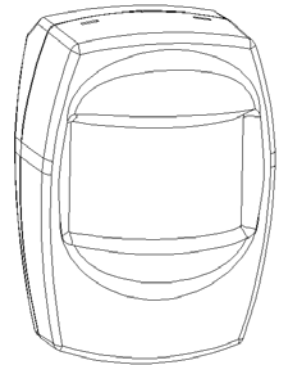


LA5158 WIRELESS PIR SENSOR

USER MANUAL



The Wireless PIR is a dual-element passive infra-red intrusion detector for use in wireless electronic security systems.

The Wireless PIR is easy to install by learning without connecting any cables from the Security Control Unit.

The Wireless PIR is compact, attractive and easy to install, it can be mounted indoors on a wall or in a corner.

The Wireless PIR is ideal for commercial, office and residential applications.

The Wireless PIR detects intrusion by determining changes in infra-red energy patterns.

The Wireless PIR emits no radiation and is harmless to humans & animals.

The Wireless PIR reduces false alarms to a very low level due to its effective elimination of background noises and nuisance stimuli.

Please follow the following steps in order to correctly install

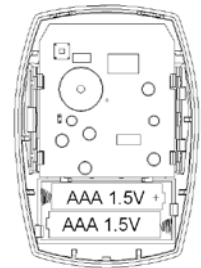
1). Installing batteries in the detector

Note: Do not use rechargeable, zinc carbon or zinc chloride batteries in the detectors.

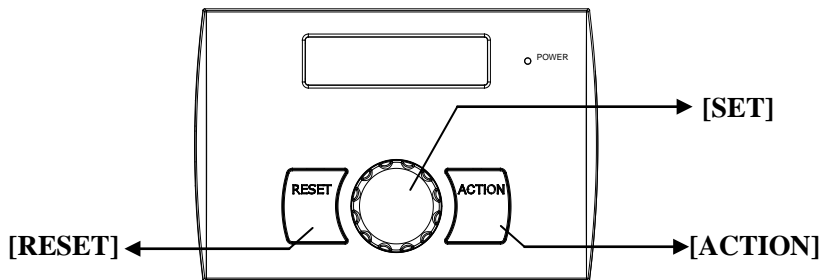
1. Insert two “AAA” size alkaline batteries as shown, taking care to observe correct polarity (Illustration 1).

Note : The wireless PIR has a 2 minute warm-up period after it is powered up.

Illustration 1



2). Programming the detector into your Wireless control unit system



LA5592 Home Automation Controller

Programming PIR into Home Automation Controller system, can select input device type Security Zone or Other, if the PIR set other input device type, it will only use for Matrix Action Input condition.

e.g. Setup the detector parameter: input device 1, Security /Immediate Zone

- It is accessed directly from Day mode via press [SET] key
- Press [SET] key will go into Program Mode
- When cursor indicate SETUP, press [SET] key will go into SETUP program mode

08:00	01- Jan
DAY	
08:00	01- Jan
SETUP	ACT INFO
SETUP MENU	
Setup System?	

- Rotate [SET] key to select Input Device?
and press [SET] key go into Input Device function.
- Rotate [SET] key to select Input 1?
and press [SET] key go into setup input device 1 function.
- Rotate [SET] key to select Device Type?
and press [SET] key go into Input Device Type function.
- Rotate [SET] key to select Security Zone type,
and press [SET] key go into Zone Attribute function
Note: If system generate an have error tone , please go into Input Device/Enable, set OFF
- Rotate [SET] key to select Delay Zone attribute
- Press [SET] key to save it, or press [RESET] key to cancel,
it will exit and go to “Learn In_Device”.
- Press [SET] key go into Learning... status.
Trigger the wireless device within 10seconds ensuring it is kept
at least 0.5m away from the Controller. To trigger:
- Trigger the PIR detector by simply moving your hand in
front of the detector
- Learn OK, Controller will generate an have OK tone,
it will exit and go into Enable function
- LCD will display current enable status.
- Rotate [SET] key to select ON,and press [SET] key to accept,
it will enable Input Device 1work
- System generate an have OK tone, it will exit and go
into next Input Device
- Press [RESET] key multiple, controller will return to Day Mode

SETUP MENU
Input Device?

INPUT DEVICE
Input 1?

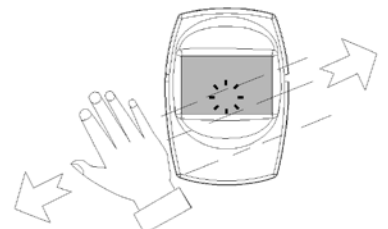
Input Device
Device Type?

Device Type
Security Zone?

Zone Attribute
Immediated Zone

Input Device
Learn In_Device?

Learn In_Device
Learning...



Input Device
Enable?

Enable Work
OFF?

Enable Work
ON?

INPUT DEVICE
Input 2?

08:00 **01- Jan**
DAY

Note: Set Enable Work/ OFF, If the wireless device have been learnt into the system, It will clear the input device.

Final Setup

IMPORTANT – To extend the battery life, wireless PIR detectors are designed to detect once only before entering a “**Sleep**” condition for two minutes during which the unit will not trigger. Any movement seen by the PIR during this period causes “**Sleep**” condition to be extended by a further two minutes. Therefore, a wireless PIR which is constantly sensing movement, such as a person walking around a room, may appear to be non-functional; you will find that the PIR will detect normally again following a two minute period with no movement present.

The wireless PIR detector contains one jumper, which activates/deactivates the LED. If required that the LED will be off when the detector is triggered during arm, pull this jumper off, otherwise, leave the jumper on. If you choose to leave the LED on, bear in mind that this will reduce battery life (Illustration 2). This LED is normally used only walk testing to ensure the PIR covers the detection area satisfactorily and then turned off.

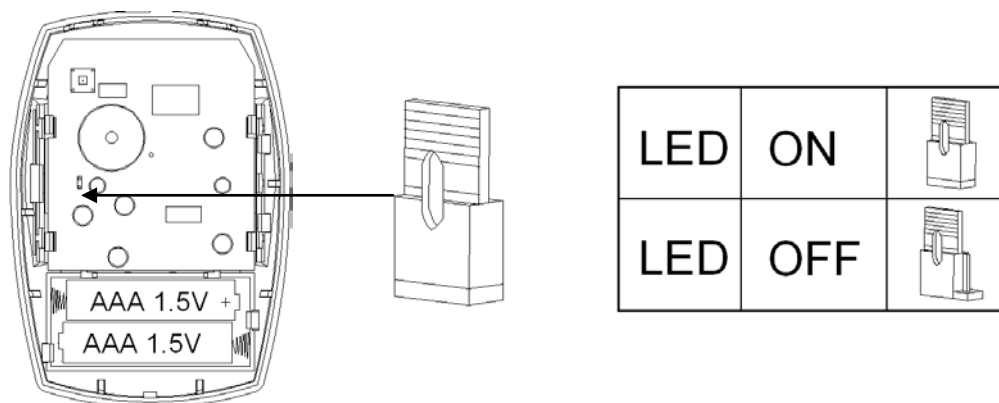


Illustration 2

3). Power OFF the CU

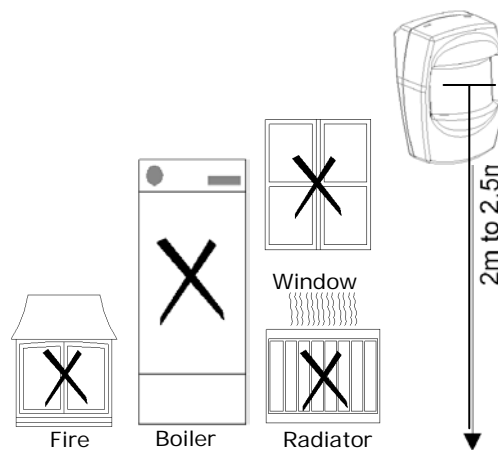
Power OFF the CU completely after the Detector(s) have been learnt by isolating the backup power battery and mains power adaptor (to prevent the tamper function of the Detector(s) from triggering the alarm of the CU when mounting)

4). Mounting Location

The PIR is designed for indoor use. It should not be mounted near to large metal objects or on metal surfaces. It needs to be mounted on a wall or in a corner at a height of approximately 2-2.5 meters for the best general coverage in an average room.

The detector has been designed to avoid false alarms, nevertheless, it is best to avoid facing sources of heat such as fires and boilers, and always try to keep away from a window. A PIR can look at a radiator but should not be sited above one.

Do not site a PIR where its field of view may be obstructed (e.g. by curtains). Also note that PIRs work best when sensing movement across rather than along their detection beams.



Mounting the detector

1. Remove and retain the screw from the bottom of the PIR and lift off the cover. (Illustration 3)
2. If you are fitting the PIR in a corner, use mounting points “A”, if you are fitting the detector on to a flat surface use mounting points “B” – the mounting points are shown by indentations in the plastic molding. Use a small drill to create two fixing holes at the mounting points (Illustration 4).
3. Hold the base of the PIR in the chosen position, ensuring that the front of PIR will face towards the centre of the protected area, and mark and drill two 5mm fixing holes in the wall. **DO NOT** drill holes with the PIR in position – the resulting dust may damage the unit. Secure the PIR to the wall using two screws (25mm countersink) and the wall plugs.
4. Replace the electronic module into the retaining clips, ensuring that it is correctly positioned and firmly seated.

Install the battery into the battery snap. Replace PIR cover and refit retaining screw.

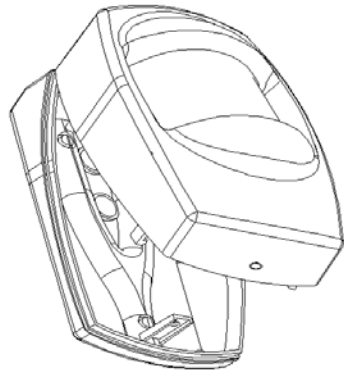


Illustration 3

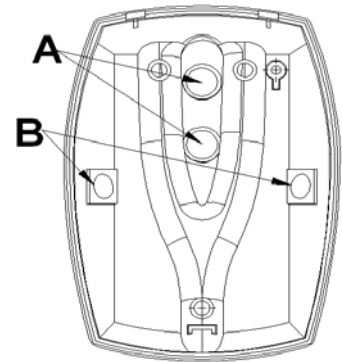
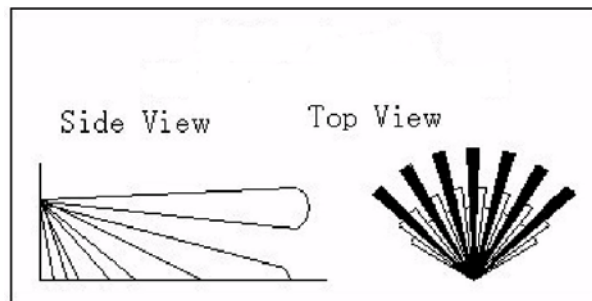


Illustration 4

Lens Arrays



Specifications

Transmission range	100 metres (line of sight)
Transmission frequency	433MHz
Test LED	Selectable (on/off)
Mounting Height	2-2.5 m
Distance Range	Up to 12 meters
Power Supply	3VDC (2 x 1.5V AAA Alkaline battery) (Batteries are excluded)
Battery Life	Approx. 18months

Disposal and Recycling

Batteries and waste electrical products should not be disposed of with household waste. Please recycle where these facilities exist. Check with your local authority or retailer for recycling advice.