240V Mains Powered Photoelectric Smoke Alarm with 3V built-in battery backup

Model: AJ-710MR-3

Attention: Before using this smoke alarm please take few minutes to read this user manual carefully.

SPECIFICATION

Model	AJ-710MR-3
Excutive standard	AS3786:2014
The alarm condition audible signal pattern	ISO8201
Power supply	220 - 240V ac 50Hz with Lithium battery backup
Backup	10 years
Maximum current	<70mA
Alarm volume	> 85dB at 3 meters
Hush/Silence time	approx. 8 minutes
Interconnection	up to 22 smoke alarms, hardwired up to 22 smoke alarms, RF
Sound pattern	IS08201(BI 0.5s - pause 0.5s - BI 0.5spause 0.5s - BI 0.5s - pause 1.5s withthe red LED flash, repeat this alarm pattern

AS3786: 2014

DESCRIPTION

This unit is a 220 - 240V 50Hz power supply device with 3v lithium battery backup, battery lifetime is 10 years, please assembling the RF module to this smoke alarm to interconnection with other RF smoke alarm from the same brand

Before operate RF interconnection of smoke alarm, please check the smoke alarm and ensure it has connected with power supply correctly and RF module assembling properly.

Step ❶
Long press the smoke alarm button about 4 seconds release the button when red LED flash 4 times, smoke alarm will slow flash red LED twice.

Step ❷
Choose a smoke alarm as a "Master", Keep pressing the smoke alarm button for about 3 second, during this time the LED will flash 3 times, release the button when the red LED flashes 3 times, the smoke alarm will enter the pairing mode and red LED will flash quickly for 1 minute, during this one minute to press once to end the pairing mode in advance if interconnection pairing is completed.
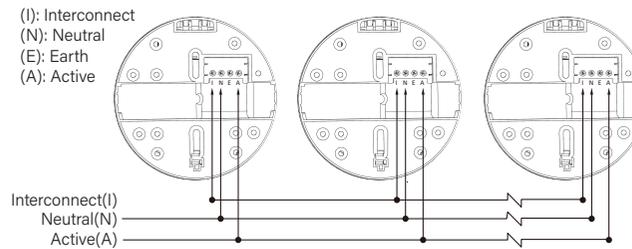
Step ❸
Long press other smoke alarm button and release the button when LED flashes twice to enter pairing mode to pair with "Master" smoke alarm, once success the smoke alarm will sound BI - BI and red LED stop flashing then it means successfully paired - If the device has already in the interconnection group the red LED will long light up and sound BI - BI twice, in this situation please clear the pairing data to pair with the new group refer to Step ❶.
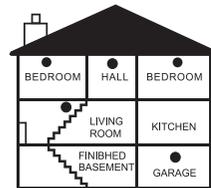
WIRING DIAGRAM FOR WIRED INTERCONNECTION

This smoke alarm has hardware interconnection function, each smoke alarm can interconnected by cable to create a interconnection group, so that if one alarm is activated then all smoke alarms which are linked in the circuit are also sounded.

When connecting circuit please DO NOT TOUCH the power on terminal, connecting the cable to the right terminal position and make sure all the screw has fixed and tighten. Check the cable to ensure no cross line for A:Active cable and I:Interconnect cable.

(I): Interconnect
(N): Neutral
(E): Earth
(A): Active

Interconnect(I)
Neutral(N)
Active(A)

INSTALLATION LOCATION ADVICE

Install at least one smoke alarm in each bedroom and on each floor. For detailed information, please refer to the legislation/building codes in your state.
At a minimum, smoke alarms should be located in sleeping areas and potential sources of fire. In single story residential buildings with only one sleeping area, smoke detectors should be installed in the hallway as close as possible to living accommodations. To ensure clear sound in the bedroom, the smoke alarm should be kept at least 3 meters away from the bedroom door. It may require the installation of multiple smoke alarms, especially if the corridor length exceeds 15 meters. At least two smoke alarms are required outside each sleeping area in a single story residential building and two separate sleeping areas. In multi story or split story homes, at least one smoke alarm should be installed between the stairwell and any room with a fire, starting from the circulation area on each floor and forming partial escape routes (usually corridors and stair platforms).
The bedroom should be pre installed with additional alarms for fires caused by wiring, lighting, electrical appliances, smokers, or other hazardous factors
To achieve the best protection effect, smoke alarms should be installed at every location. In addition to those listed in Section 4, you can use them in any room of your home.
Suggest forming a network group for each layer. A network group is formed within a circle with a diameter of 20 meters to avoid distance linked alarms. Clamp the alarm on the base; Attention: The smoke alarm base will only turn off after installing the battery. Do not attempt to close the alarm without installing the battery. Ensure that the smoke alarm is turned off and then turn on the mains power.
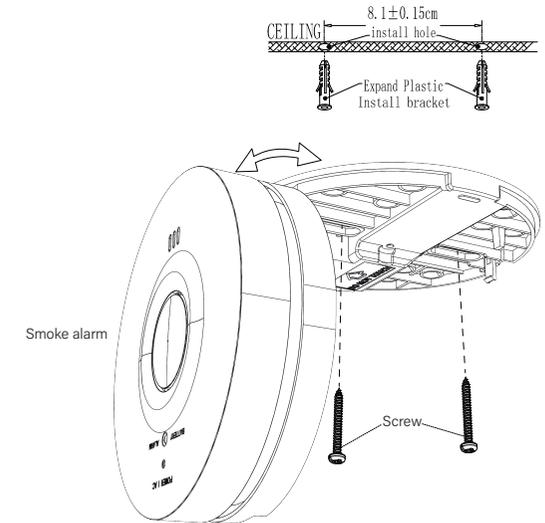
BEDROOM | HALL | BEDROOM
LIVING ROOM | KITCHEN
FINIBHED BASEMENT | GARAGE

● Smoke alarms for limited protection

WARNING: ⚠

This smoke alarm must be installed by a qualified electrician. This smoke alarm is not suitable for installation on walls (vertical); Alarm will not attach to mounting bracket unless battery is installed correctly. Forcefully attaching to mounting bracket without properly installing the battery may cause structural damage to the device
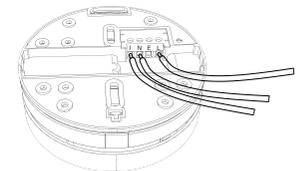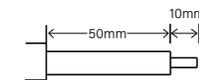
8.1±0.15cm
CEILING — install hole
Expand Plastic
Install bracket

Smoke alarm

Screw

The function of green LED:
LED constantly on indicates mains power supply

The function of red LED:
The red LED lights up every 60 seconds, indicating that the device is working properly and the backup battery is available.

After ensuring that both the green and red LEDs are working properly, you can press the "Test/Mute" button and release it to check if the smoke alarm is working.
The wiring installation must comply with local regulatory requirements.
All wiring shall use 240V insulated wire with a diameter of not less than 1.0mm. Including interconnect wiring
Terminal terms: Active and Neutral. Loop and interconnect terminals, each capable of accommodating 2x1.5mm ".

50mm   10mm

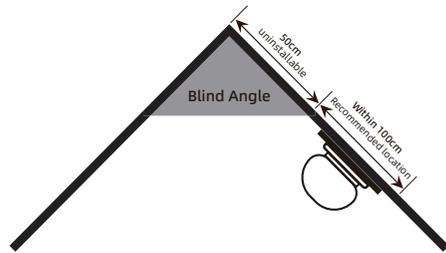**Attention:** "May cause personal injury and equipment damage/fault"

1. All interconnected smoke alarms must be powered by the same circuit.
2. Public neutral points must be used to ensure proper functioning of interconnectivity.
3. Do not connect interconnects to active or neutral.
4. Up to 30 smoke alarm circuits can be installed with wired interconnection.

Not following these instructions may result in personal injury and equipment damage/malfunction.
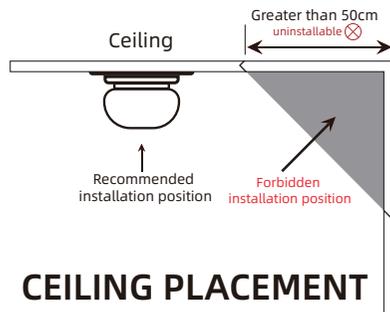
WARNING: ⚠️

Electric shock hazard. Before cleaning according to the cleaning instructions, please disconnect the mains switch that supplies power to the alarm.

*Apart from the external wireless RF module, there are no components inside the product that can be replaced by users

PEAK CEILING PLACEMENT

CEILING PLACEMENT

OPERATION AND TESTING

Testing:

Press the test button to perform the test. If the alarm and battery are working properly, an alarm will sound. If no alarm is sound, it may be caused by a malfunction in the alarm or other wiring.

Attention:

Weekly testing is required.

The green LED light should remain on in the normal state, and the red LED should flash every 60 seconds, indicating that the alarm is working properly.

Alarm conditions:

When the alarm detects combustion products and sounds an alarm, the red LED will light up three times continuously for IS08201(BI 0.5s - pause 0.5s - BI 0.5s pause 0.5s - Bl 0.5s - pause 1.5s with the red LED flash, repeat this alarm pattern. The alarm will continue to sound until the smoke is cleared.

Low voltage state:

The alarm requires sufficient power (3V DC battery) to operate continuously.
If the smoke alarm enters a low voltage state. The device emits an audible "BI" every 40 seconds and flash the red LED once. When this situation occurs, the alarm must be replaced immediately. Your smoke alarm will continue to emit low voltage alarms for approximately 30 days, and the alarm will not function properly, which means that the smoke alarm will not sound the alarm correctly to you in case of a fire. After replacing the battery, the low battery warning will stop.
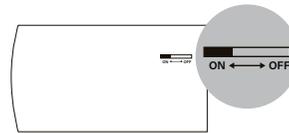
Alarm silence:

Attention:

When the smoke alarm emits an alarm state:

Press the button, and the alarm will stop sounding. If smoke persists, the alarm will resume sounding after about 8 minutes. During the silence period, if the smoke concentration decreases and the alarm will return to normal operation. The red LED status light will flash every 60 seconds.

This smoke alarm is equipped with a non-user-replaceable built-in lithium battery with a ten-year lifespan and features a dedicated power disconnect switch, allowing users to safely cut off the power without disassembling the alarm (including the housing or circuitry).

Steps:
1. Remove the alarm from its base (only detach the base; no internal disassembly is required).
2. Locate the ON/OFF switch on the label on the back of the alarm.
3. Power Disconnection: If the switch is in the ON position, slide it to the right to the OFF position to cut off the internal power supply.
4. Power Reconnection: To restore power, slide the switch from OFF back to the ON position to the left.

Important Note:
The power cannot be disconnected using a battery isolation tab. Only the switch controls the power supply—no screws, housing, or internal components need to be removed.

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Smoke alarm fault:

If the smoke alarm fault, it will sound a "BI - BI" and flash the red LED twice at the same time every 60 seconds.
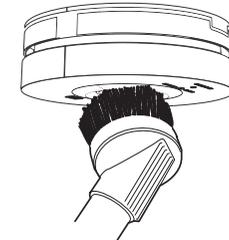
WHAT TO DO IN CASE OF A FIRE IN YOUR HOME

1. Don't panic, stay calm.
2. Alert small children in the home.
3. Leave immediately according to your escape plan. Every second is important, so don't waste time getting dressed or carrying valuable items.

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4. When leaving, do not open any internal doors unless you first feel their surface. If it is very hot or if you see smoke seeping out from cracks, do not open that door! Instead, use the backup exit. If it's cold inside the door, lean your shoulder against it, open it slightly, and be ready to slam it shut when heat and smoke flood in.
5. If there is smoke in the air, please approach the floor. Gently breathe with a cloth, wet if possible.
6. Press and release the mute button, and the alarm sound will stop. Your alarm will be muted and enter a sensitivity reset cycle of approximately 8 minutes.
After leaving, go to the meeting location you have chosen and make sure everyone is there.
7. Call the fire department from your neighbor's house - not from yours!
Don't return to your home until the fire officer that is all right to do so.

ROUTINE MAINTENANCE

1. In addition to weekly testing, the alarm requires cleaning at least once a month to remove dust, dirt, or debris.
2. Use a vacuum cleaner with the soft brush to vacuum all sides and cover of the smoke alarm.
3. This alarm has a low battery monitor. When the battery is low, the alarm sound "BI" approximately every 40 seconds and the red LED flashes once for at least 30 days.

IMPORTANT: ⚠️

Do not attempt to remove the cover to clean the inside, as this will affect the warranty.

Cautions:

1. Photoelectric smoke detectors can reduce the likelihood of a disasters, but cannot guarantee 100% safety.
2. To ensure your safety to the maximum extent possible, please strictly follow this manual to install all smoke detectors.
3. Keep the detector clean. Do not allow dust accumulate, test at least once a week.
4. If it does not working properly, please replace it immediately.

WARRANTY INFORMATION

Only warrants this smoke alarm to the original purchase. Warrants each new smoke alarm is free from defects and workmanship under normal use and service for a period of 2 years from the date of purchase.
This warranty does not cover damage resulting from accident, misuse or abuse or lack of reasonable care of the product.

If the product does not work please contact us for solution:ANKA Sci-Tech Co.,Ltd.

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