



Alert-iT

PIR Movement Sensor

User Manual

This document applies to;

Model: P210

Product Version: v1

Firmware: v1.2

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1 SAFETY

1.1 Explanation of the markings used on the device and in the documentation



Serial Number.



Catalogue Number



Manufacturer.



Date of Manufacture.



Refer to instructions for use.



Importer.



CE Mark (The product conforms with the relevant EU Directives).



UKCA Mark (The product conforms with the relevant UK regulations).



Symbol of the European Waste Electrical and Electronic Equipment Directive (WEEE Directive) 2002/96/EC on waste electrical and electronic equipment.

RoHS

Indicates that the product is in compliance with the European directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment (commonly referred to as the Restriction of Hazardous Substances Directive or RoHS).

1.2 Device Lifetime

The typical expected life of the device in normal home use is 5 years.

Replace the device after this or earlier, if;

1. otherwise instructed; or
2. if any damage to the device is observed.

See **page 12** for recycling guidance. If any cracks or structural damage is observed, cease the use and replace the device immediately.

NOTE: the batteries must be replaced when the device does not alarm or if the receiver display indicates “**LOW BATTERY**”.

1.3 Safety Precautions

This Alert-iT product has been designed with due regard to reliability and integrity. While it offers a highly vigilant alerting method, it is always possible that a distress condition can go undetected for a variety of reasons (including malfunction) and in life threatening situations it is advisable to use the Alert-iT system in conjunction with additional techniques. Neither the manufacturer nor its agent can accept legal responsibility to provide a system that is infallible.

The caregiver is responsible for assessing the risks of using this equipment and any settings pertaining to it.

- This device is designed only to be used as an aid for a caregiver.
- Ensure that any nurse call lead (P210B Only) is routed and secured to avoid the risk of trips, entanglement or strangulation.
- Ensure, by testing, that the alarm notifications are received at the caregivers location(s).
- The caregiver must never clear an alarm without checking the patient's condition.
- A risk assessment must be conducted to determine if the level of reliability offered by the device is sufficient or if additional equipment is needed. Consideration shall be given to the patients likelihood of tampering with the system or the risk of ligature.
- Clean and disinfect each item as needed in accordance with information on **page 12**.
- Regularly test the device as described in these instructions for use. See **page 12**.
- Do not use this device for any purpose other than that specified by the manufacturer.
- Some accessories are fitted with small screws and have plastic bags. Ensure these do not come into the possession of vulnerable people who may choke on them.
- Do not try to repair the device yourself.
- No maintenance of the product is allowed during use.
- If the equipment is modified in any way, appropriate inspection and testing must be conducted to ensure continued safe use of the equipment.
- Do not install this device near or on top of another device. However, if this cannot be avoided, the user must ensure that the device functions in the normal manner.
- Remove the batteries when the device is not in use or when it is stored for an extended period.
- As with all electronic equipment there is potential for the equipment to interfere with or be effected by interference from other electrical or electronic devices. For this reason avoid placing the device, sensor or connecting cable(s) in close proximity to sensitive electronic devices or devices which produce strong electromagnetic fields such as radio transmitters, mobile phones or power cables.

1.4 Unintended adjustment of settings

- Changing the radio address (without also changing it on the receiving equipment) will result in any resulting alarm notifications no longer being received.

2 PACKAGE CONTENTS

Please Note: The full package contents will vary depending on the exact system configuration and accessories ordered:



P210: **PIR**



P211: **Keyfob**

- 1x **PIR Movement Sensor** [P210]
- 2x **AA 1.5V (LR06) Alkaline Batteries** (Not fitted) (Not Shown)
- 1x **Mounting Kit** [Includes 2x Screws, 2x Sticky Pads] (Not shown)

Please Note: The keyfob is an optional extra [Model #: P211].

3 COMPATIBLE PRODUCTS

Receivers:

- Alert-iT Pager [P137 / P168]
- Radio Repeater [P164]

Note: For additional information please contact your equipment provider.

4 INTRODUCTION

These 'instructions for use' describe the use of the Alert-iT "PIR".

The "Product Version(s)" these instructions apply to are shown on the front page of this document. This should be referred to and compared against the "Product Version" number shown on the product information sticker found on the top of your device. If this document is not suitable for your product please refer to the 'support' section of our website for alternative instructions.

- Follow all instructions provided in this document concerning the installation, use, cleaning and disposal of the device.

4.1 Product Description

The "PIR" (later "device") is typically used by caregivers to detect a person leaving their bed or room.

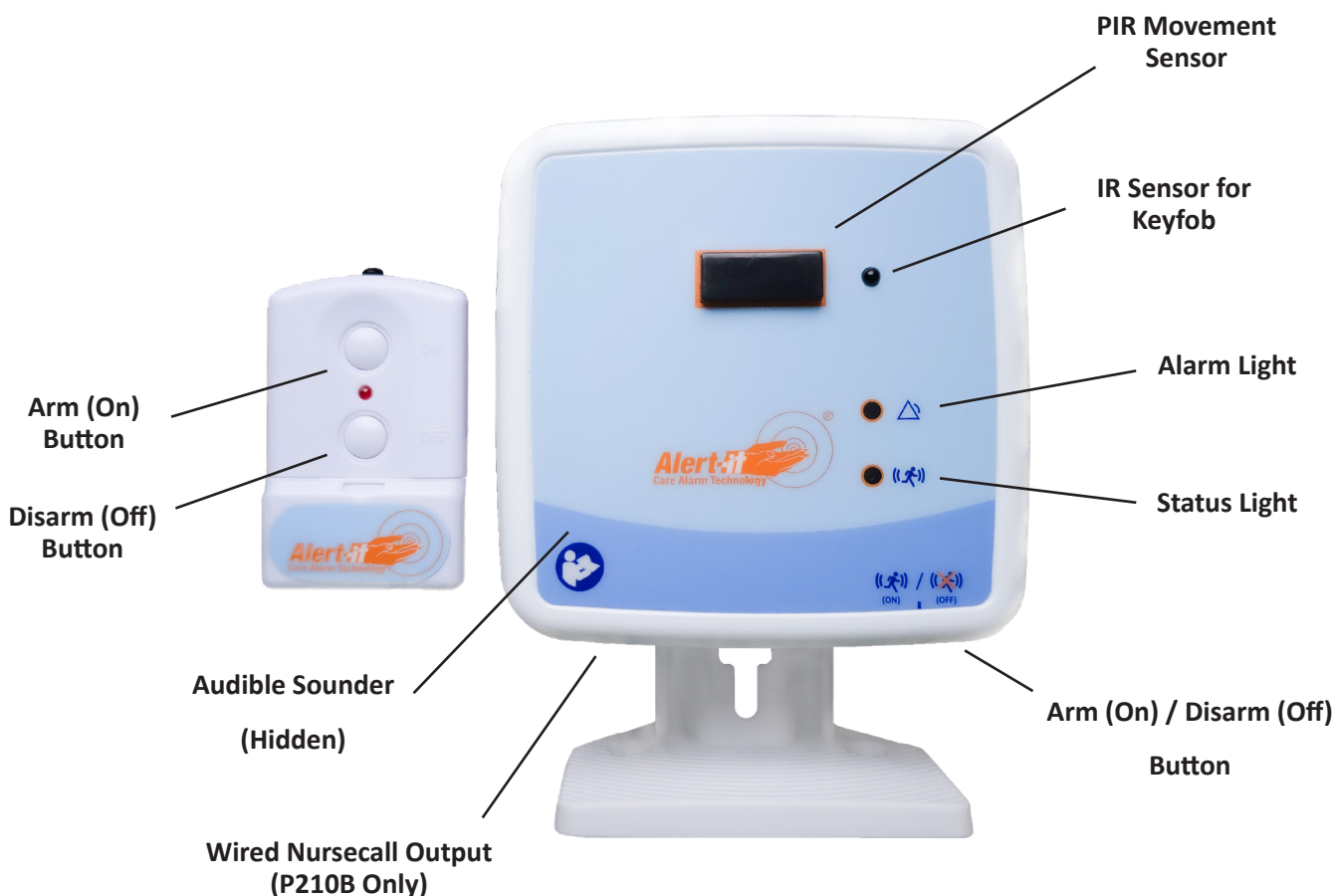
The device can be mounted on a wall or above a doorway using the provided sticky pads or screws.

Alternatively the device can be placed next to or under the bed facing where the person would leave the bed. This would then trigger the device as their feet hang off of the bed.

Caregivers are notified by visual and audible alerts (if enabled) and/or a notification via external system e.g. a wireless pager or wired call system.

Operating environment is typically a bedroom at a family home or care facility.

4.2 Device Overview



5 INSTALLATION

Please note: If a keyfob is not used, the device will need to be within arms reach in order to access the “**Arm / Disarm**” button (e.g. to clear alarms).

Mounting to a wall

1. A wall mounting kit containing 2x wall screws and 2x sticky pads has been provided to attach the device to a wall.
2. The back plate can be removed from the device and attached to the required location.
3. The device can then be clipped onto the back plate.
4. To remove the device (e.g. in order to change batteries), the tab underneath the device needs to be pressed towards the wall and the device slip upwards to release it.

6 BASIC FUNCTIONS

6.1 Inserting Batteries

When batteries are inserted for the first time the “**Alarm**” and “**Status**” lights will illuminate alternately for several seconds while the internal PIR circuitry settles.

Once both lights extinguish the device is ready to use.

*Note: If the device has been turned off previously or batteries are allowed to deplete completely for an extended time, the device may require the “**arm/disarm**” button to be pressed briefly to “wake up” the device after fresh batteries have been inserted.*

6.2 Turning the Device Off

The device can be turned off by press and holding the “**Arm / Disarm**” button for 8 seconds until both lights illuminate. Release the button and the “**Alarm**” light will flash rapidly while the device turns off.

- Press the “**Arm / Disarm**” button briefly to wake the device up.

*Note¹: The device will transmit a “**Monitor Off**” fault when turning off.*

Note²: If the device is not going to be used for an extended period (i.e. several months or more) it is recommended to remove the batteries before placing it into storage in order to prevent leakage from the batteries.

6.3 Turning the Device On

The device can be turned on by briefly pressing the “**Arm / Disarm**” button.

6.4 Arming on the Device

- Hold the “**Arm / Disarm**” button for 2 seconds.
- The green “**Status**” light will begin to flash.
- After “**15 Seconds**” the flashing will stop and the device will now be armed.

If the device sees any movement after this an alarm will be raised.

Note¹: The green status light will blink every 6 seconds while armed.

Note²: The device can also be armed or disarmed using an optional wireless keyfob.

6.5 Disarming on the Device

Once the device has been “**Armed**”, but prior to an alarm being triggered, it can be “**Disarmed**” by the caregiver to stop the alarm being raised.

- Hold the “**Arm / Disarm**” button for 2 seconds. Both lights will illuminate briefly
- The device is now disarmed.

Note: This is more practical when using the keyfob as the device can be disarmed from a distance when entering the room.

6.6 Movement Alarms

The PIR sensor has a detection window of approx “**105 degrees**” horizontal by “**45 degrees**” vertical.

Movements within up to a “**4 meter**” distance of this window will trigger an alarm.

When an alarm has been triggered, the red “**Alarm**” light will begin to flash every 2 seconds, and the caregiver will be notified via Alert-iTs Safelink™ Radio or via the wired nursecall output.

6.7 Resetting Alarms

- Hold the “**Arm / Disarm**” button for 2 seconds.
- The device will make a two tone beep and both lights will illuminate briefly.
- The reset signal will then be sent to any wireless receivers.

*Note: The alarm can also be reset using “**OFF / Disarm**” button on the optional wireless keyfob.*

6.8 Keyfob (Provided Separately)

To arm the device, hold the “**ON / Arm**” button for several seconds until the PIR’s “**Status**” light begins to flash green.

To disarm or reset the device, hold the “**OFF / Disarm**” button for several seconds until both lights illuminate briefly.

The red light on the keyfob will flash while either button is pressed.

When the keyfob’s batteries are empty, the red light will no longer flash when the buttons are pressed.

6.9 Battery Monitoring

The device checks the battery condition every 5 minutes.

Battery Low

When the device detects the battery is low a **“Low Battery”** fault will be transmitted via Alert-iT’s Safelink Radio to any paired radio receivers.

The **“Alarm”** light will begin to flash every 4 seconds.

*Note: The battery low fault can be suspended for 12 hours by holding the **“Arm / Disarm”** button for 2 seconds. This will temporarily clear the fault from the receiver for 12 hours.*

Battery Very Low

When the device detects the battery is very low a **“Battery Empty”** fault will be raised on the receiver.

On wired models the wired output will be triggered.

*Note: The **“Battery Empty”** fault cannot be suspended.*

7 INSERTING BATTERIES AND BATTERY SERVICE LIFE

The device operates using 2x AA 1.5V Alkaline (LR06) Batteries.

Install and remove the batteries as follows:

1. (If wall mounted) Detach the device from the wall by unclipping the device from the rear bracket by pressing the clip on the underside of the device and sliding the device up.
2. (If not wall mounted) Remove the rear battery cover by lifting the tab on the bottom of the rear case and sliding it down and off.
3. Remove and dispose of the batteries as recommended by your local authority.
4. Insert the new batteries.
5. Reattach the battery cover.

Battery life will vary between 1 and 2 years dependant on the frequency of alarms and how quickly alarms are responded to.

8 DEVICE SETTINGS

There are some additional settings that can be changed using the Alert-iT Profile Editor.

Radio Address

If multiple devices are used at the same location, each device needs to use a unique “**radio address**” between 1 and 126. The device is supplied with a random address which is printed on the devices labelling. We recommended only adjusting this if duplication on site occurs.

Alarm / Status Lights

These lights can be individually disabled if they are causing annoyance to the patient.

Alarm / Reset / Beep Sounds

These sounds the device produces can be disabled if they are causing annoyance to the patient.

Status Indicator Light

When the device is armed, the green status light will blink every 6 seconds to indicate it is armed.

This indicator light can be disabled if it is causing annoyance to the patient.

Monitor Off Fault

When the device is manually turned off or if the device turns off due to low battery, a “**Monitor Off**” fault will be sent to the receiver. This fault notification can be disabled if not required. [Default: On]

Alarm Timeout & Alarm Timeout Fault

If a call alarm is left active on the device and not reset, after 30 minutes (default “**Alarm Timeout**” setting) the alarm will timeout to save power. This duration can be adjusted or set to zero to disable completely.

Also, upon timing out, an “**Alarm Timeout**” fault will be sent to the receiver. This fault notification can also be disabled if not required. [Alarm Timeout Fault Default: On].

Alarm Latching & Clear Delay

As standard, when a call alarm is raised, it is required that the user attends to the device to reset the alarm.

However, the PIR can be set to a non-latching mode, and the “**Clear Delay**” parameter can be configured to provide a non-latching alarm where each time movement is detected an alarm is raised, but is automatically cleared some time later.

9 CLEANING

You can wipe the control unit, sensors and cables with a damp cloth, neutral cleaning product or mild disinfectant

10 LIABILITY OF THE MANUFACTURER

iTs Designs Ltd. (T/A: Alert-iT Care Alarms) is liable to ensure the safety, reliability and performance of the device, provided that:

- the device is installed, used and cleaned in accordance with the instructions in these instructions for use.
- any changes to the device, maintenance and repairs are conducted by a person trained by Alert-iT or its representatives.
- any spare parts or accessories used have been approved by Alert-iT.

11 DISPOSAL OF THE DEVICE AFTER USE

In conformity with the Waste Electrical and Electronic Equipment Directive (WEEE Directive), the device must be collected separately and returned to an authorised collection facility. The owner must take the device to the waste collection point specified by local authorities.



For more information on how to dispose of the device, please contact the relevant authorities.

12 DECLARATIONS OF CONFORMITY

The manufacturer, iTs Designs Ltd., hereby declares that this product is in compliance with the Radio Equipment Regulations (UK) 2017 and the Radio Equipment Directive (2014/53/EU).

The full text of the EU declaration of conformity is available at the following Internet address;

www.alert-it.co.uk/support/

13 ROUTINE CHECKS

13.1 Weekly Checks

Alarm Activation

Ensure the alarm notifications are being received by the caregiver(s). Manually trigger an alarm if required.

14 ALERT-IT LIMITED WARRANTY STATEMENT

In the unlikely event that your product needs guarantee service, please contact your provider, distributor or manufacturer. To avoid any unnecessary inconvenience on your part, we recommend you read these instructions for use carefully before seeking guarantee service.

YOUR GUARANTEE

By this Guarantee, Alert-iT guarantees the product to be free from defects in materials and workmanship at the date of original purchase for a period of three (3) years from that date.

If within the guarantee period the product is determined to be defective (at the date of original purchase) due to improper materials or workmanship, Alert-iT will, without charge for labour or parts, repair or (at Alert-iT's discretion) replace the product or its defective parts subject to the terms and limitations below. Alert-iT may replace defective products or parts with new or refurbished products or parts. All retained products and parts replaced become the property of Alert-iT.

TERMS

Guarantee services will be provided only if the original invoice or sales receipt (indicating the date of purchase, model name and dealer's name) is presented with the defective product within the guarantee period. Alert-iT may refuse free-of-charge guarantee service if these documents are not presented or if they are incomplete or illegible.

This Guarantee will not apply if the model name or serial number on the product has been altered, deleted, removed or made illegible.

This Guarantee does not cover transport costs and risks associated with transport of your product to and from Alert-iT.

This Guarantee does not cover:

- a. occupancy sensors or moisture sensors (see individual products for their guarantees).
- b. periodic maintenance and repair or parts replacement due to wear and tear.
- c. consumables (components that are expected to require periodic replacement during the lifetime of a product such as batteries).
- d. damage or defects caused by use, operation or treatment of the product inconsistent with normal use.
- e. damage or changes to the product as a result of:
 - i. misuse, including:
 - treatment resulting in physical, cosmetic or surface damage or changes to the product.
 - failure to install or use the product for its normal purpose or in accordance with Alert-iT's instructions on installation or use.
 - failure to maintain the product in accordance with Alert-iT's instructions on proper maintenance.
 - installation or use of the product in a manner inconsistent with the technical or safety laws or standards in the country where it is installed or used.
 - ii. the condition of or defects in systems with which the product is used or incorporated except other Alert-iT's products designed to be used with the product.
 - iii. use of the product with accessories, peripheral equipment and other products of a type, condition and

standard other than prescribed by Alert-iT.

- iv. repair or attempted repair by persons who are not authorised by Alert-iT.
- v. adjustments or adaptations without Alert-iT's prior written consent, including:
 - upgrading the product beyond specifications or features described in the instructions for use, or modifications to the product to conform it to national or local technical or safety standards in countries other than those for which the product was specifically designed and manufactured.
- vi. neglect
- vii. accidents, fire, liquids, chemicals, other substances, flooding, vibrations, excessive heat, excess or incorrect supply or input voltage, radiation, electrostatic discharges including lighting, other external forces and impacts.

This guarantee covers only hardware components of the product.

EXCLUSIONS AND LIMITATIONS

Except as stated above, Alert-iT makes no warranties (express, implied, statutory or otherwise) regarding product or accompanying or constituent software quality, performance, accuracy, reliability, fitness for a particular purpose, or otherwise. If this exclusion is not permitted or fully permitted by applicable law, Alert-iT excludes or limits its warranties only to the maximum extent permitted by applicable law. Any warranty that cannot be fully excluded will be limited (as far as permitted by applicable law) to the duration of this Guarantee.

Alert-iT's only obligation under this Guarantee is to repair or replace products subject to these Guarantee terms and conditions. Alert-iT is not liable for any loss or damage relating to products, service, this Guarantee or otherwise, including- economic or intangible losses- the price paid for the product- loss of profits, revenue, data, enjoyment or use of the product or any associated products- indirect, incidental or consequential loss or damage. This applies whether that loss or damage relates to: impaired or non-operation of the product or associated products through defects or unavailability while with Alert-iT, which caused downtime, loss of user time or business interruption, inaccuracy of output from the product or associated products.

This applies to loss and damages under any legal theory, including negligence and other torts, breach of contract, express or implied warranty, and strict liability (even where Alert-iT has been advised of the possibility of such damages).

Where applicable law prohibits or limits these liability exclusions, Alert-iT excludes or limits its liability only to the maximum extent permitted by applicable law. For example, some countries prohibit the exclusion or limitation of damages resulting from negligence, gross negligence, wilful misconduct, deceit and similar acts. Alert-iT's liability under this guarantee will in no case exceed the price paid for the product, but if applicable law permits only higher liability limitations, the higher limitations apply.

YOUR LEGAL RIGHTS RESERVED

Consumers have legal (statutory) rights under applicable national laws relating to the sale of consumer products. This guarantee does not affect statutory rights you may have, nor those rights that cannot be excluded or limited, nor rights against the person from whom you purchased the product. You may assert any rights you have at your sole discretion.

15 TECHNICAL SPECIFICATIONS

PIR

Model:	P210.
Power:	Battery Only. 2x AA 1.5V (LR06) Alkaline Batteries.
Signal Lights:	Red "Alarm" light. Green "Status" light.
Measurements:	86 x 86 x 19 mm (HxWxD).
Weight:	80g.
Colour:	White.
IP Rating:	IP21.
PIR Range:	Up to 4 meters with a 105-degree horizontal and 45-degree vertical coverage.
Service Life:	5 years.
Radio Frequency:	434.0750 MHz (P210A).
Radio Output Power:	< 10 mW.
Radio Range:	600 meters (line-of-sight).
OR	
Radio Frequency:	869.2125 MHz (P210C).
Radio Output Power:	< 10 mW.
Radio Range:	600 meters (line-of-sight).

Keyfob

Model:	P211.
Power:	Battery Only. 3x LR44 1.5V Alkaline Batteries.
Battery Life:	2500 activations.
Range:	4 meters. 90 degree FOV.

Ambient Conditions

Operating Temperature:	5°C to 35°C (Use Indoors).
Storage Temperature:	-30°C to 50°C.
Humidity Limit:	5% to 90% max. Non-condensing.

16 ALARM AND FAULT CODE LOOKUP

When an alarm is triggered, the pager will display the following.

16.1 Alarms

Alarm	Message Displayed on Advanced Pager (P137)
Movement Alarm	Help 07
Fault	Message Displayed on Advanced Pager (P137)
Battery Low	Fault 16
Battery Empty	BATTEND
Alarm Timeout	Fault 22
Monitor Off	Fault 29

NOTE: If more than one alarm or fault is active, then only the highest priority alarm is shown.



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For support please contact your equipment provider.

EU Importer to add details here, where applicable.

