

Vox I.C.E Home Care Monitoring

An innovative Telecare solution for the elderly living alone

Vox I.C.E Home Care Monitoring

- Uses algorithms to determine behavioural patterns
- Sends precautionary and emergency alarms to caregivers
- Detects unusual behaviour and emergencies
- Can connect to various caregivers
- Provides caregivers with real-time data
- Scalable solution to fit requirements

Product Overview

Vox I.C.E comprises various non-invasive sensors which are automatically connected to an independent network, with no user intervention. The solution is aimed at elderly people, living on their own, who are self-sufficient, but require a certain amount of care.

The sensors are connected to an Internet of Things (IoT) network and transmit data to a centralised platform. The platform analyses the data over a period of time by means of special algorithms, and determines the daily lifestyle pattern of the resident. When monitoring the daily activities in real time, it compares the real-time data with the behavioural pattern, and detects any abnormal or out of pattern behaviour, which is then reported or escalated to any emergency contact - such as caregivers, neighbours or family.

The typical user of Vox I.C.E is a person or organisation who cares for older or disabled people who don't necessarily need full-time

care. The caregiver will receive warnings and emergency messages based on system detected abnormal behaviour.

Using acceleration detection, Vox I.C.E is able to alert on potential falls, with the system sending emergency messages to a predefined set of numbers. This drastically decreases the time for first responders to react. When the panic button is pressed on the wearable pendant, Vox I.C.E will send the exact location of the person to their caregiver. The wearable pendant is a device that the older person will take with them, when leaving the premises. Similarly, the caregiver can use the geo-location service on the Vox I.C.E dashboard to locate their loved one. The sensors inside the house will detect the fall and will alert the caregiver.

The Vox I.C.E technology will not replace the caregiver, but rather assist with and enhance the safety and monitoring of the elder.

How It Works



Vox ICE System Elements



Motion Sensor



Door Sensor



Vox ICE Platform

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Features and Benefits

Features	Benefits
Scalable	The user can start with the minimum amount of devices and can expand as the requirement changes.
Easy to install	Requires no technical skill to install or to activate on the network.
The Vox I.C.E system learns and recognises the behavioural pattern of a person	Due to the specialised algorithm, the system learns the older or disabled person's behaviour over a period, and will detect any behavioural changes outside of this.
Precautionary and emergency alarms	Alarms will be sent to caregivers based on certain abnormal conditions.
Detects accidental falls	The system will alert caregivers in emergencies.
Detects abnormal behaviour	If an older person becomes ill, or deviates from normal behavior, the system will detect this and send a cautionary alarm.

Additional Information

It's estimated that 9% (5.2 million people) of the current population in South Africa is older than 60 years of age and this number is expected to increase to 10.2 % (6.6 million people) in 2030 and reach 16% (1.2 million people) of an estimated 75.5 million South Africans by 2050.

It is also predicted that the average age of people will increase, with a decrease in income, and it can be assumed that a substantial amount of people will not consider moving to a full-time care facility, but would prefer to remain in their current environment. This is also augmented by the following:

- High costs of full-time care facilities.
- Proximity to friends and family.
- Proximity to healthcare facilities.
- Interaction through various social groups.
- Transportation.
- "Stigma" of the term "Old Age Home".
- People want to be independent.
- Increased healthier living.
- Resistance to change.
- People are used to a certain routine.



About Vox

Innovation and insight combine in Vox, a market leading end-to-end integrated ICT and infrastructure provider and telecommunications company. From data to voice, as well as cloud, business collaboration and conferencing tools, Vox offers

intelligent solutions that connect South Africans to the world, supporting entrepreneurs, customers and commerce, whilst practicing values of integrity, choice and service excellence in all of its dealings. For more information [click here](#).

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