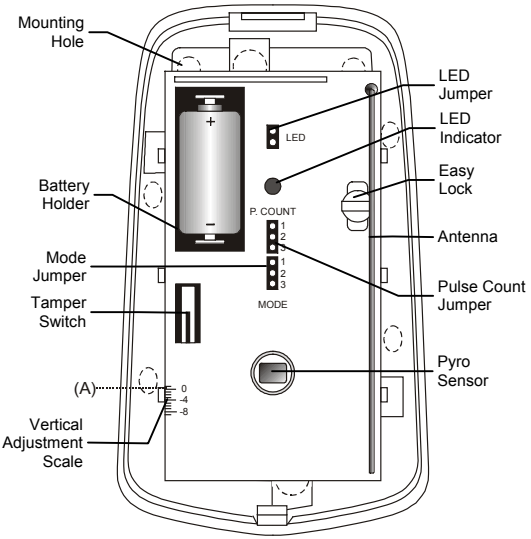
INF-PET

The INF-PET is a passive infrared detector designed for use with the infinite alarm system. The detector is designed for pet installations and implements a feature to combat the problem of multiple transmissions, which drastically reduce the life of the batteries. After a transmission is made, the INF-PET initiates a four-minute delay during which transmissions will not be sent.

Location of Detector

Consider the following before mounting the detector:

- Select a location from which the pattern of the detector is most likely to be crossed by a burglar, should there be a break in.
- Do not place bulky objects in front of the detector.
- Avoid a location which comes in direct contact with radiators, heating/cooling ducts and air conditioners.



Note: The Vertical adjustment scale relates to the top edge of the adjacent plastic stud (A)

Figure 1: INF-PET (Cover Off)

Installation

1. Open the housing by removing the front cover. To do so, insert a screwdriver in the release slot (located at the bottom of the detector between the front and back cover). Turn the screwdriver 90º to release the cover.
2. Remove the PCB by turning counter-clockwise and removing the "Easy Lock". ***Note: Do not touch the face of the PYRO sensor.***
3. Apply battery power by removing the isolator that separates the battery from the contacts on the battery holder.
4. Place the Mode jumper over pins 2 & 3 (Registration Mode); the LED flashes. ***Note: Install the Mode jumper only after applying battery power.***
5. Set the receiver to Registration mode and wait for the receiver to indicate that the transmitter has been registered successfully. Alternatively, the INF-PET can be registered to the receiver by manually entering the transmitter's serial number. ***Note: The receiver allocates a transmitter number to each registered unit. Write this number and the number of the zone on the sticker provided. Affix the sticker inside the front cover for future reference.***
6. Remove the jumper and place it over one pin for storage - *see Mode Jumper Safeguard*.
7. Choose an appropriate mounting height (2m recommended for maximum pet immunity) and test the transmitter from the exact mounting position before permanently mounting the unit.
8. Knock out the mounting holes and attach the base to the wall.
9. Mount the PCB at the required vertical adjustment and replace the PCB screw.
10. Replace the front cover.

Operation and Adjustment

Warm-Up Time: The detector will need to warm up for the first 90 seconds after applying power.

Setting the pulse counter: The pulse counter determines the amount of pulses that need to be received for the detector to generate an alarm. To set the pulse counter, refer to Table 1.

Jumper Position	Pulse Count
Pins 1 & 2	1
Pins 2 & 3	2 (pet)
Removed	3

Table 1

Vertical Adjustment: To position the PCB, turn the Easy Lock counter-clockwise and slide the PCB up or down to the required setting using the vertical adjustment scale. The detector's coverage area is 12m x 12m when the PCB is positioned at -4. This is also the setting for maximum pet immunity. Slide the PCB up towards the -8 position to decrease the coverage area bringing the beams closer to the mounting wall.

Note: The detector is designed to provide optimum coverage of up to 12m. Increasing the coverage area to over 12m will reduce the level of performance in the area closest to the detector.

Walk Test Mode: A walk test is performed in order to determine the lens coverage pattern of the detector – *see Figure 2*. Placing the Mode jumper over pins 1 & 2 cancels the delay time between detections, enabling you to perform an efficient walk test.

To walk test the detector:

1. Place the Mode jumper over pins 1 & 2.
2. Walk across the scope of the detector according to the detection pattern selected.
3. Confirm that the LED activates and deactivates accordingly. Wait five seconds after each detection before continuing the test.
4. After completing the walk test, remove the jumper and place it over one pin for storage - *see Mode Jumper Safeguard*.

LED indication: The LED indicator is lit every time a transmission is made. Insert the LED jumper to enable LED indication and remove the LED jumper to disable LED indication. ***Note: The LED should only be disabled after successfully walk testing the detector.***

Mode Jumper Safeguard: During normal operation, the Mode jumper should be placed over one pin for storage. When the mode jumper is placed over two pins, the detector is either in Registration or Walk Test Mode. As a precaution, these modes are limited to four minutes. After the four minutes have expired, the detector switches back to normal operation. If this happens, you can reset a mode by removing and replacing the mode jumper.

Pet Immunity Guidelines

It is expected that the detector will eliminate false alarms caused by animals up to 22kg/50lbs, several small rodents and random flying birds. ***Note: The weight of the animal should only be used as a guide, other factors such as the length and color of fur also affect the level of immunity.***

For maximum pet immunity the following guidelines are recommended:

- Mount the center of the detector at a height of 2m with the PCB vertical setting at -4.
- Set the pulse counter to 2 (place the jumper over pins 2 & 3).
- Do not aim the detector at stairways that can be climbed by an animal.
- Avoid a location where an animal can come within 1.8m of the detector by climbing on furniture, boxes or other objects.

Technical Specifications

Antenna: Built-in Internal Whip
Frequency: 433.92MHz, 418MHz or 868.35MHz FM
Power: 3.6V ½ AA Lithium Battery
Caution: Fire, explosion and severe burn hazard!
Do not recharge, disassemble or heat above 100ºC.
Current Consumption: 30mA (transmission), 6μA (standby)
Pyroelectric Sensor: Dual Element
Maximum Coverage: 12 x 12m
Pulse Count: 1, 2 or 3 Jumper Selectable
LED Indicator: Jumper Selectable
Adaptive Temperature Compensation
RFI Immunity: 30V/m
Operating Temperature: -10 to 60°C
Fire Protection: ABS Plastic Housing
Dimensions: 110 x 60 x 45mm

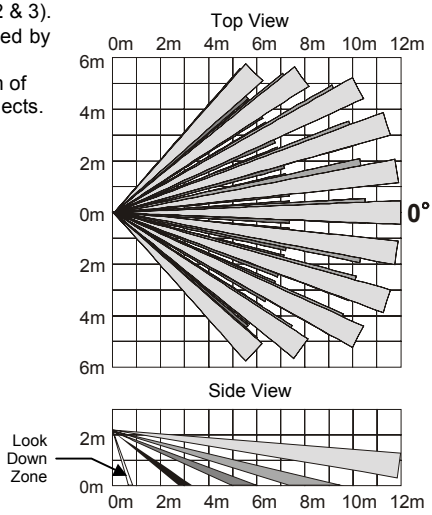


Figure 2: Lens Coverage Diagram

ESP- Electronics Line UK
Unit 7, Leviss Trading Estate, Station Road, Stechford, Birmingham B33 9AE.
Tel: (44-121) 789-8111, Fax: (44-121) 789-8055

IF YOU REQUIRE FURTHER ASSISTANCE
PLEASE CALL OUR HELPLINE **0121 786 1881**,
SEND A FAX **0121 789 8055**
OR AN EMAIL VIA OUR WEBSITE **www.espuk.com**

ZI0288A (6/03)