

GB

The EIR, a battery operated outdoor PIR detector, allows economical and effortless outdoor installation whilst providing exceptional detection capabilities.

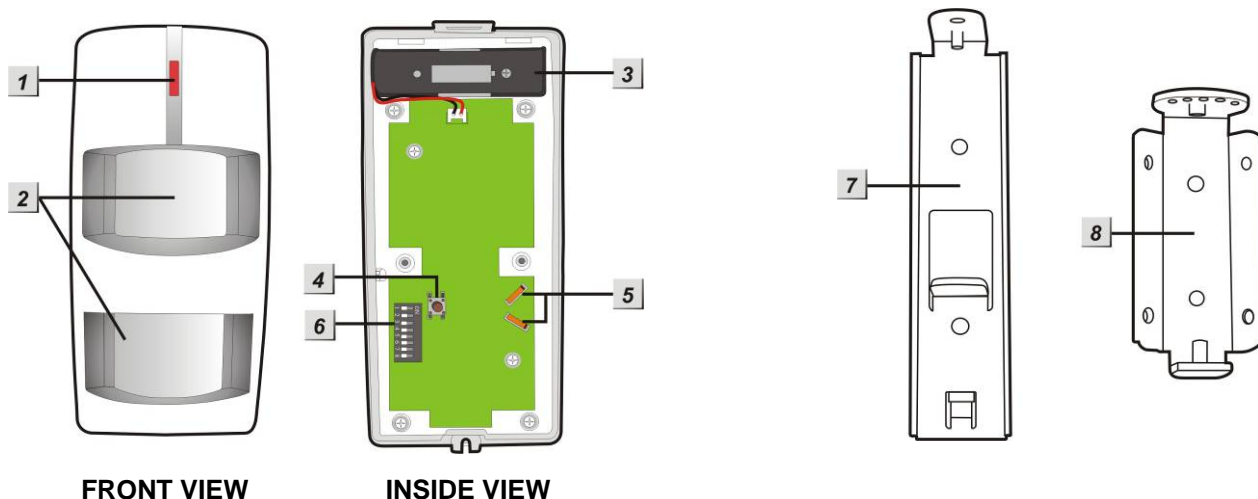
The built-in Two Lens & Sensors with detection sensitivity eliminates the chance of false alarms caused by small animals, cars, or other outdoor disturbances that brings the conveniences for easy operation.

Automatic-adjusted Sensitivity Control of background temperature ensures excellent performance regardless of changes in its environment or outside interference.

In addition, the adjustable Detection Range gives the effective match for every installation environment, that provides a peace of mind living-style and yet protecting your premises and be-loved ones all year round.

IDENTIFYING THE PARTS

The EIR consists of a two-part design made up of a cover and a base. The cover contains all the electronics and optics and the base provides a mean of fixing. The base has knockouts to allow mounting either on a flat surface or in a corner location by the provided Rotation bracket.

**FRONT VIEW****INSIDE VIEW**

1 Test Button aka LED indicator

It is the Test button as well as the LED indicator. As a Test button, it is used for testing the radio performance and for learning purposes. As a LED indicator, it is used to indicate the system status.

- To enter Test mode: Press once in Normal mode. The LED will light up for two seconds whenever a movement is detected.
- To enable Tilt Switch: Press & hold for 8 sec when Tamper Switch is pressed. The LED will flash for 5 times, indicating Tilt Switch enabled.

2 Dual Lens

3 Battery Compartment (It uses two 3.6V AA lithium batteries).

4 Tamper Switch (The EIR is protected against any attempt to open the lid).

5 Tilt Switches (They are to protect against unauthorized EIR removal, sabotage, or unsteady installation).

6 DIP Switch Block (Contains 8 DIP Switches to set the function & detection sensitivity levels)

7 Bracket Arm

8 Rotating Bracket

LED INDICATOR

In Normal operation mode, the LED Indicator remains off except:

- When the EIR is in low battery condition; each time it transmits a detected movement, the LED will light up for about two seconds.
- When the cover is opened and Tamper Switch is violated or Tilt Switch is tilted, the LED will light up for two seconds to indicate it is transmitting "Tamper" signal.
- When the **Tamper** condition persists, each time it transmits a detected movement, the LED will light up for two seconds.
- In Test mode, the LED will light up for two seconds whenever a movement is detected.

TILT SWITCHES

When the EIR's tilt angle is up to certain degrees (15° to right/left, or 90° forward/backward), a Tamper alarm will be triggered. The Tilt Switch is disabled by factory default.

- To enable: Secure the EIR onto a wall or bracket, so that the Tamper Switch is pressed. Press & hold the Test button (aka LED) for 8 sec. The LED will flash for 5 times, indicating Tilt Switch enabled.
- To disable: Release the Tamper Switch (so it is protruding). To enable again, please follow the above procedure.

Note:

Tilt Switch can only be enabled when Tamper Switch is pressed. If the cover is opened and Tamper Switch is violated after the Tilt Switch is enabled, you must enable again by following the above procedure.

TEST MODE

The EIR can be put into Test mode for three minutes by pressing the Test button (aka LED) once. In Test mode, sleep timer is disabled and LED indicator is enabled to light up for two seconds whenever a movement is detected. The EIR will automatically exit Test Mode after three minutes, and return to normal mode.

To put the EIR into constant Test mode, please adjust DIP switch 1 by referring to *DIP Switch Position Table*.

BATTERY

- The EIR uses two 3.6V AA size lithium batteries as its power source, with a battery life of approximately three years at an average of 20 activations per day.
- Low battery detection operates where the EIR has enough reserve energy to typically operate for a month before complete exhaustion. A low battery signal will be sent to the Control Panel along with regular signal transmissions for the Control Panel to display the status accordingly.
- **To Change Battery:**
 - Step 1: Navigate the Control Panel into Programming mode.
 - Step 2: Remove the EIR from mounting position and unscrew to open top cover.
 - Step 3: Remove the old battery and press the tamper button a few seconds to fully discharge.
 - Step 4: Insert two new 3.6V AA size lithium batteries.
 - Step 5: Screw back the top cover.
 - Step 6: Mount back the EIR to location.
 - Step 7: Press & hold the test button for 8 sec to enable the Tilt Switch.
 - Step 8: Navigate the Control Panel to exit Programming mode and return to operation mode. The procedure is complete.

SUPERVISORY SIGNAL

- After installation, the EIR will automatically transmit Supervisory signals periodically to the Control Panel at random intervals of 30 min. to 50 min.
- If the Control Panel has not received the signal from the EIR for the preset period of time, the Control Panel will indicate on its display that the particular EIR is experiencing an out-of-signal problem.
- For 433MHz AM: Supervision function unavailable.
- For 868.35MHz AM: Supervision function disabled by factory default.
- For 868.6375MHz FM / 868.35MHz FM / 433MHz FM: Supervision function enabled by factory default.

SLEEP TIMER

- The EIR features an automatic “**sleep time**” of approximately one minute for power conservation. After transmitting a detected movement, the EIR will not retransmit for one minute. Any further movement detected within this one-minute sleep period will extend the sleep time by another minute. This way, continuous movement in front of a EIR will not unduly exhaust the battery.

DIP SWITCH POSITION TABLE

- The function of each DIP Switch is listed as the table below. The DIP Switch is either ON or OFF. Top position indicates ON and bottom position indicates OFF.



DIP	Position	Function
Switch 1	ON	Test Mode
	OFF	Normal Mode (default)
Switch 2	ON	Supervision Disable
	OFF	Supervision Enable
Switch 3	ON	EIR facing a wall within 10 m
	OFF	EIR facing an open space (no wall within 10 m)(default)
Switch 4	ON	EIR facing a lawn (default)
	OFF	EIR facing a concrete/stone ground

DIP		Sensitivity Level
Switch 5	Switch 6	
ON		Low; for 75 cm / 60 kg pet
ON		Medium; for 60 cm / 40 kg pet
OFF		High; for 45 cm / 30 kg pet
OFF		Superior; for 30 cm / 20 kg pet (default)
DIP	Position	Function
Switch 7	ON	Reserved
	OFF	
Switch 8	ON	Reserved
	OFF	

GETTING STARTED – LEARNING THE EIR INTO THE CONTROL PANEL

- Loosen the fixing screws and remove the cover assembly.
- Based on your needs, set Sensitivity Switch as shown in DIP Switch Position Table.
- Insert two 3.6V AA lithium batteries into the battery holder taking care to connect the polarity correctly.
- The LED indicator will flash for 30 seconds. The EIR is warming up. During the warming period, the EIR is not activated. It is recommended that you stay away from the detection area during this time. After the warming period is over, the LED dims and the EIR is ready to operate.
- Navigate the Control Panel into “**Device +/-**” menu and then select “**Add Device**” menu.
- Press the Test button on the front cover.
- Refer to the operation manual of your Control Panel under the section “**Device +/-**” to complete the learn-in process (for certain Control Panel models, the EIR can be learnt in as a regular PIR with programmable attributes and thus the Control Panel will report when an alarm is triggered).
- After the EIR is learnt-in, navigate the Control Panel into “**Walk Test**”. Hold the EIR in the desired location, and press the Test button to confirm this location is within the signal range of the Control Panel.
- When you are satisfied that the EIR work in the chosen location, you can proceed to installation.

Note:

Walk Test should be conducted to confirm proper operation and coverage of the EIR.

MOUNTING & INSTALLATION METHOD

Step 1: After conducting the Walk Test to confirm EIR is within the signal range of Control Panel, choose either corner or surface mounting.

Step 2: Loosen the fixing screws and remove the cover assembly.

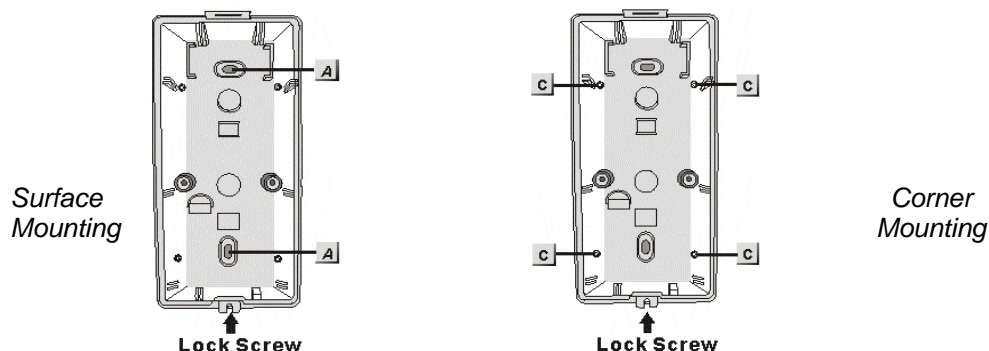
Step 3: In accordance with the user preference, mount the EIR in the chosen location either with or without the rotating bracket.

- **Mounting without Rotating bracket:**

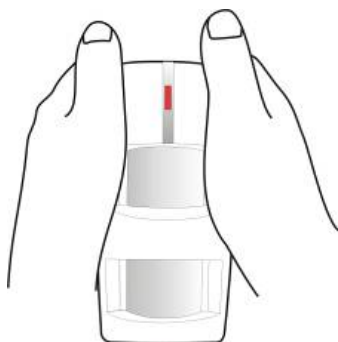
The rear base of EIR has knockouts, where the plastic is thinner, for mounting purpose. Two knockouts (A) are for surface fixing, and four knockouts (C) are for corner fixing as shown in the below picture.

Note:

Once the knockouts are broke through, the waterproof protection is no longer effective.



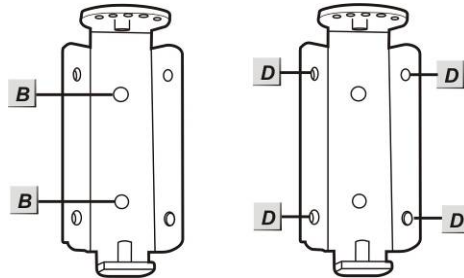
- 1) Break through the appropriate knockouts on the base cover. For surface fixing, use "A" knockouts. For corner fixing, use "C" knockouts.
- 2) Using the holes as a template, drill two holes on the flat surface or four holes on the corner surface.
- 3) Insert the wall plugs if fixing into plaster or brick.
- 4) Install the base cover into the wall plugs with the mounting screw provided.
- 5) Restore the top cover back onto its base, and firmly press the top part until you hear a clicking sound (as illustrated on the right).
- 6) Fasten the lock screw.



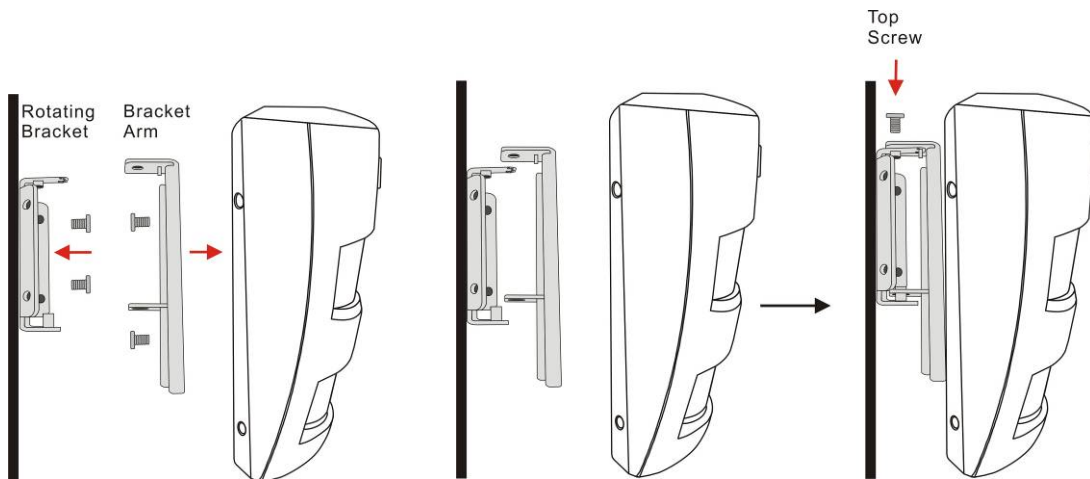
- **Mounting with Rotating bracket:**

A rotating bracket is provided as a user friendly mounting option. It is comprised of a rotating bracket to fix to surface/corner, and a bracket arm to fix to the EIR. Once installed, the EIR can be easily detached from bracket to change battery for instance, and then easily reattached. It also allows horizontal adjustment of EIR, for better coverage.

- 1) Use the rotating bracket as a template, drill holes in the mounting surface depending on surface or corner mounting – 2 x B position holes for surface, or 4 x D position holes for corner.



- 2) Insert the wall plugs if fixing into plaster or brick.
- 3) Screw the Rotating bracket into the wall plugs with the flat side facing the wall. The bracket arm should be facing you, with hinge on top.
- 4) Fasten the bracket arm to EIR base cover with the pointy ends facing away from EIR, with hinge on top.
- 5) Fit the EIR onto the hooks of the Rotating bracket.
- 6) Adjust the detecting angle by fitting the bracket arm onto one of the holes on top of the rotating bracket, and fasten the top screw as shown.



Step 4: Press the Test button once to enter Test Mode. Walk around the protected area to ensure detection coverage is adequate. Whenever a movement is detected, the LED will light up for two seconds to confirm.

Step 5: When detection coverage is found to be satisfactory, installation is complete.

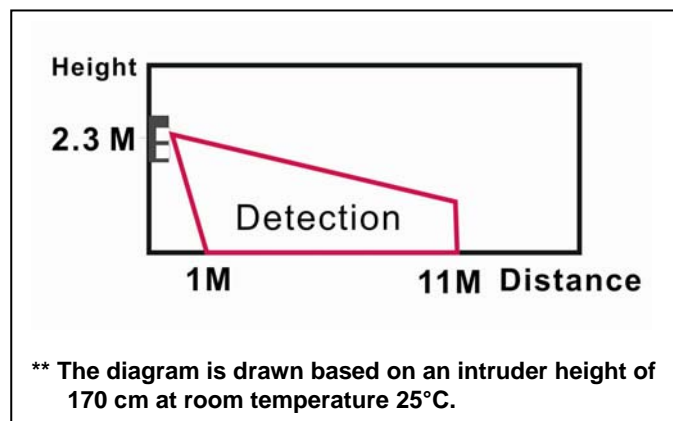
Note:

The EIR has an internal rotating housing that can be adjusted horizontally, so its 110° coverage may vary between 0° and 180°.

INSTALLATION RECOMMENDATIONS

It is recommended to install the EIR in the following locations:

- 2.3 m above ground level for best performance.
- The detection range is from 1 m to 11 m.
- The operating temperature is -10° to 50°C.
- In a corner for the widest view.
- Where an intruder would normally move across the EIR's field of view.
- A surface or corner where animals are inaccessible.
- Clear all light reflecting surfaces from the detection area, as well as water puddles.

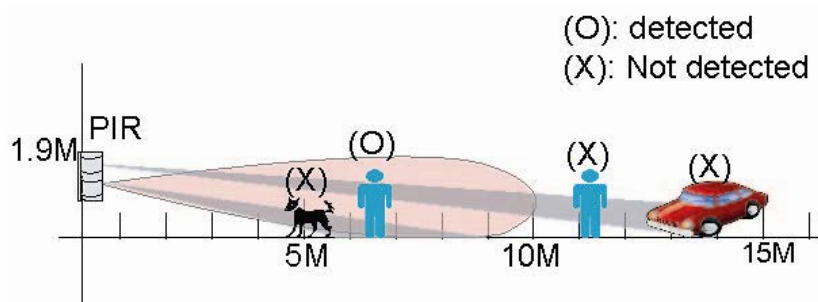


Limitations:

- Do not install the EIR completely exposed to direct sunlight.
- Do not install in areas with rapid change of temperature, e.g. air conditioner, heater.
- Avoid large obstacles in the detection area.
- Do not point directly at sources of heat, such as fires and boilers, or install above radiators.
- Never attempt to disassemble or modify the unit.

Important Note:

- The EIR detects differences between the moving object and the background. If the object is idle (i.e. not moving), the EIR is unable to detect it.
- The EIR has a directional characteristic and it is difficult to detect motion towards the EIR.
- For best performance, remember to adjust the mounting height of EIR with respect to the height of the tallest pet in the house. Taller dogs require the EIR to be mounted higher for pet friendliness.
- When deciding on the mounting height of the EIR, remember to take the blind spot into consideration. The blind spot located beneath the EIR enlarges proportionally to the height of the EIR.
- The EIR is able to differentiate between pets and human bodies, and alert accordingly by movement detection combined with two EIR lens.
- The detection areas depend on the DIP Switch position. Detection length is limited as shown on the right. Both upper & lower detection areas have to be blocked at the same time in order to activate the sensor



Made in TAIWAN

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