

# FlexiGard Operation

The FlexiGard System consists of one or several Radio Transmitting Detection Heads and a Mains/Battery Base Station Receiver. The Base Station can monitor up to fourteen separate alarmed areas simultaneously.

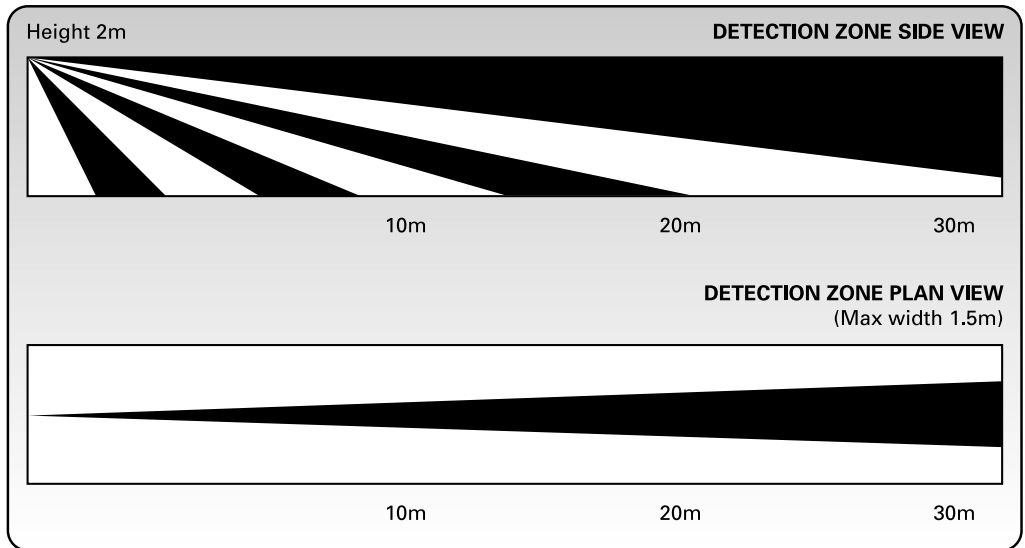
Operation of the system is basically simple but the following notes should be studied in order to ensure maximum efficiency and reliability.

## Detection heads

Each detection head is a self-contained battery - powered unit capable of transmitting a coded alarm signal to the Base Station Receiver. Transmission distance is up to 500 metres under ideal conditions but this can vary in built up areas etc. Range tests should be conducted by way of leaving the Base Station at it's intended location and "Walk Testing" the alarmed zone.

## Data Sheet

### Short Range PIR Beam Set

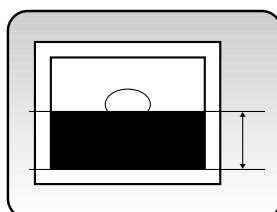
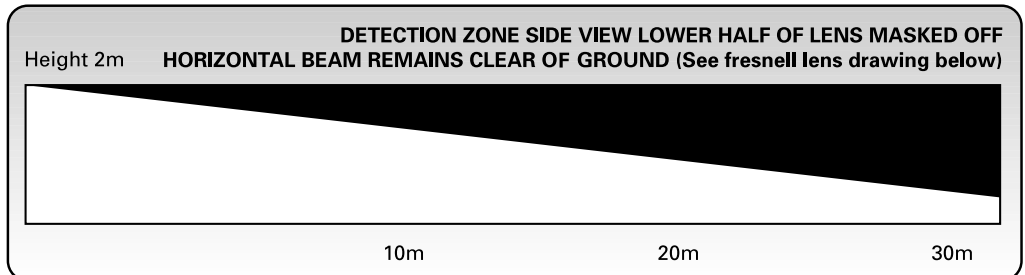


## Detection zones

As the heads are permanently active they are ready for immediate deployment as and when required. Optimum detection is achieved when mounted approx. **2 metres** above ground level and positioned so that the target movement will be across the zone rather than towards or away from the unit. Once deployed the detection zone should be "Walk Tested" using the Base Station. **Note: Once activated the head has a 10 to 15 sec. reset time before it can detect another movement.** The detection zones are indicated in the above diagrams.

## Activation by animals

Nuisance alarms can be caused by small animals in outdoor situations. (Cats, dogs, foxes etc). These can be eliminated by masking off the internal fresnell lens, (Standard masking tape should be used) as shown in the diagrams below.



## Fresnell lens

Carefully open the detection head and cover the area shown with masking tape to eliminate lower detection zone thereby preventing animal activations at ground level. See detection zone drawing above.



## Data Sheet

# Short Range PIR Beam Set



### Detector head batteries

The detector heads are powered by a single 9 Volt battery with a life expectancy of six months or longer. The heads should be periodically walk tested to ensure correct operation. (especially after long period of time). The battery should be changed every six months in any case even if the unit is still responding. Date of last battery replacement should be noted, if possible, for reference purposes.

**The head batteries must be replaced by PP3 ALKALINE TYPE ONLY as these provide the superior performance required by the units. Other types of batteries are known to cause problems.**

On changing the battery the unit will transmit an alarm signal as the new battery is fitted. It is advisable to monitor this with the Base Station. The unit will then require approx. 15 minutes to re-activate at which point it will transmit a second alarm signal confirming correct operation. This should also be monitored. The unit will then be ready for re-deployment.

Operation of the **Flexigard Base Station** requires little explanation as the control layout is self explanatory. However, these few notes will assist should you experience any problems.

The unit is Mains/Battery powered and should normally be operated on 240v mains. (Or 120v in USA) This ensures that the internal battery remains permanently charged and will provide approx. 24 hours operation in the event of a power failure or short term use on a site lacking mains power. (e.g. a 12 hour night shift). Battery will fully recharge within 8 hours of re-connection to the mains supply. The unit operates normally during recharging.

### Switches

**On/Off Switch** Powers up the unit and performs a system check. The Led indicators illuminate and sounder self tests (if switched on)

**Alarm Reset Button.** Resets alarm indications as required.

**Sounder Switches (2)** Switch 1. enables or disables internal Alarm Sounder. Switch 2 allows setting of sounder duration. i.e. Short 5 seconds signal or permanent sound until reset or switched off.

### LED 1 Indicators

No's 1 to 14 illuminate to indicate the intrusion zones as detection occurs. These are re-set as required using the Reset Button.

**Low Battery Indicator** illuminates should a Detector Head battery require changing. **In the event of this indication all the detection head batteries should be changed simultaneously. (PP3 9v. ALKALINE ONLY. Any other type of battery can affect operation of transmitters).**

**The Telephone Auto-Dialler input on the unit is for use with the Flexigard Dialler Unit. Instructions for use are provided with the Dialler.**

