for 3 minutes with red LED indicator flashing once every second. During this period, you can pair several wireless interconnected smoke alarms one by one. If needed, you can manually press TEST / ◀× to help device 1 quit the interconnecting mode, the red LED indicator flashes once and green LED indicator flashes once, then device 1 will emit 1 short quick beep, indicating the device has already quit the interconnecting mode and enters normal standby state. Once you press the button on device 1, the device 2 will follow device 1 to quit the interconnecting mode and enter the normal standby state.

Step 4   (Optional) Interconnect device 3.

1) If device 3 is in the interconnecting receiving mode of device 1 within 3 minutes, then press TEST / ◀× twice on device 3 to enter the interconnecting transmission mode. If the interconnecting receiving mode of device 1 surpasses 3 minutes, then press TEST / ◀× on either of the two previously interconnected devices 4 times to enter the interconnecting receiving mode, then press TEST / ◀× twice on device 3 to the join interconnected network.

2) If enters the interconnected network successfully, red LED indicator on device 3 will go out and it will emit 1 short quick beep, then the green LED indicator will flash continuously until device 1 quit the interconnecting mode, or you can press TEST / ◀× on device 3 to force it enter the normal standby state immediately.
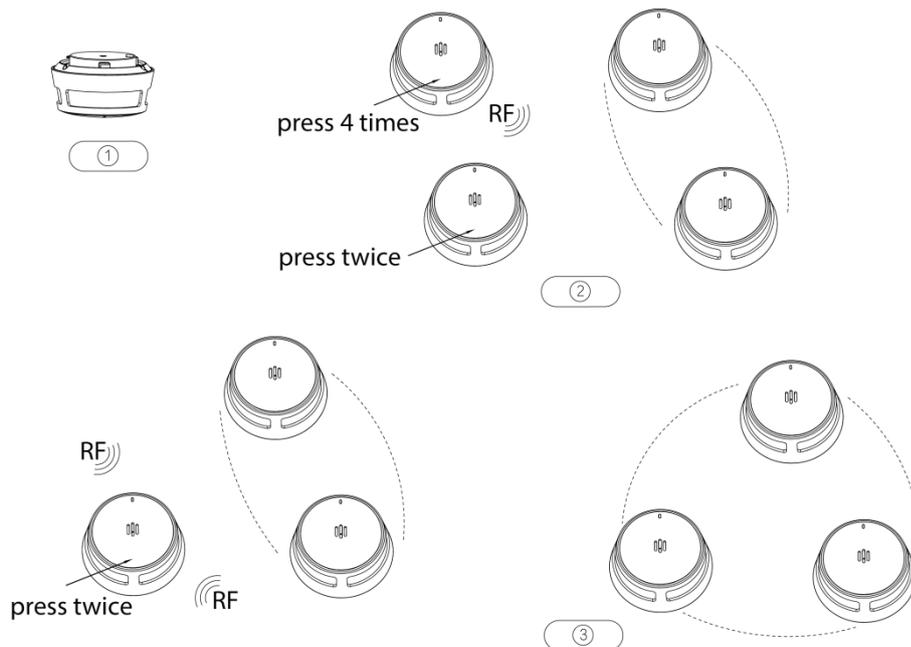
Step 5 If you want to connect more devices, please repeat **Step 4**.

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Up to 24 wireless smoke alarms can be interconnected this way.

Step 6 Refer to "Chapter 5 Operation", test all wireless interconnected smoke alarms before installation to ensure they are interconnected well.

Figure 4-1 Interconnect device

How to disconnect

Step 1 Continuously press TEST / ◀× 4 times on the device that needs to unpair with other smoke alarms, and the device emits 1 short quick beep and red LED indicator starts to flash continuously.

Step 2 Press and hold TEST / ◀× until the red LED indicator goes out, then release the button. If the disconnection finished, the red LED indicators on all smoke alarms in the interconnected network will flash once, then the green LED indicator will flash once together with buzzer beeps once. You can connect it again to join an interlinked network.

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Please disconnect all the wireless interconnected smoke alarms if you want to use them in another interconnected network.

4.2 Pair with the wireless gateway

You can add a Wireless Gateway into the network which will allow you to receive updates on the network when you're away from home. The Gateway will communicate with the Wisualarm App via your home's internet connection, enabling you to receive a push notification timely.

Prerequisites

Make sure that the wireless gateway has a stable internet connection.

⚠️ **WARNING**

Pair alarms one by one to ensure successful pairing. Otherwise, the pairing will fail or device malfunction may occur.

How to pair

Step 1   Press the **Pairing** button on the wireless gateway 3 times. The green indicator is flashing continuously (about once every 0.5 seconds), indicating that it is searching for a device to connect to.

Step 2   Press TEST/ 🔇 on one wireless interconnected alarm continuously 3 times to enter the pairing mode. The device beeps once, and the green LED indicator flashes, indicating the device enters pairing mode and is searching for a new device to be added.

Step 3   Once the pairing is successful, the wireless alarm will beep once and the green LED indicator flashes slowly for 3 minutes. After this, the device will be in normal monitoring mode.

Step 4   (Optional) Repeat **Step 2** to pair with other interconnected alarms.

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The wireless interconnected alarm will enter the pairing mode for 1 minute. If there is no response over 1 minute, the device will exit pairing automatically. Alternatively, you can press the **Pairing** button on the wireless gateway once to force it to stop pairing mode immediately.

Figure 4-2 Pairing
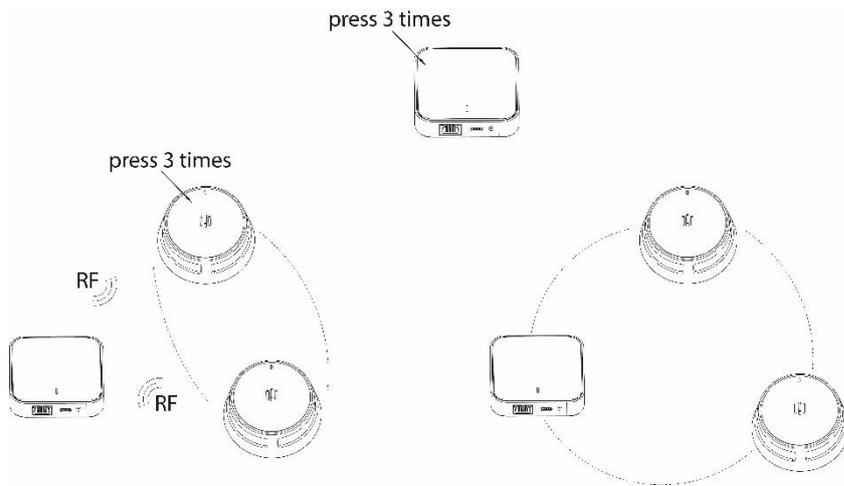
5.Operation

After the installation of the device or regular maintenance, a test must be carried out to confirm that the Device is operating properly.

During the testing process, the defective device should be addressed according to "Frequently Asked Questions" and "Maintenance", and then tested again. If it fails to complete the test successfully, please send the device to the manufacturer for repair.

5.1 For a single smoke alarm

Test

Press `TEST/◀×`, the red LED indicator will flash once with a short beep. Then the buzzer will beep 3 times continuously together with the red LED indicator flashing 3 times for two cycles.

Silence/Pause the alarm

When the smoke concentration reaches a predetermined threshold, the LED indicator flashes, and the buzzer beeps (85dB). Press `TEST/◀×` on the device to temporarily mute alarm sound and the device will be in the silence mode for 9 minutes.

⚠ **CAUTION**

You can silence this device with an infrared remote controller by pressing the button on it and the device will pause the alarm. The alarm will automatically exit silence mode after 9 minutes.

5.2 For interconnected smoke alarms

Test

- Press and hold `TEST/◀×` on any interconnected smoke alarm until other interconnected smoke alarms in the network start to beep.
  The initiating device will beep continuously with the red LED indicator flashing. After receiving a signal, other interconnected devices in the network start beeping with the indicator lights flashing red and green alternately.
- Release `TEST/◀×` on initiating interconnected device, the initiating device stops flashing and beeping, and other interconnected devices stop testing soon.

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Press and hold `TEST/◀×` on disconnected device, the phenomenon is similar to the audible-visual performance in the 5.1 TEST.

Silence/Pause the alarm

Once the initiating device triggers an alarm, the device beeps with red LED indicator flashing once per second. After several seconds, other interconnected devices receive alarm signal with red LED indicator flashing and the buzzer beeping 3 times (once per second).

- Press TEST / 🔇 on initiating interconnected device.
  All interconnected devices are temporarily silenced.
- Press TEST / 🔇 on any other interconnected device.
  All interconnected devices are temporarily silenced except for the initiating one.

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6.Device Installation

6.1 Packing List

Check the package according to the following checklist. If you find device damage or any loss, contact the after-sales service.

Table 6-1 Checklist

Name	Quantity
Smoke Alarm	1
Self-tapping Screw	2
Expansion Bolt	2
Mounting Plate	1
User's Manual	1

6.2 Installation Position

⚠ CAUTION

This device is intended for use in ordinary indoor locations of family living units. Construction and layout of individual dwellings will vary, so this should be regarded as a reference only. For further guidance, please check with your local fire station.

Figure 6-1 Overall layout

- Installed on the ceiling.
  If the device is installed on the ceiling, install at a distance of 20 inches (500 mm) away from the corners of the room.

Figure 6-2 Installation position (1)
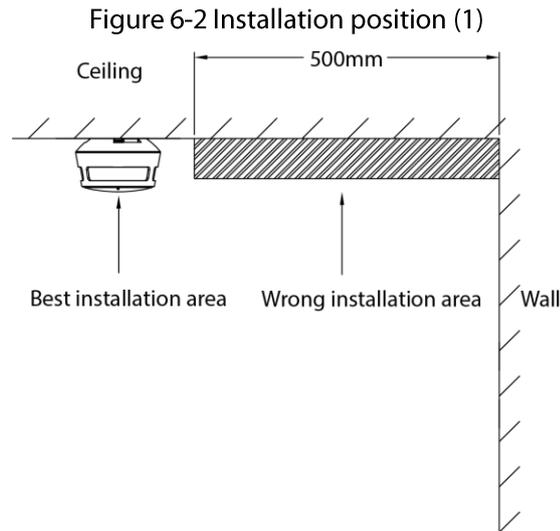
● Installed on the sloping roof.

When the slope is less than 45°, the appropriate distance is 20 inches (500 mm). When the slope is more than 45°, a wood should be installed.

Figure 6-3 Installation position (2)
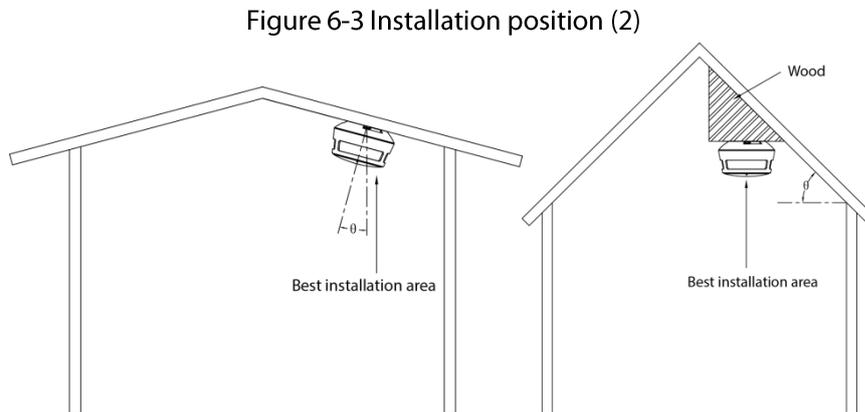
6.3 Installation Steps
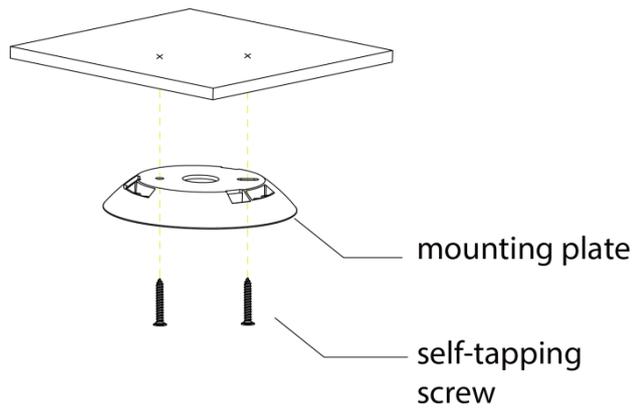
Follow below steps to install the device properly.

Step 1 Choose suitable place to install your smoke alarm.

Step 2 Drill holes (Φ6 mm [0.24"]) on the wall, and then align the screw holes on the wall with the expansion bolts.

Step 3 Fix the mounting plate with self-tapping screws.
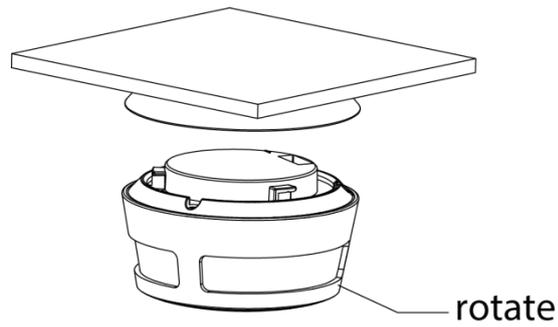
Figure 6-4 Installation step (1)

mounting plate

self-tapping
screw

Step 4   Install the Device.

Rotate the device according to the corresponding position and direction as shown in the figure.

⚠ WARNING

The device will automatically power up after rotating. Please lock the alarm firmly to activate the device.

Figure 6-5 Installation step (2)

rotate

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7.Maintenance

To keep your device in good working condition, please follow these requirements.

- Simulate fire alarm test: Test the device once a week.
  Under normal working conditions, press TEST / ◀× to ensure that the device can work normally.
  If there is a malfunction, please repair it in time.
- Clean the shell: Clean the device at least once per year (recommended).
  Keep the device free of dust or inserts by gently vacuuming the shell with a soft brush attachment when required. Avoid cleaning solutions on the device to prevent the possibility of contaminating the sensor. After cleaning, please install the device and test again.
- Do not paint the device. Paint will seal the vents and interfere with the sensor's ability to work normally.
- When the battery voltage is lower than a certain threshold, LED indicator flashes and the buzzer beeps every minute until the battery is depleted. Please replace the device immediately or contact technical support for advice.

When the detector stops working properly, please contact your local dealer or retailer for help.

8.Frequently Asked Questions

Problem	Solutions
Your smoke alarm does not sound during testing	● If testing immediately after first activating the alarm, you should allow a few seconds for the alarm to settle before testing. ● Make sure you press TEST/ ◀× firmly.
Your smoke alarm chirps intermittently	● Check the location of your smoke alarm (see "Installation Position"). ● Clean the smoke alarm (see "Test and Maintenance").
The LED indicator flashes red and the alarm sounds one beep every 60 seconds	● The device is under low battery condition, please replace the device immediately. ● Please contact technical support for advice.

9.Disposal

Waste electrical products should not be disposed of your other household waste. Please dispose in an environmentally friendly manner, and strictly follow the local regulations regarding the disposal or recycling of the electrical device.

WARNING

Do not burn or dispose of in fire.

10. Warranty and Contact

If you need after-sales service, please contact your local dealer or retailer.

Western EU Importer: Dahua Europe B.V.

Address: Houtsingel 19, 2719EA Zoetermeer, The Netherlands

Email address for service purposes: support@wisualarm.com

CEE & Nordic Importer: Dahua Technology Poland Sp. z o .o.

Address: ul. Salsy 2, 02-823 Warszawa

Email address for service purposes: support@wisualarm.com

UK Importer: Dahua Technology UK Ltd.

Address: 3rd Floor, Quantum House, 60 Norden Road, Maidenhead, SL6 4AY

Email address for service purposes: support@wisualarm.com

Germany Importer: Dahua Technology GmbH

Address: Niederkasseler Lohweg 185, 40547 Düsseldorf

Email address for service purpose: support@wisualarm.com

11. Documents

The batteries contained in the product, if any, have been tested in compliance with Regulation (EU) 2023/1542.

Hereby, Zhejiang Huaxiao Technology Co., Ltd. declares that the radio equipment type Smoke Alarm is in compliance with Directive 2014/53/EU.

The full text of the EU declarations of conformity and EU declarations of performance is available at the following internet address: https://www.wisualarm.com/en/ServiceSupport/DownloadCenter

For more information, please scan the QR code below or visit *https://www.wisualarm.com/en/Products/ALL.*