pulsecompanion

HANDBOOK

LESS STRESS CARING

Congratulations on your Alert-iT purchase

Your product has been manufactured by a team of industry experts with more than 20 years of experience designing, manufacturing and distributing care alarms.

With a commitment to quality and innovation we are able to bring you a robust and reliable system to aid carers with the detection of seizures and the safeguarding of individuals. Please read this guide carefully to ensure the correct set up, use, and maintenance of your new product for years to come.

If you have any questions or require assistance in regards to the Pulse Companion or any other Alert-iT product, our experienced team are on hand to help. Please find contact details below. Don't forget you can also join us on Facebook, Twitter and LinkedIn where you'll find even more information and advice.

Head Office: Sales@alert-it.co.uk
Call: 01530 239 900
Social:
C AlertitCareAlarms
V Alert_iT_Care
Alert-iT
or join our supportive Epilepsy Forum

Contents

Disclaimers 5
Product Information 6
Warranty Information 6
In The Box 7
Product Usage 8
Quickstart 9
Armband 9
Pulse Companion 9
Pager 10
Configuration app and Smart Phone Compatibility 10
How to use the App 11
Scanning 11
Setting the Thresholds 12
Settings 13
Advanced Settings 14
Pairing armbands 15
Using the Pulse Companion 16
Armband Placement 16
Changing the Armband due to low battery 17
Changing the Armband 17
Turning the armband off 17
Turning the Pulse Companion off 18
Device Positioning 18
Wall Mounting 19
Removing the Pulse Companion from Service 19

Continued Overleaf

Contents

Common Fault Conditions 20

RF Fail: Radio Fail Alarm 20

Pulse Companion Battery Low / Battery End 20

Fault 28: Armband Battery Low 20

Fault 26 21

Fault 18: Armband Lockup 21

Pulse Companion ‘Status’ Light 22

Armband LED 22

Maintenance Instructions 23

Routine Testing 23

How to Clean the Devices 23

Changing Batteries in the Pulse Companion 23

Pager Function 24

Disclaimers Continued 25

Important Information 26

Pulse Companion Specification 27

Certification 27

Pager Specification 28

Certification 28

Routine Testing Sheet 29

Notes 30

The Rhythm 24 armband provided is not intended to diagnose, treat, cure or prevent any disease. Even though it intends to give an accurate BPM reading, it is not a calibrated piece of equipment and should not be used to provide a measuring function.

The detected heart rate is used for reference purposes only when setting the alerting levels. The alerting thresholds chosen should be based around the detected min and max values observed when using the device under normal (Seizure free) conditions.

The armband's optical sensor detects changes in the optical translucence of the skin tissue [photoplethysmography (PPG)] . The variations it detects can be used to infer the approximate heart-rate of the patient. The BPM (Beats per minute) reading that it generates can be affected by ambient lighting, skin colour, skin temperature and motions of the limb the sensor is connected to, therefore the BPM reading shown cannot be used as an accurate measurement of the users heart-rate. The devices intended application is to detect gross changes in this heart-rate reading that could indicate a distress condition is present.

Due to the sensor being affected by normal movements, daytime use is less consistent and likely to give a higher false alarm rate if the thresholds are set close to the observed min and max values.

Limitations

- The device is not proven to predict seizure onset.
- The device is not intended to be used during physical activity.
- The device is not intended to be used to guide medical therapy decisions.
- The device is not intended to be used as a stand-alone monitoring device.

Important safety information and risks

Alert-iT cannot guarantee that the Pulse Companion will detect every single seizure and deliver alerts accordingly. The system is not meant to substitute your current seizure monitoring practices, but rather to serve as a supplement in expediting first-response time. It is important to not alter current seizure management practices when using the Pulse Companion.

The main risk associated with the Pulse Companion is the device failing to detect a seizure. If the user or caregiver changes their seizure management practices and relies solely on the Pulse Companion, this may lead to less than adequate supervision. Patients should discuss the risks and benefits of the Pulse Companion with their health professional.

WARNING:

Scosche "Rhythm24" (Manufacurer of armband sensor) state:

Rhythm 24 heart monitor has a heart rate tracking feature that may pose risks to users with certain health conditions. See page xx for details

Product Information

The Pulse Companion provides peace of mind for carers and individuals who have epilepsy.

This product has been designed to discreetly monitor the user with an armband sensor which identifies variations in heart-rate that could indicate a seizure.

The monitor can help to indicate seizures where there is a known heart rate variant.

The Pulse Companion is typically paired with Alert-iT's failsafe "Safelink®" Pager or the Connect-iT when alerting through a third party alarm system. Upon detection of a heart-rate reading that is above or below the thresholds set by the user/carer, an alarm condition is raised and sent to the pager.

The Pulse Companion is a battery powered unit with a 6 months battery life. The armband's battery life is typically 12 to 16 hours between charges.

Warranty Information [Where equipment has been provided directly from Alert-iT]

For 2 years from the date of purchase of the initial equipment, and 1 year on the wrist band.

Access to support between the hours of 9.00am and 5.00pm each weekday (excluding Public Holidays) via the telephone help-line for the purposes of fault diagnosis and the provision of advice.

- Repair (or if this is not possible; replacement) of faulty equipment free of charge, however, the equipment must be returned to Alert-iT at your own expense.
- After inspection by Alert-iT engineers, any equipment that is deemed to have been damaged, rather than failing due to a technical fault will only be repaired after you have agreed to being invoiced for the cost of repairs and delivery.

- This agreement will terminate 3 years after the initial date of purchase, regardless of any new equipment being issued in the interim period.

- Batteries are not included in warranty.

PLEASE NOTE:

Liquid ingress voids warranty (excluding armband).

For those requiring support outside of Alert-iT's office hours, please contact our sales team and ask about our Premium support packages.

In The Box

The Companion Mini Pack Contains:		
A	1x Armband Sensor - P195A	
B	1 x Sensor Charging Cradle	
C	1 x Mains USB Charger for Sensor	
D	1 x Pulse Companion - P194B	Includes 2 x AAA Non-rechargeable Batteries (fitted) 2 x spare Batteries
E	1 x Advancer pager - P137	Includes 2 x AA Ni-MH Rechargeable Batteries
F	1 x 9v Pager Power Supply - P153	
	1 x Wall Mounting Kit (Not Shown)	2 x Sticky pads / Wall screws / Wall plugs

A **B** **C**

D

E

F

The Pulse Companion provides a method of detecting seizure activity that typically only presents its-self in a change of heart rate.

The armband used does not contain an accelerometer and will not detect shaking movements, it only provides reference heart rate readings. For Tonic-clonic (Shaking) style seizures our Companion Mini, Companion or Guardian monitor may be more suitable.

Please note that the heart rate reading provided by the wearable sensor can struggle to accurately track the heart rate when the user is moving around. As such, the sensor performs best when the user is in bed or sat down. If the sensor is to be used while moving around, the alarm thresholds can be widened to accommodate the more varied heart rate readings that are given by the sensor.

Armband

- Unpack box and turn on the armband sensor by pressing and holding its big button for 5 seconds.
- Adjust the sensor strap and fit it to the upper arm ensuring the sensor is not too tight and will be comfortable to wear for extended periods (see page 16).
- For turning off the Armband see pages 17 & 20.

Figure 1

Pulse Companion

- Turn on the Pulse Companion by pressing and holding the •●• button for 2 seconds.
- The pulse companion will automatically pair to the armband. The LED will flash green every second while scanning for the band, then briefly flash rapidly when it is detected and paired.
- The light on the Pulse companion will blink green every 4 seconds when monitoring (See page 22 for more information).

Figure 2

Pager

- Turn on the Advanced Pager by pressing and holding the down arrow for 3 seconds.
- You should now see "**Pulse 01**" appear on the pager screen every 8 seconds.
- To snooze any active alarm / fault tunes press the "**Up**" arrow, this will snooze any active alarm calls for 5 minutes.

Figure 3

Configuration app and Smart Phone Compatibility

The Pulse Companions settings can only be adjusted via Bluetooth.

Proceed to Page 11 for instructions on installing and using the smart device app.

The Alert-iT app is compatible with the following iOS and Android devices:

IOS: We support devices running iOS 10 or higher.

Android: Devices running Android version 4.3 (Jelly Bean) or higher, as long as they support Bluetooth Low Energy (BLE / 4.0 / Bluetooth Smart). We do not guarantee full compatibility with custom or unofficial versions of Android running on phones or tablets.

Other mobile platforms: We do not support Windows and Blackberry phones.

PLEASE NOTE:

Not all devices that list Bluetooth 4.0 in the specifications, actually support Bluetooth Low Energy. We suggest contacting the manufacturer directly for complete information.

The "**Alert-iT**" configuration app is available on both iOS and android for free.

Search for "**Alert-iT**" in either the "**Google Play Store**" or "**Apple App Store**" to find the app and install it.

Note: After you have installed the app you may be prompted to allow the app to access your devices location. This is a new security feature added by android that restricts the use of Bluetooth from app's that do not require it. Our app does not store or track anything to do with your location, but it does need access to the Bluetooth so you will need to accept this permission to proceed.

Scanning

After launching the app you will be presented with a big "**Scan**" button.

In order for the app to be able to find the device while scanning, the Pulse Companion needs to be "**Advertising**". The Pulse Companion will advertise for 1 minute (by default) each time the •●• button is pressed.

Note: We only advertise for 1 minute as a security feature to prevent anyone connecting to the device without first pressing the button. This 1 minute restriction can be removed if desired (See page 14).

Briefly press the •●• button then click "**Scan**" in the app. The devices will appear after a few seconds, ensure that the serial number matches that printed on the side of your Pulse Companion. You can assign a more memorable nickname for your device once connected (See page 13).

"**Disconnect after 30 minutes**": This forces the app to automatically disconnect from the Pulse Companion after 30 minutes. If you wish to continuously see the BPM reading for longer periods, you should un-tick this box. **(Please note: This will reduce battery life.)**

Figure 4

Figure 5

Setting the Thresholds

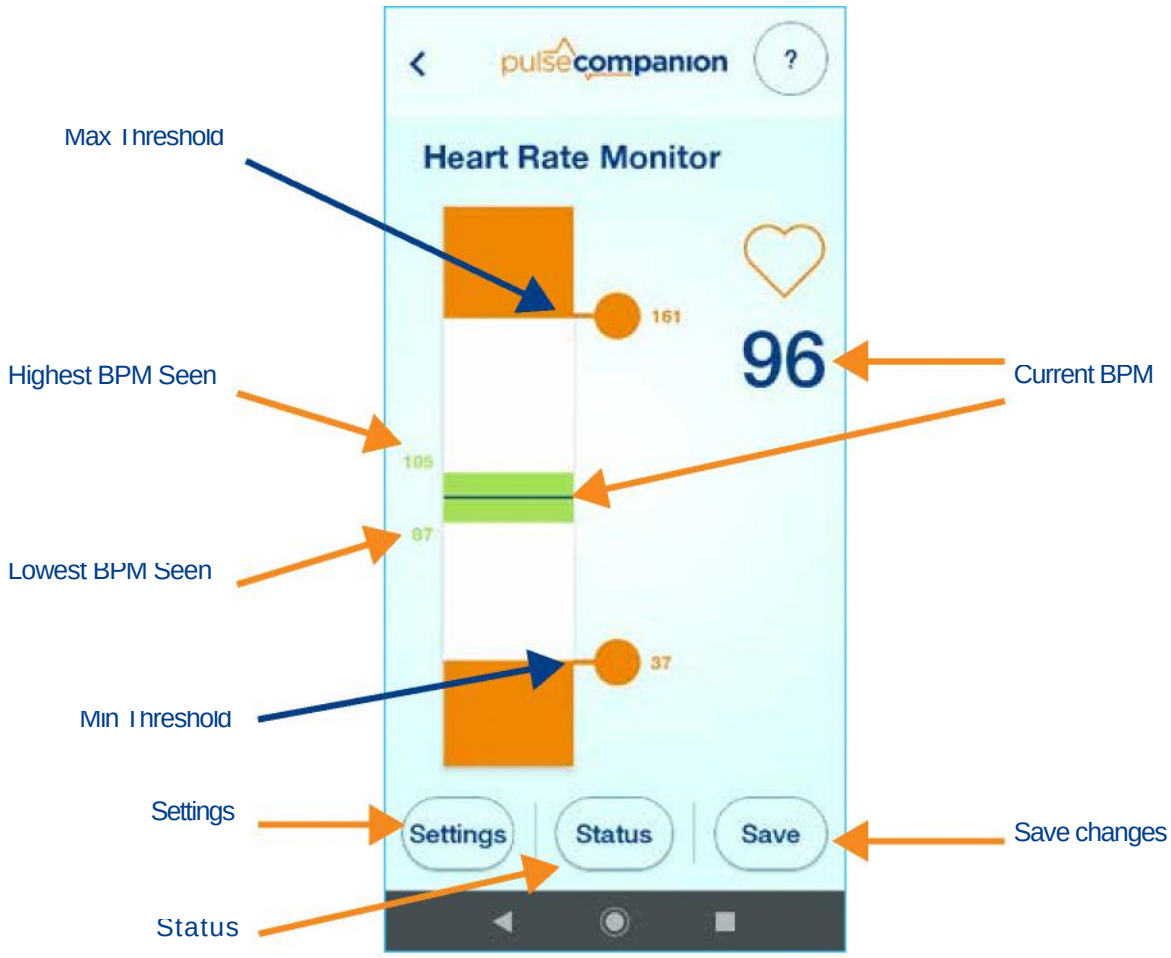


Figure 6

The black line moves up and down as the BPM reading changes.

The area in green shows the highest and lowest BPM readings that have been seen by the monitor (Since the last reset of the High & Low).

The two orange circles slide up and down allowing the thresholds to be adjusted.

Press and holding either orange circle will bring up a box that will allow the exact threshold value to be entered manually.

The green area can be reset by pressing the "**Reset High & Low**" button found on the "**Settings**" page (Page 13).

"**Status**" will help to identify any working / fault conditions.

Settings

After clicking the “**Settings**” button you will see the following information;

“**Nickname**”: This changes the name that is advertised when scanning for the device.

“**Armband Battery %**”: Displays the current battery level in the armband.

“**Pulse Companion Battery %**”: Displays the current % battery level in the Pulse Companion.

“**Reset High & Low**”: This resets the highest and lowest BPM readings seen by the Pulse Companion.

“**Advanced Settings**”: Contains additional configuration settings (see page 14).

“**Test**”: Sends out a test alarm to the pager for 3 seconds.

Advanced Settings

After clicking the "**Advanced Settings**" button you will see the following information;

Please Note: If a password is enabled, any changes here will require it to be entered

"**Radio Address**" changes the address the pulse companion transmits.

"**Radio Type**": (Cannot be modified) Shows the radio type of the Pulse Companion.

"**Pair Armbands**": This will open the the paired armbands screen

"**Serial #**": (Cannot be modified) Shows the devices serial number.

"**Alarm Period**": Is the amount of time that the heart rate reading needs to be outside of the thresholds before the alarm is raised (This is set to 5 seconds by default).

"**Alarm Timeout**": If an alarm is triggered and left active, the alarm will automatically snooze its-self if ignored for this period.

"**Snooze Time**": When an alarm is triggered then snoozed by pressing the •●• button (or the Alarm Timeout timer has expired), the pulse companion will re-arm automatically after this period.

"**Always Adverise**": This allows you to pair to the device at any time, without needing to press the •●• button first.

"**Enable Password**": If you wish to protect the min and max thresholds from being modified you can protect them with a 4 digit pin code.

"**Device Info**": Displays information about the Pulse Companion hardware.

"**Save**": Pressing this will save any changes that are made to the pulse companion.

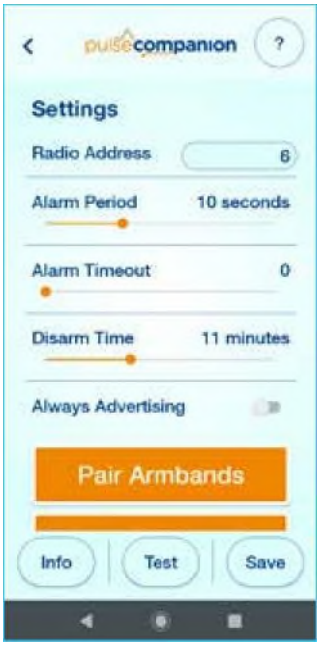


Figure 7

Pairing Armbands

The Pulse companion will automatically pair to any armbands that are turned on and selected in its "**Paired Armbands**" list.

Alert-iT pre-pairs the Pulse Companion with any armbands in the box before shipment, however, if you wish to pair more armbands with the device OR remove any armbands from its list you can use the "**Pair Armbands**" button in the "**Settings**" menu.

Note: We have limited the Pulse Companion to a maximun of three armbands. (Only one armband can be used at a time).

When the Pulse Companion is turned on it will begin scanning for any armbands that are also turned on. Any armbands that are not in its "**Paired Armbands**" list are ignored. If two or more armbands are discovered that are selected in the list, the one that was used last will be paired too.

In the paired armbands screen you will see the following;

An armband highlighted in orange and selected with a tick is currently in use and monitoring.

Armbands shown in blue and selected with a tick are currently turned on and will be paired to automatically but only when the current armband is disconnected.

Armbands shown in grey and selected with a tick will be paired to automatically but are currently turned off.

Armbands shown in blue and un-ticked will not be paired to automatically.

To add a new armband, turn it on then press the "**Refresh**" button. The new armband will appear in blue. Tick the box next to its name then click "**Save**".

Figure 8

You should now have the armband fitted on the user and the Pulse Companion paired correctly and configured with suitable thresholds. The light on the Pulse Companion will be blinking green every 4 seconds and the monitor name will appear on the pager screen every 8 seconds.

If the armband now sends out a heart rate reading that is above or below the configured thresholds the Pulse Companion will raise an alarm, indicated by the light alternately flash red then green and the pager will alarm "**Urgent**".

When you attend to the user, press the •●• button to "**Snooze**" the alarm for the "**Snooze Time**" (default = 10 minutes), this will temporarily reset the pager alarm.

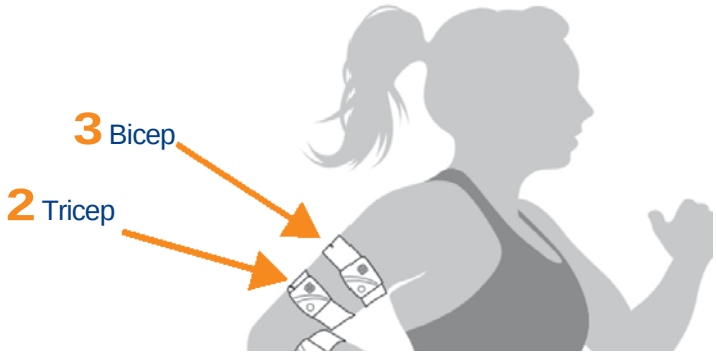
To resume monitoring, press the •●• button again, ensuring that the Pulse Companion LED is flashing green every 4 seconds.

PLEASE NOTE:

As a safety feature, after the "**Snooze Time**" period has expired, monitoring will resume automatically. If, when the monitoring resumes the heart rate reading is still outside of the thresholds, the alarm will be resent to the pager.

Armband Placement

For the most accurate readings, wear the armband on the upper forearm, biceps or triceps snug enough to not move on your arm, but **NOT** so tight that it restricts circulation.



1 Upper Forearm
(recommended placement)

Changing the Armband due to low battery

The battery in the armband should last 12 to 16 hours.

When the battery in the armband gets low, "**Fault 28**" will be shown on the pager screen.

1. Turn off the armband by holding its big button for 5 seconds.
2. Turn on the new charged armband by holding its big button for 5 seconds.
3. Press the •●• button on the Pulse Companion to reconnect it to the new armband. The fault should now clear from the pager.
4. Ensure Pulse Companion is monitoring by observing the LED flashing green every 4 seconds.

Charging the Armband

The armband is charged by placing it into the cradle and plugging it into the mains USB charger.

The main LED flashes red while charging. The triple LED's indicate the charge level. When all three of the triple LED's are lit the charge is 100%.

The charge time is approximately 2 hours.

Turning the armband off

If monitoring is not required for the rest of the day;

1. Turn the armband off by holding its big button for 5 seconds.
2. "**Fault 26**" will now appear on the pager screen, press the "**Up**" arrow to silence the fault tune for 5 minutes.

0. Press the •●• button to acknowledge the fault alarm. The "**Fault 26**" on the pager will now clear after 6 minutes.

Turning the Pulse Companion off

The Pulse Companion should be left in standby mode (LED flashing red every 8 seconds) when not in use E.g. If not used during the day. See page 19 for permanent removal from service.

Device Positioning

The Pulse Companion needs to stay within 10 meters of the armband so it should typically be carried on your person or left on a bedside table.

The pager needs to be kept within 450 meters of the pulse companion. This range can be extended using repeaters if required (contact your equipment provider for more details).

The •●• button on the Pulse Companion needs to be pressed when attending alarms and when changing armbands, so the Pulse Companion will need to be kept accessible (e.g. not hidden in a locked draw).

The device can be left on a bedside table or mounted on the wall next to the bed. Or be carried on a person.

The Armbands battery typically lasts in excess of 12 hours, so one band is usually sufficient for overnight use, where it is charged again during the day. A second band can be used if round the clock care is required.

PLEASE NOTE:

The power consumption in both devices will increase very slightly the further they are apart, so keeping both devices within a few meters of each other is preferable where possible to increase battery life.

Wall Mounting

Remove the base by inserting a flat-headed screwdriver into the slot, apply gentle pressure and turn the screwdriver, the base will then pop away from the top.

The two holes in the base can then be used to attach the device to a wall or surface.

A wall mounting kit consisting of sticky pads, and two countersunk screws with wall plugs is included in the box.

Figure 10

Removing the Pulse Companion from Service

The device can be turned off by holding the •●• button for 10 seconds, the light will flash red rapidly when shutting down. Upon shutting down it will send out an "**Alarm Off**" call to the pager (This will stay on the pager permanently until the device is turned back on).

IMPORTANT:

The pulse companion can be deactivated or removed from the pagers memory if required. Please contact support for assistance if needed.

RF Fail: Radio Fail Alarm

As the Pulse Companion is a "**Safelink**" enabled device, the pager is expecting to see its regular heartbeat signal every 8 seconds.

If the pager does not see any heartbeat signal for 2 minutes it will raise a Radio Failure alarm "**RF Fail**". This condition could occur if;

- The Pulse Companion is too far away from the pager (Range = ~450 meters)
- The Pulse Companion is turned off/Batteries flat.
- There is a hardware fault with either the Pulse Companion's transmitter or the Pagers receiver.

Pulse Companion Battery Low / Battery End;

When the battery in the Pulse Companion gets 'low', the pager will display "**Batt Low**".

When the battery in the Pulse Companion gets 'very low', the pager will display "**Batt END**". The batteries should be changed immediately.

Fault 28: Armband Battery Low

When the armband battery gets low the pager will display "**Fault 28**". See page 17.

Fault 26:

The pager will display "**Fault 26**" if;

- The armband is too far away from the Pulse Companion (Range = 10m). - Ensure the devices are within range of each other then press the •●• button to reconnect.
- The armband has been turned off.
  - You should turn the armband back on and press the •●• button to reconnect.
  - If the armband has been intentionally turned off, press the •●• button to confirm this. After 6 minutes the "**Fault 26**" will clear from the pager. The pager can be silenced in the meantime by pressing the up button.
- The armbands battery has died
  - Charge the armband.

Fault 18: Armband Lockup

There is a safety feature in the Pulse Companion that will raise a fault condition if it thinks the armband has locked up, but is still giving out a 'valid' heart rate reading.

If the Pulse Companion detects the Armband has been sending out the same BPM reading for several minutes, the pager will display "**Fault 18**".

- Turn the armband off and on again or use a different armband if the issue persists. Please contact support for further advice

Pulse Companion ‘Status’ Light

The Pulse Companion has a single Red/Green light.

Light off	Device is powered down
Blinking red every 4 seconds	Device is in standby (Press •●• button to start scanning)
Blinking green every second	Scanning for armbands
Blinking green rapidly	Armband discovered
Blinking green every 4 seconds	User is being monitored
Blinking red/green/red/green	Heart rate high / low alarm condition
Blinking red every 2 seconds	Alarm has been snoozed

Armband LED

Blinking red	Armband is turning on
Three red flashes	charging
Blinking purple every 1.5 seconds	No heart rate detected
Red for 2 seconds	Unit is shutting down

Routine Testing

It is recommended to test the system by connecting to the Pulse Companion with the "**Alert-iT**" App and pressing the "**Test**" button. The pager should alarm for 3 seconds then reset.

How to Clean the Devices

The plastic case is anti-microbial, for more information see; www.addmaster.co.uk

This product can be cleaned by;

- Wiping with cotton wool pads or cloth moistened (compressed until dripping stops) with a mild detergent (0.5% washing up liquid) solution.
- Wiping with a disposable 70% isopropyl alcohol wipe (or baby wipe).

Changing Batteries in the Pulse Companion

The "**Settings**" screen displays the current battery life of both the armband and the Pulse Companion.

Turn the Pulse Companion off (See page 17), then remove the base of the monitor as shown in Figure 11. Please notice the polarity marked into the case when replacing the 2x AAA batteries.

After changing the batteries, the monitor **MUST** be turned on again by holding the button for 2 seconds.

Figure 11

Figure 12

Pager Function

PLEASE NOTE::

While the pager is shipped with some charge in the batteries, it is recommended that the pager is charged fully before use. For full details about this pager see "**UH1068B P137 User Handbook.pdf**".

To TURN ON the Pager, press and hold the "**Menu**" button for 3 seconds. The pager will beep and the screen shows the pager status information before entering its standby mode.

If the Pulse Companion is turned on, you will now see the name allocated to it flash on the screen every 8 seconds e.g. "**Pulse 01**" (This can be changed to the users name).

To TURN OFF the pager, press and hold the "**Menu**" button for 3 seconds to enter the "**Set-up & Edit**" menu. Use the right key to scroll to the menu item "**Turn Off**" Select "**Turn Off**" with the up key and the pager will turn off.

To snooze any active alarm / fault tunes press the " " arrow, this will snooze any active alarm calls for 5 minutes.

See pager handbook for further details at;
www.alert-it.co.uk/support/

Scosche “Rhythm 24” (Manufacturer of armband sensor) state:

While our Rhythm 24 Heart Monitors are state of the art, there are inherent limitations with the technology that may cause some of the heart rate readings to be inaccurate. Some circumstances that can influence the readings are, but not limited to, the users physical characteristics, the fit of the device and the type and intensity of the exercise routine or activity.

Rhythm 24 heart monitor has a heart rate tracking feature that may pose risks to users with certain health conditions.

Consult your doctor prior to use if you: 1. Have a medical or heart condition; 2. Are taking photosensitive medication; 3. Have epilepsy sensitivity to flashing lights; 4. Have reduced circulation or bruise easily; 5. Have a musculoskeletal disorder. If you experience a medical emergency stop using the product and consult with a medical professional immediately. Scosche are not responsible for any health problems that may result from the use of the Rhythm 24 heart rate monitors. If you use the Rhythm 24 heart rate monitors, you agree that you do so at your own risk.

Prolonged contact with wearable devices may contribute to skin irritation or allergies in some users. To reduce irritation, follow three simple wear and care tips; 1. Keep it clean; 2. Keep it dry; 3. Don’t wear it too tight; If you notice any skin irritation, remove the device. If symptoms persist longer than 2-3 days after removing the device, consult your doctor.

Alert-iT endorse this statement and are also not responsible for any health problems.

The Pulse Companion is designed to detect a prolonged rise or fall in heart rate. Sudden spikes in heart rate may be missed. This may depend on the minimum or maximum thresholds set. For more information please contact our support team.

This symbol indicates there are warnings and precautions associated with the use of this equipment. This instruction manual should be carefully read and understood before using the equipment.

1. Ensure any power cables are routed to avoid a trip hazard.
2. Regularly check the power supplies for damage and potential shock risks.
3. Ensure, by testing, that the alarm is annunciated at the carer's location(s).
4. Clean and disinfect each item regularly in accordance with information on page 23.
5. Regularly test sensors as defined herein.
6. Use only the power supply and batteries recommended.
7. Operate power supply and charge pager away from direct heat and uncovered.
8. As with all medical 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 monitor, sensor or pager in close proximity to sensitive electronic devices or devices which produce strong electromagnetic fields such as radio transmitters, mobile phones or power cables.

0. Only use the monitor with accessories approved for use with this product and only in accordance with instructions.
1. If the equipment is modified in any way, appropriate inspection and testing must be conducted to ensure continue safe use of the equipment.
2. The carer must conduct a risk assessment to determine if the level of reliability offered by the monitor is sufficient or if additional monitoring is needed. Contact the manufacturer for assistance with Risk Evaluation Tools.
3. Additional levels of mechanical protection may be needed for some disorders. Contact the manufacturers for advice.
4. The carer must never clear an alarm without checking the user's condition.
5. Some accessories are fitted with small screws and have plastic bags. Ensure these do not come into the possession of vulnerable people who might choke on them.

The Alert-iT system has been designed with due regard to reliability and integrity. While it offers a highly vigilant monitoring 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 monitoring techniques (e.g. video). Neither the manufacturer nor its agent can accept legal responsibility to provide a system that is infallible. The carer is responsible for assessing the risks of using this equipment and any settings pertaining to it.

Pulse Companion Specification

Weight:	54g
Material:	White ABS Anti-microbial
Dimensions (mm):	100 x 45 x 15 (HxWxD)
Batteries:	2x AAA (LR03) Non-rechargeable
Battery Life:	~6 months
Operating Temp:	5°C to 35°C (Used Indoors)
Humidity:	90% max. Non-condensing
Sealing:	IP50 (not waterproof)

Certification

The product complies with 93/42/EEC as a Class 1 Medical Device for use in a Home Healthcare environment.

Hereby, Alert-iT Care Alarms declares that this product is in compliance with the Radio Equipment Directive (2014/53/EU). The product contains a radio transmitter compliant to EN 300-220-2 operating at 434.075 MHz wideband, 10mW power (Class 8) less than 1% duty cycle (Class 2). The full text of the EU declaration of conformity is available at the following internet address;

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

The system complies with EN 60601 for Class 2 Electrical Safety and does not need a protective earth and Group 1 Class B for EMC in a Home Healthcare environment.

PLEASE NOTE:

None of the comonents, including batteries should be disposed of as Domestic Waste.

For information on disposal contact Alert-iT.

Pager Specification

Power:	1.3mm 9V DC
Weight:	161g
Material:	White ABS Anti-microbial
Dimensions (mm):	120 x 70 x 20 (HxWxD)
Batteries:	2x AA (HR6) Ni-MH Rechargeable 2500mAh
Battery Backup:	>72 hours*
Charging time:	12 hours
Operating Temp:	5°C to 35°C (Used Indoors)
Humidity:	90% max. Non-condensing
Sealing:	IP52 (not waterproof)
Radio Range:	450 meters+

***NOTE:**

The backup batteries performance will degrade over time, routine testing must be performed to ensure the backup batteries performance has not degraded beyond acceptable levels. See the "**Maintenance Instructions**" section for further details.

Certification

The product complies with 93/42/EEC as an essential accessory to a Class 1 Medical Device for use in a Home Healthcare environment .

Hereby, Alert-iT Care Alarms declares that this product is in compliance with the Radio Equipment Directive (2014/53/EU). The system has a radio receiver compliant to EN 300-220-2 'Class 2' operating at 434.075 MHz wideband. The full text of the EU declaration of conformity is available at the following internet address;

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

The system complies with EN 60601 for Class 2 Electrical Safety and does not need a protective earth and Group 1 Class B for EMC in a Home Healthcare environment.

PLEASE NOTE:

None of the comonents, including batteries should be disposed of as Domestic Waste.

For information on disposal contact Alert-iT.

Routine Testing Sheet

Serial Number: _____

Test	Signature	Date
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
0.		
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Address:

Alert-iT Care Alarms
Fernie House
Coalville Business Park
Jackson Street
Leicestershire
LE67 3NR

Call:

+44 (0) 1530 239 900

Visit:

www.alert-it.co.uk

Social:

II AlertitCareAlarms
V' Alert_iT_Care
en Alert-iT
or join our supportive Epilepsy Forum

UH1482A Pulse Companion Handbook

DESIGNED & MANUFACTURED IN THE UK

APPROVED CODE TRADINGSTANDARDS.UK

iT's Designs Ltd Trading As Alert-iT Care Alarms

LESS STRESS CARING