



Wireless Interconnected Heat 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.
- If there is any question as to the cause of an alarm, it should be assumed that the alarm is due to an actual fire and the dwelling should be evacuated immediately.



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 heat alarm is only designed for indicating the temperature, but it cannot detect gas, smoke 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 temperature.

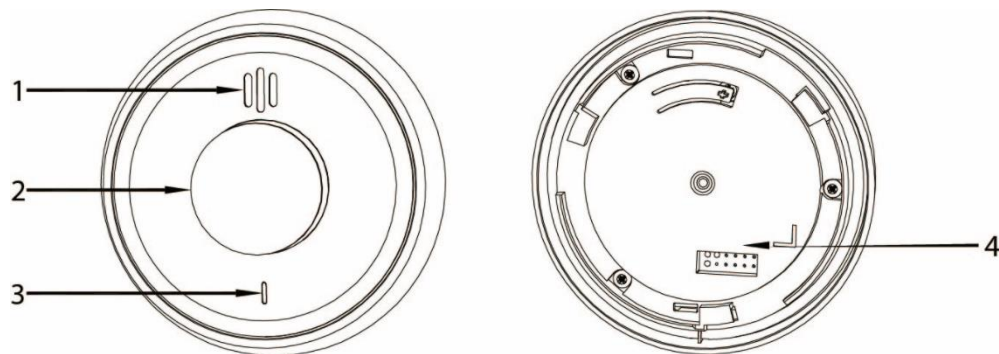
2.Introduction

2.1 Product information

Heat Alarm (hereinafter referred to as the device) is specifically designed to continuously monitor temperature. Integrated with a high-precision thermistor and an intelligent algorithm, it triggers an alarm when a predetermined temperature is reached. It is ideal for smoky, dusty, or humid areas that may trigger false smoke alarms, e.g., kitchens where cooking fumes are present and attics, garages boiler rooms where there may be lots of dust. By using heat alarms, you can monitor these areas for a fire, without having to worry about a false alarm. Powered by a 10-year sealed battery, it provides 24/7 protection against fire for a decade. With a built-in RF module, the device enables you to wirelessly connect up to 24 heat 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.

The heat alarm is specified for Class A1 detection. Your heat alarm will sound a warning when the ambient temperature in a room is between 54°C and 65°C.

2.2 Product profile



No.	Name	Introduction
1	Buzzer	Alarm Sound: 85dB (A) at 3 m (9.84 ft)
2	Test/Silence Button	The large central push button enables you to test and silence the alarm. By pressing the central button, you can: ● Verify the normal working ● Temporarily stop the alarm sound
3	Indicator	● Standby: Green indicator flashes once per minute ● Alarm: Red indicator flashes once per second, the buzzer beeps once per second ● Fault: Red indicator flashes twice per minute, the buzzer beeps twice per minute

No.	Name	Introduction
4	Battery Compartment	Built-in battery, not replaceable by user

3. Technical Information

Specification	Introduction
Collection Type	Temperature
Sampling Period	10s
Sensor Type	Thermistor
Alarm Type	Heat alarm, fault warning, low battery warning
Alarm Volume	85dB (A) at 3 m (9.84 ft)
Alarm Mode	Visual and audible alarm
Silencing Function	Yes
Indicator Light	Alarm, fault and operation indicator
Led Instructions	● Standby: Green indicator flashes once per minute ● Alarm: Red indicator flashes once per second, the buzzer beeps once per second ● Fault: Red indicator flashes twice per minute, the buzzer beeps twice per minute
Battery Life	10 years
Operating Voltage	3V CR123A lithium battery (non-replaceable)
Detection Class	Class A1 fire detection (54°C to 65°C)
Operating Current	● Monitoring current: $\leq 15\mu\text{A}$ ● Alarm current: $\leq 80\text{mA}$
Operating Temperature	-10°C to +55°C (+14°F to +131°F)
Operating Humidity	$\leq 95\%$ RH (non condensing)
Operating Frequency	868MHz / 925MHz
Maximum Number of Interconnected Units	24 pcs
Radio Signal Range	● 868MHz: Up to 1000 m (3280.84 ft) in open air ● 925MHz: Up to 500 m (1640.42 ft) in open air
Maximum Transmitted Power	● 14.2dBm (-R8) ● 3.7dBm (-R9)

Specification	Introduction
Color	White
Casing	PC
Dimensions	φ93.8mm × H46.9mm (φ3.69" × H1.85")
Weight	115 g (0.25 lb)
Installation	Ceiling Mount
Certifications	CE
Compliance Standard	BS 5446-2:2003

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

- Fix your heat alarm on the mounting plate firmly to turn on the device.
- Make sure all heat alarms are powered on to ensure a successful interconnection.



WARNING

Make sure that only 2 heat 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 the **Test/Silence** button 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 0.5 seconds), indicating the device 1 enters the interconnecting receiving mode.



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

Step 2 Press the **Test/Silence** button 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 (about once every 0.25 second), 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 the **Test/Silence** button on device 2 to force it enter the normal standby state immediately.



Device 1 will be in interconnecting mode for 3 minutes with red LED indicator flashing once every 0.5 seconds. During this period, you can pair several wireless interconnected heat alarms one by one. If needed, you can manually press the **Test/Silence** button 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 the **Test/Silence** button twice on device 3 to enter the interconnecting transmission mode. If the interconnecting receiving mode of device 1 surpasses 3 minutes, then press **Test/Silence** button on either of the two previously interconnected devices 4 times to enter the interconnecting receiving mode, then press the **Test/Silence** button 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 the **Test/Silence** button on device 3 to force it enter the normal standby state immediately.

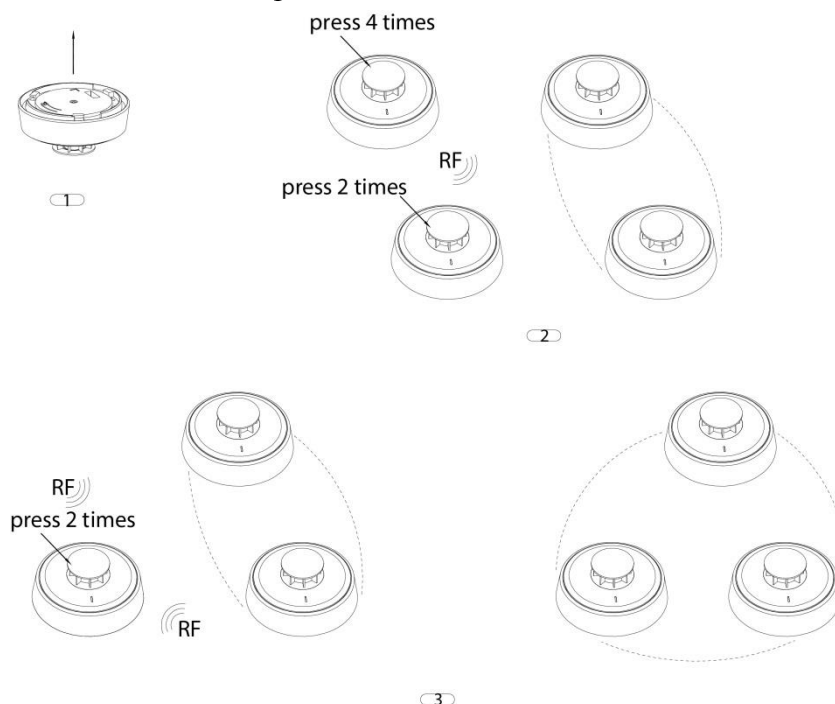
Step 5 If you want to connect more devices, please repeat **Step 4**.



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

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

Figure 4-1 Interconnect device



How to disconnect

Step 1 Continuously press the **Test/Silence** button 4 times on the device that needs to unpair with other heat alarms, and the device emits 1 short quick beep and red LED indicator starts to flash continuously.

Step 2 Press and hold the **Test/Silence** button until the red LED indicator goes **out**, then release the button. If the disconnection finished, the red LED indicators on all heat 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.



Please disconnect all the wireless interconnected heat 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.

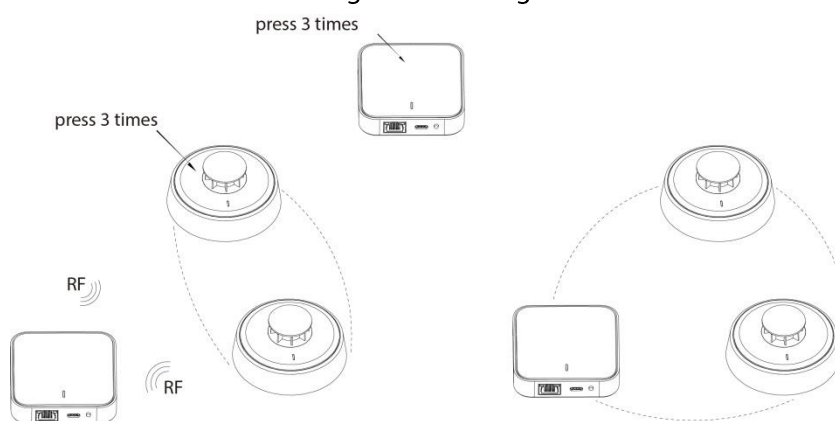
How to pair

- 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 the **Test/Silence** button 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 1 minute. After this, the device will be in normal monitoring mode.
- Step 4** (Optional) Repeat **Step 2** to pair with other interconnected alarms.



The wireless interconnected alarm will enter the pairing mode for 1 minute. If there is no response over 1 minute, the gateway 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 heat alarm

Test

Press the **Test/Silence** button, the buzzer will beep once and the red LED indicator light will flash once, and then the buzzer will beep continuously for two times and two cycles, accompanied by the red LED indicator flashing two times.

Silence/Pause the alarm

When the temperature reaches a predetermined threshold, the LED indicator flashes, and the buzzer beeps (85dB). Press the **Test/Silence** button on the device to temporarily mute alarm sound and the device will be in the silence mode for 9 minutes.



WARNING

NEVER IGNORE ANY ALARM.

If an alarm is sounding, it is warning you of a potentially hazardous situation. Do not ignore it. Ignoring the alarm may result in injury or death. If your heat alarm activates and you are not absolutely certain of the source of fire, get everyone out of the house immediately.



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.

Avoid receiving unintentional signals from other infrared sources (such as the remote control or other external remote control signals), which may cause abnormal alarm silence. It is also necessary to pay attention to the installation environment (where infrared signals such as televisions cannot be directly received).

5.2 For interconnected heat alarms

Test

- Press and hold the **Test/Silence** button on any interconnected heat alarm until other interconnected heat 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 the **Test/Silence** button on initiating interconnected device, the initiating device stops flashing and beeping, and other interconnected devices stop testing soon.



Press and hold the **Test/Silence** button on disconnected device, there is no visual and audible alarm.

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 the **Test/Silence** button on initiating interconnected device.
All interconnected devices are temporarily silenced.
- Press the **Test/Silence** button on any other interconnected device.
The device that has been pressed is temporarily silenced.

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
Heat Alarm	1
Self-tapping Screw	2
Expansion Bolt	2
Mounting Plate	1
User's Manual	1

6.2 Installation Position

In which room should the Device be installed?

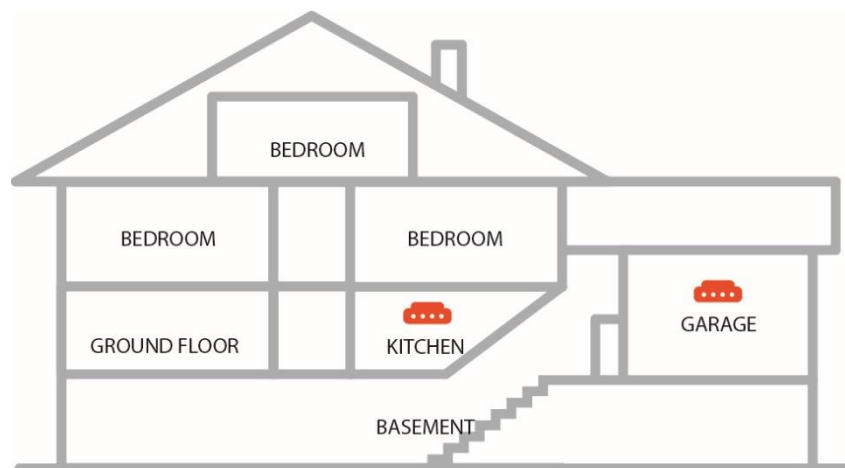
Your heat alarm is suitable for use in mobile homes and caravans. This heat alarm is not intended for any non-residential, commercial or industrial application, nor for any other purpose than described.

Heat alarm is suitable for kitchens, garages, lofts, boiler rooms and laundry rooms. For the best protection, heat alarms should always be installed as part of a complete fire protection system that includes smoke alarms. Heat alarm should never be used as an alternative or replacement to smoke alarms with a view to providing early warning of smoke, fire or heat.



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



Where in the room should the Device be installed?

- Heat alarms should be sited on the ceiling, ideally in the center of the room.
- Site alarms 300 mm (12") at least from walls, light fittings, or other obstructions. Install your heat alarm at a distance no greater than 5.3m from the farthest wall, no greater than 5.3m from a door to any room in which a fire might start, and no greater than 5.3m from the next heat alarm.
- Alarms should not be sited within or too close to a bathroom door as steam and moisture can affect them.
- Avoid the area close to fluorescent lights as the flickering light may trigger the alarm or affect its operation.
- Ensure that the alarm is outside of any dead air spaces that occur in corners and spaces where the airflow may be blocked.
- When a heat alarm is installed in peaked and sloped ceilings, a maximum of 150 mm vertically down from the apex on the slope is required.
- The alarm should have its vents easily accessible for testing and maintenance.

WARNING

Heat alarms should not be wall mounted.

Figure 6-2 Recommended location (1)

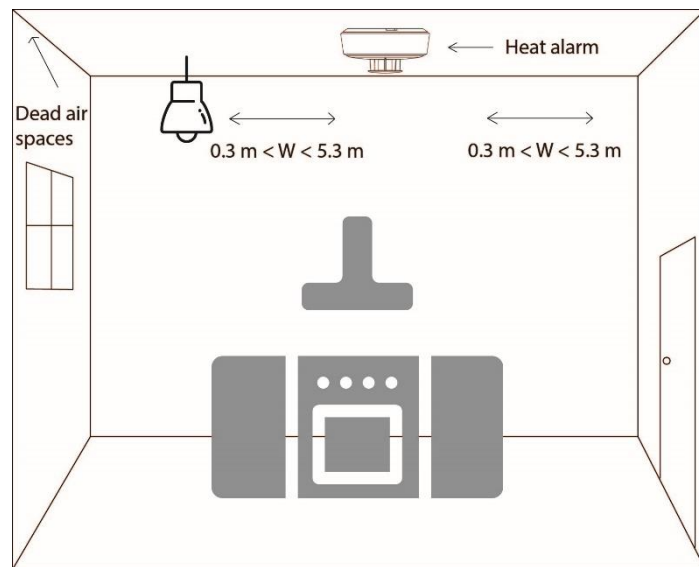
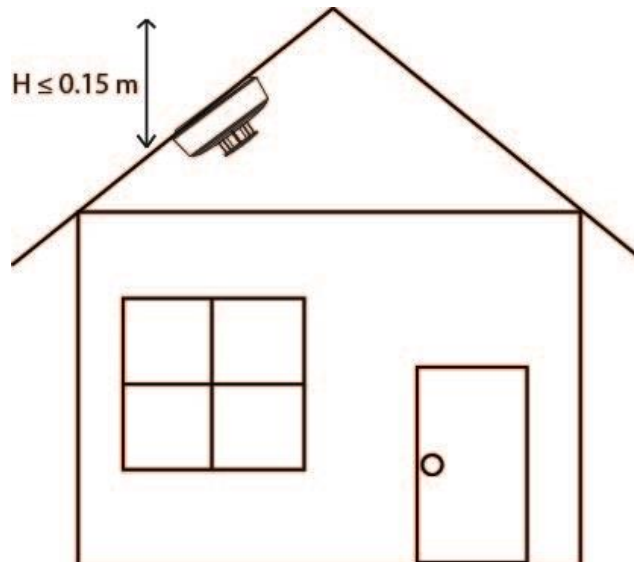


Figure 6-3 Recommended location (2)



6.3 Installation Steps

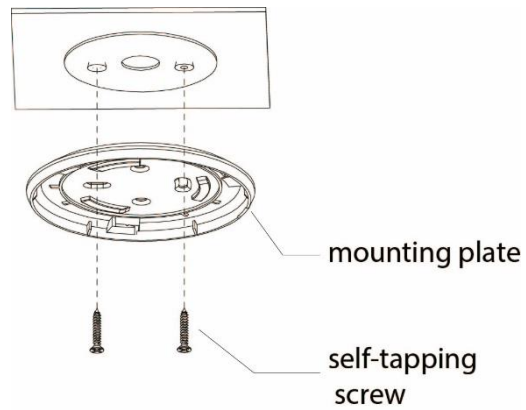
Follow below steps to install the device properly.

Step 5 Choose suitable place to install your heat alarm.

Step 6 Drill holes ($\Phi 6\text{ mm}$ [0.24"]) into the ceiling, and then align the screw holes on the wall with the expansion bolts.

Step 7 Fix the mounting plate with self-tapping screws.

Figure 6-4 Installation step (1)



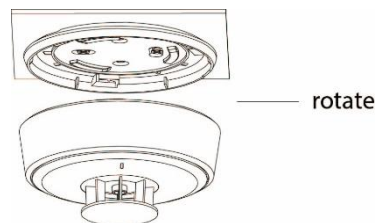
Step 8 Install the Device.

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



Please ensure it is firm.

Figure 6-5 Installation step (2)



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 the **Test/Silence** button 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, indicator flashes once and the buzzer beeps once every minute until the battery is depleted. Please immediately 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 heat alarm does not sound during testing	● Check that the alarm is activated. ● If testing immediately after first activating the alarm, you should allow a few seconds for the alarm to settle before testing. ● Make sure you push the Test/Silence button firmly.
Your alarm chirps intermittently	● Check the location of your heat alarm (see "Installation Position"). ● Clean the heat 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. Discard



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 throw into 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

Hereby, Zhejiang Huaxiao Technology Co., Ltd. declares that the radio equipment type Heat 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://en.wisualarm.com/en/Download>

For more information, please scan the QR code below or visit <https://en.wisualarm.com/en/Product>