

# Alert-iT Care Alarms

## Who are Alert-iT?

- British company based in Leicester since 1996
- Design, manufacture & support monitors for the frail and vulnerable
- Key areas:



- ISO13485 Quality System
- Supplier to Local Authorities, Care Homes, NHS, Education and Domestic Users
- First Electronic Epilepsy Support Monitors designed 1994
- Still only one marketed using “failsafe” radio
- All monitors designed, manufactured & supported in UK as Class 1 Medical Devices
- We do not just sell products but the whole support service from assessment to on-site visits
- Our monitors are supplied by ALL Telecare providers
- Our monitors can be used with ANY Nurse call system
- Our monitors set the standard for Plesiocare

## Alert-iT is the UK's foremost supplier of Plesio-care systems

Plesio-care is a category of Assistive technology to support healthcare conditions

### Self-care

Independent maintenance of health to prevent illness. Includes personal hygiene, nutrition, self-medication and lifestyle.

### M-care

Or 'mobile-care' uses mobile phone devices linked to 24/7 monitoring services (software or phone 'app') which collect and receive data specific to the individual's health and social care.

Alert-iT provides:  
Plesio-care



What is Plesio-care?

Plesio-care is 'near-care' as opposed to 'telecare'. That is, technology providing feedback directly to the carer instead of being mediated through a support centre.

Alert-iT's products are innovated to support carers and not to remove them from the traditional caring approach.

Our products have unique differences that suits local care management (such as Failsafe radio rather than just Class 1).

### Telecare

Continuous and remote monitoring using technology connected via telephone to a support centre. Trained operators monitor and support 24/7.

### Telehealth

Independent use of home based equipment to measure blood pressure, blood glucose levels and weight; to reduce GP visits and unplanned hospital visits.



## The Science behind Alert-iT

- Failsafe Plesiocare radio paging using Safelink
- Carers have to attend to reset alarms
- Alarm logging
- Non invasive sensors and monitors
- Complex electronics to filter, process & detect seizure patterns
- Epilepsy Spasm Recording Project
- Precise Fall Monitoring Project
- Reliable non-intrusive bed vacation monitoring



### Seizure Classification

#### Partial

(Seizure activity originates in one part of the brain)

#### Simple

(Motor, Sensory, Autonomic & Psychic)

#### Complex

#### Generalized

(In these seizures, you have epileptic activity in both hemispheres (halves) of your brain. You usually lose consciousness during these types of seizure, but sometimes it can be so brief that no one notices. The muscles in your body may stiffen and/or jerk. You may fall down)

#### Tonic Clonic

During the tonic phase, you lose consciousness, your body goes stiff, and you fall to the floor. You may cry out. During the clonic phase, your limbs jerk, you may lose control of your bladder or bowels, bite your tongue or the inside of your cheek, and clench your teeth or jaw. You might stop breathing, or have difficulty breathing, and could go blue around your mouth.

#### Atonic

Atonic seizures are also called drop attacks. If you have atonic seizures, you will lose all muscle tone and drop heavily to the floor. These seizures are very brief and you will usually be able to get up again straight away. However, you might hurt your face, nose or head when you fall.

#### Absence

Absence seizures usually develop in children and adolescents. The two most common types of absence seizure are typical and atypical.

#### Tonic

The symptoms of a tonic seizure are like the first part of a tonic-clonic seizure. But, in a tonic seizure, you don't go on to have the jerking stage (clonic). You may cry out.

#### Myoclonic

These are usually isolated or short-lasting jerks that can affect some or all of your body. They are usually too short to affect your consciousness. The jerking can be very mild, like a twitch, or it can be very forceful.

**SUDEP: Guardian Monitor for total movement cessation**

## Epilepsy Presentation and Monitor Functions Matrix

Condition	Presentation	Product	Function
Simple: Partial	Panic or Aura	P135 Personal Call	Press for help
	Breathing Changes	Guardian	Breathing rate change
	Sweating	Companion	Cotton moisture sheets
	Salivation	Companion	Cotton moisture sheets
	Enuresis	Companion	Cotton moisture sheets
	Sounds	Companion	Microphone (Sound Level)
	Heart Rate	Pulse Guard	Heart Rate Deviation
Complex: Partial	Sounds	Companion	Microphone (Sound Level)
	Absconding (night)	Companion	Bed Vacation
	Absconding (day)	P161 Door/P162 Motion	Exit from safe area
	Absconding (day)	Tracker Watch	Geofence & Location
	Repeated Movements (night)	Companion (or mini)	Repeated bed movement
	Repeated Movements (day)	Smart Watch	Limb movements
Generalised: Tonic/Clonic	Repeated Movements (night)	Companion (or mini)	Repeated bed movement
	Repeated Movements (day)	Smart Watch	Limb movements
	Enuresis	Companion	Cotton moisture sheets
	Sweating	Companion	Cotton moisture sheets
	Salivation	Companion	Cotton moisture sheets
	Breathing Changes	Guardian	Breathing rate change
	SUDEP	Guardian	Shallow movement failure
	Fall	P135 Fall Monitor	Detects fast or slow falls
Tonic	Breathing Changes	Guardian	Breathing rate change
	SUDEP	Guardian	Shallow movement failure
	Fall	P135 Fall Monitor	Detects fast or slow falls
	Sounds	Companion	Microphone (Sound Level)
Atonic	Fall	P135 Fall Monitor	Detects fast or slow falls
	Sounds	Companion	Microphone (Sound Level)
Myoclonic	unlikely SUDEP	Guardian	Shallow movement failure
Absence	Fall	P135 Fall Monitor	Detects fast or slow falls
	Panic or Aura	P135 Personal Call	Press for help
	After bed vacation	Companion	Bed Vacation



## Companion Mini

- Supporting seizure type Tonic Clonic
- First Battery powered wireless monitor. Battery Life 1 Year.
- Pager – The Companion Mini comes complete with a pager
- Fail safe radio with a 450 meter range
- First digital movement sensor



## Companion Mini Pro

Using the same unique sensing technology of the companion mini, the Pro is designed to work with P137 range of the Alert-iT pager in a Professional / care environment where a number of Alert-iT devices may be required. With a remote reset button (to be installed as near to the user as possible) the Pro can only be reset if presentation of the seizure has stopped and the carer has attended by pressing the reset button.



## Companion Monitor

- Supporting seizure types Tonic Clonic, Tonic.
- Set up available on all divan, bedstead & profiling beds as well as all mattress types including airflow.
- Failsafe radio with up to 450 meters
- Adjustable to isolate normal bed movement but respond to seizure activity.
- External Microphone
- Detect bed vacation, enuresis, vomiting & excessive salivation associated with epilepsy



## Guardian Monitor

- Supporting seizure types Tonic Clonic & Tonic
- Detects rib cage movements for those at risk of SUDEP
- Failsafe radio with up to 450 meters
- Built in Microphone
- Detect bed vacation, enuresis, vomiting & excessive salivation associated with epilepsy.
- Record & Store Behaviour profile
- Unique sound filter system
- Adjustable to isolate bed movement but respond to seizure activity

