Employees working in the healthcare sector need to be provided with a safe environment in which to work, allowing them to provide the best in customer care to patients

Good healthcare environments matter to patients, visitors, carers and staff. A good healthcare environment has a powerful effect on patients and staff, it can enhance clinical outcomes, patient recovery and improve staff well being.
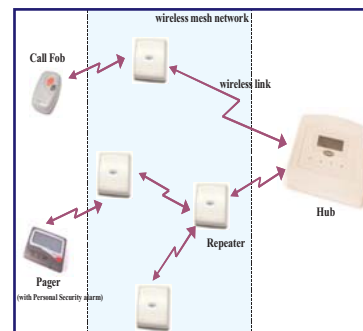
However, employees working in healthcare environments often face difficult and challenging situations while carrying out their everyday duties.

Multitone's **NEW** EkoTek wireless solution assists in overcoming difficult circumstances faced by healthcare staff and helps increase the service level to patients

In Healthcare applications, Multitone's **NEW** EkoTek solution helps provide the following:

◆ **Provides a high level of protection for your staff**

◆ **Fast response to medical emergencies**

◆ **Speed and efficient communication among healthcare staff**

◆ **Easy location of staff and patients within healthcare facilities**

◆ **Staff support and medical 'call' assistance with patient care and tasks**

◆ **Assistance alerts raised in situations of verbal and physical abuse from patients**

◆ **Accurate alarm location in order to respond quickly and efficiently to an incident**

◆ **Two-way paging with acknowledgement when assistance from fellow staff is required**

◆ **Personal security and protection for staff working in 'at risk' environments from abusive patients**

Call Fob

The Call Fob allows an assistance call to be generated either by the User pressing a button or automatically by the Dead-Man or Man-Down features. Accurate location information is obtained from nearby Repeaters. The Call Fob can also report the User's location to a Hub web page as the User moves around, allowing User tracking applications such as patient or visitor location to be implemented. Acceptance of assistance calls by an EkoTek Pager is indicated at the Call Fob to reassure the User.

Repeater

Repeaters automatically form the backbone mesh radio network, relaying messages to/from the Hub. The network physical layout is determined by the placing of Repeaters, which may extend across floors and buildings. Repeaters are battery powered and do not need any wires, making installation very quick and low cost. Each Repeater provides a location beacon signal for accurate location determination for alarm signals and also for tracking.

Pager

The Pager is multi-function supporting display of received messages with acknowledge-ment plus the ability to generate an alarm from the User, Dead-Man or Man-down Features. The Pager displays shows alarms from other Pagers and Call Fobs, allowing the User to accept the alarm and signal back to the Call Fob or Pager User sending the alarm that assistance is on its way.

Hub

The Hub displays assistance call messages, showing the calling User and location. Device configuration is stored on the Hub and can be changed using a PC running web browser software such as Internet Explorer. Statistics and logs are collected and stored at the Hub and can be viewed using a web browser. Additional web browser functions include creation of pager messages, allowing messages to be sent to individual or groups of Pagers and also location display to allow Call Fob or Pager Users to be located.

Technical Specification

Operation Frequency:	2.4 GHz-16 channels
Radio Power:	10 mW
Radio Structure:	Self-configuring/repairing mesh for range and easy expansion
Hub Interfaces:	DC power input, alarm contacts, serial to external paging system, antenna
Powering:	All devices battery powered except for the Hub which has an external DC power input and internal backup batteries for operation during mains failure

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