



Wireless Interconnected Module

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

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.

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.

2.Introduction

Wireless Interconnected Module is an optional add-on interconnected module for the Wisualarm mains-powered alarm units which require wireless connection. This small size module is a simple and cost-effective way to enable the Alarm to communicate wirelessly with other WisuLink devices. Up to 24 WisuLink RF devices can be interconnected.

3. Technical Information

Specification	Introduction
Power Supply	Powered from Alarm Head
RF Range	A minimum of 100 metres in free space
RF Visual Indicator	● Flashing Red: RF transmission ● Flashing Blue: Successfully interconnected
RF Frequency	868 MHz or 925 MHz
Maximum Transmitted Power	12.6dBm (-R8) 3.7dBm (-R9)
Interconnect	Up to 24 WisuLink RF devices
Operating Temperature	-10°C to +55°C (+14°F to +131°F)
Operating Humidity	≤95% RH (non condensing)
Color	White
Casing	PC+ABS
Dimensions	53.5 mm × 38.2 mm × 11.7 mm (2.11" × 1.50" × 0.46")
Weight	11.9 g (0.03 lb)
Certification	CE, UKCA, RCM

4.Device Installation

4.1 Installation

Follow below steps to install the device properly.

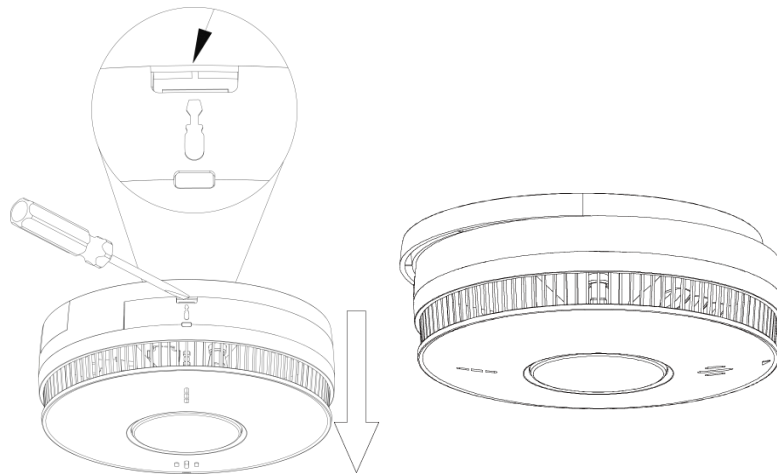
Step 1 Disconnect the AC mains supply from the circuit that will be used.

Step 2 Using a screwdriver, insert into the removal slot on the side of the Alarm. Slide the alarm head away from the screwdriver to detach it from the mounting plate.



Make sure that you hold the alarm head consistently in case of dropping to the ground.

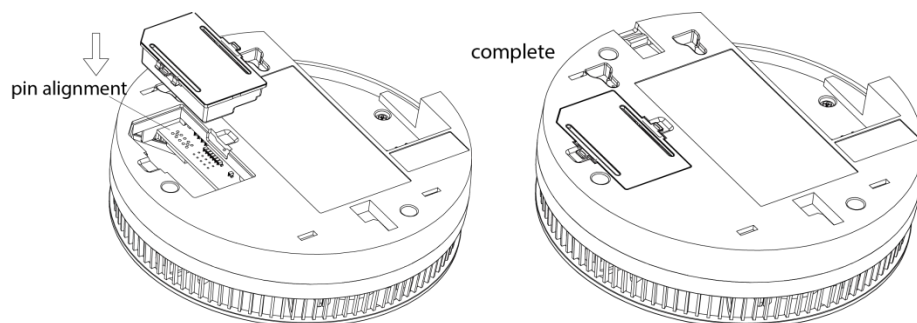
Figure 4-1 Installation (1)



Step 3 Plug module into the bottom of alarm head.

Hold the module, align the connection pins properly and insert them perpendicularly to the base.

Figure 4-2 Installation (2)

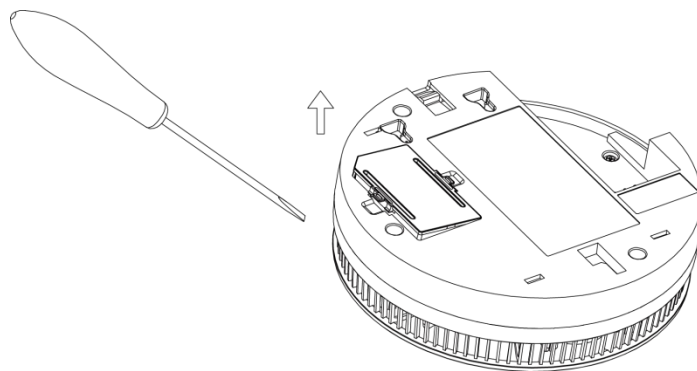


Step 4 Connect mains supply.

4.2 Removal

If you want to remove or replace a module already fitted to an alarm, please insert a slotted screwdriver to lift by a few millimeters to release the connection pins.

Figure 4-3 Removal



5.Interconnection

5.1 How to interconnect the new Alarms

- Step 1 Install the wireless interconnected module on the device.
- Step 2 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 will flash continuously (about once every 0.5 seconds), indicating that device 1 has entered the interconnecting receiving mode.
- Step 3 Install the wireless interconnected module on the device 2.
- Step 4 Press the **Test/Silence** button on the device 2 twice (the interval between each press is less than 1 second), this device will emit 1 short quick beep and 1 blue blink, indicating the device is successfully interconnected.



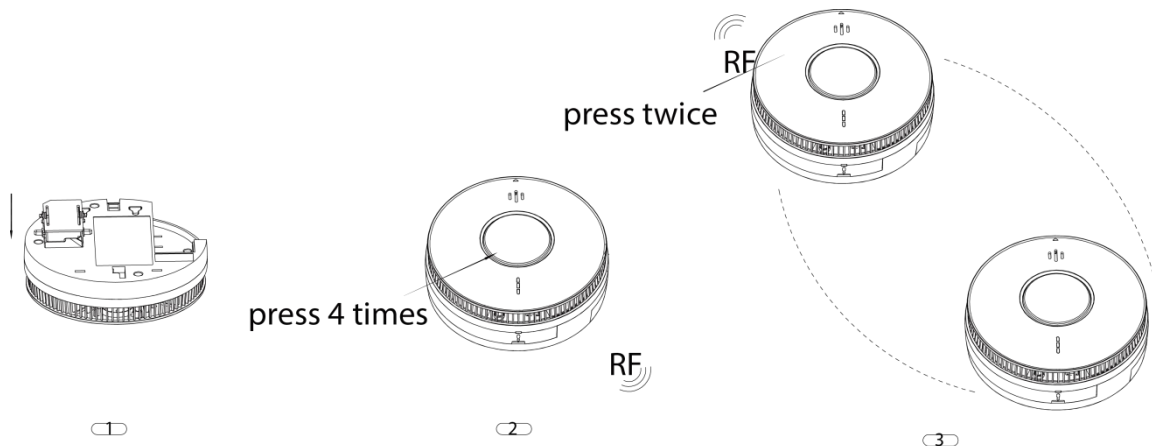
If the communication LED does not respond properly, please keep the operation until the blue indicator flashes.

- Step 5 Repeat the above operations to add more RF alarms in the system, and make sure all communication indicators flash blue.



Up to 24 RF alarms can be interconnected this way.

Figure 5-1 Interconnection (1)



5.2 How to interconnect the Alarms in existed network

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

- Step 1 If you want to interconnect the alarms in existed network, press the **Test/Silence** button 4 times on device 2 (a previously interconnected device) to enter the interconnecting receiving mode, with indicator flashing red and buzzer beeping once. This alarm will transmit a RF message to all the previously interconnected devices to re-enter interconnection mode.

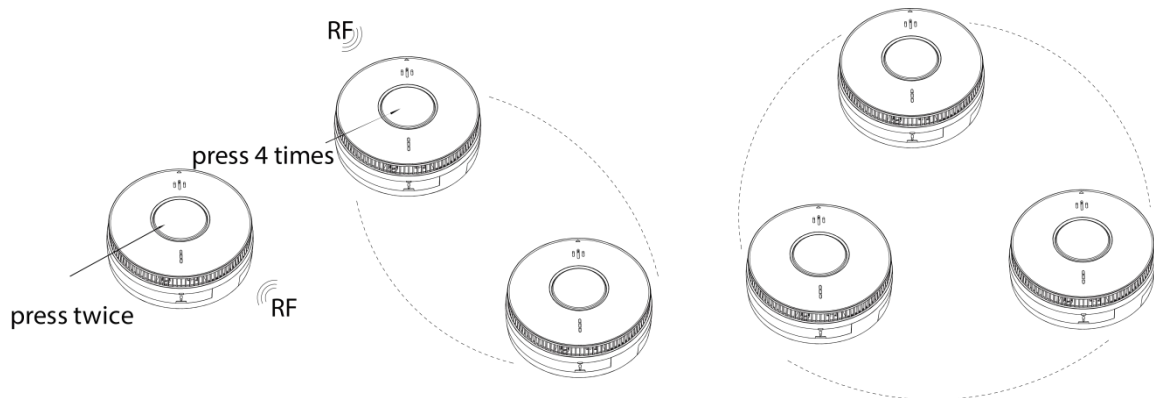
Step 2 Install the wireless interconnected module on the device 3.

Step 3 Press the **Test/Silence** button twice on device 3 to join interconnected network, and this device emits 1 short quick beep and 1 blue blink.



Device 2 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 hardwired alarms one by one. If needed, you can manually press the **Test/Silence** button to help device 2 quit the interconnecting mode, green LED indicator flashes once, then device 2 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 2, the device 3 will follow device 2 to quit the interconnecting mode and enter the normal standby state.

Figure 5-2 Interconnection (2)



5.3 How to build a hybrid network (mixed hardwired interconnect and wireless interconnect)

With the help of module, a mixture of hardwired and wireless interconnection can be realized.

If a hybrid system is adopted, select a device 1 from a hardwired interconnected system and device 2 from a wireless interconnected system.

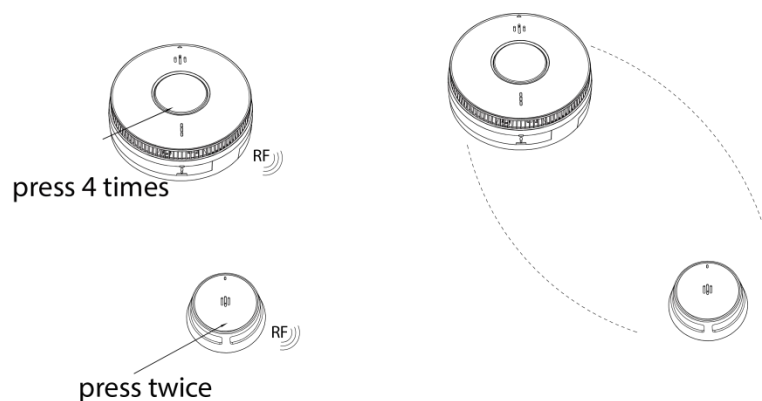
Step 1 Install the wireless interconnected module on the device 1.

Step 2 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.

Step 3 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 4 Red LED indicator on device 2 will go out and it will emit 1 short quick beep, then the green LED indicator will flash continuously, which means the pairing between two devices succeeds.

Figure 5-3 Interconnection (3)



5.4 How to disconnect the alarms

- Step 1 Continuously press the **Test/Silence** button 4 times on the device that needs to unpair with other 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 green LED indicator on all smoke alarms in the interconnected network will flash once together with buzzer beeps once. You can connect it again to join an interlinked network.



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

6.Indicator Summary Tables & Troubleshooting

State	Green LED (Power)	Yellow LED (Fault)	Red LED (Alarm)	Blue LED (Communi cation)	Buzzer
Normal RF transmission between devices	-	-	Flash	-	Beep once
Successfully interconnected	-	-	-	Flash	Beep once

7. Interconnection Test

When to test the system

A test must be carried out to verify the proper functioning of the WisuLink system under the following circumstances:

- Completion of the system installation.
- Regularly (preferably once a month).
- The house is vacant for an extended period.
- After repairing or replacing any of the system components or household electrical appliances.
- House is renovated.

How to test the interconnection

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

8. Identifying the Fire Source

In a hybrid system consisting of Smoke/Heat/CO Alarms, it is significant to identify the sources of alarm and take corresponding actions.



WARNING

Never ignore any alarm. Failure to respond may lead to serious injury or death.

- If the alarm is due to smoke or heat: evaluate the premises and see Smoke/Heat Alarm User's Manual for further guidance.
- If the alarm is due to CO: alert all occupants about the danger and evacuate the premises immediately. Further instructions can be found in the Carbon Monoxide Alarm User's Manual.

9.Frequently Asked Questions

Problem	Analysis	Solutions
After pressing Test/Silence button on the device, the blue communication indicator does not flash	The module is installed improperly	Remove the module, and install it again.
	The LED bulb is broken	Contact the supplier for advice.
Poor RF signal	Some features of a home, such as the number of walls, number/size of rooms, furniture and types of building materials used may weaken the signal strength	Interference from structural conditions can be overcome by adding additional alarms to route the wireless signal around obstructions.
		Shorten the communication path or remove obstacles which block the signal.
		Move the alarms away from metal surfaces or wiring.

10. 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.

11. 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

Australian Importer: Dahua Technology Australia

Address: Suite 1.02, 1 Epping Road, North Ryde NSW 2113

12. Documents

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>.

