Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment



www.co.chenecounty.com INTRODUCTION (FAQ's)

- What is a PIR Passive Infra Red detector?
 A PIR senses slight motion within a coverage pattern by detecting infra-red energy with a PYRO sensor. Serving as an anti-intrusion sensor, the PIR can monitor open space within line of sight.
- What is Wireless and how can it benefit me?
 Wireless is the use of Radio signal to transmit a
 signal from any sensor to the panel, eliminating
 setting wire ducts, extra cabling materials or drilling,
 saving time and money.
- What is Supervisor or Supervised sensor?
 Supervisor means a sensor continuously reports to the receiver or panel to confirm status of the sensor and its presence. If the receiver fails to hear from a sensor within a pre-programmed time then it will presume a sensor is missing and notify. This means added security.

SA-01 Instruction Manual - Version 1.0 (Page 1/2)

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INTRODUCTION (FAQ's) - continued:

- What is LOW BATT detection ? What is LOW BATT detection? For all supervised sensors, LOW BATT detection is when a sensor continuously measures it's battery state and will transmit a low battery signal to the panel when voltage drops below a certain level. This alerts the user in advance to replace the
- What is CASE TAMPER?
 Case Tamper means the detection of tampering with sensor by opening the case. Case tamper will alert the panel when any sensor is opened.
- What is BACK TAMPER ?
- What is BACK TAMPER?
 Once the sensor is mounted and activated, Back
 Tamper ensures that the sensor is not removed or
 vandalized by detecting removal from the wall or
 corner. Back tamper will alert the panel in such
 cases. Means added security.

THE SUS 4 FEATURES OF SA-01 - Performance PIR

The SA-01 Supervised Wireless PIR is a high-performance intrusion sensor made with the highest level of technology to make it ideal for residential and commercial applications. The following features are

Standard Lens - Included Case & Back Tamper Up to 5-yr. Battery Life with APS APS (Auto Power Saver) Ultra-low Current Consumption Movement and Speed Spectrum Analysis
Readily Replaceable 3V-CR123 Lithium Battery - Incl. nent technology SMD C Walk Test Function Walk rest Function
RF Transmission test Function
Ultra-Bright L.E.D.
Optional Corner Mount Bracket
Optional Curtain & Long Range Lens

SECONDO SECONDO E :

INSTALLATION - Performance Criteria The SA-01 PIR detects motion across a beams pattern by detecting the infrared energy of moving body. The larger the moving body, and the faster it moves, the

- AVOID: Placing the PIR facing windows, or in direct sunlight as this heat energy can cause false alarms.
- AVOID: Mounting on or near large metal surfaces and too many concrete or steel walls away from the panel. This may interfere or block the wireless signals. Make sure to test the range from any location by using the RF Test Procedure to ensure reception
- AVOID: Placing near or over heat and air ducts, ovens, heat sources, radiators, air cons as this may cause a false detection.
- IMPORTANT NOTE: PIR works according to field of view and cannot detect through walls. Avoid placing near obstructions such as large plants, curtains and continuously moving objects.

STEP-1 INSTALLING THE BATTERY

Use only the specified 3V Lithium Battery. See FIG 1.
Preferably one of the following brands and model #s

Energizer CR123A / Duracell DL 123A / Panasonic CR 123A / Varta 123A, and other name brands.

- Unscrew the case locking screw and remove the front cover. CAUTION: Do not touch or clean the PYRO element as this may damage the sensor.
- 2) For a new unit, simply remove the plastic strip contact breaker. For replacement remove the battery by applying pressure from below. CAUTION: Notice the polarity. Replace with a fresh one.
- 3) Dispose of the old battery properly. Do not incinerate, heat, disassemble, recharge,
- Press the TEST BUTTON on the front of the housing until the LED begins to flash in the RF TEST MODE (3+ seconds) LED Flashing indicates function OK.
- 5) Close the front cover and replace locking screw

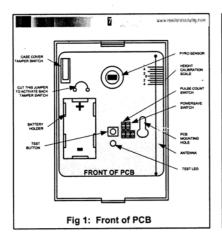


FIG 2: CHANGING THE LENS

www.tossilaresecurity.com 8 STEP-2 SELECTING THE LOCATION

- Select a location within a room or hallway that best matches the criteria on block 4.
 Make sure that the PIR will be mounted on a non-
- moving, non-vibrating surface, or comer of the room.

 3) Perform the RF Test from the proposed mounting location to ensure that the sensor can be received by
- the panel.
 4) Select the appropriate lens and mount the PIR in the

STEP-3 SELECT APPROPRIATE LENS

The SA-01 comes equipped with a standard wide angle lens which is good for almost all applications. When there is a special need to exchange lens, the following Lens are available;

- L01 Standard EXTRA WIDE ANGLE LENS
- L02 Optional LONG RANGE LENS (HALLWAY)
 L03 Optional VERTICAL CURTAIN LENS

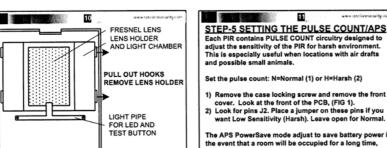
For Lens patterns and tables, please see FIG 5,6.

9 STEP-4 CHANGING THE LENS (FIG 2)

- This step is not necessary unless installing a custom lens to the PIR or replacing a damaged lens.
 Remove the case locking screw and remove the front cover. Turn the front cover so that the inside of the front case is visible.
- front case is visible.

 3) Carefully pull outwards the clip in hooks that hold the lens holder, and remove it.
 CAUTION: Take care not to damage the light pipe.
 4) Replace the lens by sliding in a new one. Make sure that the label on the lens is upright and that the smooth surface of the lens is facing outside. TAKE CARE not to leave dust or fingerprints on the lens.
 5) Replace the clip in lens holder.
 NOTE: the anti-tamper fin should be on the right side.
 Snap in the lens holder.
 6) Replace the front cover.

Please see FIG 2.



STEP-5 SETTING THE PULSE COUNT/APS

The APS PowerSave mode adjust to save battery power in the event that a room will be occupied for a long time, rather than send a signal constantly, draining the battery.

 Look for pins J3. Place a jumper on these pins for Dynamic PowerSave mode. Leave open for regular operation.

12 STEP-6 VERTICAL CALIBRATION

In case that the SA-01 PIR has to be mounted at a height ove (2.1m), calibrate the PCB by fixing the PCB at titing + 0.5, or +1, or +2 Spending on the extra height.

The pattern area under protection can be adjusted by sliding vertically the PCB (Printed Circuit Board) up or down inside the back case. The SA-01 is normally fitted to position 0 from the factory

By moving the PCB up, the detection area is focused closer to the unit. (*) Moving the circuit board down increases the distance at which the unit will work most effectively.(-)

The PCB Height calibration scale is on the right hand side of the top of the PCB and the setting is done according to the line in the side of



13.

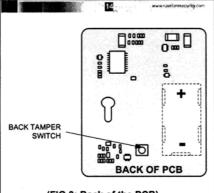
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STEP-7 ENABLING THE BACK TAMPER

The SA-01 PIR has a built in BACK TAMPER that can detect when the sensor is removed from the wall or

Normally the SA-01 is shipped with the BACK TAMPER disabled from the factory. To activate the back tamper

- Remove the Front cover of the PIR.
 Unscrew the Locking Screw for the PCB, slide the
 PCB out. Turn the PCB over to see the micro-
- On the front of the PCB (See FIG 1), cut the jumper wire to activate the BACK TAMPER.
- 4) CAUTION: Take care not to damage any components or to scratch the Pyro element
 5) Replace the PCB Back in the Plastic and Close the
- case. BACK TAMPER will be active.



(FIG 3: Back of the PCB)

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STEP-8 RADIO TRANSMISSION TEST The SA-01 PIR has a built in RF TEST Function.

This test is used to check the range and the reception of the sensor to the control panel receiver. If reception is poor, try to change the location of the PIR.

- Ensure all of the settings in the PIR are adjusted as necessary for the location according to STEPS 1 to 6, and the PIR case is closed and locking screw is
- 2) Lightly press the button on the front of the PIR for more than 3 seconds, until the LED flashes 10 times repetitively. Hold the sensor close as possible to the mounting location.
- 3) During this mode, every time the LED flashes, the sensor transmits to the panel. If the panel is armed, this will cause an alarm. If the panel is in test mode,
- then the signal strength can be measured It is recommended to try several locations until the best reception is attained.

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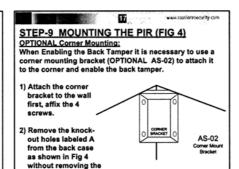
STEP-9 MOUNTING THE PIR (FIG 4)

The SA-01 PIR is designed to be Mounted onto a flat wall

Flat Surface Mounting:

- 1) Remove the PCB from the back case.
 2) Remove the knockouts from the back case labeled B by using a sharp tool or using a nail.
- 3) Affix the four screws onto the wall, so that the back tamper is pressed in.
 4) Replace the PCB and tighten the PCB locking screw.
- 5) Replace the top cover of the PIR.

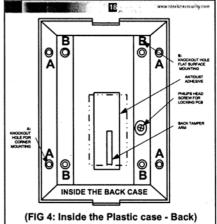
Corner Mounting:
When Enabling the Back Tamper it is necessary to use a corner mounting bracket (optional SA-02) to attach it to the corner and enable the back tamper



3) Affix the Back Case of the PIR directly to the wall using

anti-dust adhesive.

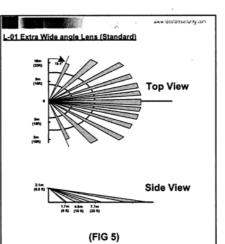
4) Ensure that the BACK TAMPER arm is pressed in.

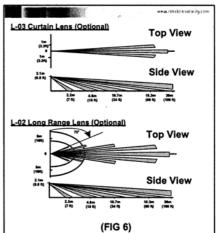


STEP-10 WALK TEST

The SA-01 PIR has a built in WALK TEST Function.
This test is used to check the Detection of the PIR and the coverage pattern adjustment. Adjust the height calibration accordingly

- Ensure all of the settings in the PIR are adjusted as necessary for the location according to STEPS 1 to 9, and the PIR is case is closed and locking screw is
- 2) Lightly press the button on the front of the PIR for under 1 second. This is the walk test mode. For a period of 40 seconds the PIR will flash the LED when the pattern is crossed.
- 3) During this mode, every time the LED flashes, the sensor does not transmit. Walk across the protection
- It is recommended to try several walk test before concluding the setting of the PIR.





22 100 **SPECIFICATIONS**

3-volt Lithium 1300 mAN, model CR123A CAUTIONI Dispose of Properly, CAUTIONI Dispose of Properly, heat or in disassemble, heat or in Selectable 1 or 2 by the N or H, respectivitiestaller, use Nn+1, H=2 Sensitivity: 1s-1,1°C @ 0.9 m/sec 1-10°C to +50°C . 10°C to +50°C . 10°C to +50°C . Operating Temp

Up to 95% Non-Condensing (max.) I second Available in 433.92 or 868.35 MHz

23 WARRANTY

to the original purchase prior distribution wasted or consequential loss including but not limited inspection, replacement or repair of defective products selly and in place of all other expressed or implies, leavy and fine set or a pericular purpose and this warrack by the manufacturer. No agent, representatives or 4 y has the authority to walve, alter or add to the principle or the product of a pericular purpose or the set of the product of the produ

