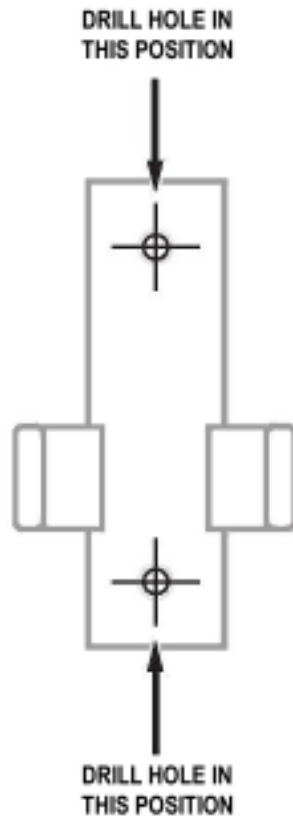


## DRILLING TEMPLATE

For wall-mounting Motion Detector(s), drill 2 holes using 6mm drill bit and the template below. Insert supplied wall plugs into holes and secure camera to wall with supplied screws.



Churchill Way, Lomeshaye Ind. Est, Nelson, Lancs, BB9 6RT, England  
Tel 01282 695 500 Fax 01282 695 511 Helpline 09066 191 133\*  
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\*Helpline calls cost 60p/minute. Open 9am to 5pm, Mon to Fri.  
Voltek reserves the right to change any product or specification without notice (c) 2005 Issue1

# INSTALLATION & USER INSTRUCTIONS

## Guardzman ALARM SYSTEM

- Rapid Deployment Intruder Detection System

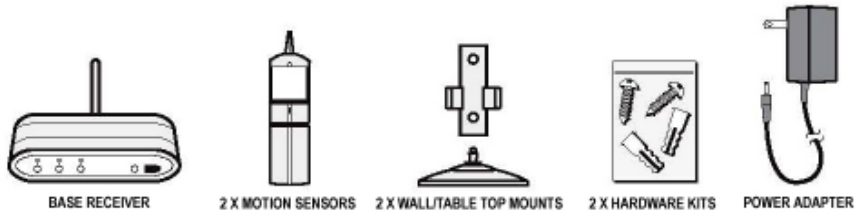


GS250 User's Guide

## PRODUCT DESCRIPTION

The VOLTEK 'Guardsman GS250 ALARM SYSTEM' is a simple plug and play unit that allows for convenient monitoring of multiple zones by wireless motion sensors. The system is ideal for monitoring residential homes, small business and even situations that require a "rapid and mobile deployment" system such as a boat, or caravan

## PACKAGE CONTENTS

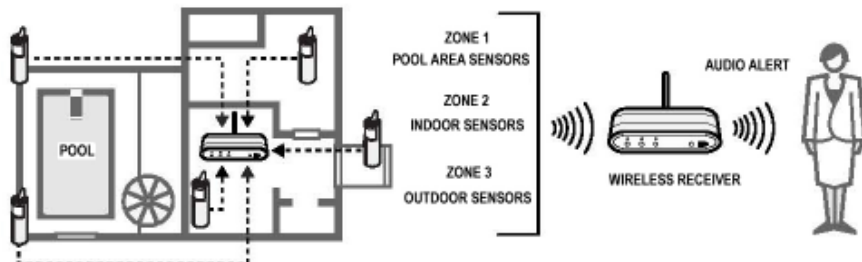


Base Receiver with Power Adaptor and Built-In Rechargeable Battery.  
2 X Motion Sensors with Wall and Table Top Mounts and Batteries.  
2 X Screw packs.  
Installation instructions.

## ALARM UNIT

Every Guardsman System has 3 zones that can be armed independently from each other. In addition, you can have up to 3 Motion Sensors per zone, for a total of 9 Motion Sensors. If motion is detected in a particular zone, such as the garden zone, downstairs zone, or pool area zone, the Receiver Base will sound an alarm and the LED on the Receiver Base for that particular zone will blink red. If a sensor has a low battery level it sends a message to the Receiver Base which then shows a LED flashing every few seconds for the zone with the low battery level and also provides an intermittent audible tone.

The advantage to having upto 3 Motion Sensrs in one zone such as the garden or pool area, is that you can cover a much larger area using several sensors than you could with just one.



## Notes ..

## TECHNICAL SPECS

Manchester encoded 00K modulation with rolling code for security  
Complies with Part 15. FCC ID

PIR:	Long range (7 metres at 20 °C) motion sensor with false trigger reduction.
LED:	Flashes to indicate motion event.
Battery:	9V Alkaline (provided). Plus low battery alert.
Transmitter:	433 MHz @ FCC approved power limit.
Range:	60 metres outdoors, 12 metres indoors.
Temperature Range:	-10 °C to 40 °C.
Case:	High impact ABS.
Size:	136mm high, 36mm diameter. Plus stand.

## APPROVALS

This device complies with part 15 FCC rules. Operation 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 interference that may cause undesired operation.

CE directive 93/68/EEC, EMC directive 89/336/EEC, LV directive 73/23/EEC.  
This class B digital apparatus complies with Canadian ICES-003.

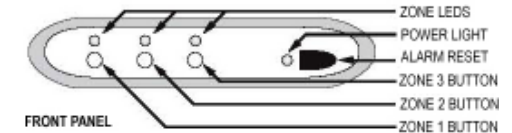
## WARRANTY

This product has a twelve month manufacturers parts and labour warranty. In the unlikely event that you encounter a problem with this product, please telephone the Voltek helpline on 09066 191 133\*. Should the problem not be able to be resolved over the telephone it should be returned to the place of purchase or direct to Voltek.

The user is cautioned that changes and modifications made to the equipment without the approval of the manufacturer could void the products warranty.

Each zone can independently be turned 'OFF', set to 'Alert Mode' in which it will give a chime tone, or set to sound a full and continuous tone in the 'Alarm Mode'. When set in 'Alarm Mode' the LED for the zone that detects motion will flash red. This alarm then continues for 30 seconds unless the alarm reset button is pressed. You can alternate between settings by pressing the button under each zone LED.

- **NO LIGHT:** Zone is off
- **LED IS GREEN:** Alert mode
- **YELLOW:** Alarm mode

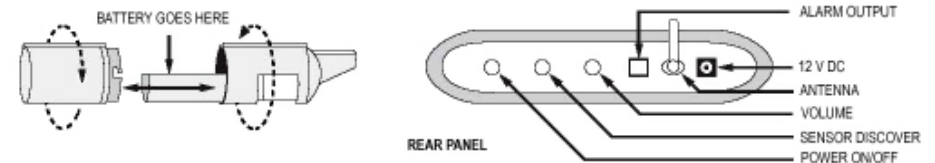


## GETTING STARTED

Attach the AC adaptor to the AC jack on the rear panel. Fully extend the antenna and keep it vertical. Press the power button on the rear panel. The Receiver Base will first run a self-test as it flashes the zone LED's on the front panel. Once the flashing stops the Receiver Base is ready to begin receiving signals from the Motion Sensors.

**NOTE:** The Motion Sensors that come included with the kit are already set to zones 1 and 2 and are marked accordingly. So you do not need to do anything more except install the included batteries into the sensor and mount it in the desired locations. If you want to reassign the sensors to a different zone or add additional sensors, follow the instructions below.

**NOTE:** The Alarm Output provides a relay output which gives a momentary closed signal when the receiver has a zone in the 'Alarm mode' and an intrusion is detected.



## ADDING A NEW MOTION SENSOR TO A ZONE

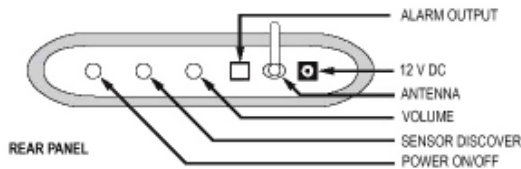
1. Press the 'SENSOR DISCOVERY' button found on the rear panel of the Receiver Base. The Power Light on the front panel of the Receiver Base will begin flashing. This indicates the unit is waiting for a sensor to register itself.
2. Connect a battery to ONE motion sensor, and as you do so the small LED on the sensor will flash. When this occurs the Power Light on the Receiver Base will stop flashing, and all of the LED's for the 3 zones will light up. (Note: only power one motion Sensor at a time)
3. Choose which zone you would like to register the sensor to and then simply push the button under that LED. The sensor is now registered to that zone.

Once a Motion Sensor is registered with a particular zone, even if the sensor loses power for a prolonged period of time, the Receiver Base will still recognize the sensor when power is restored.

**NOTE:** It is important to power only one new Motion Sensor at a time since as soon as you power it up the Receiver Base, if in discovery mode, will recognize the sensor. To facilitate set up, you should power up one sensor, assign it to a group, and then repeat the process for the other sensors.

## CLEARING A ZONES MEMORY

Press and hold the 'Sensor Discovery' button on the rear panel, after 2 seconds the unit will beep, then release the button for the zone that you would like to clear. To clear all zones, repeat the above for each zone.



## MOTION SENSOR MOUNTING

The Guardsman Motion Sensors are constructed with UV resistant ABS plastic allowing for indoor or outdoor use.

**NOTE:** For optimum range, the Motion Sensors should not be used on metal doors, metal door frames or metal objects.

1. Peel the paper strip from the double-sided tape located on the back of the sensor Wall Mounting Bracket. You can also mount the sensor more securely using the screws in the hardware kit. Using the drilling template on the back of the instruction guide, drill two small holes for the screws, ideally 2-3 metres high.
2. Screw the Wall Bracket into place.
3. Now that the Wall Bracket is securely in place, mount the Motion Sensor on the Wall Bracket.
4. Position Motion Sensor so it faces area to be monitored.

## HELPFUL HINTS

The Guardsman Motion Sensors are suitable for indoor and outdoor use. Please bear in mind the following points when choosing a mounting position:

- The Motion Sensor should not be more than 7 metres from where motion will occur
- The lower the Motion Sensor the closer it may need to be monitored area.
- Ideal height for the Motion Sensor is 2-3 metres.
- The Motion Sensor should not be used on metal doors, metal door frames or metal objects. Metal doors and frame could affect transmission range.

## TROUBLE SHOOTING

### SYMPTON

The Receiver Base does not sound when the Motion Sensor detects movement.

### REMEDIES

1. Check to make sure the Motion Sensor is properly registered with the Receiver Base.
2. Check that the volume control on the back of the Receiver Base is adjusted properly.
3. Check that the Receiver Base has power and is on.
4. Place the Motion Sensor in another location closer to the Receiver Base.

The LED in the Motion Sensor does not light up

1. Be sure the battery is properly inserted with the correct polarity.
2. Be sure you are using fresh alkaline batteries.

Flashing green LED every few seconds and an intermittant tone.

1. Indication on the Receiver Base to indicate low battery level on the sensors in the zone of which the LED is flashing.

## FAQ's

**HOW FAR AWAY CAN THE SENSORS BE FROM THE RECEIVER BASE?**  
Typically 18 metres.

**HOW FAR AWAY CAN THE MOTION SENSOR BE FROM THE MOVEMENT?**  
The Motion Sensor should not be more than 6 metres from where the motion is expected to occur, however, the lower the Motion Sensor the closer it may need to be to the monitored area. Ideal height is 2-3 metres.

**CAN I PLACE THE SENSOR IN A DIFFERENT ROOM FROM THE RECEIVER?**  
Yes, the sensor uses radio frequencies to communicate with the Receiver Base. These frequencies can go through objects like walls ceilings, and floors.

**CAN I PLACE THE SENSORS OUTDOORS?**  
Yes, the sensors are designed to be indoor or outdoor units.

**HOW LONG WILL THE MOTION SENSOR BATTERY LAST?**  
The battery is expected to last up to 12 months. This will depend on actual use and how often the sensor is triggered.

**HOW MANY SENSORS CAN I REGISTER WITH THE RECEIVER BASE?**  
The receiver base can support up to 9 Sensors (3 per zone).

**WHAT HAPPENS IF THE RECEIVER BASE LOSES POWER?**  
Because there is a rechargeable battery in the Receiver Base, even if it loses power, the system will still work for up to 6 hours.