

Robotic health monitor and Air Purifier

ActiveAge has featured many different robots, which have been designed to improve and enhance the quality of life of older people.

This week we would like to highlight Rydis H1004 Silvercare, an air purifying robot that moves from room to room, and has been awarded the Innovations Design and Engineering Award at the Computer Electronics Show¹ 2012.

As well as acting as an air purifier this robot also works as a carer by constantly monitoring the vital signs of the user via a wristwatch. It is capable of reacting to changes in vital signs by performing various actions i.e. if the user falls the robot can make a call using Skype to various numbers programmed into its memory.

This robot has a tablet on the top, which runs on windows 7. It can be programmed to run a variety of applications at the same time including playing music whilst following the user from room to room.

It's expected that this product will be available in the market this year.

For more information please visit:

<http://www.geekazine.com/video-pod/moneual-robotic-air-purifier-moves-room-to-room>

<http://moneualusa.com/>

Watchie

WATCHIE is a stylish tracking device designed for dementia and Alzheimer's sufferers.

The watch was developed by Swiss company LOSTnFOUND who have a background in vehicle tracking and other moveable assets. WATCHIE® is the first device in the world to use the CellLocate™ positioning system from u-blox, which intelligently combines the GPS satellite and Mobile phone positioning data together.

The innovative design of the watch enables a working battery life of many days, or even weeks. Key features of the watches energy concept are: self-activation; efficient management of data transfer; and easily interchanged batteries.

Other functions include a panic button or SOS and a falls alert. WATCHIE also has an integrated SIM card, which can work in 145 countries worldwide.

The watch includes a downloadable application that can be run on a Smartphone or ipad. This enables a close friend or relative to track the wearer.

WATCHIE is still at the pre production stage and as yet no date has been set for the product to enter the market.

For more information please visit:

<http://www.watchie.com/>

¹ <http://www.cesweb.org/>

UP a magical wrist-wear

'Up' is a wristband that connects with a mobile smartphone application to monitor diet, exercise and sleeping habits. The product has been designed by Bluetooth wireless accessory manufacturer Jawbone.

The gizmo is designed to promote health and wellness by better integrating with modern-day users' more hectic and sedentary lifestyles. It is capable of tracking eating habits, nutrition, sleep patterns, and overall wellbeing as well as making recommendations on how to improve dietary and fitness routines.

Up has been designed for all age groups and has appeal to a mass market. However, it seems obvious to ActiveAge how this technology could help older people and their carers to better manage their own health and wellbeing.

The product comes with an iPhone application, which keeps track of all the data collected by the wristband including calories burned, intensity of exercise, active v's inactive time, GPS routes and sleeping patterns.

For more information visit:

<http://www.jawbone.com/up>

Helius, the intelligent pill

US company Proteus Biomedical, has teamed up with Lloyds Pharmacy to bring to market a sensor-enabled pill that can monitor patients' adherence to medication.

The Helius system consists of a sensor patch worn by the patient and an ingestible event marker (IEM's) to be taken with a pill or incorporated into the medicine itself.

The IEM's are activated by stomach acid and powered like potato batteries. This enables the IEM's to send signals to the patch worn on the patient's skin. The patch is able to monitor vital signs in addition to receiving signals from the IEM's, to keep track of when the patient has taken their pill and how the patient responds to the medication.

The data can be transferred to a patient's mobile phone and shared with a health practitioner.

In the UK alone an estimated £396m of NHS money is wasted on unused medicine every year².

Researchers are hoping this solution will help to reduce the number of people not adhering to their medicine properly. Lloyds plan to introduce the Helius system to some of their stores this September.

For more information visit:

<http://www.newelectronics.co.uk/electronics-news/sensor-enabled-smart-pill-to-revolutionise-healthcare/39653/>