



Installation Guide

PIR Motion Detector

WMD33A

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATIONS IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFEERENCE THAT MAY CAUSE UNDESRIED OPERATION

IMPORTANT NOTE:

- The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- To comply with FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

The WMD33A is a wireless intrusion alarm system with the advanced microprocessor-controlled, low-current PIR detector incorporating an on-board miniature UHF transmitter to detect any movement in a protected area. The WMD33A provides versatile wall-mounted PIR detector employing adjustable lens and offering efficient protection patterns for commercial and residential applications, portable alarm receiver allows the user carrying the reported alert to anywhere at house if any intruder crosses or enters any protected zone.

INSTALLATION HINTS

- Do not install the detector to aim at or above to the heat sources.
- Do not install the detector to be exposed to direct sunlight or air drafts.
- Make sure the detection area does not have obstructions (curtains, screens, partitions, large pieces of furniture, plants, etc.), which may block the pattern of coverage.
- Prevent the location of unit from areas that contain objects likely to produce a radiation, such as radiators, microwave oven, ducts, air conditioners, etc.
- Mount the unit on solid, stable surfaces.

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INSTALLATION

A. PIR Motion Detector (Transmitter)

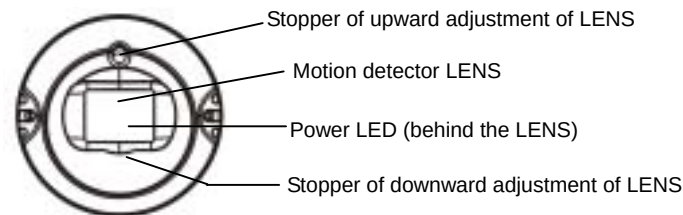


Figure 1. Front View of PIR Motion Detector (Transmitter)

■ Battery Installation.

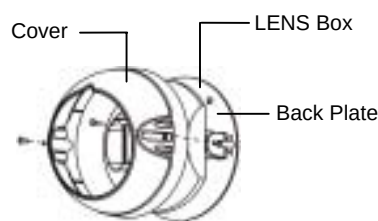


Figure 2. Assembly explosion

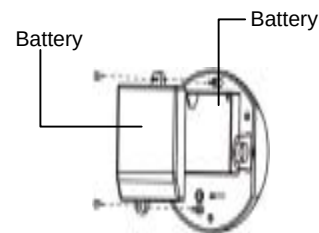


Figure 3. Battery Compartment

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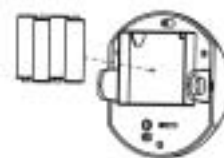


Figure 4. Four (4) "AA" batteries insertion

- Step 1. Remove unit cover and lens box (Figure 2).
- Step 2. Find the battery compartment on the backside of lens box.
- Step 3. Remove battery compartment cover (Figure 3).
- Step 4. Insert four (4) "AA" batteries (not included) following the polarity diagram (Figure 4)

■ Wall Mounting Installation

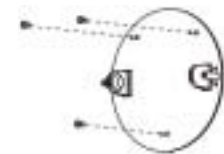


Figure 5. Place the back plate to the wall

- Step 1. Refer to Step 1. of "Battery Installation".
 - Step 2. Choose the desired location on the wall.
 - Step 3. Using the screws provided secure the back plate to the wall (Figure 5).
- NOTE: The height of wall mount = 2 meters above the ground

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■ Setting the Location

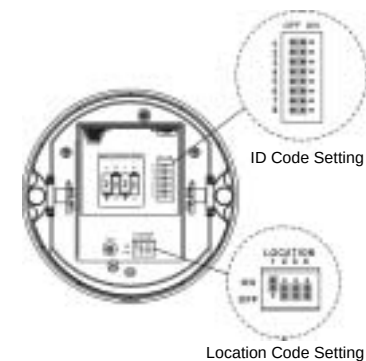


Figure 6. ID Code and Location Setting

■ Setting the ID Code

WMD33A provides the user 256 ID codes set up to prevent the interferences from other PIR motion detector devices installed next to your house. There are eight (8) positions allow the user to set up 256 ID codes (00000000 ~ 11111111) by mini jumpers. Please refer to Figure 6 to set up the ID Code.

NOTE: [ID code] between the transmitter and the receiver must be the same.

Code [0] = Mini jumper is on position [OFF]

Code [1] = Mini jumper is on position [ON]

The function allows the user to install four (4) tramistters in four (4) different locations (channels) at the same time, and the receiver will indicate which transmitter senses the motion by lightened LED (see ② in Figure 7).

To set up the location by mini jumpers, each transmitter only can select one location. Please refer to Figure 6 to select the transmitter's location.



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B. Alarm Receiver

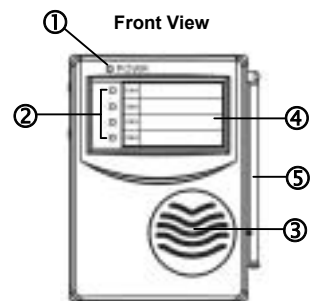


Figure 7. Front View of Alarm Receiver

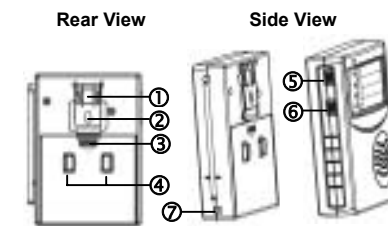


Figure 8. Rear & Side View of Alarm Receiver

① [POWER] :

It is used to indicate the Power on/off, Battery Low and signal trigger.

Power On : Flashing as (0.18s On + 2.7s Off)

Battery Low : Flashing (0.14s On+0.64s Off)

Signal Trigger : Flashing (0.18s On + 0.18s Off) x 8 times

② [CH1] ~ [CH4] :

As soon as PIR motion detector senses the motion, the related LED of [CH1] ~ [CH4] will be turned on. There are four (4) PIR transmitters maximum allowed to connect with one alarm receiver.

③ Speaker :

Door chime or alarm sound output.

④ Paper piece :

It is used for the user to write down the location manually where the PIR motion detector is installed.

⑤ Antenna :

It is used to extend the transmission distance.

① Wall-Mounting Hole : It is used for wall-mounting.

② Hook : It is used for hanging the receiver on the belt or wall, or can be the stand on the desktop.

③ Battery compartment cover : The cover of the battery compartment.

④ Stand slot : It is used for the hook to slide into as the stand when the receiver is put on the desktop.

⑤ [ALARM-CHIME-OFF] : The selection switch for Alarm sound or Door Chime or Power Off the receiver.

⑥ [HIGH-LOW-OFF] : The switch for High volume or Low volume or volume Off.

⑦ [DC-6V] : For connecting 6.0VDC power adapter.

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■ Battery Installation

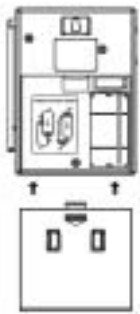


Figure 9. Battery Installation of Alarm Receiver

- Step 1. Slide down the battery compartment cover.
Step 2. Insert four (4) “AA” batteries (not included) following the polarity diagram (Figure 9).

■ Putting on Desktop

- Step 1. Refer to Figure 9 to pull down the hook.
Step 2. Slide hook into the **[Stand Slot]** (Figure 11).

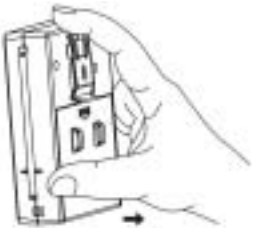


Figure 10. Pull down the hook

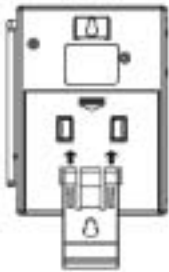


Figure 11. Slide the hook into the Stand Slot

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■ Setting the ID Code

WMD33A provides the user 256 ID codes set up to prevent the interferences from other PIR motion detector devices installed next to your house.

There are eight (8) positions allow the user to set up 256 ID codes (**00000000 ~ 11111111**) by mini jumpers. Please refer to Figure 12 to set up the ID Code.

NOTE: [ID code] between the transmitter and the receiver must be the same.
Code [0] = Mini jumper is put on [OFF] position
Code [1] = Mini jumper is put on [ON] position

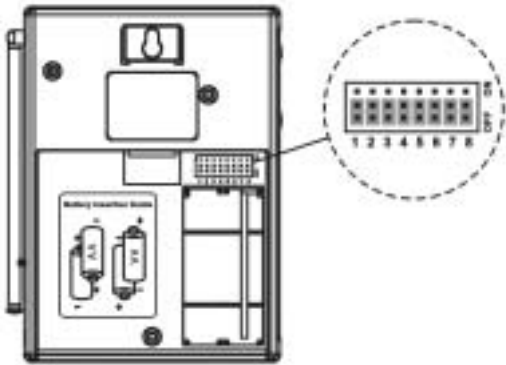


Figure 12. ID Code Setting

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OPERATION

After power on the PIR Motion Detector (Transmitter), there will be a delay of 120 seconds before starting to stand by for trigger. There are 2 kinds of siren sound can be selected; one is door chime and another is alert alarm. If activated and motion is detected, the siren will sound as below :

Door Chime: It will sound for 9 seconds with 21 seconds off.

Alert Alarm: It will sound for 30 seconds continuously.

■ Arming the Alarm

- Step 1. Connect DC power adapter or load the batteries in both PIR Motion Detector and Alarm Receiver.
Step 2. Switch on the power of Alarm Receiver (see ⑤ in Figure 8), LED of [POWER] will be flashing accordingly.
Step 3. Select siren sound (see ⑤ in Figure 8).
Step 4. Select the volume level (see ⑥ in Figure 8).

NOTE : As soon as PIR Motion Detector detects the motion and transmits the signal to Alarm Receiver, it will be in the Watchdog status for 28.6 seconds. During the Watchdog status, PIR Motion Detector will keep on detecting the motion but will not send any trigger signal to Alarm Receiver until the Watchdog status is released.

■ Disarming the Alarm

- Step 1. Switch off the power of Alarm Receiver (see ⑤ in Figure 8).

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FEATURES

- Passive infrared detection.
- Trigger On indicator allows the user to recognize On / Off status of power.
- Battery Low Indicator allows the user to recognize the time to change the battery.
- Up to 4 transmission PIR sensors allow the user to monitor 4 different locations at the same time.
- Location LED indicators allow the user recognize which location detects the motion if more than one location installs PIR sensor.
- Weatherproof (IP44) design for outdoor use.

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SPECIFICATIONS

TX – PIR Motion Detector

	WMD33A-TX	
Standard	FCC	CE
Transmitting Frequency	315 MHz	433.92 MHz
Detecting Max. Range	6M / 110° or 10M / 60°	
Transmitting Distance	Up to 300 feet (in open space, no interference)	
Power Input	1.5VDC AA Cell Battery x 4 (Optional)	
Transmitting Power	75.6 dBμV	80.8 dBμV
Battery Life	Min. 5,000HR (Stand By), Continuous Trigger for 5,000 times	
Sound Selection	Door Chime or Alarm sound alert	
Trigger ON LED Indicator	Trigger On – LED ON	
Warming Time	120 sec. ± 10 sec.	
House/User Code Combination	256 Combinations with 256 User Codes	
Location Code	4 Codes	
Weatherproof	IP44 Rating, for Indoor & Outdoor Installation	
Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)	
Dimension	123.6 mm (W) x 123.6 mm (H) x 71.6 mm (D)	
Weight	150g	

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RX – Alarm Receiver

	WMD33A-RX	
Standard	FCC	CE
Receiving Frequency	315 MHz	433.92 MHz
Volume Control	OFF-LOW-HIGH Adjustable	
Receiving Distance	Up to 300 feet (in open space, no interference)	
Power Input	DC 6.0V Adaptor (Optional)	
	1.5VDC AA Cell Battery x 4 (Optional)	
Battery Life	Min. 75HR (Stand By), 3HR (Continuous Trigger)	
Location LED Indicator	4 LEDs, flashing LED to indicate the location detects the motion	
Receiving Sensitivity	-40 ~ -90 dBm	
Volume	80 dB min.	
Alarm Auto Stop Time (Watchdog)	30 sec. ± 5 sec.	
Chime Auto Stop Time	9 sec. ± 2 sec.	
House/User Code Combination	256 Combinations with 256 User Codes	
Suggested Location	Portable / Desktop / Wall mount	
Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)	
Dimension	76.5 mm (W) x 124.0 mm (H) x 44.0 mm (D)	
Weight	150g	

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