## (a)hua | WISUALARM

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# Wireless Interconnected Module

DHI-HY-MRF50-R8

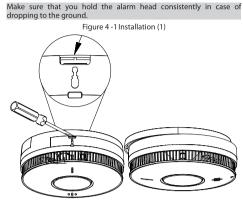
UK & ROI User's Manual V1.0.0

#### **Device Installation** 4.

## 4.1 Installation

- Follow below steps to install the device properly. <u>Step 1</u> 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.





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.

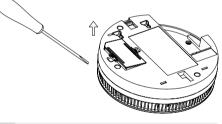
Figure 4 -2 Installation (2)



Step 4 Connect mains supply

please insert a slotted screwdriver to lift by a few millimeters to release the connection pins.

Figure 4-2 Removal



## 5.

## 5.1 How to interconnect mains Alarms with RF interlink only

Prior to permanently installing mounting plates, install the wireless interconnect module into all mains devices in network. Refit heads to mounting plates.

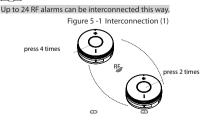
- Step 1 Press the Test/Silence button on device one continuously 4 times (the Interval between each press is less than 1 second). The device emits 1 short quick beep and red LED indicator starts to flash continuously.
- Step 2 Press the Test/Silence button twice on device 2 to create interconnected network with device 1. Device 2 emits 1 short beep, with guick red LED flash and blue LED indicator starts to flash continuous.
- Step 3 Continue to add further new devices as per step 1

network alarms are interconnected.

Step 4 When complete Press the Test/Silence button once on device 1.

Step 5 Press and hold test Test/Silence button and ensure all installed

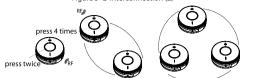
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## 5.2 How to interconnect the Alarms into existing mains wireless network

Step 1 To interconnect alarms into an existing mains RF interconnect network, press the Test/Silence button 4 times on an existing installed network device (to enter interconnecting transmission mode). The device emits 1 short beep, with quick red LED flash and then blue LED indicator starts to flash continuously.

- Step 2 Ensure a wireless interconnected module is installed on the device to be added to existing network and fit head to baseplate.
- Press the Test/Silence button twice on the new device to join Step 3 the existing interconnected network. The device emits 1 short beep and red LED indicator starts to flash continuously
- When complete Press the Test/Silence button once on the Step 4 intiating existing installed network device (to exit interconnecting transmission mode).
- Press and hold test Test/Silence button and ensure all installed Step 5 network alarms are interconnected. Figure 5 -2 Interconnection (2)

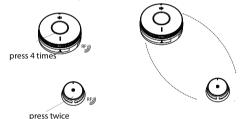


#### 5.3 How to build a hybrid network (mixed hardwire interconnect and wireless interconnect)

Ensure a wireless interconnected module is installed on only one device in mains hardwired interconnect network

- Step 1 Press the Test/Silence button 4 times on device with fitted RF module (to enter interconnecting transmission mode). The device emits 1 short beep, with quick red LED flash and then blue LED indicator starts to flash continuously.
- Step 2 Press the Test/Silence button twice on the new F1 connected capable device to join the existing interconnected network. The device emits 1 short beep, with quick red LED flash and then the green LED indicator starts to flash continuously.
- When complete Press the Test/Silence button once on the Step 3 initiating existing installed network device (to exit interconnecting transmission mode).
- Press and hold test Test/Silence button and ensure all installed Step 4 network alarms are interconnected

#### Figure 5 -3 Interconnection (3)



#### 5.4 How to disconnect/reset the alarms

If alarms are installed via mobile app then delete via the app

- Step 1 Continuously press the Test/Silence button 4 times on the device that needs to unpair with other alarms, the device emits 1 short beep and red LED indicator starts to flash continuously.
- Step 2 On same device, Press and hold the Test/Silence button, the device emits 1 short quick beep and red LED indicator continues to flash. Release the button when the light stops flashing and emits 1 short quick beep.

Please disconnect all wirless interconnected alarms if required for use in another interconnected network

#### **Indicator Summary Tables &** 6. **Troubleshooting**

State	Green LED (Power)	Yellow LED (Fault)	Red LED (Alarm)	Blue LED (Communication)	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.

## WisuAlarm Technology UK & Ireland

Address: Ouantum House, 60 Norden Rd, Maidenhead SL6 4AY Website: https://www.wisualarm.com/uk/home

Hotline: +44 1628 200880

#### 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

# 

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 wireless 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

#### **Technical Information** 3.

Specification	Introduction	
Power Supply	Powered from Alarm Head	
RF Range	A minimum of 100 metres in free space	
RF Visual Indicator	<ul> <li>Flashing Red: RF transmission</li> <li>Flashing Blue: Successfully interconnected</li> </ul>	
RF Frequency	868 MHz or 925 MHz	
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	

Interconnection

# 4.2 Removal If you want to remove or replace a module already fitted to an alarm,

## **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

8.

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

- 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 <b>Test/</b> <b>Silence</b> button on the device, the blue	The module is installed unproperly	Remove the module, and install it again.	
communication indicator does not flash	The LED bulb is broken	Contact the supplier for advice.	
Poor RF signal	Some features of a home, such as the 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.



11. Warranty

WisuAlarm warrants this Alarm for five years from date of purchase (proof required) against any malfunction attributed to materials or workmanship under normal use.

The warranty applies only when the product is installed, used and maintained according to the instructions. It does not cover damage caused by misuse, improper handling, use of force, degraded batteries due to external factors outside of reasonable use and/or WisuAlarm's control, dust, fluids or other environmental factors. If you have a warranty claim, please contact the relevant partner for instructions.

## 12. Documents

The full text of the EU declarions of conformity and EU declarations of performance is available at the following internet address: https://www.wisualarm.com/uk/Download



For more information, please visit: https://www.wisualarm.com/uk/ home